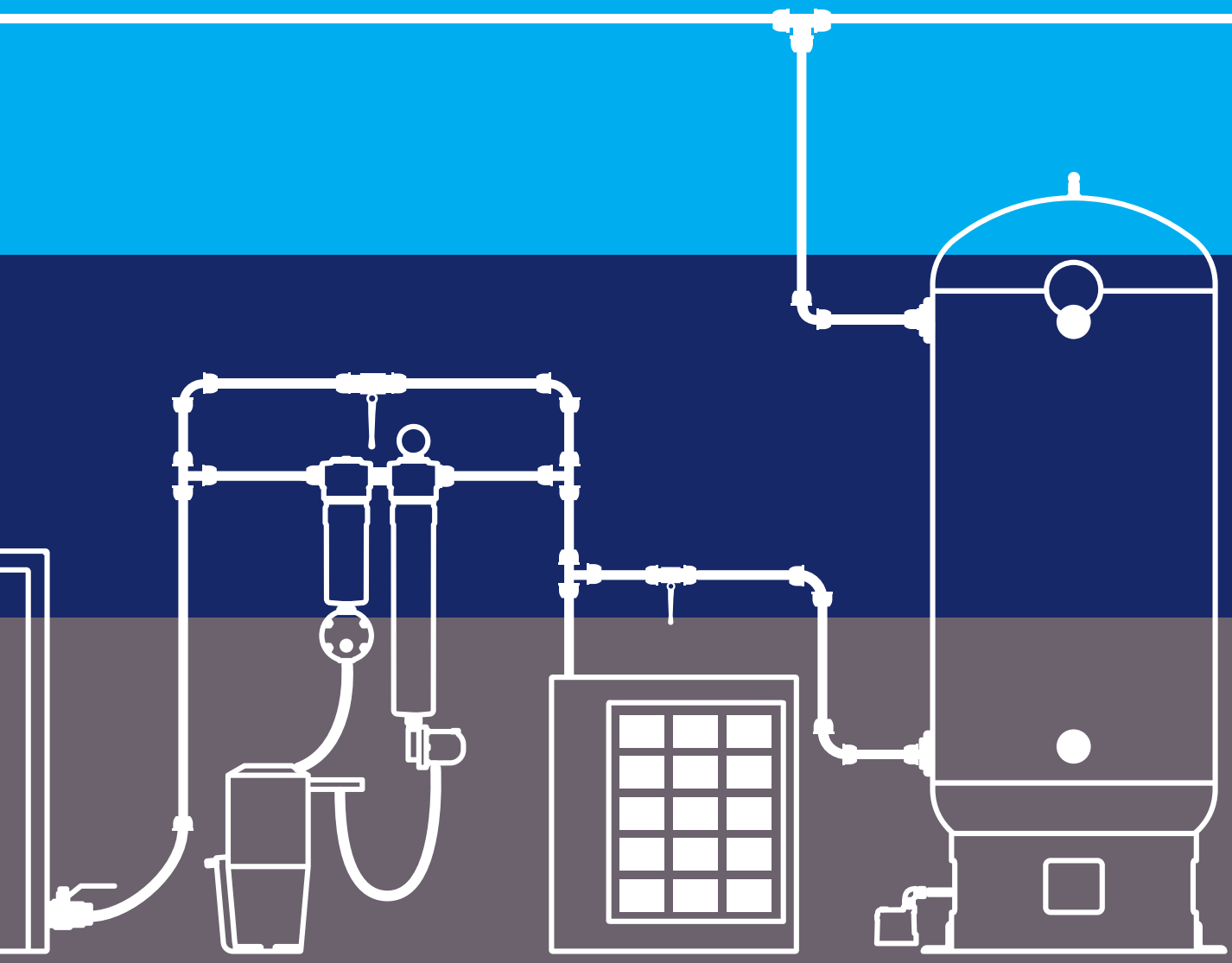
TOPRING

Compressed air solutions

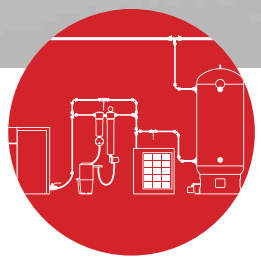


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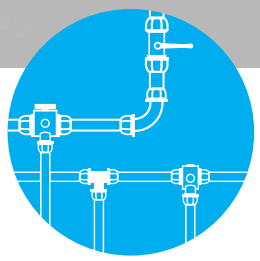
Compressed air solutions





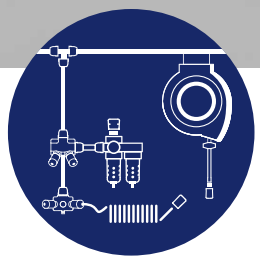
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Group 2

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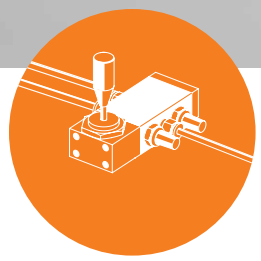
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INTRODUCTION TO COMPRESSED AIR

Used almost everywhere, compressed air is an important source of energy.

A properly planned compressed air system will ensure its effectiveness and limit the costs associated with its production and distribution.



Compressed air costs

The variation of applications, flexibility and safety of compressed air make it an attractive source of energy. Normally, over a period of ten years, the total cost for a compressed air system is broken down as follows: 56% energy, 11% investment, 33% maintenance (ref: Hydro-Québec). An energy-efficient compressed air system is therefore highly economical, even with slightly higher initial costs in comparision with conventional steel piping systems.

Air leaks and overpressure

It is estimated that leaks and unnecessary overpressure cause up to 30% of compressed air to be lost. This increases the total costs and this without any increase in production. Too often the solution to inefficiency of a tool or lack of compressed air is to add more power to the compressor in an attempt of compensating for pressure loss problems. Increasing the capacity of the compressor will only generate more wasted energy as leaks and a poorly designed system will not take advantage of the added capacity to improve performance.

Compressed air represents about 10% of the total electricity consumption in the industry.

A better understanding of air flow, air pressure and pressure loss is key when designing an efficient compressed air system.

Planning of the system configuration

It is important to understand that low pressure or flow at the point of use does not necessarily indicate that the compressor lacks power. The majority of compressed air systems pressure problems are due to poor configuration planning, inappropriate pipe sizes, worn or inadequate compressed air accessories, excessive leaks and overloads at various points.

The solution to an effecient compressed air system is to understand the following: **PRESSURE**, **FLOW** and **PRESSURE LOSS**. These three concepts will allow compressed air specialists to design, operate and maintain effective compressed air systems.

PRESSURE = AIR FORCE

The pressure of the compressed air is a datum that measures the potential energy stored in a compressed air system. Just like the voltage in electricity, pressure level simply indicates what is available to work with. Like the electrical outlet that remains « live » even if no appliance is connected to it, a pressurized compressed air system keeps the air pressure even when no tools or accessories are running.

Measuring pressure

The pressure is measured by calculating the force exerted on the walls of the air tank where the air is stored. This measure is usually expressed in pounds per square inch or PSI. Other units of measurement include BAR (for barometric pressure), ATM (for atmosphere) and kPa or kilopascal. Refer to the conversion table to understand the units of measurement and how to convert them.

Pressure: PSI and PSIG

Both are units of measurement that indicate the pressure on a surface. Technically, a PSI always starts at zero (compared to a real vacuum such as in space). PSI or Pounds per square inch is the most commonly used unit to measure pressure. According to established standards, on land, at sea level, the atmospheric pressure is 14.7 PSI. This is the pressure exerted by the gas mixture constituting the atmosphere.

PSIG or Pounds per square inch gauge is the technical term used when referring to a gauge that has been calibrated to read zero at sea level. In order to calibrate a gauge at zero on the moon, then traveling to sea level on the ground, the gauge would read 14.7 PSI. So when reading 30 PSIG on a gauge, the pressure is actually 30 PSIG + 14.7 PSI (atmospheric pressure).

Therefore the technically correct unit of measurement is in PSIG however, many still use the term PSI to read pressure.

PRESSURE CONVERSION

Example: 1 bar = 14.5 PSI

FROM ↓ → TO	mm Hg	in Hg	ft H_2O	atm	Bar	lb/in² PSI	kg-f/cm²	kPa
mm Hg	1	0.0394	0.0446	0.00132	0.00133	0.0193	0.00136	0.133
in Hg	25.4	1	1.13	0.0334	0.0339	0.491	0.0345	3.39
ft H_2O	22.4	0.883	1	0.0295	0.0299	0.434	0.0305	2.99
atm	760	29.9	33.9	1	1.01	14.7	1.03	101
Bar	750	29.5	33.5	0.987	1	14.5	1.02	100
lb/po² (PSI)	51.7	2.04	2.31	0.068	0.0689	1	0.0703	6.89
kg-f/cm²	736	29.0	32.8	0.968	0.981	14.2	1	98.1
kPa	7.50	0.295	0.335	0.00987	0.01	0.145	0.0102	1

For example, if a tool or application needs to run at 6 bar and we want to convert it to PSI, we must point to the left Bar and PSI unit at the top, that gives 14.5 PSI. We multiply these two figures to obtain 87 PSI.

HOW TO BUILD PRESSURE?

The pressure is built by adding more compressed air in an enclosed space; This air is generated by the compressor.

Pressurization

When the air is forced into a closed tank, the gas molecules that form the air bounce back and forth with greater vigor, trying to make their way back into the atmosphere. This compression effect which stores energy can then be released the equipment, in a tool or accessory. The greater the amount of forced air in the closed tank, the higher the pressure and the greater the potential energy stored.

Depressurization

The opposite is also true; while the air exits a tank, the internal pressure decreases since there are fewer molecules of gas in the air tank. The gas molecules bounce less against each other, decreasing the pressure on the walls of the air tank.

Ideal operating pressure: balance

The solution is to find a balance between the air entering the air tank and the air that is consumed or exiting from the tank, in order to achieve a stable operating pressure for the specific application. As tools and applications consume air, the compressor generates more air molecules and fills the air tank, therefore stabilizing the pressure.

Static pressure and dynamic pressure

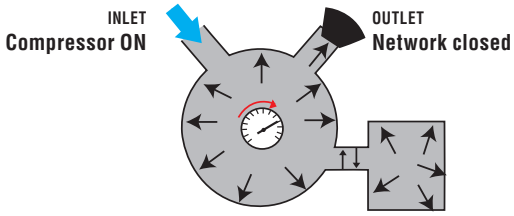
In order for air to circulate within the system, there must be **DIFFERENTIAL PRESSURE** between two points of the system.

The air coming out of a tool causes a pressure drop at the end of the hose because a quantity of air exits the system. The higher air pressure adjacent to this exit point quickly replaces the escaping air and so on until the hose connection point. All this happens because there is a differential in pressure between the air at the end of the service point (exit point) and the air at the beginning of the pipe (supply point) allowing air to circulate along its length. This is the difference between **STATIC PRESSURE** and **DYNAMIC PRESSURE**.

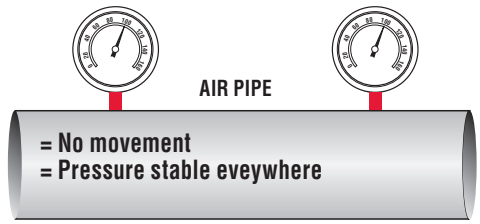
The pressure is static when the system is pressurized but there is no air circulation. Dynamic pressure is the pressure at which the system adjusts when air is circulating. Under normal conditions, this dynamic pressure will not reach zero, since the compressor and air tank continuously provide the air which is consumed; The pressure will fall to a lower level than the static pressure which will depend on the system's ability to replace the air consumed.

PRESSURE is therefore stored energy, ready to be used.
In order to make it functional, it must **CIRCULATE** - hence the importance of **FLOW.**

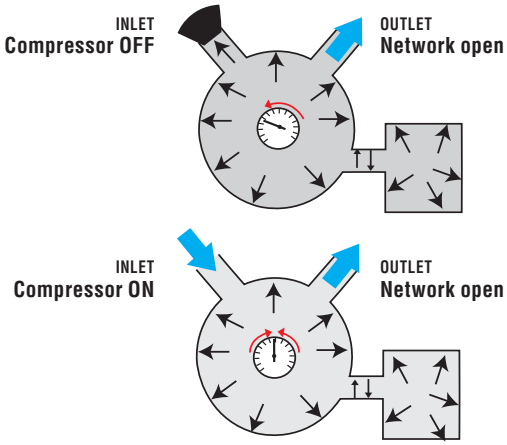
PRESSURIZATION



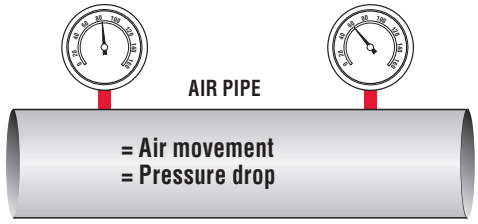
STATIC PRESSURE



PRESSURIZATION



DYNAMIC PRESSURE



THE FLOW = AIR VOLUME

Airflow is defined by the volume of air that circulates in a compressed air system for the execution of a task, application or tool during a given period of time. Like the current (amps) in electricity, the airflow represents the volume of air needed to maintain a sufficient force to perform a task.

Measuring flow

The flow rate is calculated by dividing the volume of air by a period of time. The most common unit of measurement is cubic foot per minute, or SCFM.

Pressure and flow, two different notions

PRESSURE and **FLOW** are often confused. Sometimes, they are replaced by one another and even misunderstood; although they are connected, they do not mean the same thing.

For example, it is important to know what voltage is present in an electrical system, but it does not provide the information needed to assess the power that can be used. The available current (amps) is more relevant, the same applies to compressed air.

The pressure supplied for both the compressor operation and the required operations to be performed by the tools represents the volume of air available over a period of time and determines whether the system can meet the needs of the tools and quipment.

It is the flow capacity that allows the system to replace the air consumed by the tool in order to maintain adequate pressure.



When using rotating tools such as screwdrivers, impact wrenches or grinders which require a high airflow to operate properly because the volume of air passing through a turbine or over a valve activate the air tool. It is recommended to use pneumatic accessories offering a large SCFM.

Pulse tools such as nailers, hammers or staplers require specific pressure for the nail or staple to penetrate the material; The flow restrictions will thus have less impact on their operation (as long as there is enough flow to replace the air consumed in the various cycles).

OVERPRESSURE

Excessive pressure of 14.5 PSI in the system increases energy costs by 7% without providing any additional utility.
The greater the potential for reducing pressure, the greater the potential savings are. In addition, leakage losses decrease if there is a pressure drop.

As a rule, tools and equipment require an operating pressure of between 87 and 90 PSI (6 and 6.2 bar). Pressure over 90 PSI (6.2 bar), reduces tool performance, shortens service life and reduces the reliability of the air supply, while increasing energy and operating costs.

Three possible situations:

1) All work stations have a lower pressure requirement than the pressure of the compressed air system. The pressure of the system can then be reduced gradually.
2) Only specific applications will require a higher pressure level. If the pressure in the entire system is to be increased by 7.25 PSI (0.5 bar) for only a few or a few users, individual solutions must be considered to increase the pressure for these specific applications, for example by using a recompression compressor (aka : Booster).
3) Only certain types of applications require a lower pressure. When only a few tools and equipment require a lower level of pressure, pressure regulators must be installed at the point of use. It is recommended to install a pressure regulator where the pressure of the compressed air system exceeds the required operating pressure by 7.25 PSI (0.5 bar). This practice is also considered a cost saving.

The pressure trap

Increasing the pressure with the objective of increasing the output is a common mistake. Increased pressure will not make the tool perform better when in reality it lacks in flow. Since the tool consumes more air than the system can provide, the air available at the tool connection point decreases, causing an excessive pressure drop. Although the increase in pressure saves time and gives short-term force, the flow of the system fails to replace the air consumed.
An overpressure will not solve the problem, it will create others, such as an overvoltage on the compressor, damage to the tool, etc. Hence the importance of reducing the overpressure to the tool.

EXCESSIVE PRESSURE LOSS = The pressure difference between what is present in the air tank and what is available at different points in the system.

PRESSURE LOSS refers to the difference in pressure between the pressure in the air tank and the pressure available at different points in the system

Excessive pressure loss

EXCESSIVE PRESSURE LOSS occurs when the compressed air system is unable to replace the air consumed by the tools or to perform work at a sufficient speed. This causes a pressure drop lower than the suggested operating pressure for the tools or equipment, with the following results:

- Poor tool performance,
- Waste of time
- Quality problems, poor productivity and damage to the equipment

What is excessive loss?

A **10% LOSS** where the tool is connected, for example, between the compressor tank pressure and the pressure at the connection, is acceptable for most air tools, so a total loss of less than 3 % for the entire compressed air system. Losses greater than these data are said to be "excessive". Often the pressure will be increased to try to solve the problem. This solution provides higher pressure when the tool is operated at the beginning but the system is still ineffective. The pressure still drops below the ideal operating pressure after the initial thrust which often damages the tools.

Ideally, the entire compressed air system, including the compressor, air tank, piping, quick couplers, air hoses, etc., will have been designed to provide sufficient flow to replace the air consumed, while avoiding excessive pressure loss where the tool is connected.

EXCESSIVE PRESSURE LOSS

What is excessive?

• At the tool: 10% • In the compressed air system: 3%

Costs associated with excessive pressure loss

Compensating too much pressure loss in a compressed air system will lead to additional costs:

- **Energy costs :** As the compressor operates over a longer period to maintain a higher operating pressure. In general, it costs 1% more electricity for each 2 additional PSI maintained in the system.
- **Leak costs:** since additional pressure to compensate for losses allows a larger volume of additional SCFM to leak from the same leak point.
- **Maintenance cost**s : for the compressor that will wear out more quickly
- **Premature equipment costs :** Tooling, replacement or repair costs as the tool is under an initial pressure higher than the recommended pressure and will wear or break more quickly
- **Labor costs,** as users lose time to compensate for the weaknesses of tools with poor performance due to pressure losses
- **Production costs** due to inferior quality and production problems caused by tools that do not work as expected (e.g. a grinder that operates at a lower RPM creates finishing problems).

Therefore, it is worth investing to improve the performance of a compressed air system.

In general, it costs 1% more electricity for each 2 additional PSI maintained in the system.

EXCESSIVE PRESSURE LOSS (CONT'D)

Measuring pressure loss

Ideally, the pressure loss should be measured directly where the tool connects with the air hose, to ensure that all potential sources of pressure loss are taken into consideration. The proper procedure is to measure each connection, upstream in the compressed air system and when possible all the way back to the air tank. This method will isolate any problematic components.

Two very common mistakes occur when measuring the pressure at the tool connection will yield inaccurate readings and low tool performance.

1) **Regulate the pressure away from the air tool.** There may be a significant drop in pressure between the regulator and the tool, through the quick couplers and the hose. To ensure an exact pressure, it should always be checked at the inlet of the tool while adjusting the pressure regulator. It should also be installed as close to the tool as possible.
2) **Setting the pressure when the tool is in the static position ("off" position)**. The tool must be running to detect pressure loss (the system will retrieve in static mode); The pressure must be measured and the controller set when the air tool is in dynamic mode. The loss measured when the tool is switched on will take into account all sources of pressure loss. Since the proper performance of the tool is the goal, determining this loss of pressure will be the key to maintaining its performance.

TOPRING tools for measuring pressure help to identified and isolate the source of air losses by measuring air pressure between components in order to help fix the problem.



Product No 62.015

All-in-one tool ideal for checking pressure with a large pressure gauge for easy pressure reading

Included : UNIVERSAL coupler and 5 type of plugs



Product No 62.010

Compact tool with gauge

Included : UNIVERSAL coupler and 5 type of plugs

The sources of pressure loss

Low air pressure to the tool is due to four main causes:

1) **Inadequate air distribution system**
2) **Inadequate or poorly maintained accessories**
3) **Excessive leaks**
4) **Insufficient air tank and compressor capacity**

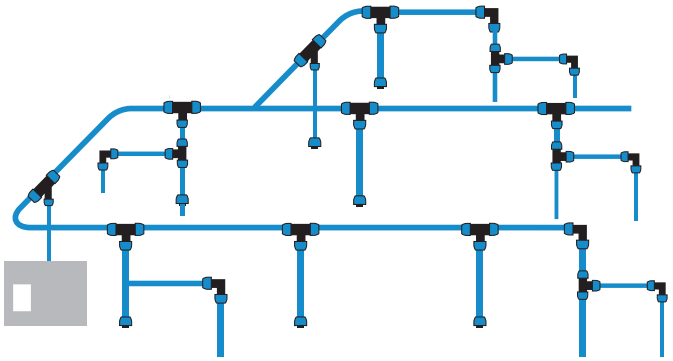
Any of these issues will contribute to pressure losses of the system.

The following pages provide a more detailed explanation of each cause and offer ways to reduce its impact.

INADEQUATE AIR DISTRIBUTION SYSTEM

Pipe diameter

A high percentage of pressure loss is due to the inappropriate diameter of the piping components. The longer the distance to be traveled, the larger the diameter of the tube, and the greater the volume of air. The ideal pipe diameter should be calculated according to the total volume of air flow requirements and the total distance to be covered; See the section on configuring an effective distribution system on page 71.



Network such as these will lead to excessive pressure loss

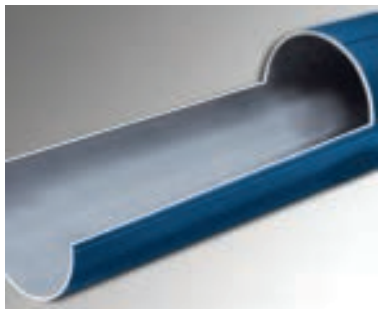
Piping material

Friction within the distribution system also contributes to the loss of pressure, determined by the piping material, the system design and restrictions as well as the condition of the components.

Tubes that are in bad condition or damaged can significantly increase pressure loss; There are now several types of pipes that can improve the airflow compared to traditional materials (steel) that will eliminate deterioration caused by corrosion.



Traditional pipes rust and accumulate contaminants

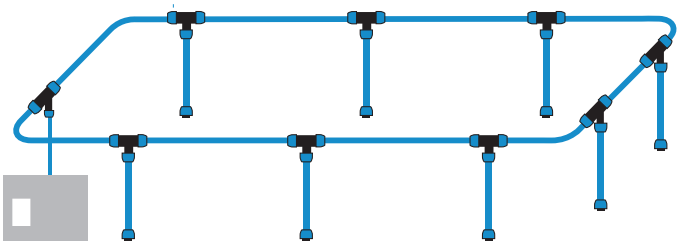


TOPRING pipes are resistant to corrosion and do not deteriorate

System Design

The design of the system also contributes to loss of pressure; Installing a closed loop system, such as those proposed in the section on configuring an effective system on page 171, will increase airflow while reducing pressure loss.

Using fittings, elbows and "T" fittings will also create restrictions that will cause pressure losses; The impact of these can be analyzed by adding an "equivalent length" of pipes to the total distance covered by the network.



Closed loop networks are ideal

INADEQUATELY MAINTAINED ACCESSORIES

Flexible hoses

The most common pressure losses are caused by hoses that are too long or with the wrong diameter. The longer the hose, the greater the friction. For this reason, small diameter hoses limit flow.

Choosing a hose with a diameter suitable for the required distance and flow will limit the pressure loss at the tool. Moreover, the different hose materials offer variable airflow and different resistance to wear and tear.

SUPPLY PRESSURE (dP = 10 PSIG)

SCFM \ FEET	15'	25'	35'	50'	75'	100'	150'	200'
2	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
5	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"	3/8"	3/8"
10	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
15	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"
20	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"	1/2"
25	3/8"	3/8"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"
30	3/8"	1/2"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"
35	3/8"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"
40	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"
45	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"
50	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"
55	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
60	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
65	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"
70	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"
75	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"
80	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"
85	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"
90	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"
95	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"
100	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"
105	3/4"	3/4"	3/4"	3/4"	1"	1"	1"	1"
110	3/4"	3/4"	3/4"	3/4"	1"	1"	1"	1"
115	3/4"	3/4"	3/4"	3/4"	1"	1"	1"	1"
120	3/4"	3/4"	3/4"	3/4"	1"	1"	1"	1"
125	3/4"	3/4"	3/4"	1"	1"	1"	1"	1"
130	3/4"	3/4"	3/4"	1"	1"	1"	1"	1"
135	3/4"	3/4"	3/4"	1"	1"	1"	1"	< 1"
140	3/4"	3/4"	3/4"	1"	1"	1"	1"	< 1"
145	3/4"	3/4"	3/4"	1"	1"	1"	1"	< 1"
150	3/4"	3/4"	1"	1"	1"	1"	1"	< 1"

Quick couplers

Another source of pressure loss comes from the restrictions caused by the quick couplers. Different couplers and plugs offer varying flow capacities; Although the most commonly used actually provide insufficient airflow for the majority of air tools, they are still being used.

By changing for high flow, low pressure-loss couplers, tool performance will increase and the pressure drop will be limited.



S31 QUIKSILVER
80 SCFM



S31 TOPQUIK
60 SCFM

S20 • 1/4 INDUSTRIAL S23 • ARO 210 S24 • 1/4 TRUFLATE S26 • LINCOLN		5.5 mm 24-37 SCFM
S21 • 3/8 INDUSTRIAL S25 • 3/8 TRUFLATE		7 mm 60-70 SCFM
S31 • ULTRAFLO		7.8 mm 50-80 SCFM
S27 • NITTO		7.8 mm 50-78 SCFM

Filters

The filter is one of the most neglected sources of pressure drops.

When new, the filters offer enough flow, but if they are not well maintained, they become saturated, causing additional pressure drops.

A simple maintenance program that provides regular change of the filter elements (at least once a year) will be sufficient to provide proper pressure at the tool's connection point.



Periodic replacement of the filter element and drain provides:

- **Optimal performance**
- **Continuous compressed air quality**
- **Lower operating costs**
- **Constant protection of downstream equipement**
- **Peace of mind**

EXCESSIVE LEAKAGE

Compressed air is a high-quality energy transmission agent, so it must be treated accordingly. Unfortunately, much of the compressed air produced is lost before being used due to leakage. An acceptable target value for the overall system leakage is 10%. A reduction in leakage below 10% is not feasible without a significant and unnecessary investment.

If the installation has a compressed air loss of 10% or more, measures need to be taken quickly. Consequences of system leakage are:

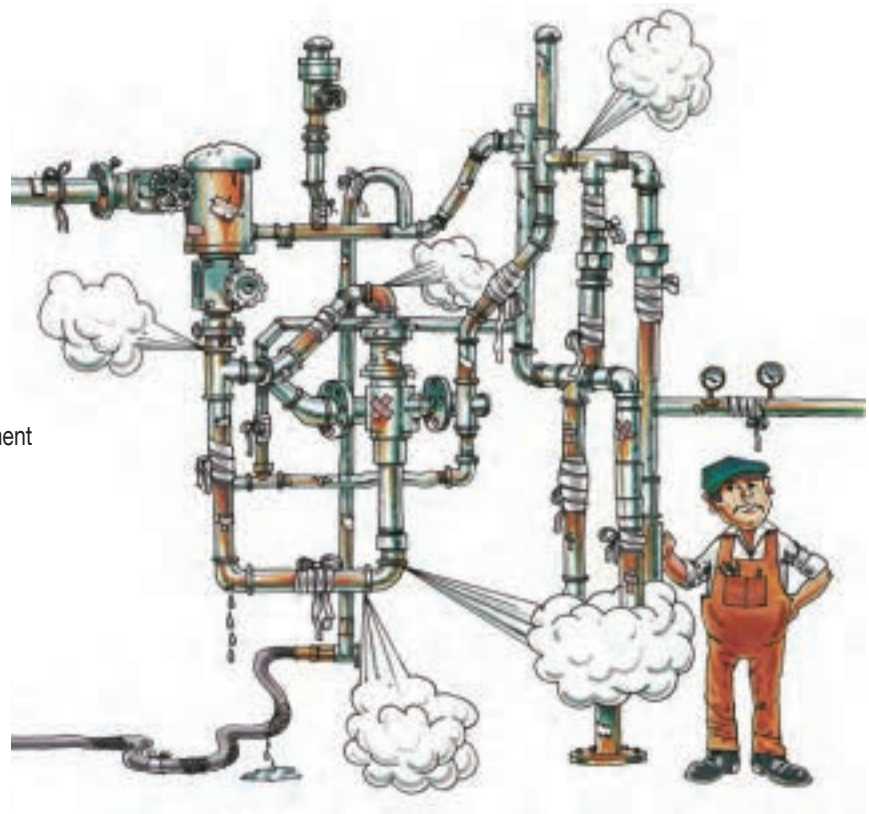
- Increased operating costs; The operating time of the compressors increases; The frequency of maintenance interventions is increased.
- At the time of their replacement, the compressors are often increased in size and capacity resulting in unnecessary investments

Verifications of compressed air systems indicate that the average plant loses 20% or more of the compressor capacity due to leaks. Leakage rates that exceed 50% of consumption are common. In common use, a pressure increase of 2 PSI will require 1% more energy from the compressor; Each PSI lost due to leakage is therefore very costly.

Given the cost of energy, these losses are very expensive. Since air leakage is not dangerous, it is often tolerated. In addition, leaks usually appear through a multitude of small openings, none of which are important enough to attract attention; Although each leak is minor, their accumulation is serious. With compressed air costs around $ 0.25 / 1000 cfm ($ 0.08 / KWH) an average plant can potentially save large sums of money simply by establishing a detection and repair leak program.

The leaks can come from many different places, but the most frequent problems are the following:

- Condensate drain valves left open
- Shut-off valves left open
- Presence of leaks at pipe joints
- Presence of leaks in pipes and quick couplers
- Presence of pressure regulator leaks
- Permanent opening of cooling nozzles
- Continuous operation of compressed air equipment



Leaks can be substantially eliminated simply by improving these few elements. Leaks are not only a direct source of energy loss; They also contribute indirectly to operating costs.

As the leaks increase, the pressure decreases, the air tools are not operate properly and the performance is affected.

ESTIMATED ANNUAL COST ($/AN) OF AIR LEAKAGE

This table is for illustrative purposes only. The calculations are based on 8760 hours of operations, with a 100% effective compressor.

N.B. A 3/8" hole is equivalent to 144 holes of 1/32".

Opening totalling (inch)	PRESSURE			
	90 PSIG	100 PSIG	120 PSIG	150 PSIG
1/64	$ 46	$ 51	$ 60	$ 73
1/32	$ 185	$ 203	$ 239	$ 292
1/16	$ 742	$ 814	$ 955	$ 1 170
1/8	$ 2 970	$ 3 260	$ 3 820	$ 4 670
3/16	$ 6 680	$ 7 320	$ 8 600	$ 10 500
1/4	$ 11 900	$ 13 000	$ 15 300	$ 18 700
3/8	$ 26 700	$ 29 200	$ 34 300	$ 42 000
1/2	$ 47 500	$ 52 000	$ 61 200	$ 74 800

EXCESSIVE LEAKAGE (CONT'D)

Measures to take to reduce leakage

Leak reduction can be done either directly or indirectly. With direct measures, the number of leaks is reduced. With indirect measures, the quantity and size of the leaks remain unchanged but the "leakage time" is reduced.

Direct measures

The most common location for leaks are at the connections. Whether it is clamps, crimped connections or hose assemblies, tightening the connections will reduce leaks.

Indirect measures

In many cases, leaks cannot be eliminated right away. This is especially true when the equipment has to be stopped in order to make repairs therefore repairs are often postponed. Since the leaks cannot be repaired right away, indirect measures need to be considered.

One of the most effective measures is the reduction in "time of leakage". This is achieved by shutting down the compressed air system when continuous operation is not required. Like nights and weekends as an example.

The **AIR-SAVER®** is a programmable valve, equipped with a timer which can be programmed to open automatically at the beginning of the shift and automatically close at the end, saving energy. It can be installed downstream of the air treatment (at the outlet from the air tank) (see page 67 for more details).



Product No 09.690

If the system cannot be interrupted in its entirety, sectors of the system can be isolated from the network. Leaks in the isolated areas then have a shorter "operating time" and a lower leakage rate. Finally, the operating pressure of the system can be lowered resulting in lower leakage levels.

INSUFFICIENT AIR TANK AND COMPRESSOR CAPACITY

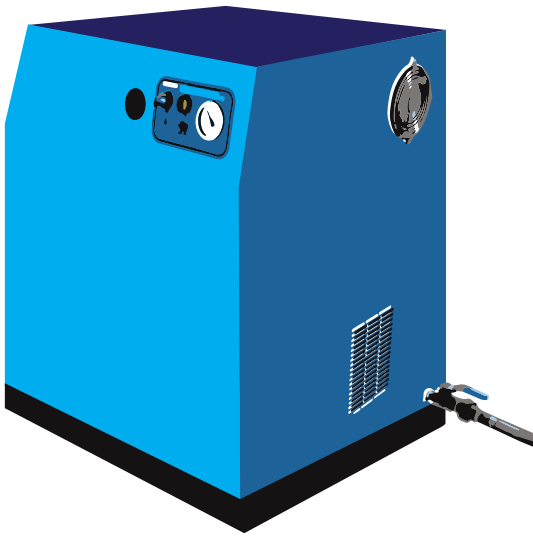
The loss of pressure in a compressed air network results from an imbalance between the volume of air required (consumption) and the volume of air available (capacity). Thus, when the total consumption of the tools exceeds the capacity of the compressor to produce the required pressure, the pressure of the system suffers the pressure drops. Increasing the storage capacity can help the situation, since the air tank will provide more cubic feet of air. This will extend the period of time before the main pressure drops below the minimum operating pressure.

To check for imbalance, the total consumption of all tools and equipment (in SCFM) that would potentially work simultaneously should be added together. The aggregate is then compared with the total capacity of the compressor (typically, the compressors produce about 4 SCFM by CV by producing air at 100 PSIG).

There are two methods of measuring total consumption: **CONTINUOUS FLOW** and **AVERAGE FLOW.**

CONTINUOUS FLOW represents the amount of air that the tools consume for normal operation without load. It is used to calibrate air lines and fittings inside the system.

The **AVERAGE FLOW** rate is fixed by multiplying the SCFM continuously by a utilization factor. This factor of use, fixed in industry, corresponds to the operating time of a tool (run time). Impact wrenches have a shorter run time and thus lower utilization factors and lower average flow rates. Tools that have a longer run time (eg sanders) have a higher utilization factor, and hence higher average airflow requirements. The average airflow is used only to calibrate the total power consumption of the tools with the capacity of the compressor in a system.



CONCLUSION

The solution to the use of a high-performance compressed air system resides in the production, storage and distribution of a sufficient volume of compressed air equal to or greater than the total consumption requirements of tools and applications.

Failure to produce, store and dispense adequate levels of compressed air will prevent the system from replacing the air consumed by the tools and equipment, resulting in excessive pressure drops and poor tool and equipment performance.

This will also result in additional production, maintenance and replacement costs. More importantly; this will have an impact on user performance and quality of production, while users will try to compensate for the poor performance of the system. This may be the most costly element, but it usually overlooked.

The problem of excessive pressure loss can be avoided by planning and configuring a good quality piping system with the appropriate dimensions from the very begining. There are several piping systems options that improve the airflow compared to traditional materials while eliminating deterioration due to corrosion. Systems with proper dimensions that reduce pressure drop and maximize airflow will pay off immediately.

The choice of accessories for compressed air is important to avoid excessive pressure loss.

Appropriate selection of quick couplers, valves, connections, filter units, flexible hoses and other components, taking into account tool consumption (SCFM), must be carefully selected. Installing a component with an insufficient flow rate (SCFM) for the work to be performed will inevitably cause a large loss of pressure which will reduce the efficiency of the tool..

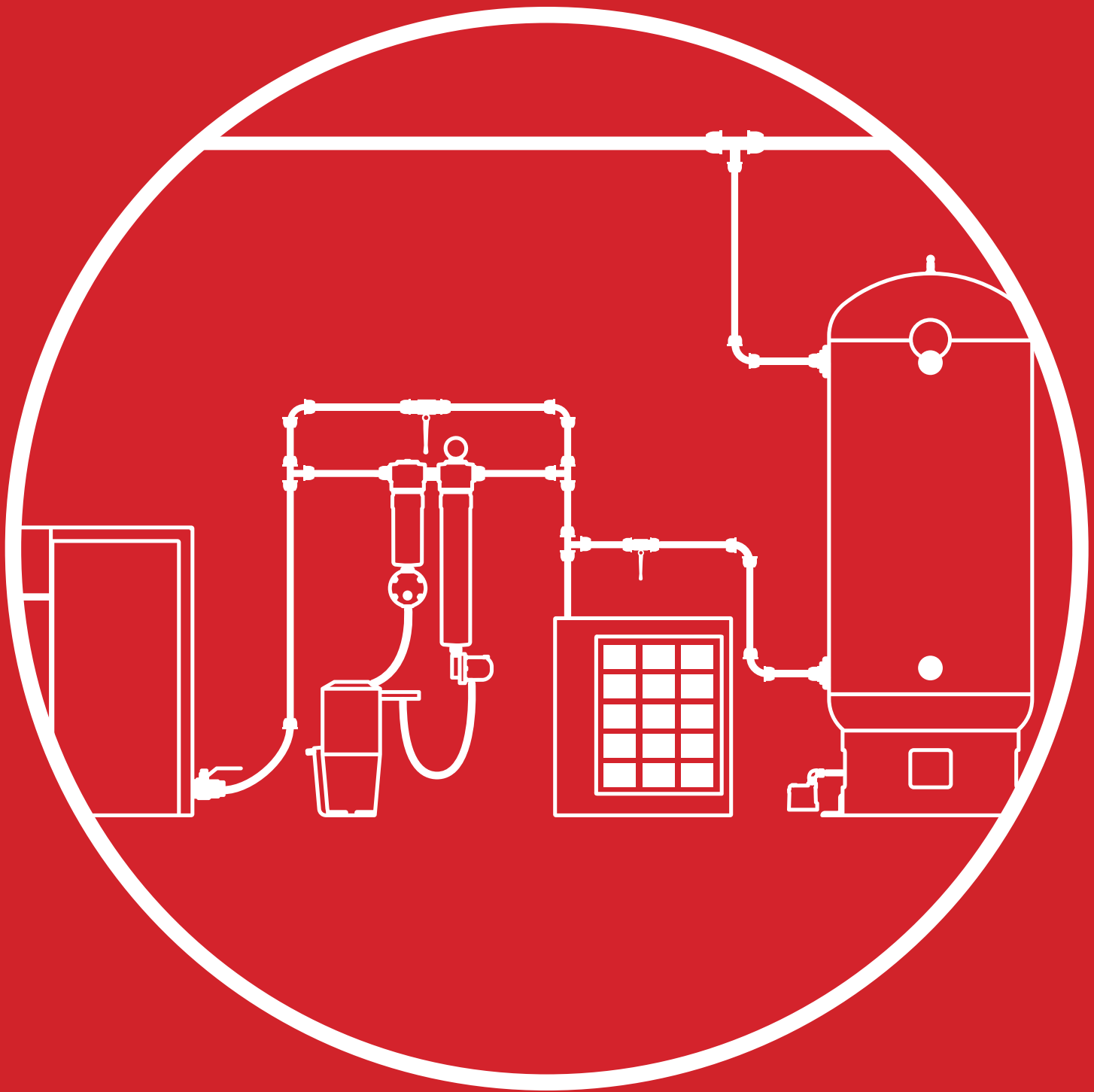
For example:

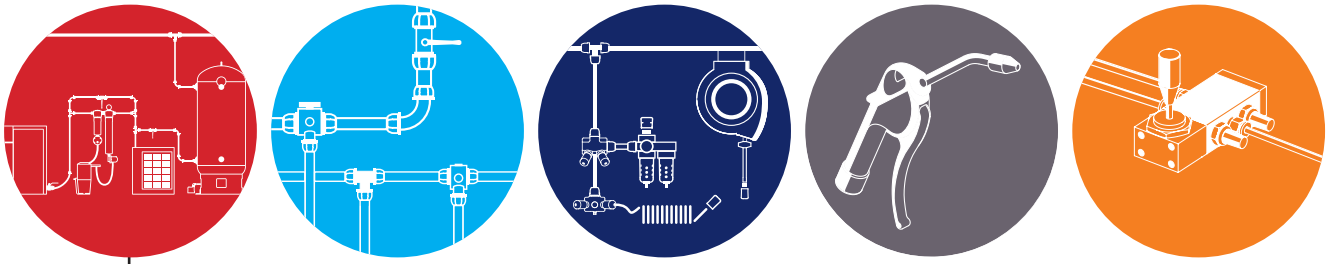
- Quick couplers used provide insufficient flow for the majority of rotary air tools; It is therefore necessary to choose one which will ensure a sufficient flow.
- The various materials used for flexible hoses have different qualities of flow and wear resistance.
- Hoses with dimensions based on tool consumption and length maintain a minimum pressure drop.
- Saturated filter elements cause pressure drops; Preventive maintenance programs where they are replaced before saturation can save several pressure drops.

A leak detection and repair program can also be an economical way to reduce costly pressure losses.

Replacing defective quick couplers and leaking hoses, tightening fittings at required locations, maintaining filter elements, and using a suitable sealant are examples of actions that will eliminate many of the problems at very little cost.

Finally, choosing a compressor not only based on current but also future consumption needs is always a winning decision. By calculating the total airflow utilization and the future requirements of a potential expansion.





Group 1
Compressed air treatment

S56 • Water Separators 16
S53 • Compressed Air Filters 20
S49 • Refrigerant Air Dryers 32
S59 • Condensate Drains 36
S57 • Water / Oil Separators 54
S09 • Safety Check valves, anti-vibration hoses and programmable ball valves 60

S56
WATER SEPARATORS



COMPRESSED AIR TREATMENT: OPTIMUM QUALITY OPTIONS

S56
AIRFLO
WATER SEPARATORS

Compressed air is normally saturated with moisture in the form of water vapor as well as aerosols, in addition to all of the other contaminants in the air. This water needs to be removed to prevent problems at the point of use.

AIRFLO water separators use centrifugal separation to remove up to 99% of the water aerosol in compressed air.

Working in conjunction with other compressed air treatment products like filters, after-coolers and dryers, the **AIRFLO** water separators are a cost effective solution to ensure that bulk water generated in the compressed air is properly separated and discharged from the system.

CRN CANADIAN REGISTRATION NUMBER

CE

Features and benefits

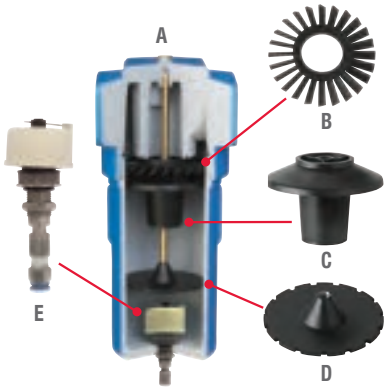
- Ideal as a first step treatment betweenthe compressor and air receiver tank
- Cost-effective way of ensuring that bulk water is removed from compressed air
- Uses centrifugal force to remove up to 99% of bulk water
- Simple and easy to install
- Requires no electricity and almost no maintenance
- Efficient automatic drain
- Powder coated





How it works?

Centrifugal force pushes liquid water out of compressed air. The spinning causes liquid to concentrate on the separator walls and, when the condensate gains enough mass, it falls to the bottom of the separator bowl where it is flushed out of the system by the automatic drain.



A) **Water separators: Typically are installed downstream of after-coolers, air receiver tanks, refrigerated dryers and at a strategic point in pipe works installation**

B) **Vortex Generator - Vane : Aerodynamically designed vortex generator vanes for greater efficiency**

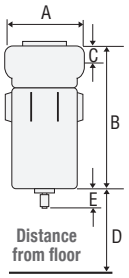
C) **Vortex Generator - Cone: Conical profile for enhanced vortex effect**

D) **Cyclone Arrestor: Special profile designed to improve separator efficiency and prevent re-entrainment of separated water**

E) **Automatic Condensate Drain: Efficiently discharge accumulated water from the system**

S56
AIRFLO
WATER SEPARATORS





Water separators

Product No	Port (F) NPT	Flow SCFM	Weight kg	Dimensions (mm)				
				A	B	C	D	E
56.001	1/4	32	1.04	87	179	28	60	44
56.003	3/8	32	1.13	87	179	28	60	44
56.005	3/8	88	1.09	87	179	28	60	44
56.007	1/2	32	1.18	87	179	28	60	44
56.010*	1/2	88	1.09	86	185	24	90	44
56.020*	3/4	144	1.41	86	256	24	90	44
56.023*	3/4	232	3.99	130	285	43	135	44
56.030*	1	232	3.81	130	285	43	135	44
56.040*	1-1/2	373	4.22	130	385	43	235	44
56.050*	1-1/2	488	4.81	130	485	43	335	44
56.060*	1-1/2	600	6.21	130	685	43	525	44

* CRN approved

Applications

For applications requiring primary reduction of moisture in compressed air

Materials

Housing: Chromatised aluminium

Vortex Generator and Cyclone Arrestor : Polypropylene

Specifications

Maximum Working Pressure: 232 PSI

Working Temperature: 1.5 to 60 °C

Nominal Pressure Drop: 0.45 PSI



56.130

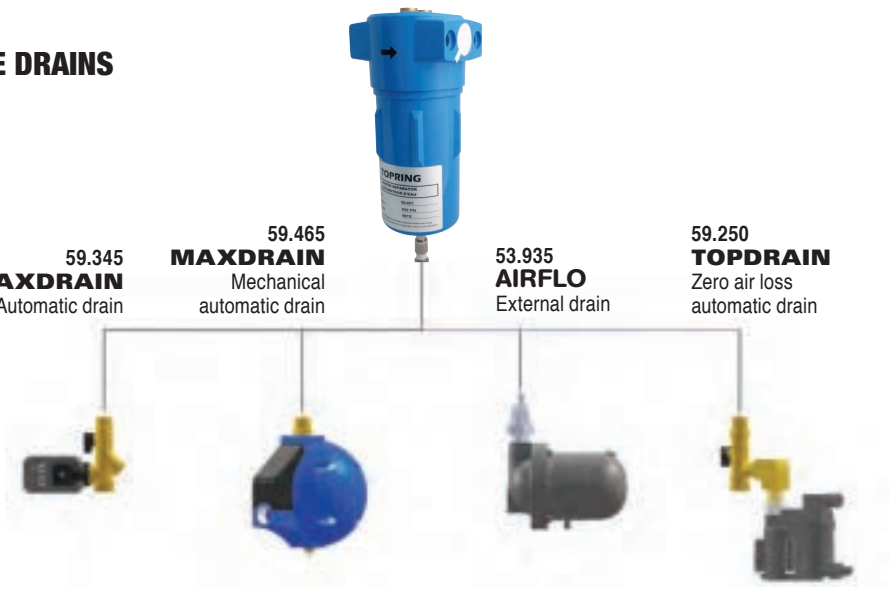


53.900 - 53.905

Accessories and spare parts

Product No	Description
56.130	Standard internal automatic drain
53.900	Mounting bracket for models 56.001 to 56.023
53.905	Mounting bracket for models 56.030 to 56.060

OPTIONAL :
EXTERNAL CONDENSATE DRAINS



Clean and dry compressed air!



Compressed air is a power source that is widely used throughout industry.



However, compressed air contains water, dirt, wear particles and degraded lubricating oil, which all mix together to form an unwanted condensate.



This condensate rapidly wears tools and pneumatic machinery, blocks valves and orifices and also corrodes piping.



This results in high maintenance costs and product spoilage which can bring the production process to an extremely expensive standstill.

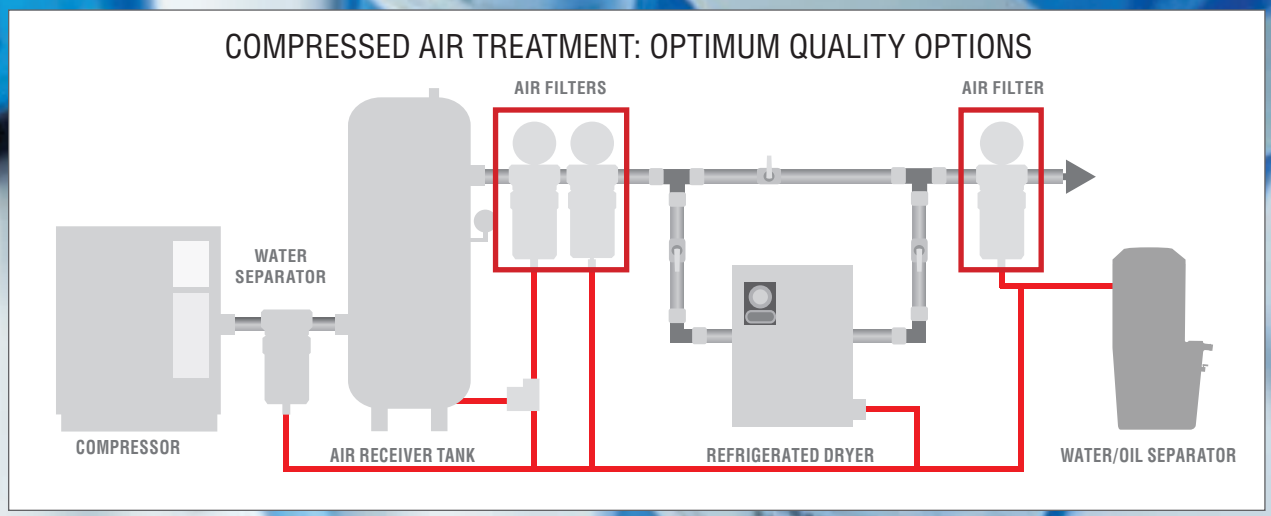
TOPRING offers an extensive range of condensate management solutions:



S49 ● Refrigerant Air Dryers - page 32
S53 ● Compressed Air Filters - page 20
S54 ● Desiccant Air Dryers - page 234
S56 ● Water Separators - page 16
S57 ● Water/Oil Separators - page 54
S59 ● Condensate Drains - page 36



S53
COMPRESSED AIR FILTERS



S53

COMPRESSED AIR TREATMENT: A NECESSITY



Compressed air contains millions of contaminated particles.
These particles can be harmful to any compressed air system, especially at high concentrations and at high speeds. With untreated ambiant air being the most widely used raw material used by compressors, compressed air often contains water vapor and different contaminants, althought measured in microns these can damage any compressed air system.

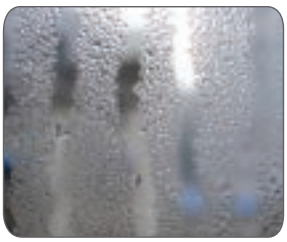
Proper filtration of a compressed air system allows the removal of particules, contaminants and water vapors. A necessary operation in order to ensure the elimination of downstream corrosion, reduce wear and tear and increase the service life of pneumatic tools as well as the entire network. Many compressed air systems and tools require high-quality air to ensure good performance and extend their service life.

Most of the contaminants introduced into the compressed air system come from the atmospheric air sucked into the network.
The most common contaminant is water which accounts for 99.9% of the total liquid contaminants found in a compressed air system. A proper filtration system eliminates contaminants including particules, oil, water aerosols).This is a key element for an efficient operation. Regardless of the type of compressor installed, the same level of filtration is required.

10 major contaminants found in a compressed air system



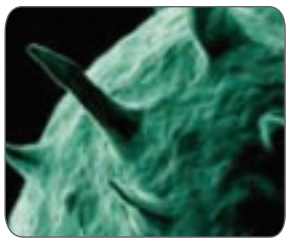
Atmospheric dirts
Rust
Pipe scale



Water vapors
Condensed water
Water aerosols



Liquid oils
Oil aerosols
Oil vapors



Micro-organisms

Most of the contaminants introduced into the compressed air system come from the atmospheric air sucked into the network.
The most common contaminant is water which accounts for 99.9% of the total liquid contaminants found in a compressed air system.

A proper filtration system eliminates contaminants including particules, oil, water aerosols). This is a key element for an efficient operation.
Regardless of the type of compressor installed, the same level of filtration is required.

S53
AIRFLO
COMPRESSED AIR FILTERS

COMPRESSED AIR QUALITY AND FILTRATION SPECIFICATIONS

The quality of the compressed air required in a system is based on each application's requirements (volume of contaminants permitted for each cubic foot of compressed air).

The range of air treatment products offered by **TOPRING** allows users to ensure the air quality required for each application keeping operating costs to a minimum and protecting the investment.



Level 1
Compressed air without specification

ISO 8573.1
Class 5.6.5



Level 2
General shop air: air tools (sand blasting, grinding)

ISO 8573.1
Class 3.6.4



Level 3
Air instrument, spray painting, powder coating, packing machines

ISO 8573.1
Class 1.5.3.



Level 4
Food industry pharmaceutical and chemical industries, laboratories

ISO 8573.1
Class 1.4.1



Level 5
Food industry (breweries, dairies), pharmaceutical and chemical industries, laboratories

ISO 8573.1
Class 1.1.1

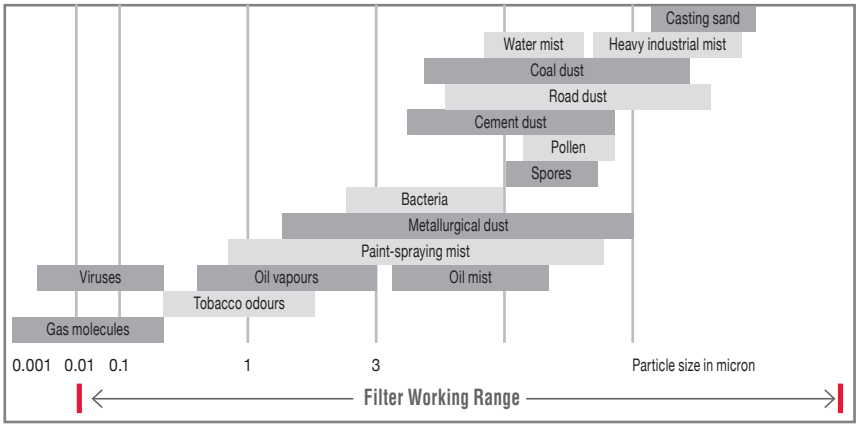


Air treatment products such as compressed air filters and water separators installed at the compressor outlet maximize the quality of the compressed air.

This helps prevent accumulation of impurities, water and oil at the point of application.

The ISO 8573.1 international standard for compressed air quality provides a simple system of classification for the main three contaminants found in compressed air: dirt, water and oil.

NATURE AND EXTENT OF AIR IMPURITIES



Class ISO 8573.1 (2010)	Solid particles				Water		Oil
	Maximum no. of particles per m³			Concentration	Vapor	Liquid	Total Oil(1)
	0.1 - 0.5 micron	0.5 – 1 micron	1 -5 micron	mg/m³	Pressure dew point	g/m³	mg/m³
0	As specified by the equipment user or supplier						
1	≤ 20 000	≤ 400	≤ 10	-	≤ -94°F	-	≤ 0.01
2	≤ 400 000	≤ 6 000	≤ 100	-	≤ -40°F	-	≤ 0.1
3	-	≤ 90 000	≤ 1 000	-	≤ -4°F	-	≤ 1
4	-	-	≤ 10 000	-	≤ 37°F	-	≤ 5
5	-	-	≤ 100 000	-	≤ 45°F	-	-
6	-	-	-	≤ 5	≤ 50°F	-	-
7	-	-	-	5 - 10	-	≤ 0.5	-
8	-	-	-	-	-	0.5 - 10	-
9	-	-	-	-	-	5 - 10	-

(1) All forms of oil including liquids, aerosols and vapor

S53
AIRFLO
COMPRESSED AIR FILTERS

CE CRN CANADIAN REGISTRATION NUMBER

TOPRING offers a complete range of filters and filter elements to meet the different levels of air purity required for different applications. Regardless of the quality of compressed air required, **TOPRING AIRFLO** filters remove solid particles, oil and water vapors ensuring a high efficiency system for clean and virtually oil-free compressed air.

Features and benefits

- Four different grades of filtration available
- Epoxy powder coated (interior and exterior) for added durability and corrosion resistance
- Chromatised protective layer between paint and aluminium for better paint adhesion and better protection against corrosion and harsh substances
- Tie-rod insert allows easy installation and secures elements in the housing
- Differential pressure indicator included with the 1/2 to 3 NPT models
- Automatic drain included

Material

Housing: Aluminium

Specifications

Maximum Working Pressure: 232 PSI
Working Temperature: 1 to 60 °C



53.611



53.641

FILTRATION GRADES

Grade M3

- For coarse pre-filtration
- Particle removal down to 3 micron

Grade M1

- For general filtration
- Particle removal down to 1 micron
- Maximum residual oil content (aerosol): 0.1 mg/m³ at 20°C

Grade M01

- For high performance filtration
- Particle removal down to 0.01 mg/m³ at 20°C
- Maximum residual oil content (aerosol): 0.01 mg/m³ at 20°C

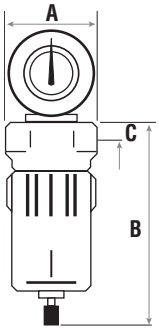
Grade AC

- Activated carbon filter for odour removed (applicable for oil lubricated compressors)
- For removal of oil content down to 0.003 mg/m³ at 20°C in conjunction with filter grade M01

S53
AIRFLO
COMPRESSED AIR FILTERS

Port (F) NPT	Airflow SCFM	Filtration				Dimensions (mm)		
		M3	M1	M01	AC	A	B	C
1/4	29	53.613*	53.611*	53.612*	53.614*	86	224	64
3/8	41	53.623*	53.621*	53.622*	53.624*	86	224	64
1/2	47	53.633	53.631	53.632	53.634	86	224	84
3/4	70	53.643	53.641	53.642	53.644	86	305	115
1	116	53.663	53.661	53.662	53.664	130	312	115
1-1/2	318	53.673	53.671	53.672	53.674	130	523	115
1-1/2	470	53.683	53.681	53.682	53.684	130	784	156
2	616	53.703	53.701	53.702	53.704	163	831	156
2-1/2	923	53.713	53.711	53.712	53.714	163	1082	156
3	1324	53.723	53.721	53.722	53.724	251	1054	181

*** Without differential pressure indicator / not CRN certified**

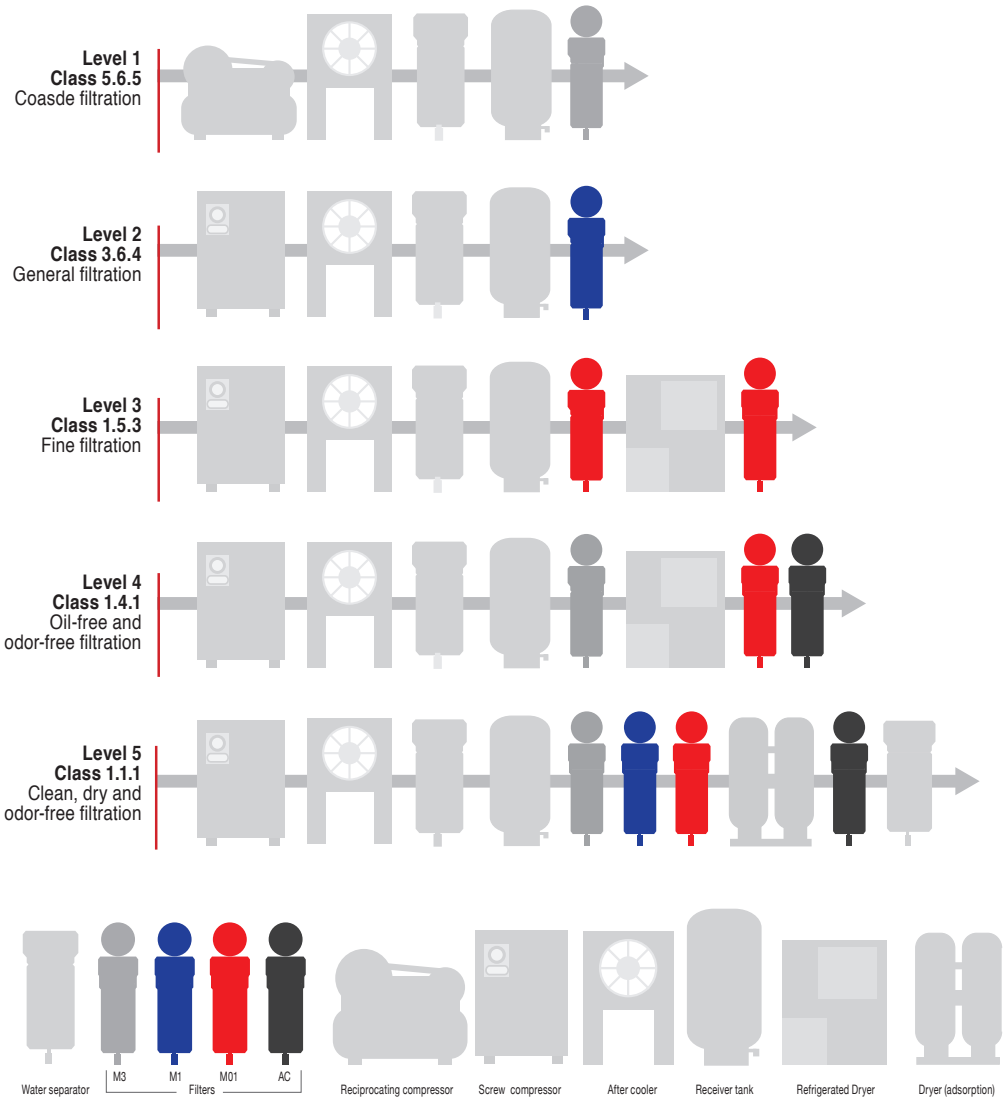




53.611 **53.641**

TYPICAL FILTRATION CONFIGURATION FOR DIFFERENT APPLICATIONS

Specified air quality (purity) in accordance with ISO 8573.1, standard for compressed air quality.
Refrigerated dryer air treatment at 3 °C.



S53
AIRFLO
FILTER ELEMENTS

Features and benefits

- More effective filtration area
- Higher capacity for holding dirt
- Minimizes pressure drops
- Allows a higher airflow



FILTRATION	M3	M1	M01	AC
Description	General protection	Oil removal	Dust filtration	Oil vapor and odor removal
Particle (µm)	3	1	0.01	--
Oil (mg/m³) at 20 °C	---	0.1	0.01	0.003

REPLACEMENT FILTER ELEMENTS

Port (F) NPT	Airflow SCFM	FILTRATION			
		M3	M1	M01	AC
1/4	29	53.813	53.811	53.812	53.814
3/8	41	53.823	53.821	53.822	53.824
1/2	47	53.833	53.831	53.832	53.834
3/4	70	53.843	53.841	53.842	53.844
1	116	53.863	53.861	53.862	53.864
1-1/2	318	53.873	53.871	53.872	53.874
1-1/2	470	53.883	53.881	53.882	53.884
2	616	53.903	53.901	53.902	53.904
2-1/2	923	53.913	53.911	53.912	53.910
3	1324	53.923	53.921	53.922	53.924

The pleated filter offers 3 to 5 times more filtration surface area when compared to a non pleated filters.

1. Stainless steel sleeve for stronger support
2. Hydrophobic foam socks for better drainage and coalescing effect
3. Robust and non-corrosive aluminium end caps
4. Color coded standard element for easy identification



S53
AIRFLO
FILTER ACCESSORIES

DIFFERENTIAL PRESSURE INDICATOR

Used to indicate premature high differential pressure. Indicator can be retrofitted to existing housings without depressurizing the system



Product No
53.920

MAINTENANCE KIT

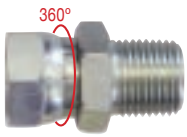


Product No
53.929

SWIVEL FITTING

Allows quick and simple connection of multiple filter housings. Nickel plated steel

SWIVEL FITTING



Product No	Thread (M/F) NPT
41.704	1/2
41.705	3/4
41.706	1
41.707	1-1/2
41.708	2
41.709	2-1/2

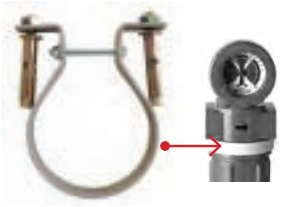
SWIVEL FITTINGS KITS



Product No	Thread (M) NPT
41.772	1/4
41.773	3/8

FILTER MOUNTING BRACKETS

Mounting bracket provides additional support to filter



Product No	For model
53.900	53.611 to 53.644
53.905	53.661 to 53.684

ADAPTOR FOR AIRFLO AUTOMATIC DRAIN

For the connection to an external drain to replace the internal drain



Product No
53.933

INTERNAL AUTOMATIC DRAIN



Product No	For model
53.930	53.611 to 53.684

EXTERNAL AUTOMATIC DRAIN



Product No	For model
53.935	53.701 to 53.724

OPTIONAL:
EXTERNAL CONDENSATE DRAINS



59.345 MAXDRAIN
Automatic drain

59.465 MAXDRAIN
Mechanical automatic drain

53.935 AIRFLO
External drain

59.250 TOPDRAIN
Zero air loss automatic drain

S53
TOPDRY
COMPRESSED AIR FILTERS

COMPRESSED AIR QUALITY AND FILTRATION SPECIFICATIONS

The quality of the compressed air required in a system is based on the type of application (volume of contaminants permitted for each cubic foot of compressed air).

TOPRING offers a complete range of air treatment products allowing users to achieve the air quality required for each application keeping operating costs to a minimum and protecting the investment.



Level 1
Compressed air without specification

ISO 8573.1
Class 3.6.5



Level 2
General shop air: air tools (sand blasting, grinding)

ISO 8573.1
Class 2.4.4



Level 3
Air instrument, spray painting, powder coating, packing machines

ISO 8573.1
Class 1.4.2



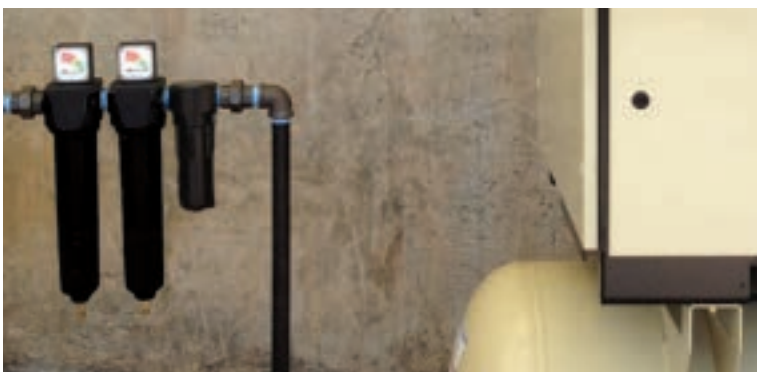
Level 4
Food industry pharmaceutical and chemical industries, laboratories

ISO 8573.1
Class 1.4.1



Level 5
Food industry (breweries, dairies), pharmaceutical and chemical industries, laboratories

ISO 8573.1
Class 1.1.1



Air treatment products such as filters and water separators installed at the compressor outlet maximize the quality of the compressed air.

This prevents the accumulation of impurities, water and oil at the point of application.

The ISO 8573.1 international standard for compressed air quality provides a simple classification method for the three main contaminants found in compressed air: dirt, water and oil.

S53
TOPDRY
COMPRESSED AIR FILTERS

CRN CANADIAN REGISTRATION NUMBER

TOPRING offers a complete range of filters and filter elements for higher filtration performance. Oils, water vapors and solid particles must be properly removed from the air of the compressed air system. Clean, dry, oil-free compressed air is essential to optimize compressor filtration, reduce pressure losses, increase efficiency levels and reduce energy costs.

Features and benefits

- Four grades of filtration available
- Reliable and efficient removal of liquid and solid contaminants
- Large condensate reservoir for bulk oil collection
- Advanced airflow design for optimum performance and reducing pressure drops
- External and internal powder coated surface for enhanced abrasion and corrosion resistance
- Compact, modular design for quick and easy installation
- No tie-rod insert minimizing maintenance needs
- Automatic drain with manual override for testing and depressurization



Applications

Food and beverage, chemical, laboratory, medical and natural gas applications

Suitable for use with all compressor oils including mineral and synthetic oil

Material

Housing: Aluminum die cast

Specifications

Maximum Working Pressure: 232 PSI
Working Temperature:
M5/M1/M01: 1 to 100°C • AC: 1 to 25°C

FILTRATION GRADES

Grade M5

- General purpose dust filtration
- Dry particle removal down to 5 microns

Grade M1

- High efficiency general purpose protection
- Particle removal down to 1 micron, including water and oil aerosols
- Maximum remaining oil aerosol down to 0.1 mg/m^3 to 20°C

Grade M01

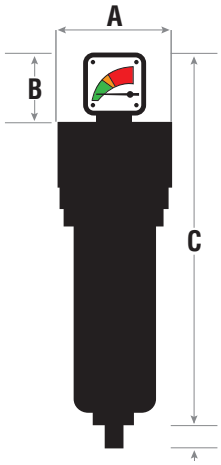
- High efficiency oil removal filtration
- Particle removal down to 0.01 micron, including water and oil aerosols
- Maximum remaining oil aerosol down to 0.01mg/m^3 to 20°C

Grade AC

- Activated carbon for oil vapor and odour removal
- Maximum remaining oil vapor down to 0.003mg/m3 to 20°C in conjunction with filter grade M01

S53
TOPDRY
COMPRESSED AIR FILTERS

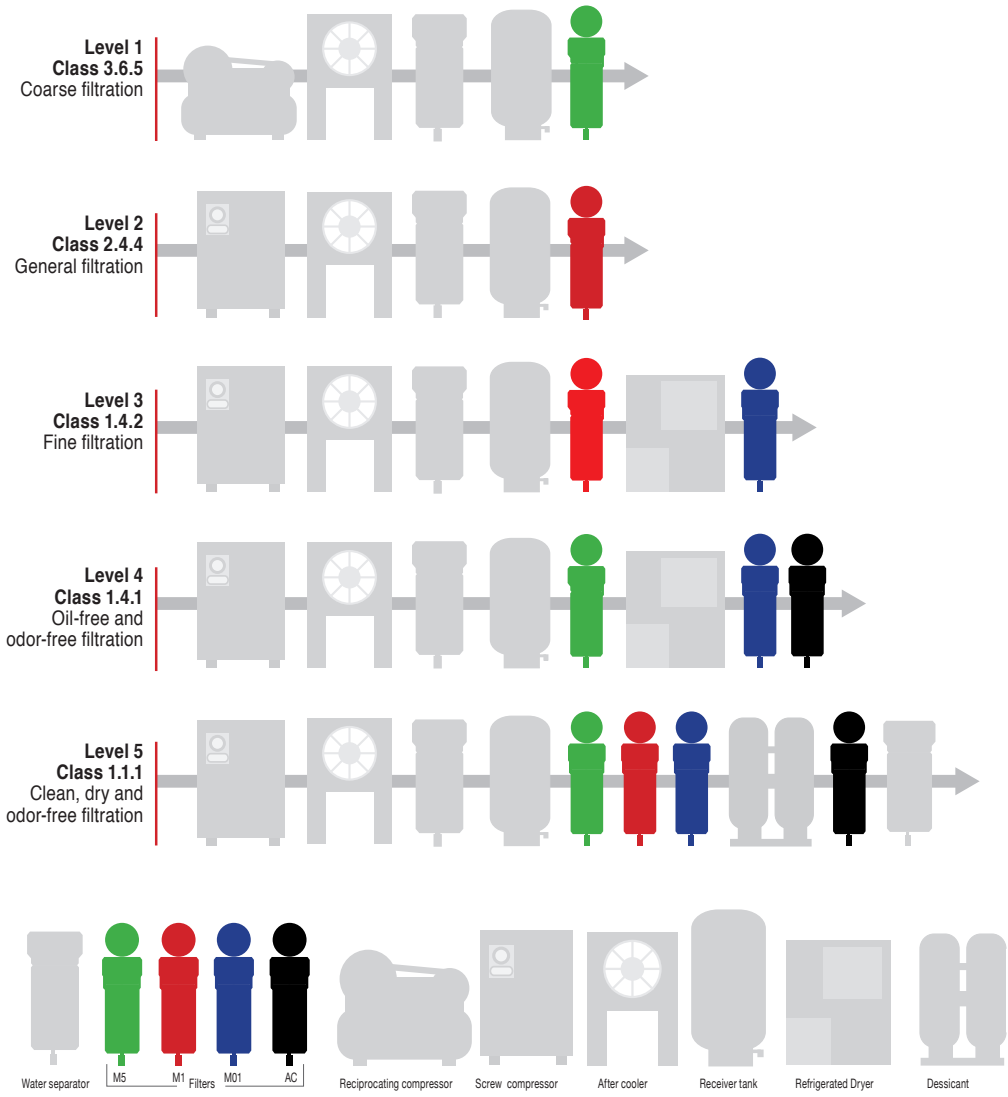
Port (F) NPT	Airflow SCFM	Filtration				Dimensions (mm)		
		M5	M1	M01	AC	A	B	C
1/4	15	53.203	53.201	53.202	53.204	50	18	151
1/2	30	53.208	53.206	53.207	53.209	70	25	191
1/2	50	53.213	53.211	53.212	53.214	70	25	231
1/2	70	53.218	53.216	53.217	53.219	100	35	276
3/4	85	53.223	53.221	53.222	53.224	100	35	276
1	135	53.228	53.226	53.227	53.229	100	35	398
1	175	53.233	53.231	53.232	53.234	100	35	398
1-1/2	290	53.238	53.236	53.237	53.239	121	42	460
1-1/2	325	53.243	53.241	53.242	53.244	121	42	460
2	450	53.248	53.246	53.247	53.249	146	52	482
2-1/2	850	53.253	53.251	53.252	53.254	210	66	595





TYPICAL FILTRATION CONFIGURATION FOR DIFFERENT APPLICATIONS

Specified air quality (purity) in accordance with ISO 8573.1, standard for compressed air quality.
Refrigerated dryer air treatment at 3 °C.



S53

TOPDRY
FILTER ELEMENTS

Features and benefits

- Color coded for easy and accurate identification of filtration level
- Easily accessible for parts replacement
- Deep filter. media provides low differential pressure for better energy efficiency and extended service life
- Ultrasonic welded seam increases strenght and durability
- Stainless steel support increases rigidity and corrosion resistance



Applications

Suitable for use with all compressor oils including mineral and synthetic oil

Materials

M5/M1/M01: Borosilicate glass microfiber
AC: Activated carbon

FILTRATION	M5	M1	M01	AC
Description	Dust filtration	General protection	Oil removal and dust filtra-tion	Oil vapor and odor removal
Particle (µm)	5	1	0.01	-
Oil (mg/m³) at 20 °C	5	0.1	0.01	0.003

Filtration level identification simplified with the color association



REPLACEMENT FILTER ELEMENTS

Port (F) NPT	Airflow SCFM	FILTRATION			
		M5	M1	M01	AC
1/4	15	53.503	53.501	53.502	53.504
1/2	30	53.508	53.506	53.507	53.509
1/2	50	53.513	53.511	53.512	53.514
3/4	90	53.518	53.516	53.517	53.519
1	90	53.518	53.516	53.517	53.519
1	135	53.523	53.521	53.522	53.524
1	175	53.528	53.526	53.527	53.529
1-1/2	325	53.533	53.531	53.532	53.534
2	450	53.538	53.536	53.537	53.539
2-1/2	1000	53.543	53.541	53.542	53.544

S53
TOPDRY
FILTER ACCESSORIES

WALL MOUNTING BRACKET



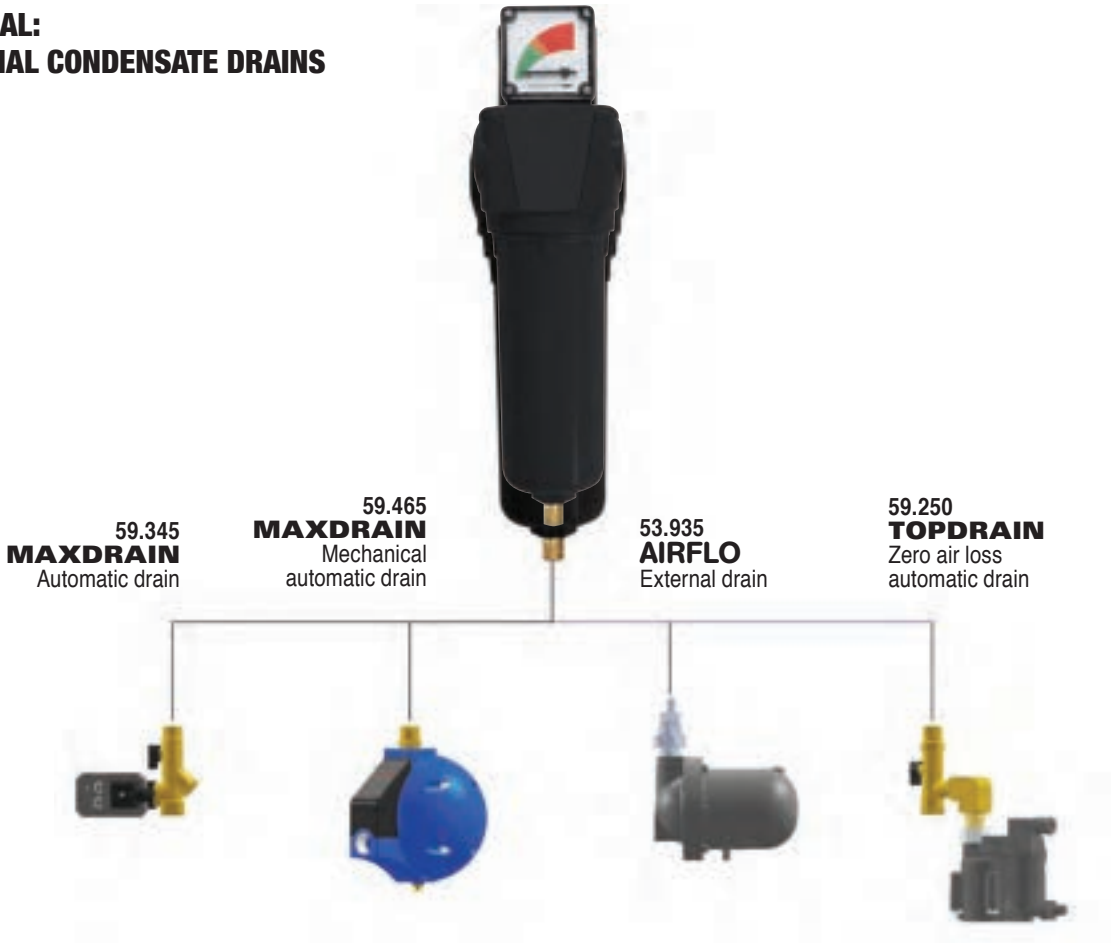
No Product	For filter model
53.950	53.201 to 53.204
53.951	53.206 to 53.214
53.952	53.216 to 53.234
53.953	53.236 to 53.244
53.954	53.246 to 53.249
53.955	53.251 to 53.254

FIXING BRACKET



No Product	For filter model
53.960	53.201 to 53.204
53.961	53.206 to 53.214
53.962	53.216 to 53.234
53.963	53.236 to 53.244
53.964	53.246 to 53.249
53.965	53.251 to 53.254

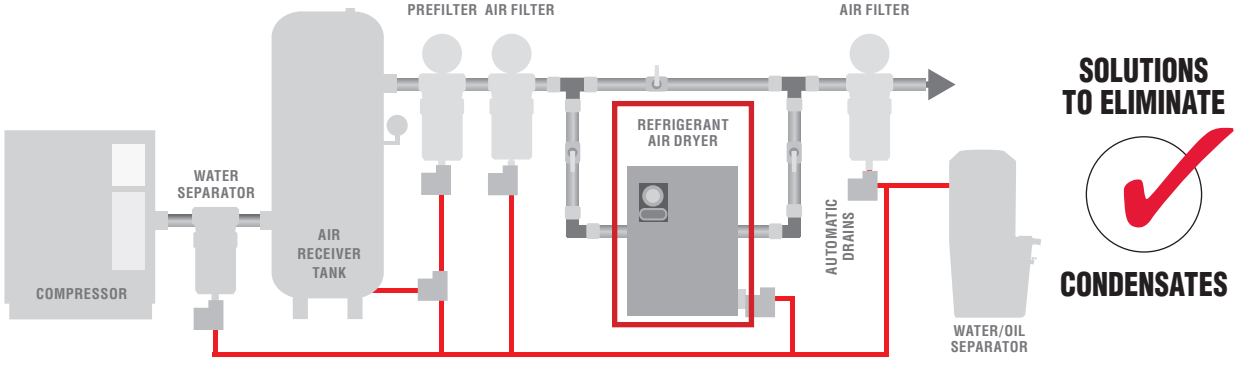
OPTIONAL:
EXTERNAL CONDENSATE DRAINS



S49
REFRIGERANT AIR DRYERS



COMPRESSED AIR TREATMENT: OPTIMUM COMPRESSED AIR QUALITY OPTIONS



S49

COMPRESSED AIR AND WATER

Compressed air is an efficient and reliable source of energy, which is used for many applications and processes in industry. However, compressed air presents some inherent problems which can cause problems if not treated properly.

The ambient air that is sucked in by the compressor contains a substantial amount of water vapor. The compression thus exerted increases the volume of water for a given volume of air. This process also increases the air temperature, which increases the ability of the air to retain water as vapors. While the compressed air, charged with moisture, circulates in the piping system, it cools the condensed water vapor which liquefies.

This water accumulates in the piping system and is likely to end up in the air tools and the equipment, causing considerable problems.

The impact of rust and corrosion in the system:

- Rust and corrosion of air tools and equipment
- Premature wear and enormous maintenance requirements for FRLs
- Lubricants carried away by water
- Sludge and sludge formation in combination with residual oil and other contaminants
- Moisture problems causing the presence of bacteria, mold growth, freezing, corrosion and deterioration of the product

Therefore, a compressed air system where water accumulates in excess will cause the following problems:

- Contaminated products or paints
- High rejections rates and downtime
- Increased maintenance and repairs
- Overall increased costs

Refrigerated air dryers are designed to prevent the occurrence of all these problems

Drying by refrigeration is the most efficient technology for drying compressed air. The compressed air is cooled, so that the water vapor in the air condenses inside the dryer and can be purged.and can be purged.



7 volumes of air at atmospheric pressure

Compressor + energy

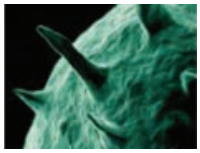
1 volume of untreated air at higher pressure

Atmospheric air, a mixture of gases, naturally contains solid particles such as dust, sand, salt, soot or other contaminants.

There are 4 main contaminants in the ambient air that are sucked in by the compressor:



Water vapors



Micro-organisms



Atmospheric dirt



Steam oil

A compressor will convert 7 volumes of air at atmospheric pressure into 1 volume of air at higher pressure (about 100 psig, or 7 bars).

The air compressed by the compressor is subjected to high temperatures.

The hot air and vapors that escape from the compressor are then introduced into the piping system and this can cause considerable problems.

When cooling, hot air and vapors condense (including contaminants and compressor oil). This creates a presence of contaminated water in the compressed air system.

S49
REFRIGERANT AIR DRYERS



General features and benefits

Gauge

The gauge located above the controller facilitates the establishment of a diagnosis in the event of troubleshooting because it allows:

- A rigorous, fast and easy check of Freon PSI following the shipment of the dryer
- Controller adjustment without the installation of additional gauges
- To establish a rapid diagnosis without having to open the panels



Microprocessor controller

Equipped with a 3-digit display microprocessor

- Allows to start and stop the compressor and automatic drain timer
- Provides quick and easy reading with the dew point indicator
- Allows to test high and low pressure



Automatic drain with a timer

- Reliable and robust
- Simplifies automatic drain operations with a timer
- Allows adjustable load demand
- Drain is on the back of the refrigerated dryer for easy access without removing panels



Stainless steel heat exchanger

- High capacity built-in moisture separator used for the removal of condensed liquids
- Corrosion resistant for severe and critical environments



S49
REFRIGERANT AIR DRYERS

TOPRING refrigerant air dryers quickly remove condensate to give almost perfectly dry compressed air. The benefits are notable: fewer system downtime, reduced costs and maintenance and an improved finished product.



Features and benefits

- Simple, reliable and efficient design
- High quality and durability
- User-friendly digital microprocessor displays dew point indicator, high and low pressure and drain operation
- Robust, reliable and fully adjustable timed solenoid drain
- Automatic expansion valve to ensure stable dew point performance even in changing ambient conditions
- Environmentally friendly refrigerant R134a and R407c known for their efficiency and safety
- Corrosion resistant powder coated aluminium panels

Applications

General manufacturing, air tools, paint shops, body shops, sand blasting operations, automotive, food and beverage, plastics and textiles and chemical industries

Specifications

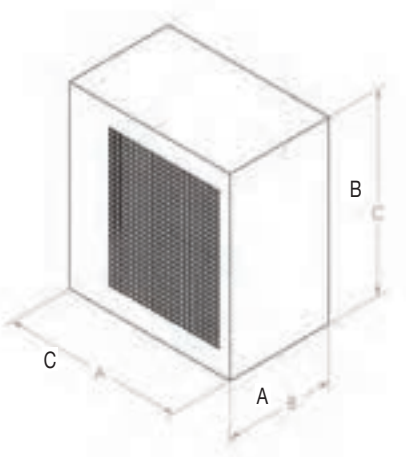
Maximum ambient temperature: 43°C
Maximum inlet temperature: 70°C
Working pressure: 0 to 232 PSI
Refrigerant: 49.502 to 49.532: R134a
49.537 to 49.542: R407c



TECH TIP

It is recommended to use a filter before the dryer to protect it from contaminants and condensates and increase the service life of internal components of the dryer.

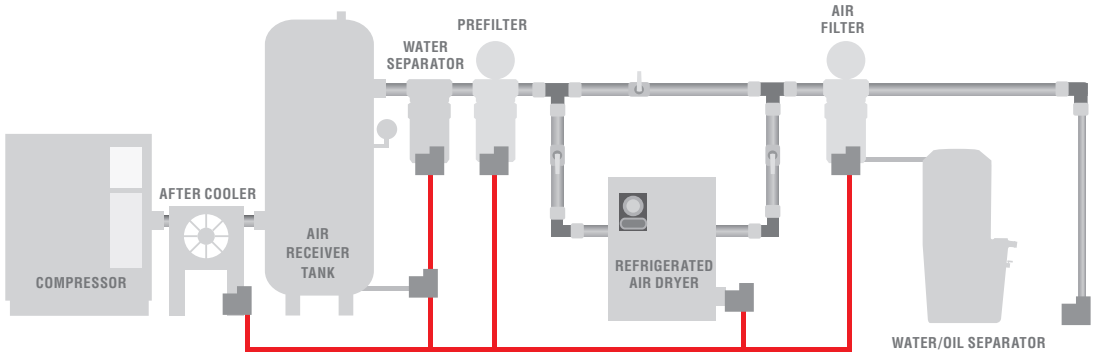
Dryer with 1 micron filter Product No	Dryer	Nominal Flow SCFM	Inlet/Outlet connection (F) NPT	Power supply	Dimensions (cm) A	B	C	Weight kg
49.502	**49.500**	15	1/2	115/1/60	38	46	43	26
49.507	**49.505**	30	1/2	115/1/60	38	46	43	33
49.512	**49.510**	45	1/2	115/1/60	38	46	43	36
49.517	**49.515**	55	3/4	115/1/60	38	51	49	39
49.522	**49.520**	85	3/4	115/1/60	38	51	49	43
49.527	**49.525**	135	1	115/1/60	41	74	66	66
49.532	**49.530**	175	1-1/2	115/1/60	41	74	66	70
49.537	**49.535**	215	1-1/2	230/1/60	41	87	71	90
49.542	**49.540**	250	1-1/2	230/1/60	41	87	71	102



S59
CONDENSATE DRAINS



COMPRESSED AIR TREATMENT: OPTIMUM COMPRESSED AIR QUALITY OPTIONS



SOLUTIONS TO ELIMINATE CONDENSATE

S59

WHY USE CONDENSATE DRAINS ?

TO ELIMINATE WATER ACCUMULATION

When compressing air, a compressor draws in many other substances including water vapor. The compression process causes this water vapor to condense and accumulate in receivers, tanks and compressed air systems.

The most obvious place for this condensate to accumulate is in the compressor tank. In addition to damaging the tank, this condensate will also be entrained in the air flow and be drawn into the compressed air network. Removing this condensate from the compressed air system is vitally important, as even small quantities can have a significantly detrimental effect on downstream equipment.

TO ELIMINATE COMPRESSOR OILS

In addition, compressed air is usually produced from oil-flooded compressors. This oil gets into the flow of air and can mix with water vapor, liquid water and other contaminants to form a thick, viscous substance even more damaging to downstream equipment.

For all these reasons, condensate removal is crucial to any compressed air system.

LITERS OF WATER PRODUCED BY A 25 HP COMPRESSOR AFTER 8 HOURS

Ambient Air Temperature °C	% Humidity								
	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %
49	84.5	126.8	169.1	211.4	253.7	296.0	338.0	380.1	422.8
43	64.1	95.5	126.8	159.6	190.1	222.3	253.7	286.4	317.8
38	47.7	70.9	94.1	118.7	141.8	166.4	189.6	212.8	237.3
32	35.6	51.8	69.6	87.3	105.0	121.4	139.1	156.8	174.6
27	25.9	38.2	50.5	62.7	76.4	88.6	101.0	113.2	126.8
21	17.7	27.3	35.5	45.0	54.5	61.4	72.3	81.8	90.0
16	12.3	19.1	25.9	31.4	38.2	45.0	50.5	57.3	64.1
10	9.5	13.6	17.7	21.8	27.3	31.4	35.5	39.6	45.0
4	5.5	9.5	12.3	15.6	17.7	21.8	24.5	27.3	30.0
-1	4.1	5.5	8.2	9.5	12.3	13.6	16.4	17.7	20.5
-7	2.7	4.1	5.5	6.8	7.7	8.6	9.5	10.9	12.3
-12	1.4	2.3	3.2	3.6	4.5	5.5	6.4	6.8	8.2

SELECTING THE PROPER CONDENSATE DRAIN

Selecting the right condensate drain is a question of several criteria: environment, pressure, temperature, but the main goal should always be to limit energy cost therefore a **zero air loss drain** is always preferable over programmable or float operated drains.

ZERO AIR LOSS DRAIN



A sensor located in the condensate collector triggers the draining of the tank when a set value is reached

PROGRAMMABLE DRAIN



A valve operated by a timer switch opens at fixed interval

MECHANICAL DRAIN



The condensate is collected in a storage tank. A float opens a valve when a certain condensate volume is reached

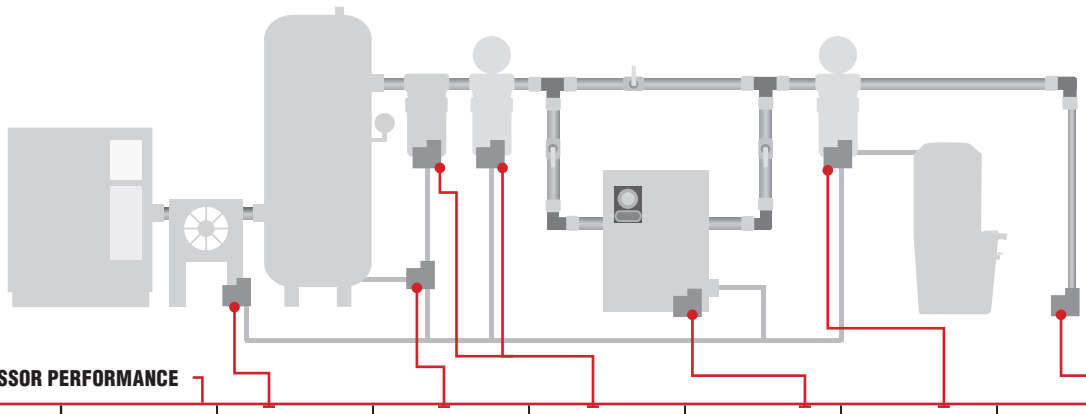
S59

WHY A ZERO AIR LOSS CONDENSATE DRAIN IS ALWAYS THE BEST SOLUTION ?

If the control of a condensate drain is exclusively time-based, it employs preset values for valve operation times and intervals. However, since the amount of condensate in a compressed air system changes constantly (summer/winter, maximum/part load), the following problems can occur:

- Valve operating time too short/operating intervals too long: not enough discharge is drained causing compressed air system to back up with condensate
- Valve operating time too long/operating intervals too short: valve remains open although all the condensate has been drained allowing compressed air to escape
- High switching frequency because the condensate collecting vessel is too small: premature failure without the possibility of servicing causing compressed air system to back up with condensate
- Small valve nozzles are susceptible to contamination: valve can no longer close causing compressed air to escape

TOPDRAIN® AND LOGIDRAIN® SELECTION GUIDE



COMPRESSOR PERFORMANCE

COMPRESSOR OUTPUT (HP)	NOMINAL DRAIN CAPACITY (CFM)	COMPRESSOR AFTERCOOLER	TANK	WATER SEPARATOR PREFILTER	REFRIGERATED AIR DRYER	FILTER	DRAIN LEG
≤ 20	80	TOPDRAIN 59.250 / 59.230	TOPDRAIN 59.250 / 59.230	TOPDRAIN 59.250	TOPDRAIN 59.250 / 59.230 LOGIDRAIN 59.248 / 59.231	TOPDRAIN 59.250 / 59.230 LOGIDRAIN 59.248 / 59.231	TOPDRAIN 59.250 / 59.230 LOGIDRAIN 59.248 / 59.231
25	100	LOGIDRAIN 59.248 / 59.231					
40	160						
50	200		LOGIDRAIN 59.251 / 59.232				
60	240						
75	300	LOGIDRAIN 59.251 / 59.232			LOGIDRAIN 59.251 / 59.232		
100	400	LOGIDRAIN 59.252 / 59.233					
150	600						
200	800	LOGIDRAIN 59.254 / 59.242			LOGIDRAIN 59.252 / 59.233		
250	1000						
300	1200						
400	1600	LOGIDRAIN 59.256 / 59.244			LOGIDRAIN 59.254 / 59.242		
500	2000						
700	2800		LOGIDRAIN 59.252 / 59.233	LOGIDRAIN 59.248 / 59.231	LOGIDRAIN 59.256 / 59.244	LOGIDRAIN 59.251 / 59.232	
1000	4000					LOGIDRAIN 59.252 / 59.233	
1500	6000		LOGIDRAIN 59.254 / 59.242	LOGIDRAIN 59.252 / 59.233			
2000	8000	LOGIDRAIN 59.258 / 59.246	LOGIDRAIN 59.256 / 59.244	LOGIDRAIN 59.254 / 59.242		LOGIDRAIN 59.254 / 59.242	LOGIDRAIN 59.251 / 59.232

S59

TOPDRAIN®
« ZERO AIR LOSS »
AUTOMATIC DRAINS

The **TOPDRAIN** automatic drain is an innovative system of automatic condensate drainage, designed to apply on compressors, aftercoolers, dryers and filters.

The **TOPDRAIN** automatic drain integrates all the solutions suited to guarantee the drain operation without clogging or waste of compressed air by using a highly reliable level sensor, a large drain duct with a servo controlled membrane and an inner stainless steel filter to hold impurities. The filter can be inspected and cleaned.

The **TOPDRAIN** automatic drain is extremely easy to install, even in very small spaces thanks to its extremely compact size and user-friendly connection system. It is possible to realize various connection systems to fit the product at each specific application: in this way it is possible to optimize the installation and at the same time minimize handling costs.

Features and benefits

- Electronic condensate drains with digital level control
- Compact design, minimal space required
- Optimal price/performance ratio
- Integrated filter to collect contaminations
- Easy cleaning and maintenance

Materials

Body Material: Polyamide

Chamber: Aluminium

Valve Internal Parts: Stainless steel

Diaphragm: Fluoroelastomer

Specifications

Maximum Supply Pressure: 230 PSI

Working Temperature: 1 to 60 °C

Voltage: 115 VAC / 1ph / 50-60 Hz

Power Cord: 1.8 m heavy duty cord with tripolar connector included with 59.250



59.250
with electrical cord



Fast-easy lock connection



Connection for drainage tube

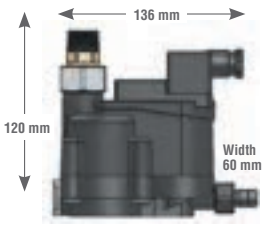


Integrated filter to collect contamination



Ball valve strainer included

With electrical cord Product No	Without electrical cord Product No	Connections		Capacity SCFM		
		Inlet(s) NPT	Outlet I.D. (Hose Barb)	Compressor, Aftercooler	Refrigerated Air Dryer	Filter, Water Separator
59.250	59.230	1/2 (M)	12 mm	128	249	1278



Maintenace kit
for 59.250 and 59.230



Product No	Description
59.264	Maintenance kit with internal valve

S59
LOGIDRAIN®
« ZERO AIR LOSS » AUTOMATIC DRAIN



The **LOGIDRAIN** automatic drains have been designed to solve the problem of condensation water drainage from production plants and compressed air distribution systems. The specific technology applied permits a controlled drainage of condensation water without any compressed air leaks.

The **LOGIDRAIN** automatic drains are equipped with an integrated storage tank that has a level sensor inside which has been mounted and is controlled by an intelligent electronic circuit based on an 8-bit microprocessor logic. All drain functions are displayed on a control panel. A test button is available on the control panel for manual drainage.

The **LOGIDRAIN** automatic drains start working as soon as a sensor detects water at max. level and controls the opening of the solenoid valve in order to take the water level back down to a minimum value, leaving a small residual quantity to prevent the system from discharging compressed air. In case of trouble, the control circuit unlocks the drain pipe by carrying out a series of forced opening/closing cycles of the solenoid valve. If this is not enough, the problem is reported outside by an alarm with potential-free contact that can be used to draw the attention of maintenance staff in order to instruct the plant control logic.

All versions are suitable for working with any type of condensation water even the most aggressive one or water containing a high percentage of oil. A built-in receiver of filter, that is easy to clean, prevents the solenoid valve from clogging.

Features and benefits

- No wastage of compressed air
- Electronic condensate drains with digital level control
- Intelligent logic based on an 8-bit microprocessor recording events on an integral flash memory
- "Easy-lock revolving" connection
- Adjustable for vertical and/or horizontal connections
- Integrated filter to collect contaminated condensate
- Easy to clean and maintain
- Remote alarm connection
- Receiver with treatment resistent to most aggressive condensates, like those of oil-free compressors

Materials

Body: Polyamide

Chamber: Aluminium

Valve Internal Parts: Stainless steel

Diaphragm: Fluoroelastomer

General Specifications

Maximum Supply Pressure: 230 PSI

Working Temperature: 1 to 60 °C

Voltage: 115 VAC / 1ph / 50-60 Hz

Power Cord: 1.8 m heavy duty cord with tripolar connector included with 59.242, 59.244, 59.246, 59.248, 59.250, 59.251, 59.252, 59.242, 59.244, 59.246

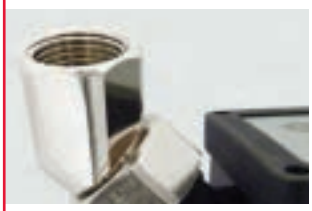
Ball Valve Strainer: included with all models



Built-in dirt screen easy to clean prevents the solenoid from clogging



Dry alarm contact - The drain is equiped with a special alarm cycle that starts working in case of trouble



Revolving top condensate inlet offering an additional balance line connection



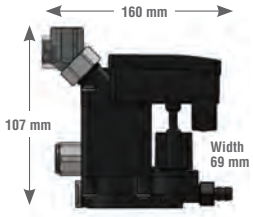
LED indicators for power ON and valve operation

S59
LOGIDRAIN®
« ZERO AIR LOSS » AUTOMATIC DRAIN



59.248
with electrical cord

With electrical cord Product No	Without electrical cord Product No	Connections		Capacity SCFM		
		Inlet NPT	Outlet I.D. (Hose Barb)	Compressor, Aftercooler	Refrigerated Air Dryer	Filter, Water Separator
59.248	59.231	1/2 (F)	12 mm	270	533	2698

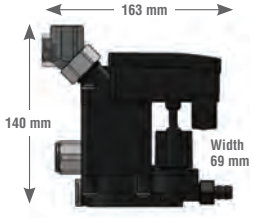






59.251
with electrical cord

With electrical cord Product No	Without electrical cord Product No	Connections		Capacity SCFM		
		Inlet NPT	Outlet I.D. (Hose Barb)	Compressor, Aftercooler	Refrigerated Air Dryer	Filter, Water Separator
59.251	59.232	1/2 (F)	12 mm	320	639	3195





Maintenace kit
for 59.248, 59.231,
59.251 and 59.232



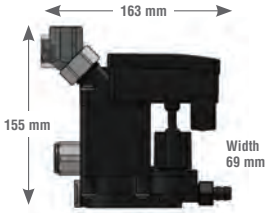
Product No	Description
59.265	Maintenance kit with internal valve

S59
LOGIDRAIN®
« ZERO AIR LOSS » AUTOMATIC DRAIN



59.252
with electrical cord

With electrical cord Product No	Without electrical cord Product No	Connections		Capacity SCFM		
		Inlet(s) NPT	Outlet I.D. (Hose Barb)	Compressor, Aftercooler	Refrigerated Air Dryer	Filter, Water Separator
59.252	59.233	1/2 (F) x 2	12 mm	639	1278	6391





Fast easy-lock connection



Connection for drainage tube



Integrated filter to collect contamination

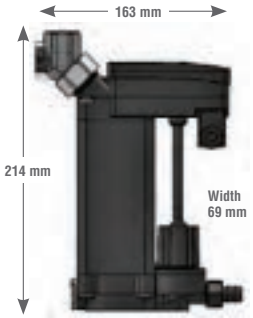


Secondary inlet



59.242
with electrical cord

With electrical cord Product No	Without electrical cord Product No	Connections		Capacity SCFM		
		Inlet(s) NPT	Outlet I.D. (Hose Barb)	Compressor, Aftercooler	Refrigerated Air Dryer	Filter, Water Separator
59.242	59.254	1/2 (F) x 2	12 mm	1278	2556	12781





Fast easy-lock connection



Connection for drainage tube



Integrated filter to collect contamination



Secondary inlet

Maintenace kit
for 59.252, 59.233,
59.242 and 59.254



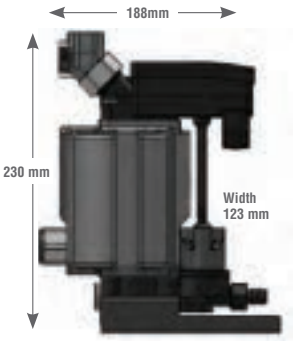
Product No	Description
59.265	Maintenance kit with internal valve

S59
LOGIDRAIN®
« ZERO AIR LOSS » AUTOMATIC DRAIN



59.244
with electrical cord

With electrical cord Product No	Without electrical cord Product No	Connections		Capacity SCFM		
		Inlet(s) NPT	Outlet I.D. (Hose Barb)	Compressor, Aftercooler	Refrigerated Air Dryer	Filter, Water Separator
59.244	59.256	1/2 (F) x 2	12 mm	6746	13491	67456

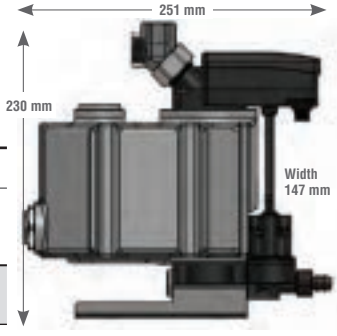






59.258

With electrical cord Product No	Without electrical cord Product No	Connections		Capacity SCFM		
		Inlet(s) NPT	Outlet I.D. (Hose Barb)	Compressor, Aftercooler	Refrigerated Air Dryer	Filter, Water Separator
59.246	59.258	1/2 (F) x 2 3/4 (F) x 1	12 mm	12781	25562	127811





Maintenace kit
for 59.244, 59.256,
59.246 and 59.258



Product No	Description
59.266	Maintenance kit with internal valve

S59
« ZERO AIR LOSS »
AUTOMATIC DRAIN

Features and benefits

- Energy saver
- Removes condensate from compressed air system without compressed air losses
- Covers all compressed air systems up to 3000 SCFM and up to 230 PSI
- The 4.5 mm large orifice drains condensate efficiently even heavily emulsified condensate
- Integrated mesh strainer protects from blockage
- Built in LED status and alarm lights facilitate monitoring of drain operation
- DIN 43650-B alarm contact provides remote, real time indication of drain function
- Removable electronic module and top cover allowing the disassembly of the drain without disconnecting the air system
- Balance line not required (protected from air lock)
- 1.8 meter power cord and a combo « Y » strainer and ball valve included for a quick and easy installation

Applications

This drain can be installed with all compressed air system components up to 3000 SCFM regardless size and climate

Materials

Body: Corrosion resistant aluminium
Valve Internal Parts: Stainless steel
Valve Seals: FKM (fluoroelastomer)

Specifications

Maximum Compressor Capacity: 3000 SCFM
Maximum Supply Pressure: 230 PSI
Working Temperature: 1 °C to 50 °C
Voltage: 115 VAC / 1 ph / 50/60 Hz
Rating: NEMA 4
Drainage Capacity: 44 liters/hour
Power Cord: 1.8 m heavy-duty grounded



«Y» strainer and ball valve included



Multiple (3) inlet options

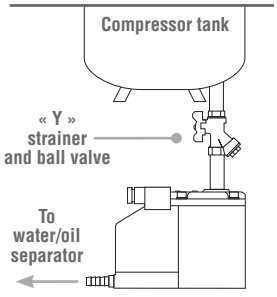


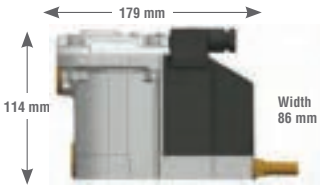
Integrated mesh strainer to protect the valve



Product No	Inlet	Outlet Hose barb
59.401	1/2 (F) NPT x2	3/8 I.D.

TYPICAL INSTALLATION





S59

MAGNETICALLY OPERATED « ZERO AIR LOSS » DRAIN

Designed to remove condensate from compressed air filters. Uses internal magnetic forces as its power source to operate. Ideally suited for applications where electricity is not available, not desired or not reliable.

The operation is automatic and there is zero air loss during the condensate discharge cycle.

Features and benefits

- Energy saver– no electricity required
- Remove condensate from compressed air filters of any size, type or manufacturer
- Zero air loss during the condensate discharge
- Uses internal magnetic forces as its power source to operate
- Direct operated valve – not diaphragm type
- Large valve orifice
- 1/2 (M) NPT anti-airlock adapter included allowing the trapped air to escape back into the system

Applications

Use with air filters, drop legs and ideally suited for applications where electricity is not available, not desired or not reliable

Materials

Housing: Corrosion resistant aluminium

Valve Seals: Viton

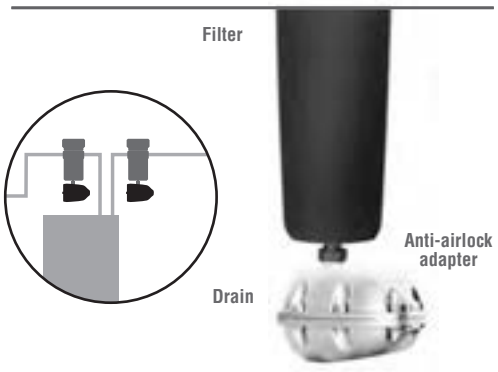
Specifications

Maximum Supply Pressure: 230 PSI

Working Temperature: 2 to 49 °C

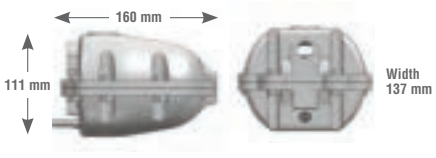


TYPICAL INSTALLATION



Product No	Inlet	Outlet
59.500	1/2 (F) NPT	1/8 (F) NPT*

* With 5/16 I.D. Hose Barb



S59
MAXDRAIN®
COMPACT PROGRAMMABLE DIGITAL AUTOMATIC DRAIN

Designed to remove condensate from compressors, compressed air dryers and receivers up to any size, type or manufacturer.



Features and benefits

- Drain with timer, ball valve and strainer in one compact package
- Ensures fully automatic and reliable condensate drainage
- True digital timer control allows virtually limitless programming control
- Allows true programming of drain times based on rate of condensate generation
- Valve can open from 1 sec to 99h 59 min 59 sec
- Simple and quick installation
- Saves maintenance time
- LED indicating power ON or OFF
- Test switch for routine inspection and depressurisation
- Strainer with bypass protects valve and allows for convenient, easy access and removal of particles that could block the valve

Applications

Air receivers, refrigerated dryers, separators and drop legs

Materials

Valve Body: Brass and stainless steel
Enclosure: ABS Plastic
Strainer: Brass
Seals: Viton

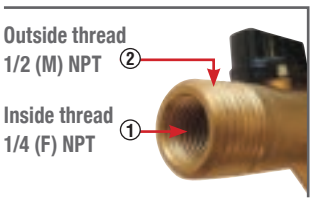
Specifications

Maximum Supply Pressure: 230 PSI
Working Temperature: 0 to 60 °C
Maximum Fluid Temperature: 90 °C
Voltage: 115 V / 1 ph / 50-60 Hz
Rating: NEMA 4
Interval time: 1 sec to 99 h 59 min 59 sec
Discharge time: 1 sec to 99 h 59 min 59 sec
Mounting: Horizontal or vertical
Power Cord: 1.8 m heavy-duty grounded



CYCLE TIME | PURGE TIME
PROGRAMMABLE

CE



Product No	Inlet	Outlet
59.365	1/2 (M) NPT ① 1/4 (F) NPT ②	1/2 (F) NPT

S59
MAXDRAIN®
COMPACT ELECTRONIC AUTOMATIC DRAINS

Features and benefits

- Fully automatic - no maintenance
- Cost effective solution for regular, reliable condensate removal in pneumatic systems
- Reduce compressed air loss
- Installation is simple and quick
- Adjustable purge time from 0.5 to 10 seconds
- Adjustable cycle drain time of 30 seconds to 45 minutes
- Test switch - for routine inspection and depressurisation
- Solid-state timer for long life and reliability
- LED indicating power ON or OFF
- Large-orifice valve ensuring a self-cleaning process
- « Y » strainer and ball valve (59.345)
- Strainer with bypass protects valve and allows for convenient, easy access and removal of particles that could block the valve (59.345)

Applications

Air receivers, refrigerated dryers, separators and drop legs



Materials

Valve Body: Brass and stainless steel
Enclosure: ABS plastic
Strainer: Brass
Seals: Viton

Specifications

Maximum Supply Pressure: 230 PSI
Working Temperature: 0 to 60 °C
Maximum Fluid Temperature: 90 °C
Voltage: 115 V / 1 ph / 50-60 Hz
Rating: NEMA 4
Interval time: 30 sec to 45 min
Discharge time: 0.5 to 10 sec
Mounting: Horizontal or vertical
Power Cord: 1.8 m heavy-duty grounded



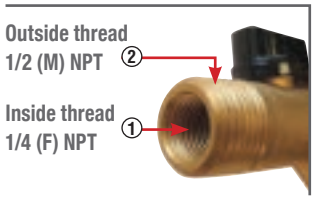
59.346



59.345

CYCLE TIME	PURGE TIME
30 SEC TO 45 MIN	0.5 TO 10 SEC

CE



Product No	Inlet	Outlet
59.345	1/2 (M) NPT ① 1/4 (F) NPT ②	1/2 (F) NPT
59.346	1/4 (F) NPT	1/4 (F) NPT

S59
HIFLO
LARGE CAPACITY MECHANICAL AUTOMATIC DRAIN

Features and benefits

- Automatically expels condensed moisture and compressor carry-over liquids from compressed air systems, wherever liquids tend to accumulate
- Large-capacity drain designed with a unique self-cleaning system to insure high operating reliability with a minimum of maintenance
- Reliable and accurate draining of high viscosity fluids
- High resistance to rust and dirt
- External automatic drain
- No electricity required
- Large discharge port prevents clogging
- Metal bowl with sight glass
- Discharge port is threaded 1/4 (F) NPT for condensate removal
- Push-button for manual drain
- Threaded bowl for easy removal

Applications

Can be used where liquids tend to accumulate on a compressed air line system such as a drop leg

Materials

Body and Bowl: Zinc

Seals: Buna-N/Nitrile

Drain: Brass

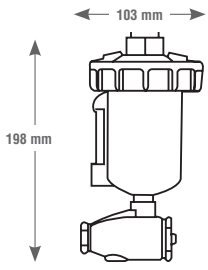
Specifications

Supply Pressure: 30 to 250 PSI

Maximum Working Temperature: 52 °C

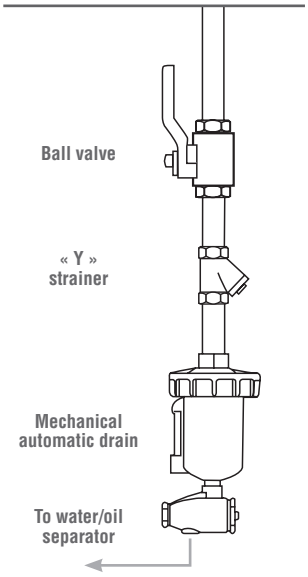
Bowl Capacity: 240 ml





Product No	Inlet	Outlet
59.446	1/2 (F) NPT	1/4 (F) NPT

TYPICAL DROP LEG INSTALLATION



TECH TIP

It is strongly recommended to always install a « Y » strainer (59.705) ahead of an external drain. By trapping large debris and sludge, this will prevent costly malfunctions and extend the life of the automatic drain.

S59
HIFLO
MECHANICAL AUTOMATIC DRAIN

Features and benefits

- Automatically expels condensed moisture and high and low viscosity liquids from compressed air systems
- Unique self-cleaning poppet ensures reliability and low maintenance
- High resistance to rust and dirt
- No electricity required

Applications

Can be used where liquids tend to accumulate on a compressed air line system such as a drop leg

Materials

Body and Bowl: Zinc

Float Mechanism: Plastic

Drain: Plastic

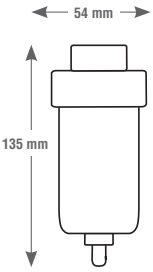
Specifications

Supply Pressure: 30 to 175 PSI

Maximum Working Temperature: 52 °C

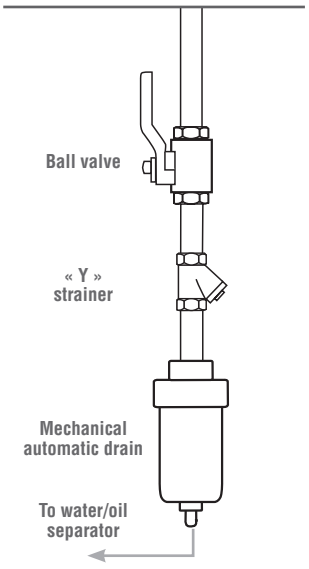
Bowl Capacity: 120 ml





Product No	Inlet
59.445	1/2 (F) NPT

TYPICAL DROP LEG INSTALLATION



TECH TIP

It is strongly recommended to always install a « Y » strainer (59.705) ahead of an external drain. By trapping large debris and sludge, this will prevent costly malfunctions and extend the life of the automatic drain.

S59
AIRFLO
MECHANICAL
AUTOMATIC DRAIN

Features and benefits

- Automatically expels condensed moisture and high and low viscosity liquids from compressed air systems
- Integrated filter element prevents rust, scale and large particles from fouling float mechanism
- No electricity required

Applications

Can be used where liquids tend to accumulate on a compressed air line system such as a drop leg

Materials

Body: Zinc

Bowl: Polycarbonate

Float Mechanism: Plastic

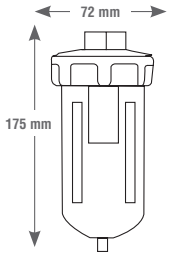
Specifications

Supply Pressure: 22 to 145 PSI

Working Temperature: 5 to 60 °C

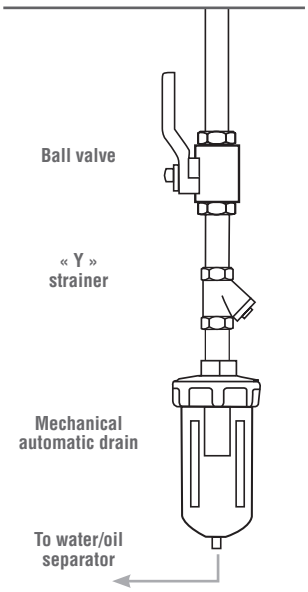
Bowl Capacity: 130 ml





Product No	Inlet	Outlet
59.470	1/2 (F) NPT	1/8 (M) BSPT

TYPICAL DROP LEG INSTALLATION



TECH TIP

It is strongly recommended to always install a « Y » strainer (59.705) ahead of an external drain. By trapping large debris and sludge, this will prevent costly malfunctions and extend the life of the automatic drain.

S59

MAXDRAIN® MECHANICAL AUTOMATIC DRAIN

Features and benefits

- The condensate is collected in a storage tank. A float opens a valve when a certain level of condensate is reached. The condensate flows through the outlet of the drain automatically.
- It is possible to install a hose to direct the flow of condensate to a specific location.
- No electricity required
- Economical
- Low maintenance

Applications

Can be used where liquids tend to accumulate on a compressed air line system such as a drop leg

Materials

Body: Aluminium

Union and Drain Cock: Brass

Seal: NBR

Specifications

Maximum Working Pressure: 290 PSI

Working Pressure: 0-230 PSI

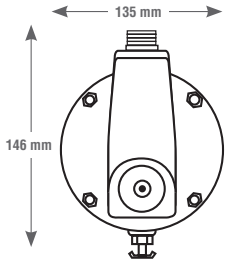
Working Temperature: -1 to 80 °C

Bowl Capacity: 400 ml



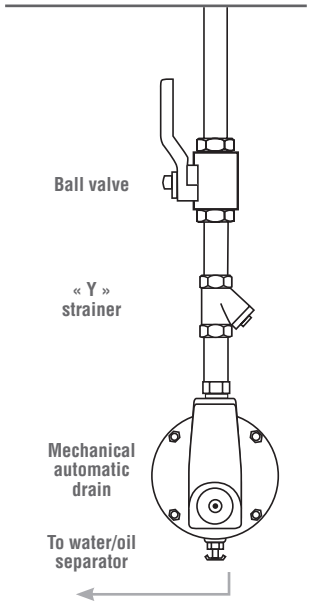






Product No	Inlet	Outlet
59.465	1/2 (M) NPT	1/2 (F) NPT

TYPICAL DROP LEG INSTALLATION



TECH TIP

It is strongly recommended to always install a « Y » strainer (59.705) ahead of an external drain. By trapping large debris and sludge, this will prevent costly malfunctions and extend the life of the automatic drain.

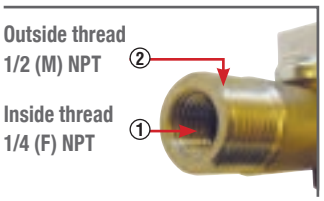
S59
BALL VALVE STRAINERS

Features and benefits

- Ball valve strainers provide the possibility to isolate condensate drains for maintenance without having to depressurize the whole system

Material
Brass





Product No	Inlet	Outlet
59.710	1/2 (M) NPT ② 1/4 (F) NPT ①	1/4 (M) NPT
59.714	1/2 (M) NPT ② 1/4 (F) NPT ①	1/2 (M) NPT

« Y » STRAINERS

Features and benefits

- A « Y » strainer installed ahead of an external drain traps large debris and sludge, prevents malfunctions and extends the life of the automatic drain
- Removable plug for quick draining

Material
Brass

Specifications
Maximum Supply Pressure: 300 PSI



Product No	Orifice diameter
59.700	1/4 (F) NPT
59.702	3/8 (F) NPT
59.705	1/2 (F) NPT

GROUP 1 • COMPRESSED AIR TREATMENT

S56 • Water Separators
S53 • Compressed Air Filters
S49 • Refrigerant Air Dryers
S59 • Condensate Drains
S57 • Water / Oil Separators
S09 • Safety Check valves, flexible hoses and programmable ball valves



S57
WATER/OIL SEPARATORS



S57

WATER AND OIL IN COMPRESSED AIR SYSTEM

WATER ACCUMULATION

A working compressor draws in many substances including dirt, water vapor and many other substances to form unwanted condensate.

Condensate accumulation usually occurs in the compressed air tank. In addition to damaging the tank, this condensate is spread throughout the compressed air system.

Eliminating the condensates is imperative to prevent expensive damage to the equipment.

OIL AIR COMPRESSORS

Compressed air circulating in compressors with compression chambers inevitably carries a little oil.

The most common examples of these types of compressors are oil-flooded rotary screw machines, lubricated reciprocating, and rotary vane compressors. In most cases, the accumulation of oil will be indicated in ppm or parts per million by weight.

Reciprocating compressors carry a higher level of ppm of oil residue compared to a screw compressor. An AC compressor carries an average of 7 to 10 ppm and this level only increases with the compressor wear. Many lubricated compressors operate with much higher levels of oil residues which can be greater than 25 ppm.

At a concentration of 25 ppm, a typical compressor operating at 100 scfm for 35 hours introduces 240 ml of oil into the compressed air system. This oil, mixed with water vapors and other contaminants, can form a thick, viscous substance that is even more damaging to the entire compressed air system. The breakdown of equipment and corrupt production are significant risks.

For all these reasons, eliminating any form of condensate in the compressed air network remains crucial.

Removing condensates through an automatic bleeder is simple and effective but to get rid of contaminants, the water/oil separator becomes essential in order to comply with municipal by-laws.

DISCHARGING
oil contaminated condensates is
PROHIBITED BY LAW
and harmful to the environment!

Quebec Environment Quality Act

20. No one may emit, deposit, issue or discharge or allow the emission, deposit, issuance or discharge into the environment of a contaminant in a greater quantity or concentration than that provided for by regulation of the Government.

The same prohibition applies to the emission, deposit, issuance or discharge of any contaminant the presence of which in the environment is prohibited by regulation of the Government or is likely to affect the life, health, safety, welfare or comfort of human beings, or to cause damage to or otherwise impair the quality of the soil, vegetation, wildlife or property.

E.Q.A., Chapter 2, a. 20

Source: http://www2.publicationsduquebec.gouv.qc.ca/dynamicSearch/telecharge.php?type=2&file=/Q_2/Q2_A.html

ENVIRONMENTAL REGULATIONS

To meet with environmental regulations for condensate treatment in your location, please refer to your environmental provincial law on the discharge of any contaminant into the natural environment.

LITERS OF WATER PRODUCED BY A 25 HP COMPRESSOR AFTER 8 HOURS

Ambient Air Temperature °C	% Humidity								
	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %
49	84.5	126.8	169.1	211.4	253.7	296.0	338.0	380.0	422.8
43	64.1	95.5	126.8	159.6	190.1	222.3	253.7	286.4	317.8
38	47.7	70.9	94.1	118.7	141.8	166.4	189.6	212.8	237.3
32	35.6	51.8	69.6	87.3	105.0	121.4	139.1	156.8	174.6
27	25.9	38.2	50.5	62.7	76.4	88.6	101.0	113.2	126.8
21	17.7	27.3	35.5	45.0	54.5	61.4	72.3	81.8	90.0
16	12.3	19.1	25.9	32.4	38.2	45.0	50.5	57.3	64.1
10	9.5	13.6	17.7	21.8	27.3	31.4	35.5	39.6	45.0
4	5.5	9.5	12.3	15.6	17.7	21.8	24.5	27.3	30.0
-1	4.1	5.5	8.2	9.5	12.3	13.6	16.4	17.7	20.5
-7	2.7	4.1	5.5	6.8	7.7	8.6	9.5	10.9	12.3
-12	1.4	2.3	3.2	3.6	4.5	5.5	6.4	6.8	8.2

S57
TREATMENT OF CONTAMINATED CONDENSATES

Over the couse of a year, a typical compressed air system can produce several thousand liters of contaminated condensate with oil and other unwanted particles. For example, a compressor with a 100 scfm refrigerant air dryer operating at 25 ° C in 65% relative humidity for 4000 hours can produce up to 10,000 liters of condensate. Oily condensate can seriously affect wastewater treatment.

For this reason, a very small portion of oil condensate in water discharges is permitted and strictly regulated to protect the environment.

International standards such as ISO 14001 require compressed air users to comply with local environmental laws and put in place adequate disposal procedures.

In the past, the condensates were stored and periodically picked up by a waste collection company. This meant keeping contaminants on site which were health and safety hazards and carried costly collection costs.

A settling tank was also used to separate water and oil through a gravity based system followed by charcoal filtration for the remaining water. Today's lubricants have different properties making this method obsolete. They have a density similar to that of water and the water/oil mixture forms a mixture for which a gravity based separation system becomes ineffective.

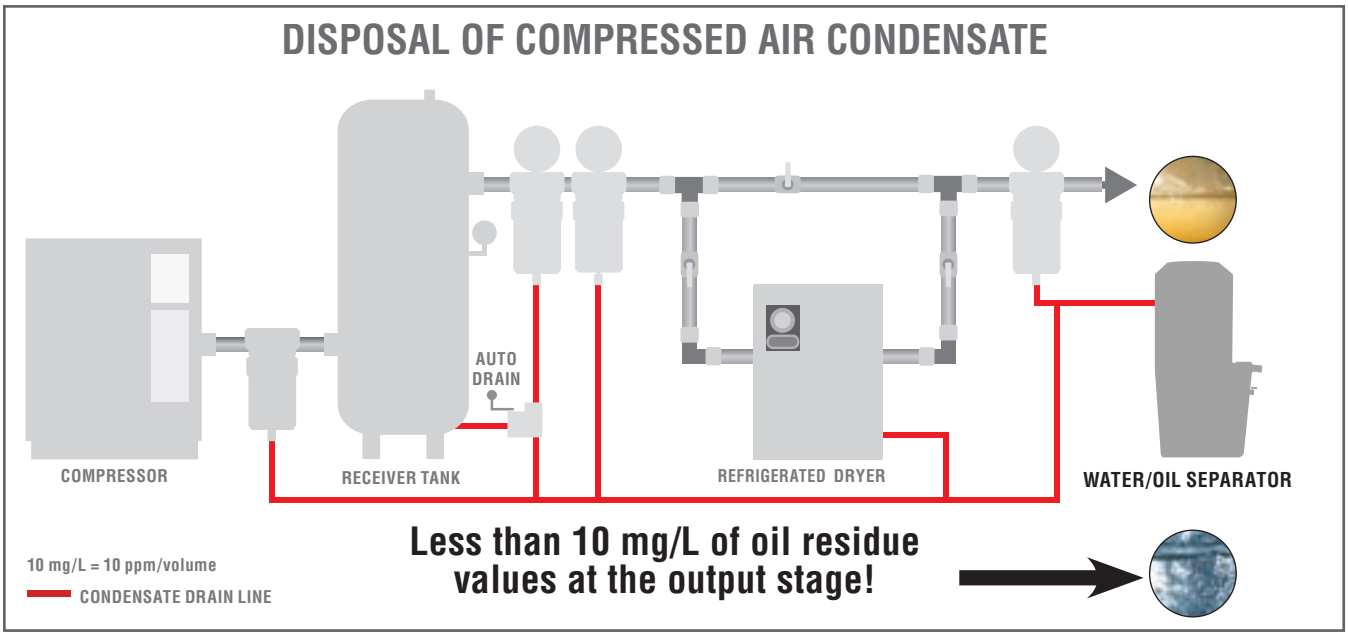
The new generation of water / oil separators are now environmentally friendly and use a highly efficient filters to absorb oils and contaminants.

EFFICIENT ON-SITE DISPOSAL OF CONDENSATE

TOPRING offers a wide range of water / oil separators compatible with any type of drains. It is a simple and effective environmentaly friendly solution. These water / oil separators are integrated in the compressed air system and reduce the oil concentration in the water with by up to 99.9% of the condensate at the outlet. These separators leave a small amount of oil that can be easily and legally disposed of.

Using specially processed polypropylene based adsorbing components, the water / oil separators effectively separate all lubricants from the compressor: no need for a condensate tank, a settling tank or a third party waste-collection resource. The **TOPRING** water /oil separators offer a reliable and economical solution in compliance with environmental standards for condensate treatment as well as ISO 14001 standards.

- Specialized polypropylene media
- No need for a settling tank
- Can separate most types of condensate
- Works with all drains
- Cost effective, reliable performance



S57
DISPOSABLE WATER/OIL SEPARATORS

70 SCFM

A simple and effective way to dispose of condensate while respecting environmental standards.

Featuring an advanced filtration technology with adsorbent polypropylene, this **TOPRING** water / oil separator separates virtually any type of condensate from the drains.

No need for a settling or storage tank and above all, no maintenance is required. Simply install the water oil separator on the wall and connect the inlet and outlet. Once the separator is saturated with oil, it must be disposed of and replaced.

Features and benefits

- Depressurization foam layers separate condensate from compressed air
- Made from polypropylene media to adsorb oils
- Carbon filters to eliminate any remaining hydrocarbons
- Compact design : the unit must be disposed of and replaced when it is saturated
- Lightweight, yet strong and durable ABS housing
- No settling tank: perfect for portable applications
- Brass inlet and outlet adapter for secure connections of drain tubes
- Wall mounting kit for easy installation (optional)

Applications

Perfect for installations with :

- Systems of 70 SCFM or less
- Low condensate flow levels
- Portable applications or with limited floor space
- All compressor oil types
- Emulsified mixtures
- All types of drains
- EPA regulated discharge

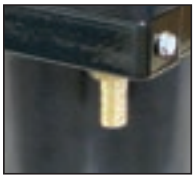
Material

ABS







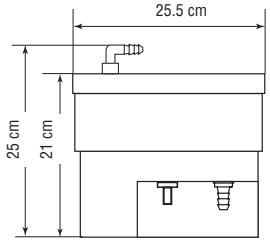


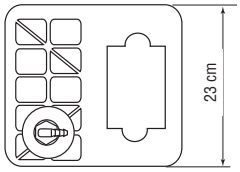


- Quick and easy to service
- Fixing brackets included

- Brass inlet/outlet connection

- Test kit included







Brass multiple inlet adaptor



Product No	Description
57.422	Inlet adaptor

The oil adsorbing elements combine various types of adsorption technologies to achieve **less than 10 mg/L of oil residue values at the output stage**.

Basic rule: 1 HP = 4 SCFM

Mineral and synthetic lubricant applications	Polyglycol applications	Maximum flow capacity SCFM	Maximum oil adsorption liters	I.D. Inlet/Outlet	Weight kg
Product No	Product No				
57.300	57.320	70	1.9	1/2	3.6

S57
HIFLO
WATER/OIL SEPARATORS



General features and benefits

TOPRING water/oil separators efficiently treat oils and other condensate contaminants from the compressed air system for safe and legal disposal in the drain.

They separate any type of condensate discharged from a drain and reduce condensate disposal costs. It is easy to select a water/oil separator model based on the applications airflow requirements (SCFM).

PERFORMANT FILTRATION MEDIA



- Non-carbon based filtration media that attracts oil droplets and repels water
- Clean, lightweight and easy to handle
- Long filtration media service life for lower life cycle costs
- Lower outlet oil concentrations in water down to 5 ppmv or less even with synthetic compressor oils
- Environmentally friendly with 100% recycled and recyclable filtration media

EASY MAINTENANCE



- Service indicator to ensure periodical replacement of the filters
- No settling or collection tanks to be purged and cleaned
- Removable cover for easy access of internal components

The maintenance indicator ensures a quick replacement of the filter elements

Product No	Expected duration of the filter element
57.500	8 000 hr at 30 SCFM 5 000 hr at 60 SCFM
57.502 to 57.512	5 000 hr at 120 / 2 500 SCFM

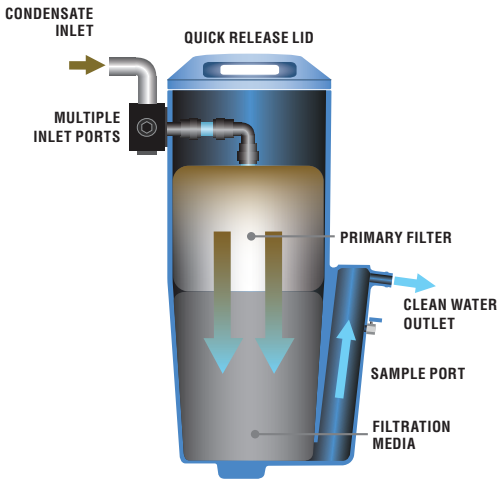
EASY INSTALLATION



- The filters are ready to use, requiring no pre-soaking
- Space saving and smaller footprint for easier installation
- Wall mounting kits available

How does it work ?

As the condensate passes through the primary filter, it is depressurized. The solid particles are then trapped, protecting the secondary filter and catching bulk hydrocarbons in a high capacity oil absorber. The condensate then passes through the filtration media which absorbs oil (concentrations of 5 ppm or less).



S57
HIFLO
WATER/OIL SEPARATORS

With an advanced polypropylene filter, it can separate any type of condensate containing any type of compressor lubricant discharged from any type of drain, without the need for a settling or storage tank.

A cost effective and reliable solution that meet environmental regulations for condensate disposal.

Features and benefits

- Highest performance and low operating cost
- Reliable, lightweight, clean, dust-free
- Easy to handle, install and remove
- No pre-soaking required saving installation and maintenance costs
- High quality single piece molded body
- Multiple inlet connections for multiple purge points

Applications

Perfect for installations with:

- Portable applications for restricted floor space
- Any type of oil compressor
- Emulsified mixtures
- Any type of drain
- EPA landfill regulations
- Low cost operations

Material

Polyethylene

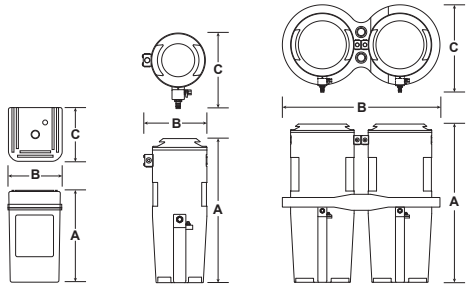
Specifications

Inlet condensate temperature range: 1.7°C to 43°C

Maximum condensat inlet pressure: 232 PSI

Maximum oil carry over: < 20 ppm





57.500 | 57.510 to 57.512 | 57.502 to 57.508

Product No	Inlet(s) NPT	Outlet NPT	Maximum Flow * SCFM	Maximum Flow ** SCFM	Dimensions cm			Weight kg	Wall mounting bracket	Replacement media kit
					A	B	C		Product No	
57.500	1/4 O.D.	3/8 O.D.	60	30	22.86	12.70	12.70	1.3	Included	--
57.502	1/2 (x 4)	3/4	120	60	48.26	20.32	25.40	2.7	**57.542**	**57.522**
57.504	1/2 (x 4)	3/4	360	180	63.52	33.02	27.94	3.6	**57.544**	**57.524**
57.506	1/2 (x 4)	3/4	900	450	96.52	43.18	48.26	15	--	**57.526**
57.508	1/2 (x 4)	3/4	1250	625	96.52	48.26	48.26	20	--	**57.528**
57.510	1/2 (x 8)	3/4	1800	900	96.52	96.52	50.80	31	--	**57.530**
57.512	1/2 (x 8)	3/4	2500	1250	96.52	109.22	53.34	43	--	**57.532**

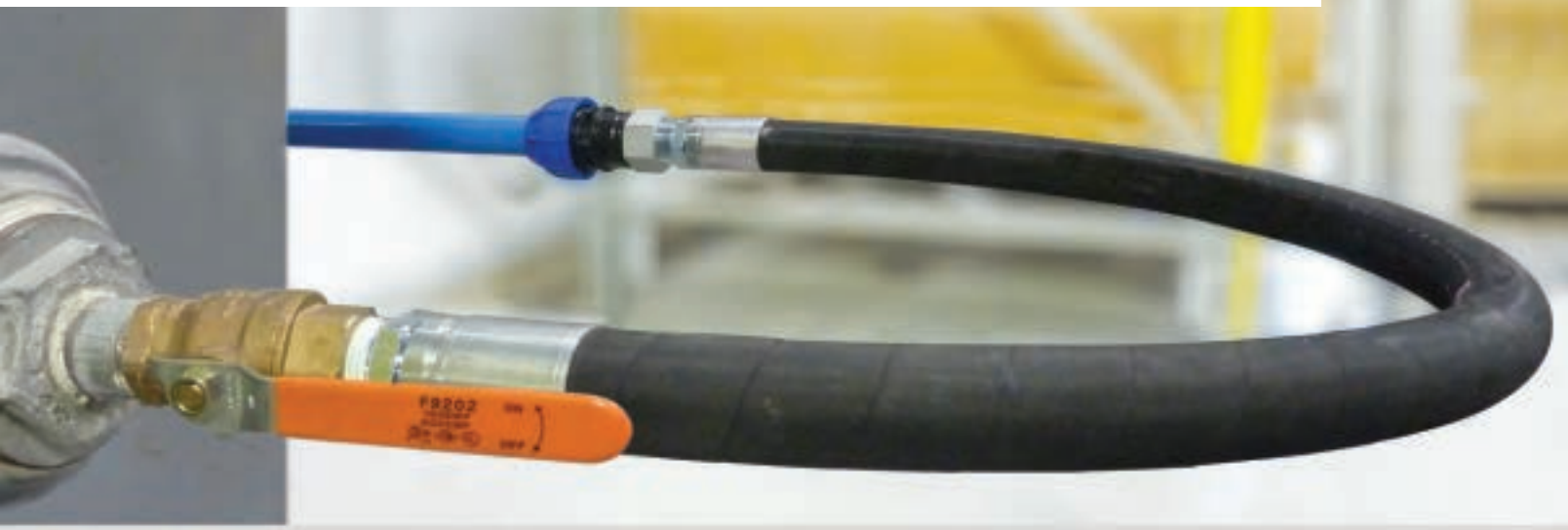
* Choice based on a compressor using mineral or synthetic oil with an oil residue adsorption capacity of 5 mg/m^3 or less

** Choice based on a compressor using polyglycol

TECH TIP

Please refer to Series 47 to see the aluminium manifold bars required for water/oil separator installation

S09
SAFETY CHECK VALVES, ANTI-VIBRATION HOSES AND PROGRAMMABLE BALL VALVES







S09
FLEXIBLE ANTI-VIBRATION HOSES

A flexible hose must be installed at the beginning of the system (between the compressor and the distribution system) in order to neutralize sources of vibration and heat, and to facilitate maintenance and operation.

Anti-vibration hoses will extend components service life by reducing stress caused by vibration and heat coming from the compressor and misalignment. It is not recommended to install fittings directly on the compressor, without using an anti-vibration hose.

INSTALLATION GUIDELINES

1 AVOID TWISTING



To minimize possible torque damage, a 3-piece female union should be used at one extremity of the hose.

Always install the hose so that bending takes place only in the bend radius.

Pressure applied on a twisted hose can result in hose failure or loosening of connections.



Female Union

2 KEEP HOSE BEND RADIUS AS LARGE AS POSSIBLE



To avoid hose collapse and flow restriction, keep hose bend radius as large as possible.

Never bend the hose immediately out of the connector. Ensure a minimum length equal to 5 times the external diameter of the tube between the end of the connector and where bend starts.

Avoid twisting of the hose and never exceed the bend radius indicated.

The minimum centerline bend radius for intermittent flexing should never be less than the values specified.

3 EXPANSION LOOP



To design an expansion loop, the flexible hose must always be installed with enough slack to provide for length changes which will occur during thermal expansion.

4 BYPASSING OBSTACLES



Bends and bypasses cause pressure drops. To avoid pressure loss, use the flexible hose to offset the network and to bypass obstacles.

S09

HIGH TEMPERATURE FLEXIBLE STAINLESS STEEL ANTI-VIBRATION HOSES

Features and benefits

- Flexible and corrugated, designed to minimize vibration and heat produced by the compressor
- Extend distribution system lifespan by reducing stress produced by vibration and heat
- Anti-corrosion
- Meet ISO 10380 standards

Materials

Hose and Braid: Stainless steel

Fitting: Steel
(Stainless steel available upon request)

Specifications

FLEXIBLE HOSE

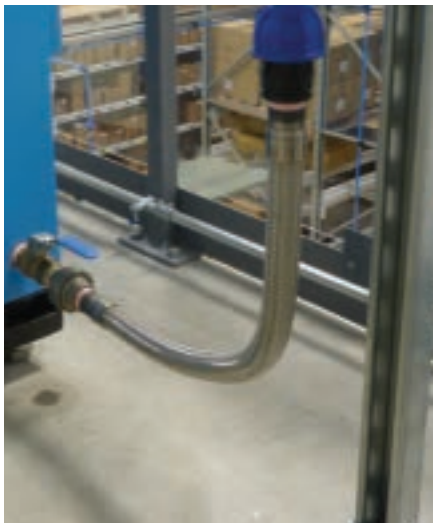
Working Temperature: -40 to 250 °C

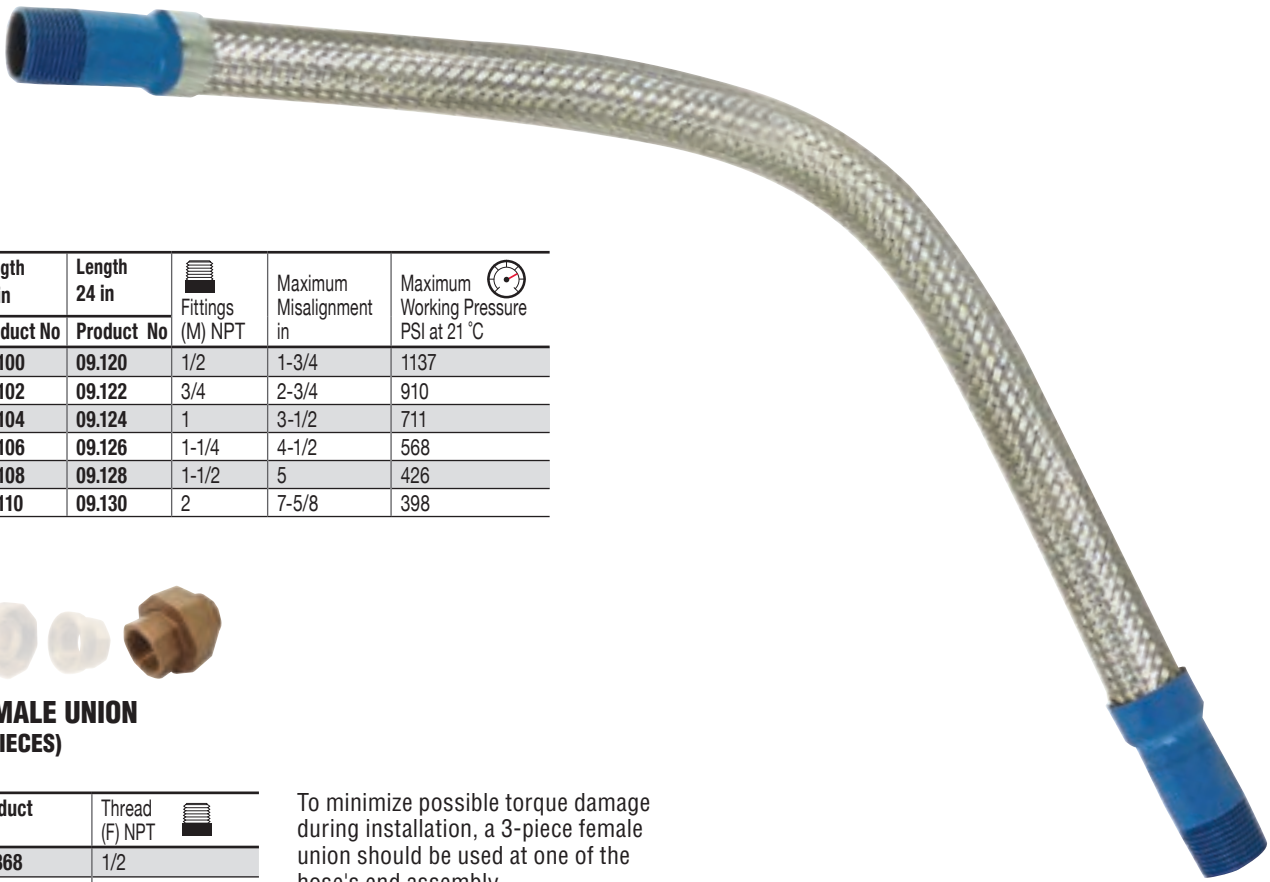
Maximum Working Pressure: See table below

FEMALE UNION FITTING

Maximum Working Pressure: 150 PSI

TYPICAL INSTALLATION





Length 12 in	Length 24 in	Fittings (M) NPT	Maximum Misalignment in	Maximum Working Pressure PSI at 21 °C
Product No	**Product No**			
09.100	**09.120**	1/2	1-3/4	1137
09.102	**09.122**	3/4	2-3/4	910
09.104	**09.124**	1	3-1/2	711
09.106	**09.126**	1-1/4	4-1/2	568
09.108	**09.128**	1-1/2	5	426
09.110	**09.130**	2	7-5/8	398



FEMALE UNION
(3 PIECES)

Product No	Thread (F) NPT
41.368	1/2
41.369	3/4
41.370	1
41.371	1-1/4
41.373	2

To minimize possible torque damage during installation, a 3-piece female union should be used at one of the hose's end assembly.

S09

FLEXIBLE RUBBER ANTI-VIBRATION HOSES

Features and benefits

- Ideal for connecting a compressor outlet to a compressed air distribution system
- Extend a compressed air distribution system lifespan by reducing stress produced by vibration and heat
- Designed to bypass obstacles or overcoming misalignment problems of compressed air distribution system
- Resist mineral and synthetic oils and heat

Materials

Cover: Oil-resistant synthetic rubber
Inner Hose: Oil and heat-resistant rubber
Reinforcement: High tensile steel braid wire

Specifications

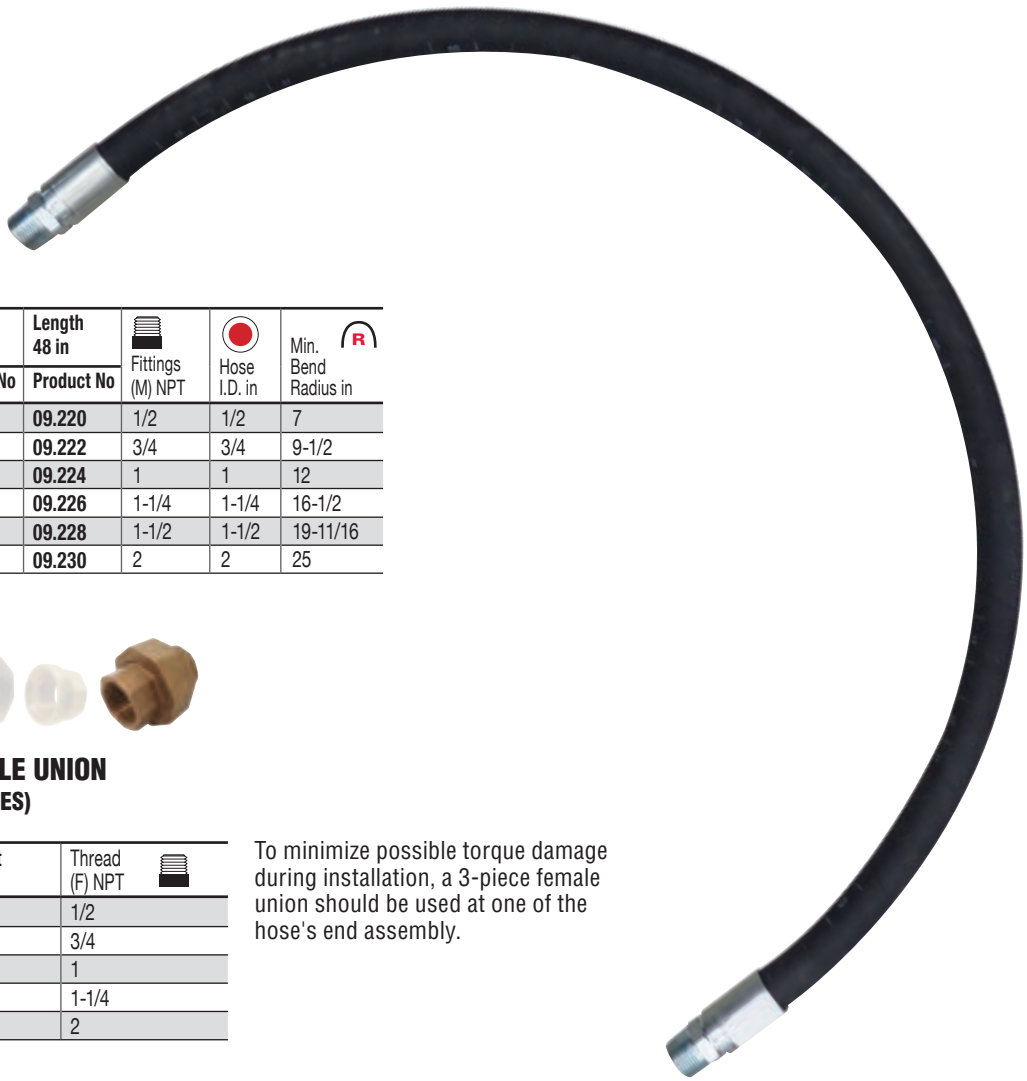
FLEXIBLE HOSE
Working Temperature: -40 to 100 °C
Maximum Working Pressure: 500 PSI

FEMALE UNION FITTING
Maximum Working Pressure: 150 PSI

TYPICAL INSTALLATIONS







Length 24 in	Length 48 in	Fittings (M) NPT	Hose I.D. in	Min. Bend Radius in
Product No	Product No			
09.200	09.220	1/2	1/2	7
09.202	09.222	3/4	3/4	9-1/2
09.204	09.224	1	1	12
09.206	09.226	1-1/4	1-1/4	16-1/2
09.208	09.228	1-1/2	1-1/2	19-11/16
09.210	09.230	2	2	25



FEMALE UNION
(3 PIECES)

Product No	Thread (F) NPT
41.368	1/2
41.369	3/4
41.370	1
41.371	1-1/4
41.373	2

To minimize possible torque damage during installation, a 3-piece female union should be used at one of the hose's end assembly.

S09
ASME
BRASS SAFETY VALVES

OSHA

SAFETY

CRN CANADIAN REGISTRATION NUMBER



Features and benefits

- Designed to protect compressed air systems from over-pressurization
- Factory set to a non-adjustable pressure setting, at which point the valve will release system air to the atmosphere
- High quality, anti-corrosion
- Optimum high flow discharge rates
- High airflow
- CRN OG-3724 approved
- Manufactured under the regulations of the “National Board of Boiler and Pressure Vessel Inspectors” in accordance with section VIII of the ASME (Americain Society of Mechanical Engineers) code covering valves for unfired pressure vessels

Applications

Designed to protect air compressor tanks and other unfired pressure vessels by exhausting when the maximum pressure is reached

Materials

Body, Valve and Guide: Brass

Ring and Spring: Stainless Steel

Specifications

Working Temperature: - 40 to 177 °C



1/4 (M) NPT

Product No 1/4 (M) NPT	Preset Pressure PSI	Airflow SCFM
09.302	50	51
09.304	75	71
09.306	115	104
09.308	125	112
09.310	140	124
09.312	155	137
09.314	165	145
09.316	175	153
09.318	190	165
09.320	200	173
09.322	225	194
09.324	300	255
09.326	400	336
09.328	450	377



1/2 (M) NPT

Product No 1/2 (M) NPT	Preset Pressure PSI	Airflow SCFM
09.332	50	108
09.334	75	150
09.336	115	218
09.338	125	235
09.340	140	261
09.342	155	287
09.344	165	304
09.346	175	321
09.348	190	346
09.350	200	363
09.352	225	406
09.354	300	534



3/4 (M) NPT

Product No 3/4 (M) NPT	Preset Pressure PSI	Airflow SCFM
09.362	50	233
09.364	75	325
09.366	115	473
09.368	125	509
09.370	140	565
09.372	155	620
09.374	165	657
09.376	175	694
09.378	190	749
09.380	200	786
09.382	225	878
09.384	300	1154

S09
ASME STAINLESS STEEL SAFETY VALVES

SAFETY

CRN CANADIAN REGISTRATION NUMBER



Features and benefits

- Designed to protect compressed air systems from over-pressurization
- Factory set to a non-adjustable pressure setting, at which point the valve will release system air to the atmosphere
- High quality, anti-corrosion
- Optimum high flow discharge rates
- High airflow
- CRN OG-3724 approved
- Manufactured under the regulations of the “National Board of Boiler and Pressure Vessel Inspectors” in accordance with section VIII of the ASME (Americain Society of Mechanical Engineers) code covering valves for unfired pressure vessels

Applications

Designed to protect air compressor tanks and other unfired pressure vessels by exhausting when the maximum pressure is reached

Materials

Body, Valve and Guide: Stainless Steel 303

Spring: Stainless Steel 17-7pH

Specifications

Working Temperature: - 40 to 177 °C



1/4 (M) NPT

Product No 1/4 (M) NPT	Preset Pressure PSI	Airflow SCFM
09.404	75	71
09.408	125	112
09.412	150	132
09.420	200	173



1/2 (M) NPT

Product No 1/2 (M) NPT	Preset Pressure PSI	Airflow SCFM
09.434	75	150
09.438	125	235
09.442	150	278
09.450	200	363

S09

IN-TANK CHECK VALVES FOR COMPRESSORS

Features and benefits

- In-tank check valves screw directly into the air receiver and are attached to the compressor's discharge line
- Compressor check valves avoid pressurized air from returning into the compressor pump when the compressor is not running
- Economical and reliable
- Two-piece screwed design
- Jam-resistant piston
- Triple-balanced flow design for minimum restriction

Applications

Used on air compressor tanks

Materials

Body: Brass

Piston: Teflon®

Spring: Stainless steel

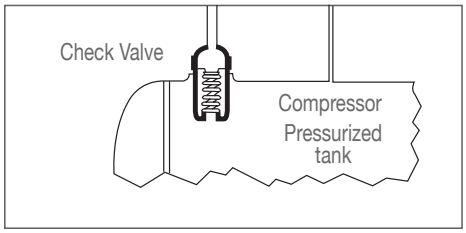
Specifications

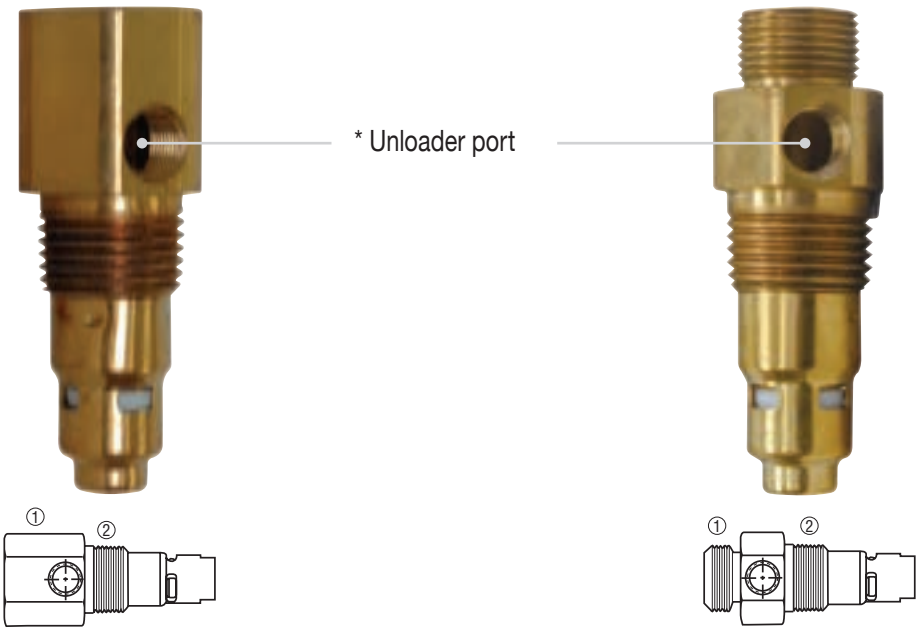
Maximum Working Pressure: 500 PSI

Maximum Working Temperature: Up to 232 °C

Unloader Port: 1/8 (F) NPT







Product No	Inlet (F) NPT ①	Outlet (M) NPT ②	Airflow SCFM
09.605	3/8	1/2	20
09.610	1/2	1/2	20
09.615	3/4	3/4	30
09.620	3/4	1	60
09.625	1	1	60

Product No	Inlet Tube SAE Compression Fitting ①	Outlet (M) NPT ②	Airflow SCFM
09.650	1/2	1/2	20
09.655	3/4	3/4	30

* If not required by the application, the unloader port can be closed with a pipe plug countersunk head 1/8 (M) NPT (41.210)

S09
AIR-SAVER®
PROGRAMMABLE BALL VALVES

Features and benefits

- Valve opens slowly to avoid water hammer in the distribution system
- Manual opening and closing possible, in case of a power failure
- Microprocessor controlled (16 cycle/day, 7 day/week)
- Each individual day can be programmed according to specific working day shift requirements
- Integral lithium battery protects program
- Reset Function
- Maintenance free
- Easy to obtain air in case of overtime work
- Large LCD display showing program cycle and current time
- Compact design
- Easy to install and easy to program
- No unnecessary start up of compressors during periods when compressed air is not required
- Allows to shut off sections of a distribution system where compressed air isn't continuously needed

Specifications

Maximum Working Pressure: 230 PSI

Working Temperature: 0 to 60 °C

Voltage: 115V / 50/60 Hz

Power Consumption:
7W during cycle rotation

- **ENERGY SAVER**
- **FULLY AUTOMATIC**
- **SOLUTION AGAINST AIR LEAKAGE**





09.690



09.692





09.695

TECH TIP

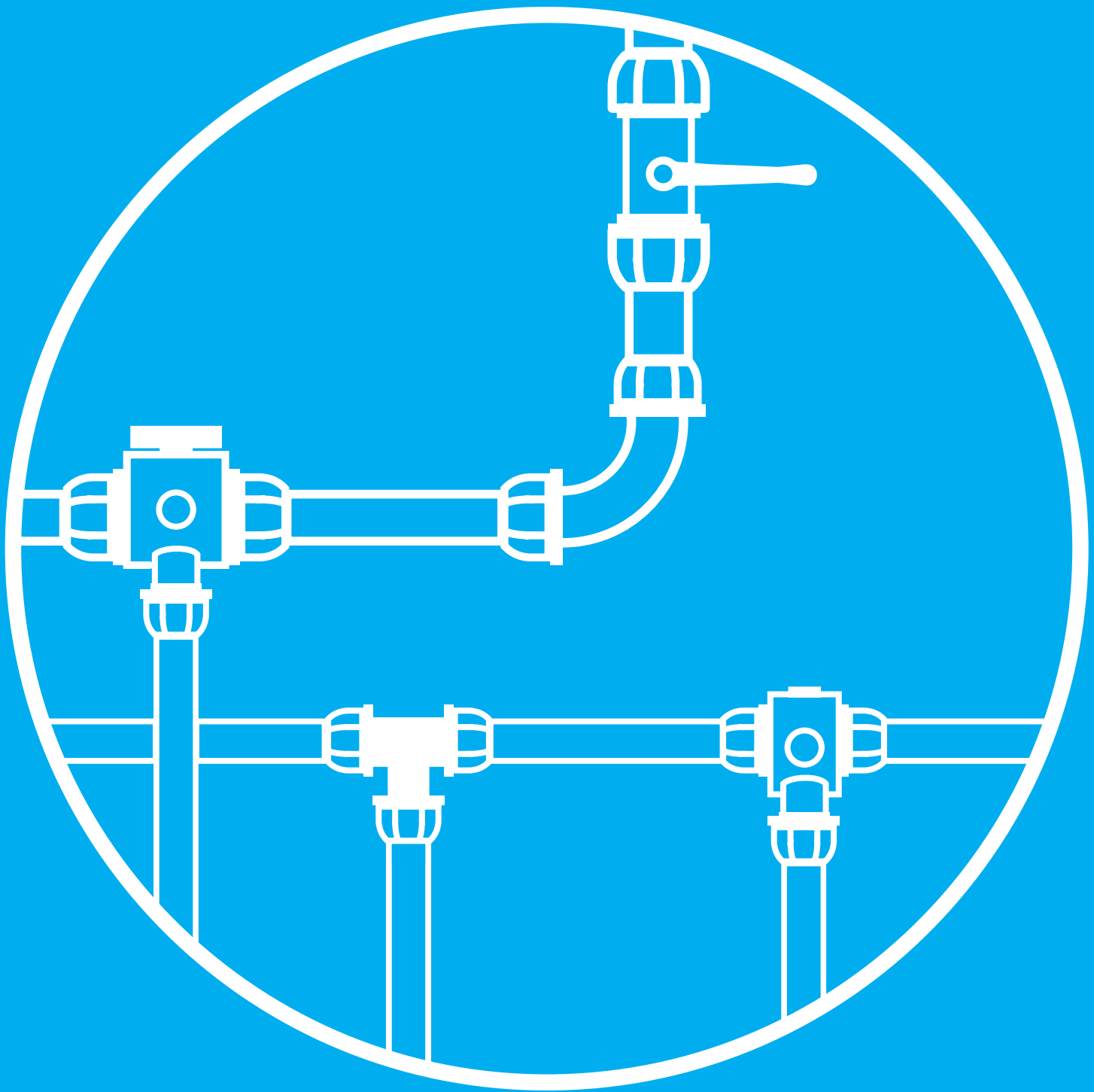
90% of air leaks are generated at the production area. In order to minimize the negative impact of these leaks the **AIR-SAVER** ball valve, installed on the air outlet of the air tank, will:

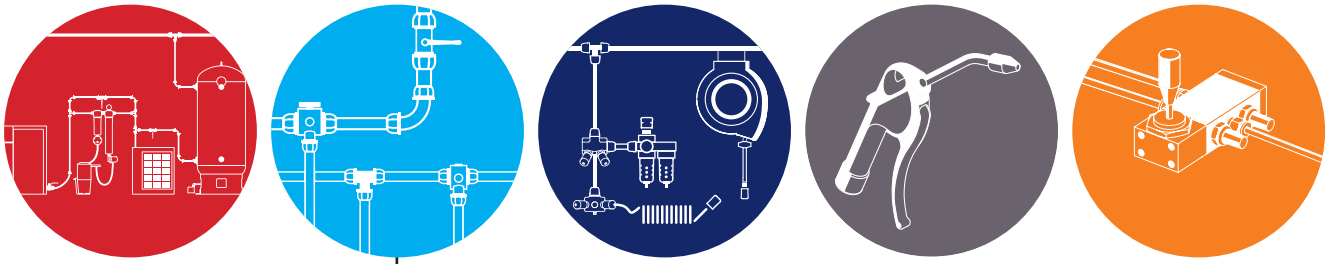
- Automatically OPEN just prior to the work shift
- Automatically CLOSE just after the work shift is over

The content of compressed air within the air tank will be saved rather than lost through pipe work leakages.

Product No	Thread (F) NPT	Opening / Closing Duration
09.690	1	90° / 30 sec
09.692	2	90° / 105 sec

Product No	Description
09.695	Remote switch for AIR-SAVER (16 ft)





Group 2
Compressed Air Piping Systems

S05 to S07 • Compressed Air Piping Systems 70
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S06 • SicoAIR Compressed Air Piping System 86
• SicoAZOTE Nitrogen Piping System 110
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S05•06•07
INTRODUCTION TO COMPRESSED AIR PIPING SYSTEMS



S05•06•07

INTRODUCTION TO COMPRESSED AIR PIPING SYSTEMS

The benefits of choosing an aluminum piping system

Aluminum provides real advantages compared to traditional materials such as iron, galvanized steel and copper. Here are some of the benefits :

1) Smooth interior finish without corrosion (no accumulation of contaminants)
2) Extended useful life of the system due to a cleaner and rust-free surface, providing flow improvements (SCFM) and reducing operating costs.

   Corrosion causes turbulence of the air in the system and consequently, pressure drops.



Traditional pipes rust and accumulate contaminants



Rust causes friction and therefore turbulence air



TOPRING pipes resist to corrosion and do not deteriorate

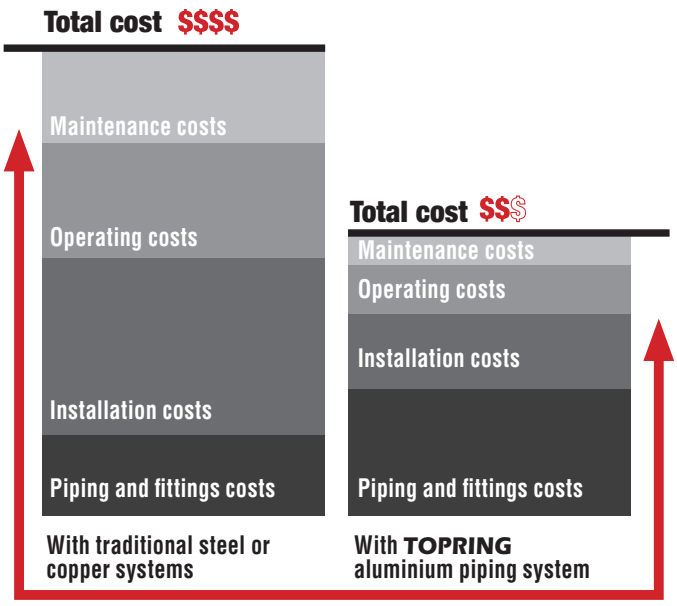


TOPRING aluminum pipes allow air to circulate freely without friction

3) The aluminum tubes are lighter, which reduces the time and effort required to assemble
4) The assembly is four times faster than the conventional method of tapping the pipes, reducing labor and installation costs. **TOPRING** compressed air piping systems are assembled with self-locking or compression fittings.



To see a demonstration of the installation comparisons between a TOPRING system and a steel system, go to the video section on TOPRING.com



S05•06•07

CONFIGURING AN EFFICIENT COMPRESSED AIR SYSTEM

The reality

The main source of inefficiencies affecting compressed air systems is how the network was originaly designed and planned. Problems usually occur between the compressor and the points of use.

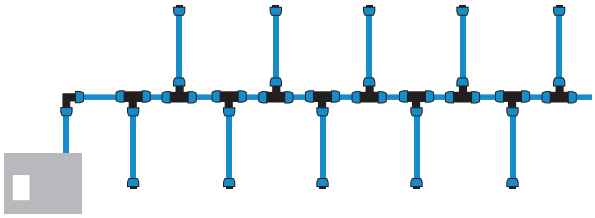
Here are two examples of inefficient networks:

1. The «dead end» network

In a dead-end network, the distance between the compressor and the points of use can be very long.

To preserve a consistent pressure (PSI) at the points of use, the air flow (SCFM) will be to be limited. This is achieved by gradually reducing the diameter of the main network as it distances itself from the compressor.(which reduces the passage of air).

Positioning the equipment and tools in decreasing order of air consumption (SCFM) throughout the route of the compressed air is also required to increase efficiency. The device using the highest flow rate (SCFM) will be nearest to the compressor, and the one requiring the smallest flow will be at the farthest end of the network. This type of network is not recommended.



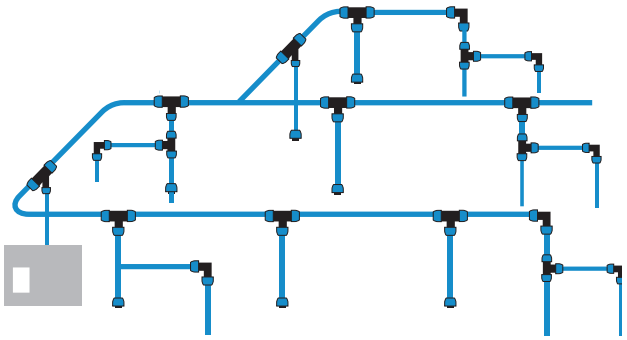
2. The octopus network

An « octopus » network refers to any network that has had unplanned additions or extensions over time and has not been planned effeciently. This type of network does not reflect the initial configuration and presents flow and pressure problems.

The octopus network has several anomalies:

- Use of different materials for air distribution
- Curves, reductions and unplanned expansions restricting the air flow
- Variable pipe diameters creating restrictions
- Installation carried out by unqualified installers

The pressure (PSI) and flow (SCFM) will vary in the network and several problems will need to be resolved to make the network efficient. In addition, changes in air flow resulting from the uses of various tools or pneumatic equipment will make it very difficult to obtain adequate pressure and air flow at a time given. Although frequent, this type of network is highly inefficient.



S05•06•07

CONFIGURING AN EFFICIENT COMPRESSED AIR SYSTEM (CONT'D)

Proper planning of a compressed air piping system is very simple

The objective is to achieve a balance between flow (SCFM) and pressure (PSI) in order to ensure optimal consistency at each service outlets while anticipating future needs and remaining flexible to the changing needs of users.

There are two types of basic network design: closed loop or linear

The best solution remains the closed loop network because it provides the balance between flow (SCFM) and pressure (PSI) required for efficient distribution of compressed air.

The closed loop is the most efficient design since it allows the supply of compressed air to each service outlet using several paths at a time. Thus, the proper balance between flow rate (SCFM) and pressure (PSI) is ensured by a consistant pipe diameter. This type of network can be modified and adapted to provide suitable air to tools and equipment with different consumption needs anywhere on the network.

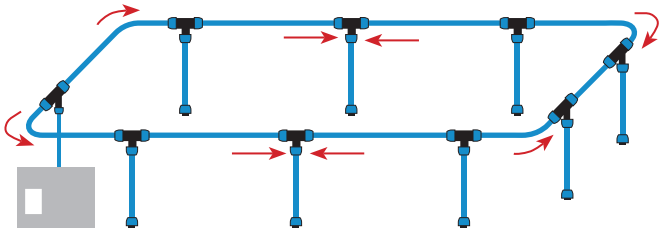
Closed loops can be of any size as long as two or more supply paths are simultaniously providing compressed air to a service outlet

In addition to being easy to plan and modify as needed, this type of network becomes an compressed air tank that:

- Provides constant flow at all times
- Ensures constant pressure everywhere
- Increases the service life of the compressor by limiting its operating time
- Reduces compressor consumption

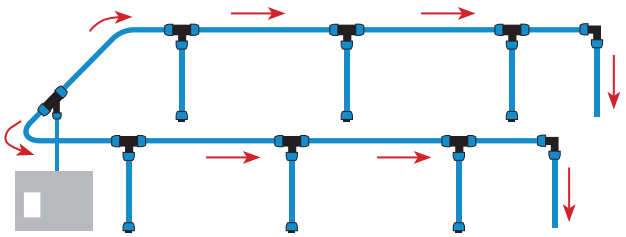
1. Closed loop network

The arrows illustrate air travelling through several lines at a time, providing balanced air pressure and airflow throughout the system. The secondary pipes are supplied by two sources of compressed air. This type of network allows for smaller diameter pipes (reducing the cost).



2. Linear network

The diameter of the network is determined by the total length between the compressor and the farthest point of use.



S05•06•07

DESIGNING A NETWORK

Before installing a compressed air system, there are very important elements to consider.

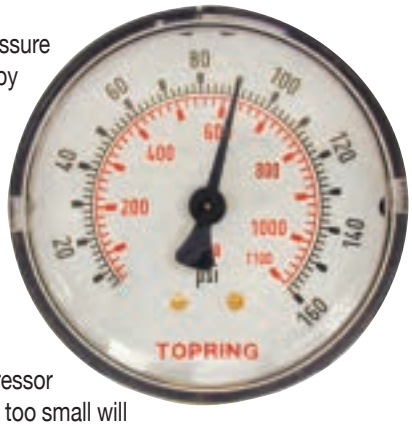
1. Network planning

The project planner must have the layout of the plant or workshop to determine the location of each tool and all of the equipment to be installed.

2. Flow and pressure

Depending on the tools and equipment used, the compressed air requirements will vary. It is important to properly estimate the air requirements to ensure that the piping diameter is sufficient to support the air demand.

To determine the main line secondary pipes diameter, pressure drops must be taken into account. Pressure drops waste energy and are not recoverable. A pressure drop of 87 to 73 PSI will reduce the efficiency by 27%. An increased working pressure of 20 PSI to compensate for a pressure drop will lead to a 10% increase in energy consumption.



The flow capacity is determined by the total length of the main line; the longer the line, the greater the diameter to use in order to maintain the flow rate while minimizing pressure drops. The type of network chosen will also have an impact on the required diameter of the main line and risers.

The diameter of the main line must therefore be sufficient to minimize the pressure losses between the compressor and the point of use. It must never be smaller than that of the compressor outlet, because a network that is too small will increase the air velocity, and water separation will then be more difficult. A larger diameter is advantageous because serving as an air tank, it reduces the demand to the compressor and allows a greater air capacity for future needs.

3. Type of network

Closed loop or linear. See previous section « **CONFIGURING AN EFFICIENT COMPRESSED AIR SYSTEM** ».

4. Number of connections

In order to calculate the equivalent length of the entire network, the connections used must also be taken into account.
Each change in direction, distributor, "T" or line reduction will cause an additional pressure drop equivalent to an addition to the line length. The connections are responsible for most pressure drops. Refer to the table « Equivalent Lengths for Various Connections » in the « Air Systems Planning and Installation Guide » available on **TOPRING**.com.

5. Expansions

Whenever possible, potential network expansions should be taken into account. It will be much easier to make additions to the network if they are planned in advance.

6. Location

It is important to try to plan for the shortest possible distance between the compressor and the air network in order to provide sufficient air for all the tools and equipment.

S05•06•07

DESIGNING A NETWORK (CONT'D)

7. Condensate drainage



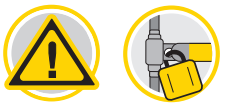
The first step is to properly treat the air at the outlet of the compressor (see Series 56, 49 and 53) and the water vapors circulating in the network. Water can also build-up in the secondary pipes and damage tools and equipment. It is necessary to add an efficient drainage system for each air secondary pipe (see Series 59).

8. Air preparation



Although a closed loop network provides constant flow and pressure, most tools and equipment require different pressure and flow levels to operate properly. Some tools need to be lubricated and some more delicate applications (like paint) require ultra-clean and dry air. It is therefore essential to add filters, regulators and lubricators at each secondary pipes for optimal tool and equipment performance and increase productivity (see Series 50-51-52-54).

9. Maintenance of the system



Ball valves are used in a closed loop network to allow the isolation of certain sections for periodic repairs, connections, expansions and maintenance of the network. For maximum safety, it is strongly recommended to use lockable ball valves to ensure that the system is not inadvertently restarted which could cause personal injury. **TOPRING** offers several padlock security options and are identified by the «safety » and lock-on » pictograms (see Series 09 and 65).

10. Energy savings



AIR-SAVER® programmable ball valves can be installed at the compressor tank outlet and be programmed to open automatically at the start of the shift and automatically closed at the end of the shift, saving energy (no unnecessary start-up of the compressor during periods when compressed air is not required). They also allow a gradual opening of the valve preventing hammer blows when the compressor starts again (see Series 9).

11. Reading the installation guide TOPRING: a must!

Before installing a **TOPRING** system, it is **ESSENTIAL** to read the « Air piping system project planning and Installation Guide ». This guide is available on **TOPRING**.com.

This guide includes:

- Basic installation principles
- Situations to avoid and safety tips
- Factors influencing pressure drops
- Pre-installation tips
- Description of components
- Assembly instructions
- Technical installation standards



Technical support

TOPRING offers services and advice to help you better plan your compressed air network project.
Call a **TOPRING** representative or call 1 800 263-8677 for more details.

S05
AIR LINE
COMPRESSED AIR PIPING SYSTEM



S05
AIR LINE
COMPRESSED AIR PIPING SYSTEM

Features and benefits



- **Easy to install:** Installations can be done by the user, eliminating the need to outsource labor.
- **Quick to install:** With **TOPRING**'s push-to-connect fittings and lightweight tubes, the **AIR LINE** system can be installed more quickly than conventional systems that usualy require welding, soldering and threading of heavy pipes and components
- **No waiting period:** The **AIR LINE** system can be pressurized immediately. No need to wait for glue to dry, for welds to cool down or for leak tests
- **Total flexibility:** The **AIR LINE** system can be modified in a short time and at low cost (modifications, expansions). Fits perfectly with existing air networks
- **Energy savings: AIR LINE** leak-free system can save up 10% of energy consumption from the reduced compressor use. Both the nylon pipe and fittings are designed to reduce the coefficient of resistance and pressure drop, further reducing the consumption of the compressor
- **Anti-corrosion :** The tubes and fittings of the **AIR LINE** system are made of high quality nylon, preventing the formation of rust and contamination for clean compressed air
- **Performance:** The **AIR LINE** system has a smooth tube bore which reduces friction and contributes high flow rates as well as low pressure drops
- **Light weight:** A fraction of the weight of steel or black iron pipes
- **Completely reusable: AIR LINE** components are easy to remove and re-install

Applications

Workshops, garages, manufacturing plants and vacuum applications

Specifications

Working Temperature: 0 to 70 °C

Maximum Working Pressure: 145 PSI (23 °C) • 100 PSI (70 °C)

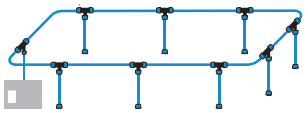
The **AIR LINE** system is approved for installation as a compressed air distribution system by the RBQ (***Régie du bâtiment***) and meets UL Norm 94 V2 requirements.

S05
AIR LINE
MINIMUM DIAMETER PIPE SIZING FOR A COMPRESSED AIR NETWORK

HOW TO DETERMINE MINIMUM DIAMETER PIPE SIZING:

1. Identify network type: closed loop or dead end
2. Calculate total length of the network (feet)
3. Determine total flow required (SCFM)
4. Use the charts below in order to identify the proper diameter size

Minimum diameter pipe sizing for a closed loop network

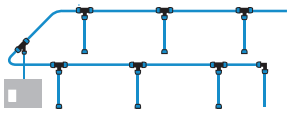


TOTAL LENGTH OF NETWORK (FEET)

TOTAL FLOW REQUIRED

SCFM \ FEET	100'	150'	200'	250'	300'	400'	500'	600'	700'	800'	900'	1000'	1250'	1500'	2000'
5	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
10	15	15	15	15	15	15	15	15	15	15	15	15	22	22	22
15	15	15	15	15	15	15	15	22	22	22	22	22	22	22	22
20	15	15	15	15	15	22	22	22	22	22	22	22	22	22	22
30	15	22	22	22	22	22	22	22	22	22	22	22	28	28	28
40	22	22	22	22	22	22	22	22	28	28	28	28	28	28	28
60	22	22	22	22	28	28	28	28	28	28	28	28	28	28	
80	22	22	28	28	28	28	28	28	28	28	28				
100	22	28	28	28	28	28	28	28							
125	28	28	28	28	28										
150	28	28	28	28			REFER TO SERIES 6 OR 7								
200	28	28													

Minimum diameter pipe sizing for a dead end network



TOTAL LENGTH OF NETWORK (FEET)

TOTAL FLOW REQUIRED

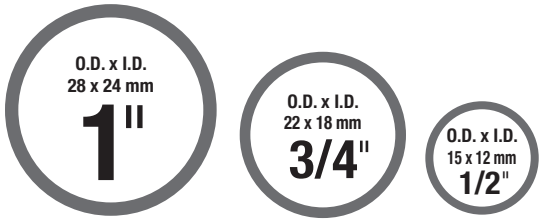
SCFM \ FEET	25'	50'	75'	100'	150'	200'	250'	300'	400'	500'	600'	700'	800'	900'	1000'
5	15	15	15	15	15	15	15	15	15	15	15	22	22	22	22
10	15	15	15	15	15	22	22	22	22	22	22	22	22	22	22
15	15	15	22	22	22	22	22	22	22	22	28	28	28	28	28
20	15	22	22	22	22	22	22	22	28	28	28	28	28	28	28
30	22	22	22	22	28	28	28	28	28	28	28	28	28		
40	22	22	22	28	28	28	28	28	28						
60	22	28	28	28	28	28									
80	28	28	28	28											
100	28	28	28												
125	28														
150	28						REFER TO SERIES 6 OR 7								
200															

- Calculations based on total maximum pressure drop (△P) of no more than 3 PSIG for the entire network, at 100 PSIG and 15°C
- Total flow required takes account of all flows for all compressed air powered tools and equipment
- A typical compressor will produce approximately 4 SCFM per HP

S05
AIR LINE
SEMI-RIGID
POLYAMIDE PIPES

Features and benefits

- Available in 3 different pipe sizes: 15 mm (1/2 in), 22 mm (3/4 in) and 28 mm (1 in)
- Low friction for high flow
- Prevent the formation of rust
- Lightweight for ease of manipulation
- Calibrated pipes for leakproof connections



- **CALIBRATED**
- **LIGHTWEIGHT**
- **ANTI-CORROSION**

Material

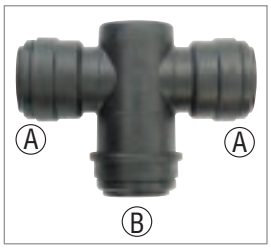
Polyamide 12 (PA12) - Self extinguishing



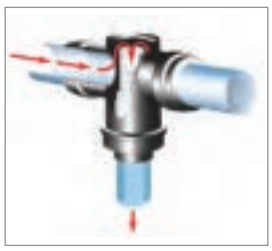
Product No	Size I.D.	Size O.D.	Lenght m	Lenght ft	Weight kg
05.042	12	15	4	13	0.59
05.062	18	22	4	13	1.17
05.072	24	28	4	13	1.53

WATER TRAP TEE

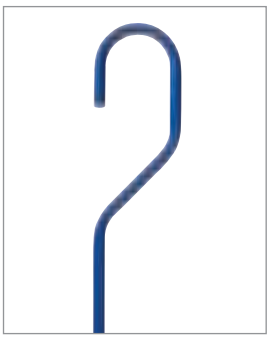
Ideal for tapping air off a main line without allowing water to get into the drop



Product No	Pipe Size mm (A)	Pipe Size mm (B)
05.079	22	15
05.080	22	22
05.083	28	15
05.084	28	22
05.085	28	28



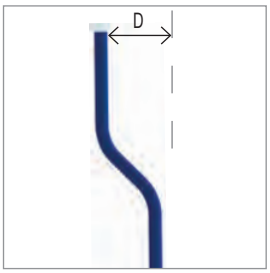
- Stops condensed water within the main air line from entering the vertical drop legs
- It is important that the main air line is installed with the correct slope, and that water drain points are regularly vented



PREFORMED DROP BEND PIPE

Product No	Pipe Size mm
07.130	15
07.135	22

- Special aluminium alloy
- Ideal for tapping air off a main line without allowing water to get into the drop



DEVIATION PIPE

Product No	Pipe Size mm	D mm
07.131	15	80
07.136	22	100

- Special aluminium alloy
- Ideal for getting around obstacles and correcting minor alignment problems

S05
AIR LINE
PUSH-TO-CONNECT FITTINGS (15 and 22 mm)

Innovative push-to-connect technology makes assembly fast and easy.

Features and benefits

- Suitable for nylon and aluminium pipes
- Made of tough, resistant acetal copolymer plastic
- Push-to-connect design allows quick assembly
- Stainless steel gripping teeth for reliability and high pressure handling
- No soldering, no threading, no sealing required
- Full flow design
- Fully reusable

Materials

Body:
Black acetal copolymer

Seal: Nitrile rubber

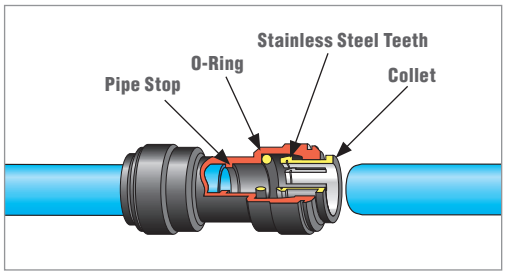
Clamp:
Black acetal copolymer

Gripping Teeth :
Stainless steel



Quick and easy to assemble





THREE EASY STEPS TO MAKE A CONNECTION

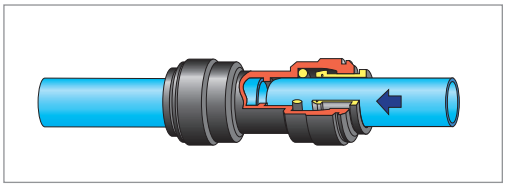
Fittings and pipes should be kept clean and undamaged before use.

Cut the pipe square. The use of a pipe cutter is recommended. (See Series 36)

To avoid damage to the o-ring remove burrs and sharp edges.

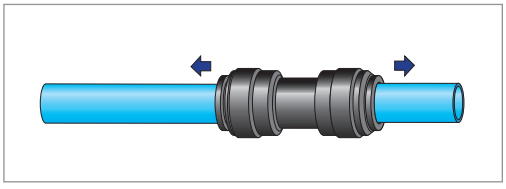
STEP 1

Push in to pipe stop.



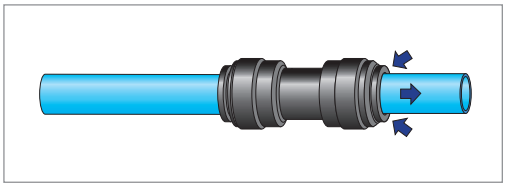
STEP 2

Pull to make sure that pipe is secure. Test the system before use.



STEP 3

To disconnect, ensure the system is depressurised. Push the collet towards the fitting and remove the pipe. The fitting can be reused.



S05
AIR LINE
PUSH-TO-CONNECT FITTINGS (28 mm)

Innovative push-to-connect technology makes assembly fast and easy.

Features and benefits

- Suitable for nylon and aluminium pipes
- Made of tough, resistant acetal copolymer plastic
- Push-to-connect design allows quick assembly
- Stainless steel gripping teeth for reliability and high pressure handling
- No soldering, no threading, no sealing required
- Full flow design
- Fully reusable

Materials

Body:
Black acetal copolymer

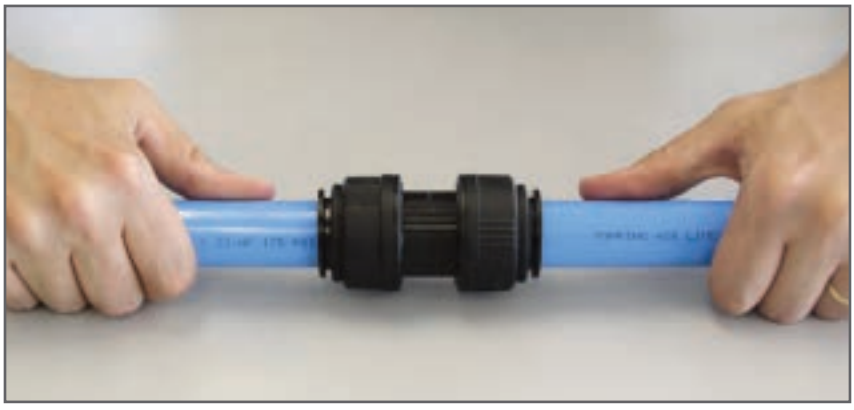
Seal: Nitrile rubber

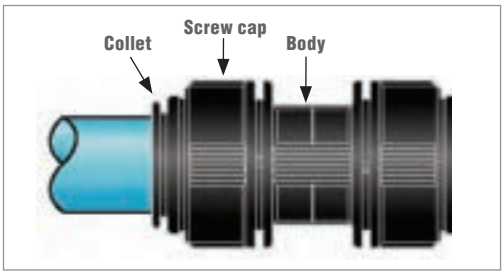
Clamp:
Black acetal copolymer

Gripping teeth :
Stainless steel



Quick and easy to assemble





THREE EASY STEPS TO MAKE A CONNECTION

Fittings and pipes should be kept clean and undamaged before use.

Cut the pipe square. The use of a pipe cutter is recommended (see page 84).

To avoid damage to the o-ring remove burrs and sharp edges.

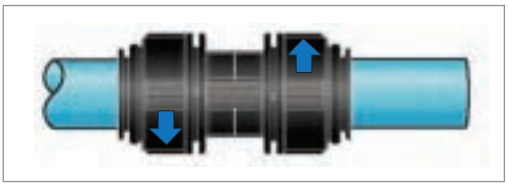
STEP 1

Push in to pipe stop.



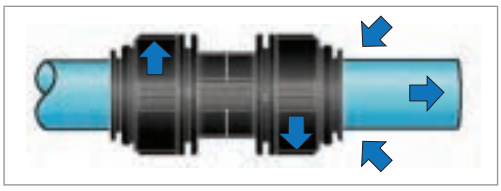
STEP 2

After inserting the pipe, turn screw cap approx 1/4 turn. This locks the collet in place and reduces lateral and sideways movement of the pipe.



STEP 3

To disconnect, turn the screw cap 1/4 turn, push in the collet and remove the pipe. The fitting and pipe can be reused.



S05
PUSH-TO-CONNECT FITTINGS



MALE CONNECTOR (NPT)

Product No	Size mm	Thread (M) NPT
05.116	15	1/2
05.121	22	3/4
05.125	28	1



MALE CONNECTOR (BSPP)

Product No	Size mm	Thread (M) BSPP
05.115	15	1/2
05.120	22	3/4



UNION REDUCER TEE

Product No	Size mm (A)	Size mm (B)
05.170	22	15



TEE UNION

Product No	Size mm
05.160	15
05.165	22
05.168	28



WATER TRAP TEE

Product No	Size mm (A)	Size mm (B)
05.079	22	15
05.080	22	22
05.083	28	15
05.084	28	22
05.085	28	28



END CAP

Product No	Size mm
05.230	15
05.235	22



STRAIGHT UNION

Product No	Size mm
05.130	15
05.135	22
05.140	28



90° ELBOW UNION

Product No	Size mm
05.145	15
05.150	22
05.155	28



FEMALE REDUCER

Product No	Size mm (A)	Size mm (B)
05.210	15	22
05.212	15	28
05.215	22	28



MALE REDUCER

Product No	Size mm (A)	Thread (M) BSPP (B)
05.185	15	3/8
05.190	15	1/2
05.195	22	1/2
05.200	22	3/4
05.205 *	28	1 NPT

* Brass



STEM ELBOW

Product No	Size mm
05.365	15
05.370	22



PLUG

Product No	Size mm
05.220	15
05.225	22
05.227	28

S05
COMPOSITE MANIFOLDS

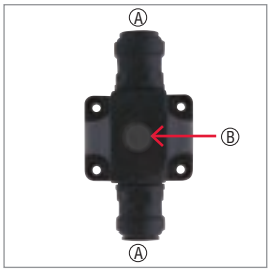
Specifications

Maximum Working Pressure: 145 PSI

Working Temperature: 0 to 70 °C



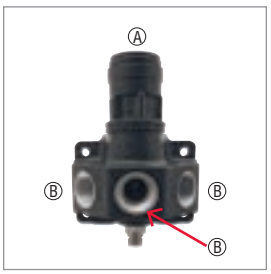
Product No	Size mm Ⓐ	Outlet (F) NPT Ⓑ
05.450	15	3/8



Product No	Size mm Ⓐ	Outlet (F) NPT Ⓑ
05.455	15	3/8



Product No	Size mm Ⓐ	Outlet (F) NPT Ⓑ
05.470	15	1/2
05.475	22	1/2



Product No	Size mm Ⓐ	Outlet (F) NPT Ⓑ
05.480	22	1/2



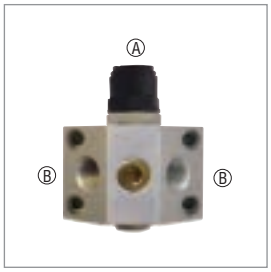
Product No	Size mm Ⓐ	Outlet (F) NPT Ⓑ
05.487	15	1/2
05.489	22	1/2

ALUMINIUM MANIFOLDS

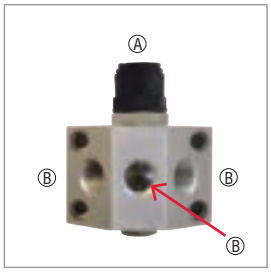
Specifications

Maximum Working Pressure: 145 PSI

Working Temperature: 0 to 70 °C



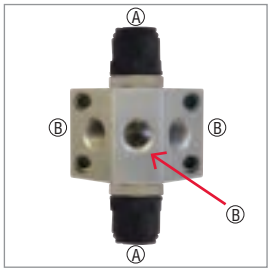
Product No	Size mm Ⓐ	Outlet (F) NPT Ⓑ
05.492	15	3/8 (2x)
05.496	22	3/8 (2x)



Product No	Size mm Ⓐ	Outlet (F) NPT Ⓑ
05.494	15	3/8 (3x)
05.498	22	3/8 (3x)



Product No	Size mm Ⓐ	Outlet (F) NPT Ⓑ
05.493	15	3/8 (2x)
05.497	22	3/8 (2x)



Product No	Size mm Ⓐ	Outlet (F) NPT Ⓑ
05.495	15	3/8 (3x)
05.499	22	3/8 (3x)

SPACERS FOR COMPOSITE MANIFOLDS



Product No	Thickness mm	Compatible with manifolds
47.122	9	1 outlet
47.118	10	2/3 outlets
47.119	13	2/3 sorties
47.120	20	2/3 outlets
47.121	10	4 outlets

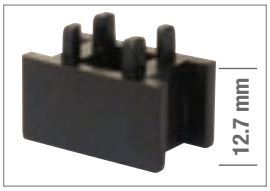
S05
MOUNTING CLIPS



PIPE CLIP FOR WALL MOUNTING

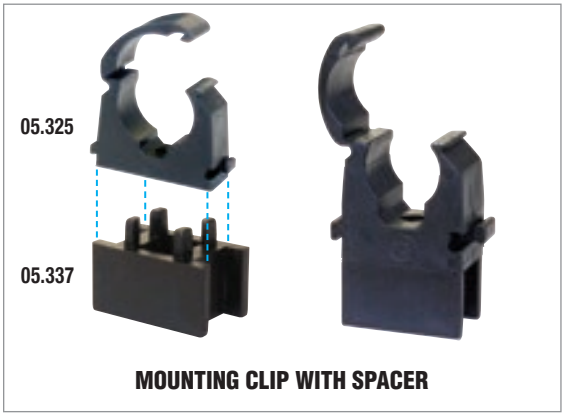
Product No	Size mm ○
05.325	15
05.330	22
05.335	28

Adding horizontal or vertical mounting clips can be done simply without having to cut the pipe



MOUNTING BRACKET SPACER

Product No	Thickness
05.337	1/2 in (12.7 mm)



MOUNTING CLIP WITH SPACER

PIPE CUTTERS



PIPE CUTTER

Product No	Description
36.100	Pipe cutter
36.105	Replacement blades (x2)

Allows effortless cutting of nylon pipes up to 41 mm (1-5/8 in) O.D. straight, even and accurate cutting

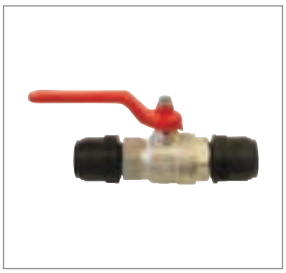


BATTERY-OPERATED PIPE CUTTER

Product No	Description
36.020	Pipe cutter

Allows effortless cutting of nylon pipes and hose up to 42 mm

COMPLEMENTARY PRODUCTS



BRASS BALL VALVE

Product No	Size mm ○	Fitting Material
05.400	15	Acetal
05.405	22	Brass
05.410	28	Brass



MECHANICAL AUTOMATIC DRAIN

Product No	Size mm ○	Fitting Material
05.501	15	Acetal
05.506	22	Acetal

With brass ball valve, fittings and strainer



MANUAL DRAIN

Product No	Size mm ○	Fitting Material
05.500	15	Acetal
05.505	22	Brass

With brass ball valve, fittings and hose

AIR LINE

COMPRESSED AIR PIPING SYSTEM

RELIABLE AND LEAK-FREE

immediate use after installation

ENERGY SAVINGS

LIGHT WEIGHT

Fast and easy installation

CORROSION-FREE

COMPLETELY REUSABLE







S06

SicoAIR

COMPRESSED AIR PIPING SYSTEM

SicoAZOTE

NITROGEN PIPING SYSTEM



S06
TOPRING SicoAIR
COMPRESSED AIR PIPING SYSTEM
FEATURES AND BENEFITS

Clean air and optimum efficiency

- Aluminum pipes ensure the absence of corrosion (which is not the case for conventional steel or galvanized steel systems)
- Aluminum pipes, combined with adequate air treatment, prolong the service life of the equipement and of the filters
- With the total absence of corrosion in the aluminum pipes, the air turbulence is eliminated, allowing a constant air flow and reduced pressure drops

Easy to install

- The installation is 50% to 75% faster than a conventional steel system, thanks to the screwed connections (no welding, soldering and threading of heavy components)
- **SicoAIR** pipes and fittings can be assembled by a single installer
- **SicoAIR** pipes and fittings are lighter than conventional steel or black iron system
- The twin take-off drop fittings make it possible to install air drops on the main line simply and quickly, even if the system is pressurized



See the video on **TOPRING**.com « SicoAIR vs. steel pipe installation »

Economical

- Saves energy: Calibrated aluminum pipes assembled with compression fittings eliminate air leakage, reducing energy costs by up to 10%. They also allow high air flow rates and low pressure drops because the smooth interior of the pipes and fittings reduces friction losses
- Substantial reduction in installation costs which often include more labor costs than materials
- Reduces production downtime when installing or adding components
- Reduces maintenance costs

Easy to modify or extend

- The **SicoAIR** system is easily removable and reusable: it can be reinstalled elsewhere without damaging its components

S06



CERTIFICATIONS

TÜV Certification

- A product certified TÜV is a pledge of safety and quality.
- The group TÜV thus certifies independent test results - in particular, the properties of the products and the standards whereby they were examined.

ASME B31.3

- Meets the requirement of ASME B31.3

  This code prescribes requirements for material and components, design, fabrication, assembly, erection, examination, inspection, and testing of piping.

Canadian Registration Number

- CRN number valid for all Canadian provinces.

QUALICOAT Certification

- QUALICOAT certification is a guarantee of the quality of the lacquer finish applied to aluminium pipe.

ISO 9001: 2008

- Manufactured under ISO quality management system.

SPECIFICATIONS

Fluids

- Compressed air (dry, wet, lubricated)
- Nitrogen (**TOPRING** SicoAZOTE)

Maximum Working Pressure

- Pipes: 217 PSI (15 BAR)
- Fittings: 181 PSI (12.5 BAR)

Normal Working Pressure

- 181 PSI (12.5 BAR)

Vacuum Level

- 80% (29.6 "Hg)

Working Temperature

- -20 °C to 70 °C

Resistance to

- Corrosion
- Aggressive environments
- Thermal variations
- UV
- Mineral and synthetic oils for compressor

Environment

- Materials used to produce the pipes and fittings are 100% recyclable
- All pipes and fittings are guaranteed silicone-free

S06

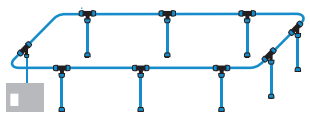
PRE-INSTALLATION

GUIDE TO DETERMINE THE MINIMUM DIAMETER PIPE SIZING FOR A COMPRESSED AIR NETWORK

1. Identify the type of network: closed loop or dead-end
2. Calculate the total length of the line (feet)
3. Determine the total flow required (SCFM)
4. Use the charts below in order to identify the proper diameter size

- Calculations based on total maximum pressure drop (△P) of no more than 3 PSIG for the entire network, at 100 PSIG at 15.5 °C
- Total flow required takes account of all flows for all compressed air powered tools and equipment
- Note that a typical compressor will produce approximately 4 SCFM per HP

Minimum diameter pipe sizing for a closed loop network

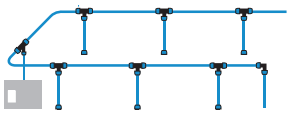


TOTAL LENGTH OF THE NETWORK (FEET)

TOTAL FLOW REQUIRED

SCFM \ FEET	100'	150'	200'	250'	300'	400'	500'	600'	700'	800'	900'	1000'	1250'	1500'	2000'
5	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
10	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
15	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	25
30	20	20	20	20	20	20	20	20	20	20	25	25	25	25	25
40	20	20	20	20	20	20	25	25	25	25	25	25	25	25	32
60	20	20	20	25	25	25	25	25	25	25	32	32	32	32	32
80	20	25	25	25	25	25	32	32	32	32	32	32	32	32	32
100	25	25	25	25	25	32	32	32	32	32	32	32	32	40	40
125	25	25	32	32	32	32	32	32	32	32	40	40	40	40	40
150	25	32	32	32	32	32	32	40	40	40	40	40	40	40	40
200	32	32	32	32	32	40	40	40	40	40	40	40	50	50	50
300	32	40	40	40	40	40	40	50	50	50	50	50	50	50	63
400	40	40	40	40	40	50	50	50	50	50	50	63	63	63	63
500	40	40	50	50	50	50	50	50	63	63	63	63	63	63	63
750	50	50	50	50	63	63	63	63	63	63	63	63			
1000	50	50	63	63	63	63	63								
1500	63	63	63	63											

Minimum diameter pipe sizing for a dead end network



TOTAL LENGTH OF THE NETWORK (FEET)

TOTAL FLOW REQUIRED

SCFM \ FEET	25'	50'	75'	100'	150'	200'	250'	300'	400'	500'	600'	700'	800'	900'	1000'
5	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
10	20	20	20	20	20	20	20	20	20	20	20	20	20	20	25
15	20	20	20	20	20	20	20	20	20	25	25	25	25	25	25
20	20	20	20	20	20	20	25	25	25	25	25	25	25	25	32
30	20	20	20	20	25	25	25	25	25	32	32	32	32	32	32
40	20	20	25	25	25	25	32	32	32	32	32	32	32	32	32
60	20	25	25	25	32	32	32	32	32	40	40	40	40	40	40
80	25	25	32	32	32	32	32	40	40	40	40	40	40	40	50
100	25	32	32	32	32	40	40	40	40	40	40	50	50	50	50
125	32	32	32	32	40	40	40	40	50	50	50	50	50	50	50
150	32	32	40	40	40	40	40	50	50	50	50	50	50	63	63
200	32	40	40	40	40	50	50	50	50	63	63	63	63	63	63
300	40	40	50	50	50	50	63	63	63	63	63	63	63		
400	40	50	50	50	63	63	63	63	63						
500	50	50	50	63	63	63	63								
750	50	63	63	63											
1000	63	63													
1500	63														

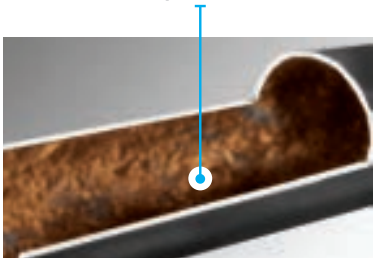
! WARNING

Installation of **TOPRING** SicoAIR compressed air piping system must be made according to the assembly instructions as indicated in the installation guide. Carefully read the installation guide prior proceeding.

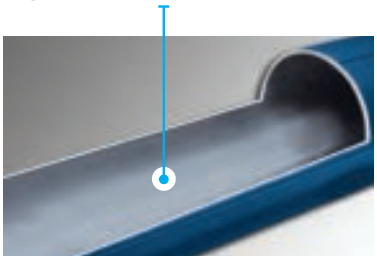
S06
TOPRING SicoAIR
RIGID ALUMINIUM PIPES

- Available in 6 sizes: 20, 25, 32, 40, 50 and 63 mm
- Tubular extruded aluminium pipes
- Calibrated aluminium pipes for perfect and leak-free assembly with fittings
- Lightweight
- Smooth, clean and corrosion resistant
- Fast and easy installation
- Can be installed on an existing compressed air system with NPT adapters
- QUALICOAT certified powder-coated blue paint for compressed air identification
- Suitable for compressed air, vacuum and nitrogen

Traditional pipes corrode and allow contaminant build-up



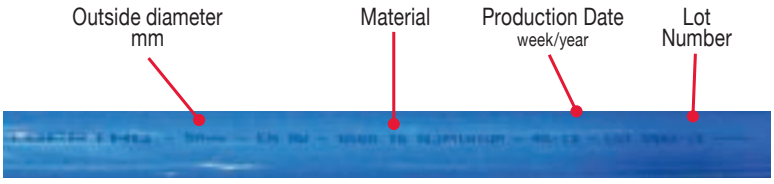
TOPRING pipes resist corrosion and stay clean over time



Specifications

- Materials:

  Aluminium extrusion alloy EN AW-6060 T6 with inside and outside titanium-based, chrome-free and RoHS-complying treating and electrocoated outside surface
- Color: Blue RAL 5015
- Manufacturing process: Seamless extrusion process
- Marking:

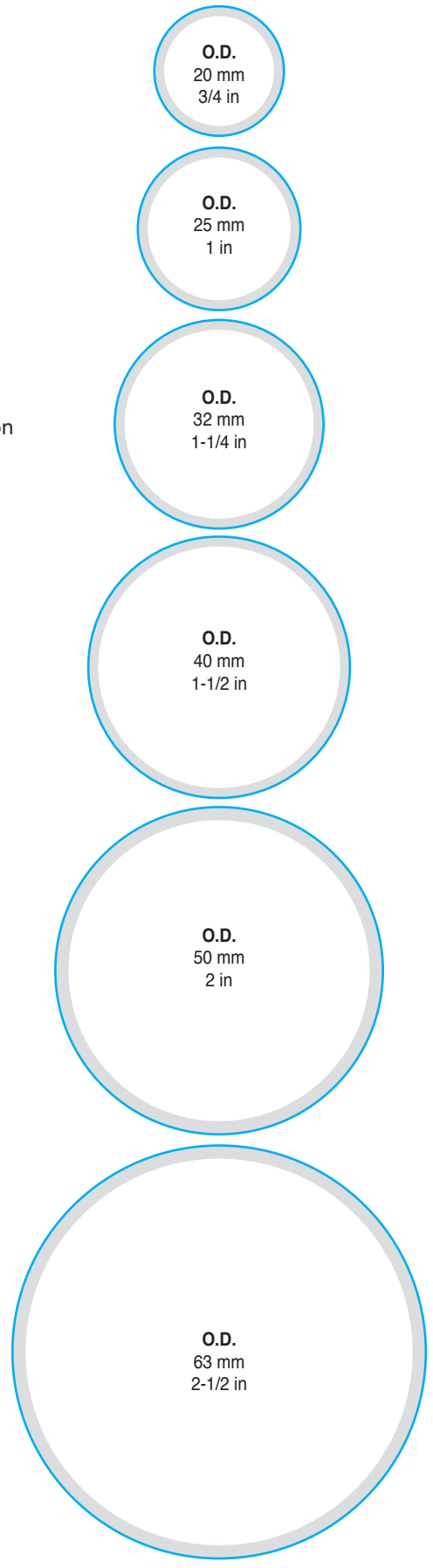


GOOD TO KNOW

The use of **TOPRING** SicoAZOTE green pipes and fittings is recommended to easily identify the network using nitrogen from the compressed air network

See page 110





S06
TOPRING SicoAIR

FITTINGS

- Quick installation: quick and easy assembly of the pipes, thanks to the compression fittings
- Polyamide compression fittings
- High resistance to corrosion, mechanical shocks and thermal variations
- Smooth internal finish
- Quick branch drop leg fitting can be installed anywhere in the piping network

TOPRING SicoAIR fitting design







1. STRONG INTERNAL GRIP DESIGN
   Stainless steel clinch ring increasing grip, strength and safety
2. DISTINCTIVE NUT DESIGN
   The grooves on the nut allow you to use the spanner wrench for safe tightening without damaging the nut
3. EXCLUSIVE BODY DESIGN
   Inner body design and large diameter minimizes the flow resistance and pressure drop
4. PRECISE ALIGNMENT GUIDE
   Nut design allows pipe insertion with perfect alignment
5. PARTS IDENTIFICATION
   - **TOPRING** SicoAIR reference
   - Diameter engraved for easy identification of size
   - Nominal pressure

Download the SicoAIR brochure on TOPRING.com

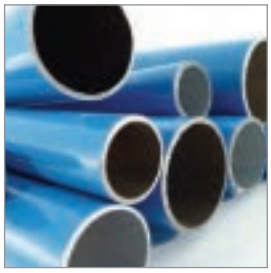
• Basics • Technical specifications • Parts and accessories • Typical installation

Available in English and French



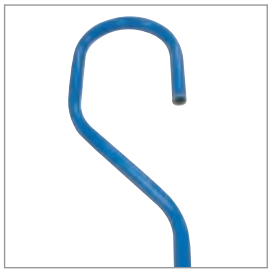
S06
TOPRING SicoAIR

PIPES



RIGID ALUMINIUM PIPE

Product No	Size mm	Size inch	Length m	Length ft	Weight kg
06.100	20	3/4	4	13	0.9
06.102	20	3/4	6	20	1.4
06.105	25	1	4	13	1.2
06.107	25	1	6	20	1.8
06.110	32	1-1/4	4	13	1.5
06.112	32	1-1/4	6	20	2.3
06.117	40	1-1/2	6	20	3.1
06.122	50	2	6	20	5.1
06.127	63	2-1/2	6	20	6.5

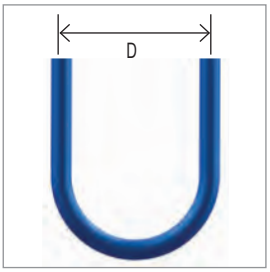




PREFORMED DROP BEND

Product No	Size mm	Size inch
06.130	20	3/4
06.135	25	1

- Special aluminium alloy
- Ideal for tapping air off a main line without allowing water to get into the drop

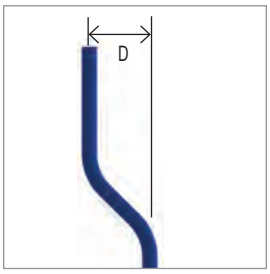




"U" PIPE

Product No	D mm	Size mm	Size inch
06.132	145	20	3/4
06.137	175	25	1

- Special aluminium alloy
- Ideal to bypass obstacles with minimum pressure drop

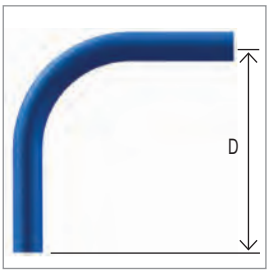




DEVIATION PIPE

Product No	D mm	Size mm	Size inch
06.131	80	20	3/4
06.134	175	20	3/4
06.136	100	25	1
06.139	215	25	1

- Special aluminium alloy
- Ideal to bypass obstacles and correcting minor alignment problems
- Often used to offset drop legs closer to the mounting surface





90° ANGLE PIPE

Product No	D mm	Size mm	Size inch
06.133	140	20	3/4
06.138	145	25	1

- Special aluminium alloy
- Ideal to bypass obstacles with minimum pressure drop

S06
TOPRING SicoAIR
FLEXIBLE HOSES



Typical installation



FLEXIBLE RUBBER ANTI-VIBRATION HOSE

Length 24 in	Length 48 in	Fittings (M) NPT	Hose I.D. in	Minimum Bend Radius in
Product No	Product No			
09.200	09.220	1/2	1/2	7
09.202	09.222	3/4	3/4	9-1/2
09.204	09.224	1	1	12
09.206	09.226	1-1/4	1-1/4	16-1/2
09.208	09.228	1-1/2	1-1/2	19-11/16
09.210	09.230	2	2	25

Features and benefits

- Designed for bypassing obstacles and/or overcoming misalignments of airlines
- Ideal for connecting a compressor outlet to an airline system
- Expansion loops
- Adaptable to all building configurations
- Corrosion-proof rubber hose, good for most environments
- Resists mineral and synthetic oils, heat and weathering
- Extends compressor and airline system life by reducing stress from vibrations and misalignments

Materials

Cover: Oil resistant synthetic rubber

Inner tube: Oil and heat-resistant rubber

Reinforcement: Single braid high tensile steel wire

Specifications

Maximum working pressure : 500 PSI

Working temperature: -40 °C to 100 °C



Typical installation



HIGH TEMPERATURE FLEXIBLE STAINLESS STEEL ANTI-VIBRATION HOSE

Length 12 in	Length 24 in	Fittings (M) NPT	Maximum Misalignment in	Maximum Working Pressure PSI at 21 °C
Product No	Product No			
09.100	09.120	1/2	1-3/4	1137
09.102	09.122	3/4	2-3/4	910
09.104	09.124	1	3-1/2	711
09.106	09.126	1-1/4	4-1/2	568
09.108	09.128	1-1/2	5	426
09.110	09.130	2	7-5/8	398

Features and benefits

- Corrugated flexible stainless steel hose is designed to minimize vibration and heat coming from the compressor
- Protects downstream airline system from vibration shocks
- Meets ISO 10380 specifications

Materials

Hose and Braid: Stainless steel

Fitting: Steel (Stainless steel available upon request)

Specifications

Working temperature: -40 °C to 250 °C

Maximum working pressure : See table above

FEMALE UNION
(3 PIECES)

Product No	Thread (F) NPT
41.368	1/2
41.369	3/4
41.370	1
41.371	1-1/4
41.373	2



To minimize possible torque damage to a hose, a union or floating flange, should be used at one end of the hose assembly

Maximum working pressure: 150 PSI

S06
TOPRING SicoAIR
UNION CONNECTIONS • ELBOW UNIONS



STRAIGHT UNION

Product No	Size mm ○
06.302	20
06.307	25
06.312	32
06.315	40
06.317	50
06.320	63





90° ELBOW UNION

Product No	Size mm ○
06.262	20
06.267	25
06.272	32
06.275	40
06.277	50
06.280	63





REDUCING UNION

Product No	Size mm ○ ①	Size mm ○ ②
06.308	25	20
06.313	32	25
06.316	40	32
06.318	50	40
06.321	63	50





45° ELBOW UNION

Product No	Size mm ○
06.282	20
06.283	25
06.284	32
06.285	40
06.286	50
06.287	63



S06
TOPRING SicoAIR
TWIN TAKE-OFF DROP COUPLINGS



Product No	Size mm	Outlet (F) BSPP
06.050	25	1/2
06.055	32	1/2
06.060	40	1/2
06.065	50	1
06.070	63	1



Product No	Size mm ①	Size mm ②
06.052	25	20
06.053	25	25
06.057	32	20
06.058	32	25
06.062	40	20
06.063	40	25
06.067	50	20
06.068	50	25
06.069	50	32
06.072	63	20
06.073	63	25
06.074	63	32

Typical installation



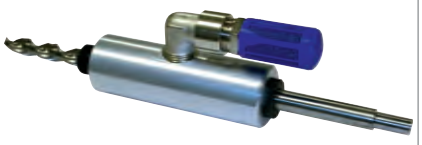
Features and benefits

- Prevents water in the main line from getting into drops
- Makes drop installation fast and easy
- The system does not need to be depressurized for drop installation
- No need to plan drops before the main line installation
- Can be installed anywhere along any compatible airline
- Side connection point prevents water from getting into drops
- Saddle-type hinged drop coupling mounts simply over existing main lines
- Two connection points for flexibility
- Aluminium threaded inserts for leak-proof connections
- Unique design allows installation under pressure with pressurized system drilling tool (see page 108):
  - Prevents chips and debris from getting into the main line during the installation
  - Built-in drill guide





Can be installed on pressurized air networks by using the proper tools (see page 108). Drop installations on new or existing compressed air networks without cutting pipe



See videos on **TOPRING**.com

- Video demonstration with **PRESSURIZED** compressed air system
- Video demonstration with **NON-PRESSURIZED** compressed air system

S06
TOPRING SicoAIR

WATER TRAP TEES



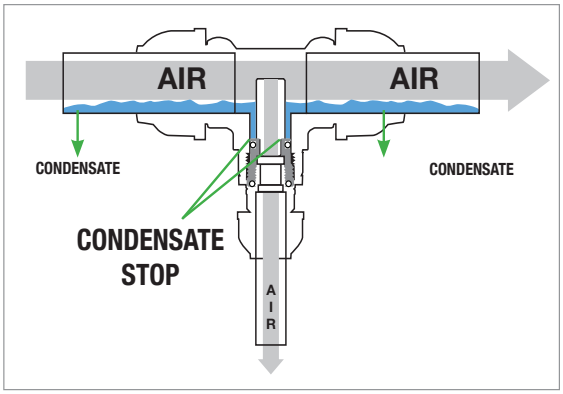
Product No	Size mm ①	Size mm ②
06.970	40	20
06.971	40	25
06.972	50	20
06.973	50	25
06.974	50	32
06.975	50	40
06.976	63	20
06.977	63	25
06.978	63	32
06.979	63	40
06.980	63	50

Typical installation



Features and benefits

- Makes drop installation fast and easy
- Prevents water in the main line from going into drops
- Makes drop installations on new or existing compressed compatible air networks



THREADED DROP CONNECTIONS



Product No	Size mm	Outlet (F) BSPP
06.080	25	1/2
06.084	32	1/2
06.086	32	3/4
06.090	40	1/2
06.092	40	3/4

Typical installation



Features and benefits

- Makes drop installation fast and easy
- No need to plan drops before the main line installation
- Saves time during installation
- Drop connection mounts simply over existing **TOPRING** SicoAIR main lines
- Can be installed anywhere along a compatible airline
- Aluminium threaded inserts for leak-proof connections

Applications

For rigid drops with horizontal take off or for all types of air supply with rigid pipe on an installation which incorporates an efficient air dryer

Makes drop installations on new or existing compressed air networks without cutting pipe

S06
TOPRING SicoAIR
TEES • REDUCERS



EQUAL TEE

Product No	Size mm
06.332	20
06.337	25
06.342	32
06.345	40
06.347	50
06.350	63





REDUCING TEE

Product No	Size mm ①	Size mm ②
06.385	25	20
06.386	32	20
06.387	32	25
06.388	40	20
06.389	40	25
06.390	40	32
06.391	50	20
06.392	50	25
06.393	50	32
06.394	50	40
06.395	63	20
06.396	63	25
06.397	63	32
06.398	63	40
06.399	63	50





THREADED REDUCING TEE BSPP

Product No	Size mm	Thread (F) BSPP
06.338	25	1/2
06.343	32	3/4
06.346	40	1
06.348	50	1-1/2
06.351	63	2



THREADED REDUCER BSPP

Product No	Thread (M) BSPP	Thread (F) BSPP
06.916	3/4	1/2
06.918	1	1/2
06.920	1-1/2	1/2
06.922	1-1/2	1
06.924	2	1/2
06.926	2	1
06.928	2	1-1/2



THREADED PLUG-IN REDUCER BSPP

Product No	Size mm	Thread (F) BSPP
06.950	32	1/2
06.952	40	1/2
06.954	40	1
06.956	50	1/2
06.958	50	1
06.960	63	1/2
06.962	63	1
06.964	63	1-1/2



Specifically designed for use with the female branch Tee (BSPP) connector







S06
TOPRING SicoAIR

THREADED CONNECTIONS



MALE THREADED CONNECTOR NPT

Product No	Size mm	Thread (M) NPT
06.802	20	1/2
06.808	25	3/4
06.812	32	1
06.815	40	1-1/4
06.817	50	1-1/2
06.820	63	2



MALE THREADED ALUMINIUM CONNECTOR NPT

Product No	Size mm	Thread (M) NPT
06.222	20	1/2
06.289	20	3/4
06.223	25	1/2
06.224	25	3/4
06.291	25	1
06.225	32	1
06.226	40	1-1/4
06.296	40	1-1/2
06.227	50	1-1/2
06.298	50	2
06.228	63	2



MALE THREADED CONNECTOR BSPT

Product No	Size mm	Thread (M) BSPT
06.202	20	1/2
06.203	20	3/4
06.206	25	1/2
06.208	25	3/4
06.209	25	1
06.212	32	1
06.213	32	1-1/4
06.214	40	1
06.215	40	1-1/4
06.216	40	1-1/2
06.217	50	1-1/2
06.218	50	2
06.220	63	2
06.221	63	2-1/2



FEMALE THREADED CONNECTOR NPT

Product No	Size mm	Thread (F) NPT
06.832	20	1/2
06.837	25	3/4
06.842	32	1
06.845	40	1-1/4
06.847	50	1-1/2
06.850	63	2



FEMALE THREADED ALUMINIUM CONNECTOR NPT

Product No	Size mm	Thread (F) NPT
06.252	20	1/2
06.254	25	3/4
06.255	32	1
06.256	40	1-1/4
06.257	50	1-1/2
06.258	63	2



FEMALE THREADED CONNECTOR BSPP

Product No	Size mm	Thread (F) BSPP
06.232	20	1/2
06.237	25	3/4
06.242	32	1
06.245	40	1-1/4
06.247	50	1-1/2
06.250	63	2



END CAP

Product No	Size mm
06.362	20
06.367	25
06.372	32
06.375	40
06.377	50
06.380	63

Includes:



REPLACEMENT PARTS

Product No	Size mm
06.560	20
06.561	25
06.562	32
06.563	40
06.564	50
06.565	63

S06
TOPRING SicoAIR

BALL VALVES



STANDARD BALL VALVE

Product No	Size mm
06.402	20
06.407	25
06.412	32
06.415	40
06.417	50
06.420	63

CRN certified ball valves available on request

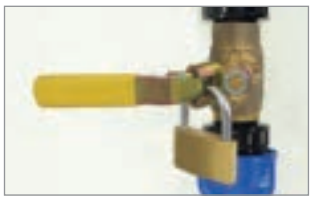




LOCKOUT SAFETY EXHAUST BALL VALVE

Product No	Size mm
06.403	20
06.408	25
06.413	32







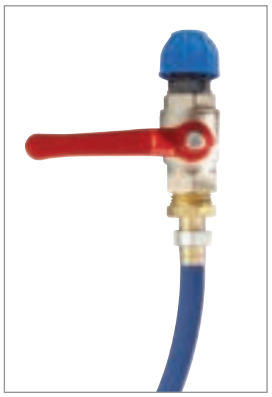
LOCKOUT FULL FLOW SAFETY EXHAUST BALL VALVE

Product No	Size mm
06.422	20
06.427	25
06.432	32





DRAINS



MANUAL DRAIN UNIT

Product No	Size mm
06.602	20
06.607	25

Includes: brass ball valve, 20 or 25 mm tube fitting, 3/8 x 12 in (30.5 cm) **THERMOFLEX** hose with hose barb and hose clamp



HIFLO AUTOMATIC DRAIN UNIT

Product No	Size mm
06.603	20
06.608	25

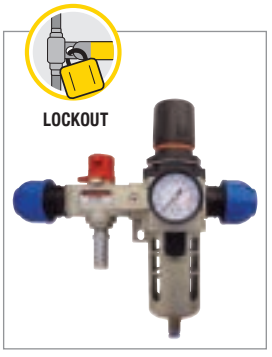
Includes: 114 ml liquid capacity **HIFLO** drain, ball valve, Y strainer, 20 or 25 mm tube fitting



MAXDRAIN AUTOMATIC DRAIN UNIT

Product No	Size mm
06.604	20
06.609	25

Includes: 400 ml liquid capacity **MAXDRAIN** drain, 20 or 25 mm tube fitting

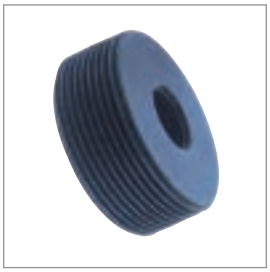


FILTER / REGULATOR UNIT WITH LOCKOUT VALVE AND MUFFLER

Product No	Size mm
06.620	20
06.621	25

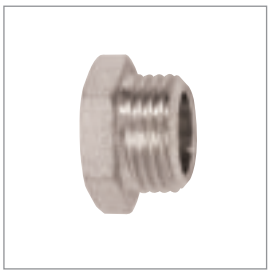
S06
TOPRING SicoAIR

ADAPTERS



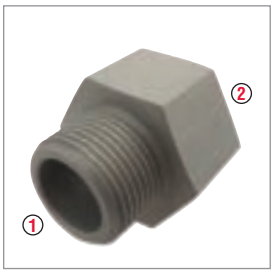
THREADED REDUCER (ALUMIMINIUM)

Product No	Thread (M) BSPT	Int. Thread (F) BSPP
06.900	3/4	1/2
06.901	1	1/2
06.902	1	3/4
06.903	1-1/4	1/2
06.904	1-1/4	3/4
06.906	1-1/2	1/2
06.907	1-1/2	3/4
06.908	1-1/2	1
06.910	2	1/2
06.911	2	3/4
06.912	2	1
06.914	2	1-1/2



PIPE PLUG (HEX HEAD)

Product No	Thread (M)	Material
41.065	1/8 **BSPT**	Nickel plated brass
41.066	1/4 **BSPT**	Nickel plated brass
41.067	3/8 **BSPT**	Nickel plated brass
41.068	1/2 **BSPP**	Nickel plated brass
41.069	3/4 **BSPP**	Nickel plated brass
41.070	1 **BSPP**	Nickel plated brass
41.071	1-1/4 **BSPP**	Nickel plated brass
41.072	1-1/2 **BSPT**	Brass
41.073	2 **BSPP**	Brass



BSPT-NPT ADAPTER (ALUMINIUM)

Product No	① Thread (M) BSPT	② Thread (F) NPT
41.930	1/2	1/2
41.931	3/4	3/4
41.932	1	1
41.933	1-1/4	1-1/4
41.934	1-1/2	1-1/2
41.935	2	2



NPT-BSPP ADAPTER (ALUMINIUM)

Product No	① Thread (M) NPT	② Thread (F) BSPP
41.920	1/2	1/2
41.921	3/4	3/4
41.922	1	1
41.923	1-1/4	1-1/4
41.924	1-1/2	1-1/2
41.925	2	2

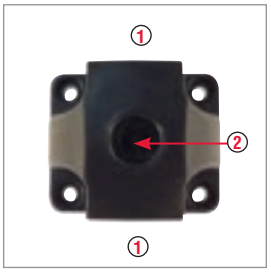


SicoAIR PRODUCT SAMPLE CASE

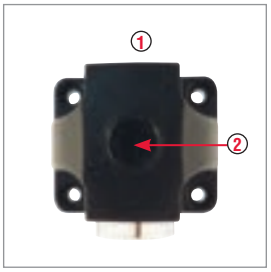
Product No	Description
97.183	SicoAIR product sample case

Each sample case includes:	
Twin Drop Coupling • 25 mm x 1/2(F)	06.050
Connector (M) • 32 mm x 1(M)	06.212
Connector (F) • 32 mm x 1(F)	06.242
Union Elbow • 90° / 25 mm	06.267
Union Reducer • 3 2mm x 25mm	06.313
Wall Mounting Monoklip • 25 mm	06.542
06.950 Reducer (F) • 32mm x 1/2(F)	06.950
6 different aluminium tube diameters	

S06
TOPRING SicoAIR
COMPOSITE MANIFOLDS / 1 OUTLET



Product No	Inlet (F) BSPP ①	Outlet (F) NPT ②
47.100	1/2	3/8



Product No	Inlet (F) BSPP ①	Outlet (F) NPT ②
47.102	1/2	3/8



Product No	Size mm ①	Outlet (F) NPT ②
06.450	20	3/8



Product No	Size mm ①	Outlet (F) NPT ②
06.455	20	3/8



SPACER

Product No	Thickness mm
47.122	9





Product No	Size mm	Quick Coupler
06.452	20	QUIKSILVER 1/4 INDUSTRIAL

Coupler Specifications
- Accepts **1/4 INDUSTRIAL** type plugs
- Automatic push-to-connect operation
- Easy to connect, even under pressure



Product No	Size mm	Quick Coupler
06.452.03	20	TOPQUIK 1/4 INDUSTRIAL

Coupler Specifications
- Accepts **1/4 INDUSTRIAL** type plugs
- Automatic push-to-connect operation
- Safety coupler
- Downstream pressure is automatically vented and disconnection is performed easily at zero pressure



Product No	Size mm	Quick Coupler
06.452.02	20	QUIKSILVER ULTRAFLO

Coupler Specifications
- Accepts **ULTRAFLO** type plugs
- Automatic push-to-connect operation
- Easy to connect, even under pressure



Product No	Size mm	Quick Coupler
06.452.04	20	TOPQUIK ULTRAFLO

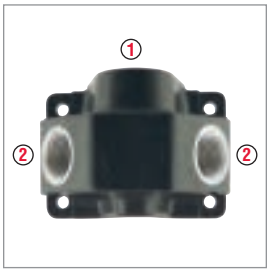
Coupler Specifications
- Accepts **ULTRAFLO** type plugs
- Automatic push-to-connect operation
- Safety coupler
- Downstream pressure is automatically vented and disconnection is performed easily at zero pressure

TECH TIP

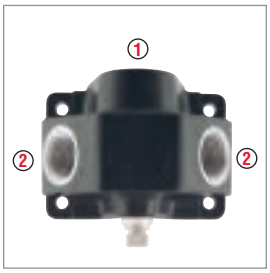
Manifolds can be quickly and easily modified by using reducing bushings and plugs (see Series 41)



S06
TOPRING SicoAIR
COMPOSITE MANIFOLDS / 2 OUTLETS



Product No	Inlet (F) BSPP ①	Outlet (F) NPT ②
47.108	1/2	1/2 (2x)
47.110	3/4	1/2 (2x)



Product No	Inlet (F) BSPP ①	Outlet (F) NPT ②
47.109	1/2	1/2 (2x)
47.111	3/4	1/2 (2x)



Product No	Size mm ①	Outlet (F) NPT ②
06.470	20	1/2 (2x)
06.475	25	1/2 (2x)



SPACER

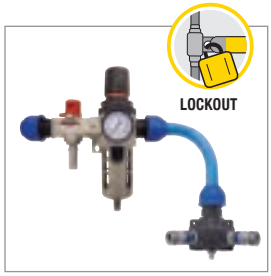
Product No	Thickness mm
47.118	10
47.119	13
47.120	20





Product No	Size mm	Quick Couplers
06.461	20	QUIKSILVER 1/4 INDUSTRIAL (2x)
06.462	25	

Coupler Specifications
- Accepts **1/4 INDUSTRIAL** type plugs
- Automatic push-to-connect operation
- Easy to connect, even under pressure



F/R UNIT WITH COUPLERS

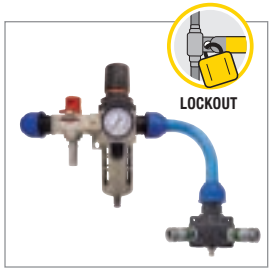
Product No	Size mm	Quick Couplers
06.623	20	QUIKSILVER 1/4 INDUSTRIAL (2x)
06.624	25	

Includes: 5 micron F/R, safety lock-out valve, muffler, manifold with 2 couplers



Product No	Size mm	Quick Couplers
06.461.02	20	QUIKSILVER ULTRAFLO (2x)
06.462.02	25	

Coupler Specifications
- Accepts **ULTRAFLO** type plugs
- Automatic push-to-connect operation
- Easy to connect, even under pressure



F/R UNIT WITH COUPLERS

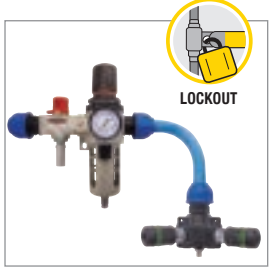
Product No	Size mm	Quick Couplers
06.629	20	QUIKSILVER ULTRAFLO (2x)
06.630	25	

Includes: 5 micron F/R, safety lock-out valve, muffler, manifold with 2 couplers



Product No	Size mm	Quick Couplers
06.461.04	20	TOPQUIK ULTRAFLO (2x)
06.462.04	25	

Coupler Specifications
- Accepts **ULTRAFLO** type plugs
- Automatic push-to-connect operation
- Safety coupler
- Downstream pressure is automatically vented and disconnection is performed easily at zero pressure



F/R UNIT WITH COUPLERS

Product No	Size mm	Quick Couplers
06.626	20	TOPQUIK ULTRAFLO (2x)
06.627	25	

Includes: 5 micron F/R, safety lock-out valve, muffler, manifold with 2 couplers

S06
TOPRING SicoAIR

COMPOSITE MANIFOLDS / 3 OUTLETS



Product No	Inlet (F) BSPP ①	Outlet (F) NPT ②
47.115	1/2	1/2 (3x)
47.113	3/4	1/2 (3x)



Product No	Size mm ○	Quick Couplers
06.490	20	QUIKSILVER 1/4 INDUSTRIAL (3x)
06.491	25	

Coupler Specifications
- Accepts **1/4 INDUSTRIAL** type plugs
- Automatic push-to-connect operation
- Easy to connect, even under pressure

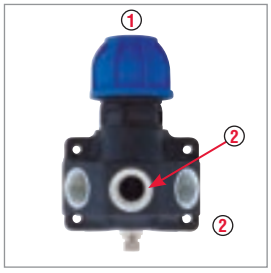


Product No	Inlet (F) BSPP ①	Outlet (F) NPT ②
47.115	1/2	1/2 (3x)
47.113	3/4	1/2 (3x)



Product No	Size mm ○	Quick Couplers
06.490.02	20	QUIKSILVER ULTRAFLO (3x)
06.491.02	25	

Coupler Specifications
- Accepts **ULTRAFLO** type plugs
- Automatic push-to-connect operation
- Easy to connect, even under pressure



Product No	Size mm ① ○	Outlet (F) NPT ②
06.480	25	1/2 (3x)



Product No	Size mm ○	Quick Couplers
06.490.04	20	TOPQUIK ULTRAFLO (3x)
06.491.04	25	

Coupler Specifications
- Accepts **ULTRAFLO** type plugs
- Automatic push-to-connect operation
- Downstream pressure is automatically vented and disconnection is performed easily at zero pressure

COMPOSITE MANIFOLDS / 4 OUTLETS



Product No	Inlet (F) BSPP ①	Outlet (F) NPT ②
47.150	1/2	1/2 (4x)
47.155	3/4	1/2 (4x)



Product No	Size mm ① ○	Outlet (F) NPT ②
06.487	20	1/2 (4x)
06.489	25	1/2 (4x)



SPACERS FOR COMPOSITE MANIFOLD 2 OR 3 OUTLETS

Product No	Thickness mm
47.118	10
47.119	13
47.120	20

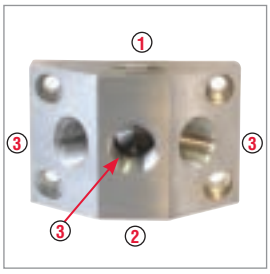


SPACER FOR COMPOSITE MANIFOLD 4 OUTLETS

Product No	Thickness mm
47.121	10

S06
TOPRING SicoAIR

ALUMINIUM MANIFOLDS / 3 OUTLETS



Product No	Inlet (F) BSPP ①	Outlet (F) BSPP ②	Outlet (F) NPT ③
47.307	3/4	3/4	3/8 (3x)
47.310	3/4	3/4	1/2 (3x)
47.320	1	1	1/2 (3x)

Features and benefits

- Provides a convenient junction point for PIPING networks requiring multiple connections
- Universal manifolds with 3 outlets



Product No	Size mm ①	Outlet (F) NPT ②
06.435	20	1/4 (3x)
06.436	25	3/8 (3x)
06.437	32	1/2 (3x)



Product No	Size mm	Quick Coupler
06.441	20	QUIKSILVER 1/4 INDUSTRIAL (3x)
06.442	25	
06.443	32	

Coupler Specifications

- Accepts **1/4 INDUSTRIAL** type plugs
- Automatic push-to-connect operation
- Easy to connect, even under pressure



Product No	Size mm	Quick Coupler
06.442.02	25	QUIKSILVER ULTRAFLO (3x)
06.443.02	32	

Coupler Specifications

- Accepts **ULTRAFLO** type plugs
- Automatic push-to-connect operation
- Easy to connect, even under pressure



Product No	Size mm	Quick Coupler
06.441.03	20	TOPQUIK 1/4 INDUSTRIAL (3x)
06.432.03	25	

Coupler Specifications

- Accepts **1/4 INDUSTRIAL** type plugs
- Automatic push-to-connect operation
- Safety coupler
- Downstream pressure is automatically vented and disconnection is performed easily at zero pressure



Product No	Size mm	Quick Coupler
06.442.04	25	TOPQUIK ULTRAFLO (3x)
06.443.04	32	

Coupler Specifications

- Accepts **ULTRAFLO** type plugs
- Automatic push-to-connect operation
- Safety coupler
- Downstream pressure is automatically vented and disconnection is performed easily at zero pressure

S06
TOPRING SicoAIR

MOUNTING CLIPS FOR RIGID PIPES

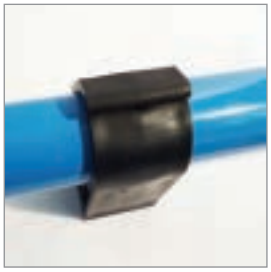


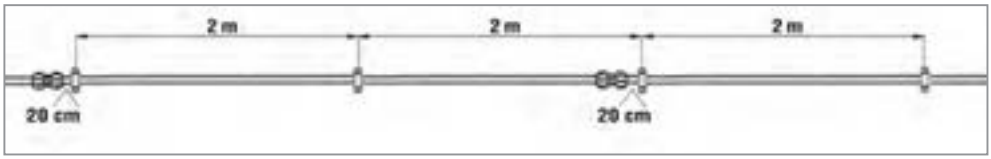
Product No	Size mm ○
06.541	20
06.542	25
06.543	32
06.544	40
06.545	50
06.546	63

It is recommended to use
No 14 screws (Hole size 5.2 mm)

Recommended spacing

- A mounting clip should be installed at every 2 m maximum for all diameters (20 to 63 mm)
- A clip must be installed at 20 cm from a fitting (downstream or upstream)







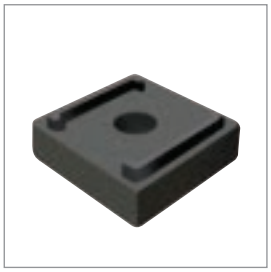
EPDM INSERT FOR FIXING PIPE CLIP

Product No
06.548

Transforms a mounting clip into a fixed point bracket.

Creating a fixed mounting bracket
In order to compensate for thermal expansion, create a fixed point by adding the EPDM insert inside the mounting pipe clip





CLIP SPACER

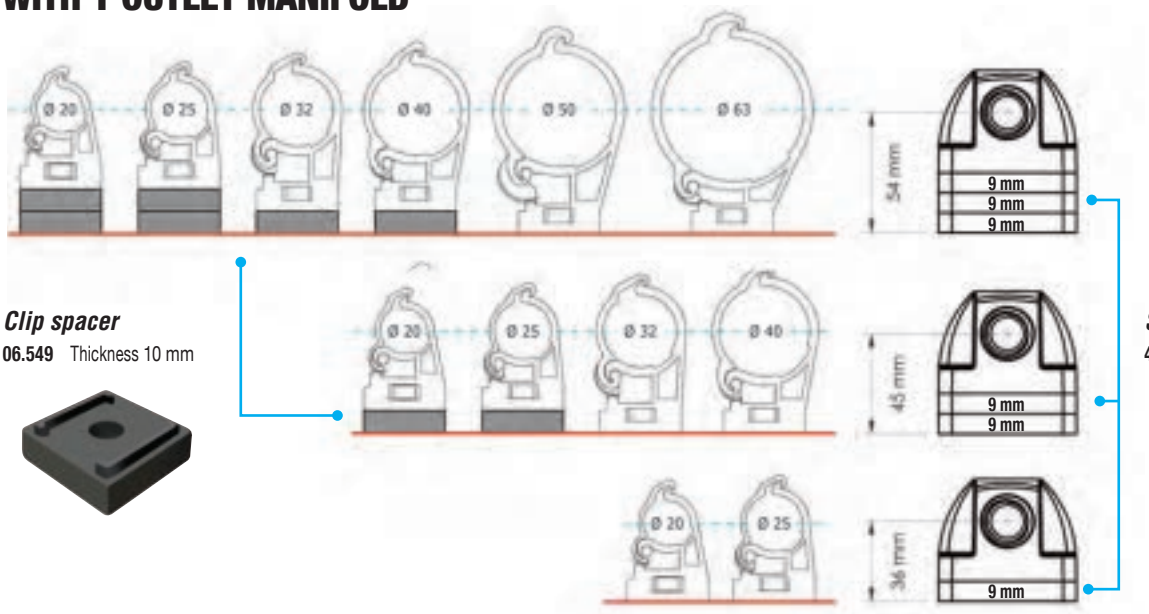
Product No	Thickness mm
06.549	10

The clip spacer compensates for the height difference which is created when connecting pipes of a different diameter allowing perfect alignment

S06
TOPRING SicoAIR

MANIFOLD COMBINATION CHART FOR OPTIMAL PIPING ALIGNMENT

WITH 1 OUTLET MANIFOLD

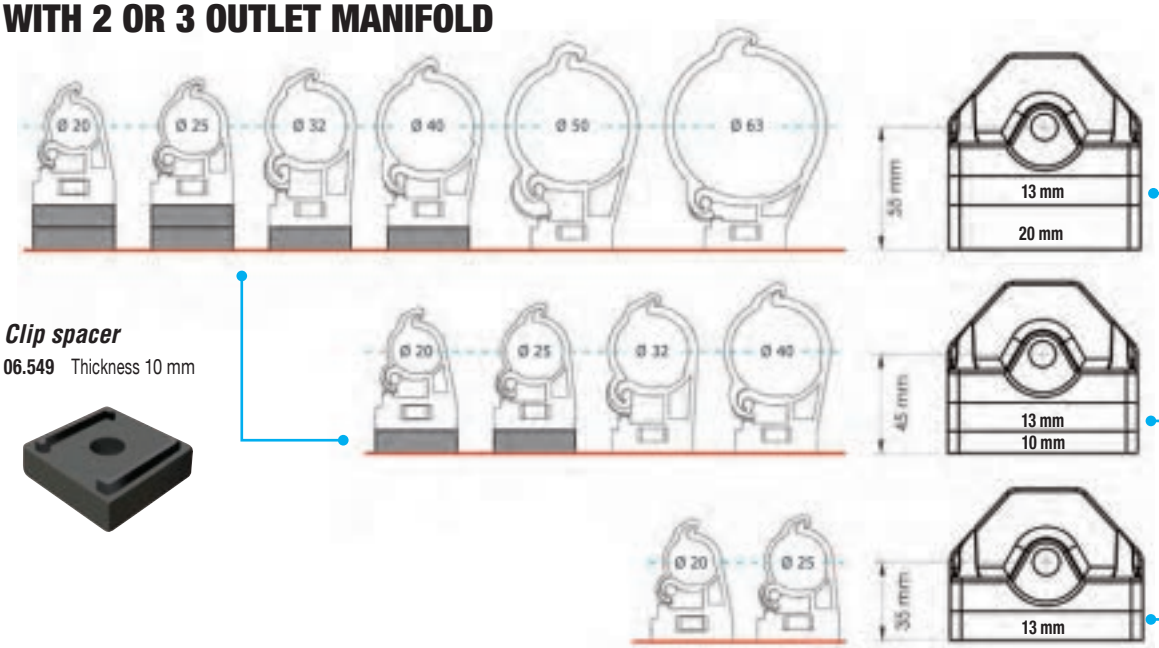


Clip spacer
06.549 Thickness 10 mm

Spacer for manifolds
47.122 Thickness 9 mm



WITH 2 OR 3 OUTLET MANIFOLD



Clip spacer
06.549 Thickness 10 mm

Spacer for manifolds
47.118 Thickness 10 mm
47.119 Thickness 13 mm
47.120 Thickness 20 mm



S06
TOPRING SicoAIR

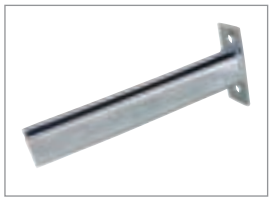
MOUNTING ACCESSORIES





STRUT ADAPTER FOR MOUNTING CLIPS

Product No	Description
06.540	For all mounting clips



CANTILEVER ARM 1-5/8" X 1-5/8"

Product No	Length (in)
06.550	6
06.551	12



STRUT CHANNEL 1-5/8" X 1-5/8"

Product No	Length (in)
06.555	10



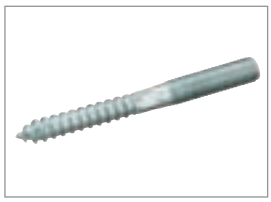
THREADED ROD / 10 FT

Product No	Size UNC
06.526	3/8



COUPLING NUT

Product No	Size UNC
06.528	3/8



SCREW

Product No	Size UNC
06.529	3/8



SUSPENSION PIPE CLIPS

Product No	Size mm ○	Nut size UNC
06.503	20	3/8
06.508	25	3/8
06.513	32	3/8
06.518	40	3/8
06.519	50	3/8





SWIVEL LOOP HANGERS

Product No	Size mm ○	Threaded Rod size UNC
06.510	25	3/8
06.514	32	3/8
06.516	40	3/8
06.521	50	3/8
06.522	63	3/8





I-BEAM CLAMP

Product No	Beam Thickness (in)	Threaded Rod size UNC
06.535	1/4 - 3/4	3/8



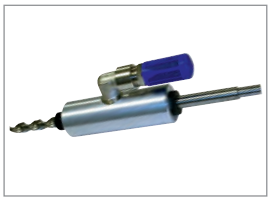


I-BEAM MOUNTING CLIPS

Product No	Beam Thickness (in)
06.530	1/8 - 1/4
06.531	3/8 - 1/2
06.532	1/2 - 3/4

S06
TOPRING SicoAIR

INSTALLATION TOOLS



FOR PRESSURIZED SYSTEM

Product No	Outlet (F) BSPP	Size mm
06.596 *	1/2	25-32-40
06.598 **	1	50-63

* Requires brass ball valve (65.906) for each drilling.

** Requires brass ball valve (65.910) for each drilling.

With its unique design, the twin take-off drop coupling allows fast and easy drop installation without depressurizing the system or even planning line installation in advance.

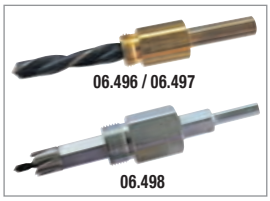
Drilling tool for pressurized system

- Allows installation of twin take-off drop couplings without having to depressurize the **TOPRING** SicoAIR system
- Can also be used on a non-pressurized **TOPRING** SicoAIR system
- Drill chips are collected in the tool reservoir preventing them from entering the main line
- Integrated drill guide for precision drilling



See videos on **TOPRING**.com

- Video demonstration with **PRESSURIZED** compressed air system
- Video demonstration with **NON-PRESSURIZED** compressed air system



FOR NON-PRESSURIZED SYSTEM

Product No	Outlet (F) BSPP	Size mm
06.496	1/2	25-32-40
06.497	3/4	25-32-40
06.498	1	50-63

Drilling tool for non-pressurized system

- Allows installation of threaded drop connections and twin take-off couplings
- Integrated drill guide for precision drilling

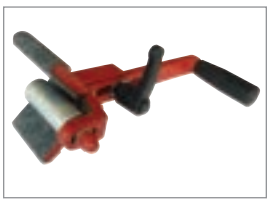
PRACTICAL TOOLS

Tools for the installation and extension of **TOPRING** SicoAIR air pipe systems



CHAMFER TOOL

Product No	Size mm
07.570	3 to 35
07.576	15 to 50



Product No	Size mm
07.579	50 to 160



DEBURRING TOOL

Product No
07.571



PIPE CUTTER / 3 TO 30 MM

Product No	Description
07.566	Pipe cutter
07.567	Spare blade



PIPE CUTTER / 6 TO 64 MM

Product No	Description
07.568	Pipe cutter
07.569	Spare blade



SPANNER WRENCH / SET OF 2

Product No	Size mm
06.590	20
06.591	25
06.592	32
06.593	40
06.594	50
06.595	63

S06
TOPRING SicoAIR

SicoAIR air piping system: for quick and easy installation

The Series 06 air piping system is assembled with compression fittings unlike the usual threading or welding methods required by steel tubes. This reduces installation costs.
Visit **TOPRING**.com to see the video on the installation.



SicoAIR 3D display board

This 24 x 32 inches board with real pipes and components demonstrates the benefits and the features of **TOPRING SicoAIR** compressed air piping system.

Product No	Description
96.906.06	English version
96.906.05	French version





S06
TOPRING SICOAZOTE
NITROGEN PIPING SYSTEM

EXCLUSIVELY FOR THE USE WITH NITROGEN

- Ideal for supplying nitrogen, widely used in tire repair workshops and on assembly lines
- The green color of the pipes and fitting rings make the lines easily distinguishable from other networks used in the distributions of fluids, thus avoiding the need of painting the pipes at the time of installation.



APPLICATIONS







AUTOMOTIVE INDUSTRY
The inflation of tires with nitrogen rather than air maintains the tire pressure for a longer period of time. This reduces the risks associated with underinflated tires and reduces fuel consumption.

FOOD INDUSTRY
Nitrogen is used at different stages of production, handling and packaging of beverages and foods. In winemaking, the use of nitrogen prevents oxidation of the wine and reduce the use of additives.

GENERAL INDUSTRY
Nitrogen is widely used in metal heat treatment: annealing, hardening, tempering, welding, brazing or soldering.

S06
TOPRING SicoAZOTE
NITROGEN PIPING SYSTEM



CERTIFICATIONS

TÜV Certification

- A product certified TÜV is a pledge of safety and quality.
- The group TÜV thus certifies independent test results - in particular, the properties of the products and the standards whereby they were examined.

ASME B31.3

- Meets the requirement of ASME B31.3

  This code prescribes requirements for material and components, design, fabrication, assembly, erection, examination, inspection, and testing of piping.

Canadian Registration Number

- CRN number valid for all Canadian provinces.

QUALICOAT Certification

- QUALICOAT certification is a guarantee of the quality of the lacquer finish applied to aluminium pipe.

ISO 9001: 2008

- Manufactured under ISO quality management system.

SPECIFICATIONS

Fluid

- Nitrogen (**TOPRING SicoAZOTE**)

Maximum Working Pressure

- Pipes : 217 PSI (15 BAR)
- Fittings : 181 PSI (12.5 BAR)

Normal Working Pressure

- 181 PSI (12.5 BAR)

Working Temperature

- -20 °C to 70 °C

Resistance to

- Corrosion
- Aggressive environments
- Mechanical shocks
- Thermal variations

GOOD TO KNOW

The use of TOPRING SicoAZOTE green pipes and fittings is recommended to easily identify the network using nitrogen from the compressed air network



S06
TOPRING SICOAZOTE
NITROGEN PIPING SYSTEM

RIGID ALUMINIUM PIPE

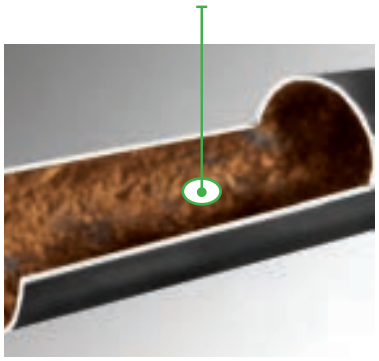
- Available in 25 mm diameter (40 mm on request)
- Tubular extruded aluminium pipes
- Calibrated aluminium pipes for perfect and leak-free assembly with fittings
- Lightweight
- Smooth, clean and corrosion resistant
- Easy and fast installation
- QUALICOAT certified powder-coated green paint for nitrogen identification

O.D.
25 mm
1 po

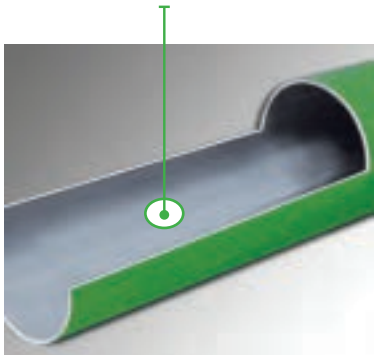
O.D.
40 mm
1-1/2 po

available on request

Traditional pipes corrode and allow contaminant build-up



TOPRING pipes resist corrosion and stay clean over time

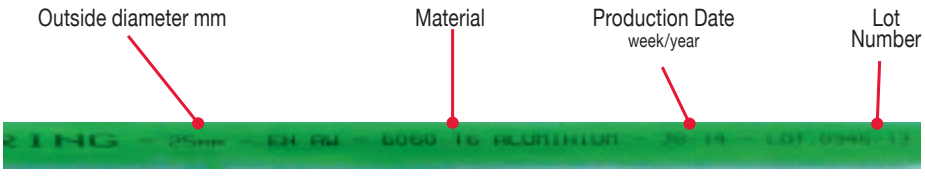


Specifications

- Materials:

  Aluminium extrusion alloy EN AW-6060 T6 with inside and outside titanium-based, chrome-free and RoHS-complying treating and electrocoated outside surface

- Color: Green RAL 6018
- Manufacturing process: Seamless extrusion process
- Marking:

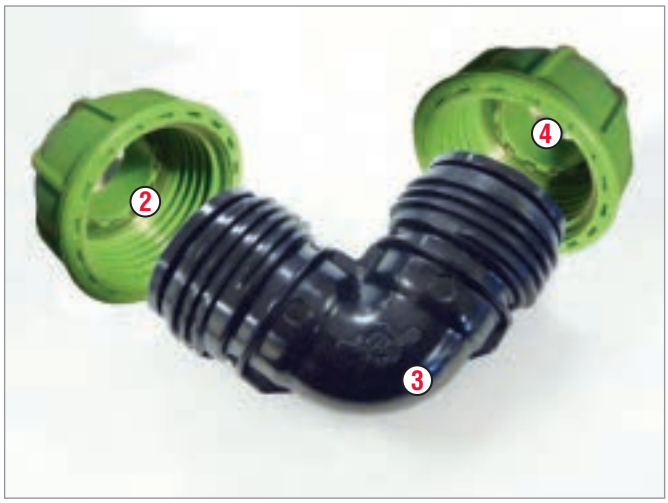


S06
TOPRING SicoAZOTE
NITROGEN PIPING SYSTEM

FITTINGS

- Quick installation: quick and easy assembly of the pipes with the compression fittings
- Polyamide compression fittings
- High resistance to corrosion, mechanical shocks and thermal variations
- Smooth internal finish
- Quick branch drop leg fitting can be installed anywhere in the piping network

TOPRING SicoAZOTE fitting design







(1) STRONG INTERNAL GRIP DESIGN
Stainless steel clinch ring increasing grip, strength and safety

(2) DISTINCTIVE NUT DESIGN
The grooves on the nut allow you to use the spanner wrench for safe tightening without damaging the nut

(3) EXCLUSIVE BODY DESIGN
Inner body design and large diameter minimizes the flow resistance and pressure drop

(4) PRECISE ALIGNMENT GUIDE
Nut design allows pipe insertion with perfect alignment

(5) PARTS IDENTIFICATION

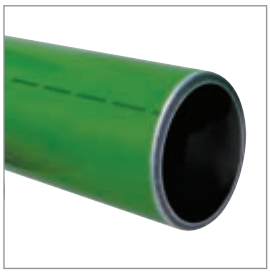
- **TOPRING SicoAZOTE** reference
- Diameter engraved for easy identification of size
- Nominal pressure

See videos on ***TOPRING****.com*

- Video demonstration with **PRESSURIZED** system
- Video demonstration with **NON-PRESSURIZED** system

S06
TOPRING SicoAZOTE

PIPE



RIGID ALUMINIUM PIPE

Product No	Size mm	Size inch	Length m	Length ft	Weight kg
06.108	25	1	4	13	1.2

TEE • REDUCER



EQUAL TEE

Product No	Size mm
06.337.01	25



THREADED REDUCING TEE BSPP

Product No	Size mm	Thread (F) BSPP
06.338.01	25	1/2

UNIONS



STRAIGHT UNION

Product No	Size mm
06.307.01	25



90° ELBOW UNION

Product No	Size mm
06.267.01	25

TWIN TAKE-OFF DROP COUPLING



Product No	Size mm	Outlet (F) BSPP
06.050	25	1/2



- Makes drop installation fast and easy
- Can be installed on pressurized SicoAZOTE networks by using the proper tools (see page 108).
- Unique design allows installation under pressure with pressurized system drilling tool (see page 108):
  - Prevents chips and debris from getting into the main line during the installation
  - Built-in drill guide

THREADED DROP CONNECTION



Product No	Size mm	Outlet (F) BSPP
06.080	25	1/2

- Makes drop installation fast and easy
- No need to plan drops before the main line installation
- Saves time during installation
- Drop coupling mounts simply over existing **TOPRING SicoAZOTE** main lines
- Can be installed anywhere along a compatible nitrogen line
- Solid threaded inserts for leak-proof connections

S06
TOPRING SicoAZOTE

THREADED CONNECTIONS



MALE THREADED CONNECTOR NPT

Product No	Size mm	Thread (M) NPT
06.808.01	25	3/4



FEMALE THREADED CONNECTOR NPT

Product No	Size mm	Thread (F) NPT
06.837.01	25	3/4



MALE THREADED ALUMINIUM CONNECTOR NPT

Product No	Size mm	Thread (M) NPT
06.223.01	25	1/2
06.224.01	25	3/4
06.291.01	25	1



FEMALE THREADED ALUMINIUM CONNECTOR NPT

Product No	Size mm	Thread (F) NPT
06.254.01	25	3/4



MALE THREADED CONNECTOR BSPT

Product No	Size mm	Thread (M) BSPT
06.206.01	25	1/2
06.208.01	25	3/4
06.209.01	25	1



FEMALE THREADED CONNECTOR BSPP

Product No	Size mm	Thread (F) BSPP
06.237.01	25	3/4



END CAP

Product No	Size mm
06.367.01	25



REPLACEMENT PARTS

Product No	Size mm
06.561.01	25

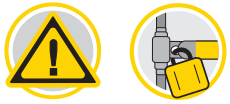
S06
TOPRING SICOAZOTE

BALL VALVES



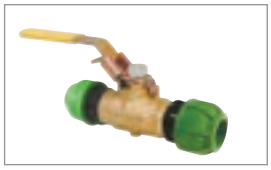
STANDARD BALL VALVE

Product No	Size mm
06.407.01	25

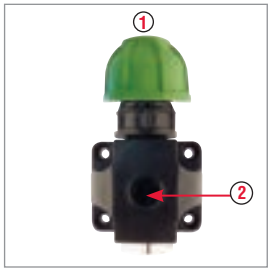


LOCKOUT SAFETY EXHAUST BALL VALVE

Product No	Size mm
06.408.01	25



COMPOSITE MANIFOLD / 1 OUTLET



Product No	Size mm ①	Thread (F) NPT ②
06.460.01	25	3/8



SPACER FOR MANIFOLD

Product No	Thickness mm
47.122	9

MOUNTING CLIP FOR RIGID PIPE

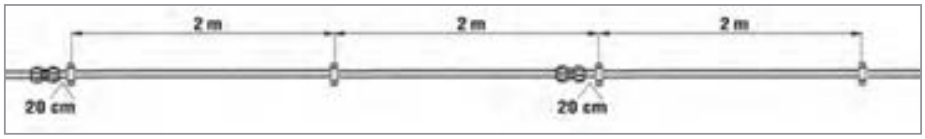


Product No	Size mm
06.542	25

It is recommended to use
No 14 screw (hole size 5.2 mm)

Recommended spacing

- A mounting clip should be installed at every 2 meters maximum (for all diameters 20 to 63 mm)
- A clip must be installed at 20 cm from a fitting (downstream or upstream)

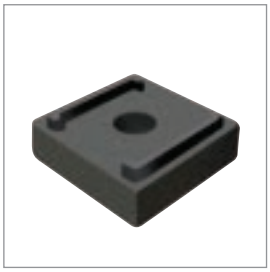




EPDM INSERT FOR FIXING PIPE CLIP

Product No
06.548

Transforms a mounting pipe clip into a fixed point bracket



CLIP SPACER

Product No	Thickness mm
06.549	10

The clip spacer compensates for the height difference which is created when connecting pipes of a different diameter allowing perfect alignment

S06
TOPRING SicoAZOTE

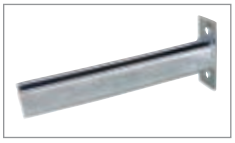
MOUNTING ACCESSORIES



STRUT ADAPTER FOR MOUNTING CLIPS

Product No	Description
06.540	For all mounting clips





CANTILEVER ARM 1-5/8" X 1-5/8"

Product No	Length (in)
06.550	6
06.551	12



STRUT CHANNEL 1-5/8" X 1-5/8"

Product No	Length (in)
06.555	10



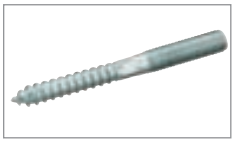
THREADED ROD / 10 ft

Product No	Size UNC
06.526	3/8



COUPLING NUT

Product No	Size UNC
06.528	3/8



SCREW

Product No	Size UNC
06.529	3/8



SUSPENSION PIPE CLIPS

Product No	Size mm ○	Nut size UNC
06.508	25	3/8



SWIVEL LOOP HANGERS

Product No	Size mm ○	Threaded Rod size UNC
06.510	25	3/8





I-BEAM CLAMP

Product No	Beam Thickness (in)	Threaded Rod size UNC
06.535	1/4 - 3/4	3/8





I-BEAM MOUNTING CLIPS

Product No	Beam Thickness (in)
06.530	1/8 - 1/4
06.531	3/8 - 1/2
06.532	1/2 - 3/4



PRACTICAL TOOLS

Tools for the installation and extension of **TOPRING** SicoAZOTE air piping systems



CHAMFER TOOLS

Product No	Size mm ○
07.570	3 to 35
07.576	15 to 50



Product No	Size mm ○
07.579	50 to 160



DEBURRING TOOL

Product No
07.571



PIPE CUTTER / 3 TO 30 MM

Product No	Description
07.566	Pipe cutter
07.567	Spare blade



PIPE CUTTER / 6 TO 64 MM

Product No	Description
07.568	Pipe cutter
07.569	Spare blade



SPANNER WRENCH / SET OF 2

Product No	Size mm ○
06.591	25

S07
QuickLINE
COMPRESSED AIR PIPING SYSTEM



S07
QuickLINE
COMPRESSED AIR PIPING SYSTEM

FEATURES AND BENEFITS

Clean air and optimal efficiency

- Aluminium pipes ensure a total absence of corrosion
- Aluminium pipes prevent problems caused by rust common in metal pipe systems
- The « fullbore » design and the low friction coefficient of aluminium pipes provide optimal and constant flow throughout and minimize pressure drops
- Due to consistent clean quality air from the compressor to equipment, aluminium pipes ensure higher longevity of equipment and avoid frequent changes of filtration elements

Easy to install

- Installation speed: simple push-in and push-in-and-tighten fittings (compression) allow installation to be done more quickly than conventional systems requiring threading, welding and soldering of heavy components
- Installation is 50% to 75% quicker than with conventional metal pipe systems
- **TOPRING** QuickLINE pipes and fittings are assembled in just a few steps by a single installer
- Lightweight: only a fraction of the weight of conventional steel or black iron

Save money

- Significant energy savings: calibrated aluminium pipe assembled with compression fittings eliminates leaks, saving up to 10% of power costs. It allows high airflow and low pressure drops, because the smooth inside the tube and fittings reduces friction losses.
- Substantial reduction in installation costs which often include more labour costs than materials
- Reduced system downtime and lost or delayed production during installation or additions of components
- Reduced maintenance costs

Easy to modify or extend

- A **TOPRING** QuickLINE system can be easily disassembled and reinstalled at a new facility

S07
QuickLINE
COMPRESSED AIR PIPING SYSTEM

CERTIFICATIONS

ASME B31.3

- QuickLINE meets the requirement of ASME B31.3

This code prescribes requirements for material and components, design, fabrication, assembly, erection, examination, inspection, and testing of piping.

Canadian Registration Number

- CRN number valid for all Canadian provinces.

QUALICOAT Certification

- QUALICOAT certification is a guarantee of the quality of the lacquer finish applied to QuickLINE aluminium pipe.

ISO 9001 : 2008

- QuickLINE is manufactured under ISO quality management system.

SPECIFICATIONS

Fluids

- Compressed air (dry, wet, lubricated)
- Nitrogen

Maximum Working Pressure

- Pipes / Fittings: 217 PSI (15 BAR)

Working Temperature

- -20 to 70 °C

Resistance to

- Corrosion
- Aggressive environments
- Mechanical shocks
- Thermal variations
- U.V.
- Mineral compressor oils
- Synthetic compressor oils

S07

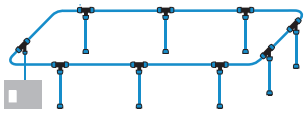
PRE-INSTALLATION

GUIDE TO DETERMINE THE MINIMUM DIAMETER PIPE SIZING FOR A COMPRESSED AIR NETWORK

1. Identify the type of network: closed loop or dead-end
2. Calculate the total length of the line (feet)
3. Determine the total flow required (SCFM)
4. Use the charts below in order to identify the proper diameter size

- Calculations based on total maximum pressure drop (△P) of no more than 3 PSIG for the entire network, at 100 PSIG at 15.5 °C
- Total flow required takes account of all flows for all compressed air powered tools and equipment
- Note that a typical compressor will produce approximately 4 SCFM per HP

Minimum diameter pipe sizing for a closed loop network

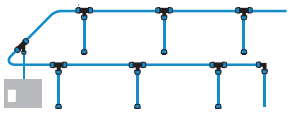


TOTAL LENGTH OF THE NETWORK (FEET)

TOTAL FLOW REQUIRED

SCFM \ FEET	100'	150'	200'	250'	300'	400'	500'	600'	700'	800'	900'	1000'	1250'	1500'	2000'
5	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
10	15	15	15	15	15	15	15	15	15	15	15	15	22	22	22
15	15	15	15	15	15	15	15	22	22	22	22	22	22	22	22
20	15	15	15	15	15	22	22	22	22	22	22	22	22	22	22
30	15	22	22	22	22	22	22	22	22	22	22	22	22	22	28
40	22	22	22	22	22	22	22	22	22	22	28	28	28	28	28
60	22	22	22	22	22	28	28	28	28	28	28	28	28	28	40
80	22	22	22	28	28	28	28	28	28	28	28	40	40	40	40
100	22	28	28	28	28	28	28	28	40	40	40	40	40	40	40
125	28	28	28	28	28	40	40	40	40	40	40	40	40	40	40
150	28	28	28	28	40	40	40	40	40	40	40	40	40	40	40
200	28	28	40	40	40	40	40	40	40	40	40	40	50	50	50
300	40	40	40	40	40	40	40	50	50	50	50	50	50	50	63
400	40	40	40	40	40	50	50	50	50	50	50	63	63	63	63
500	40	40	50	50	50	50	50	50	63	63	63	63	63	63	63
750	50	50	50	50	63	63	63	63	63	63	63	63			
1000	50	50	63	63	63	63	63								
1500	63	63	63	63											

Minimum diameter pipe sizing for a dead end network



TOTAL LENGTH OF THE NETWORK (FEET)

TOTAL FLOW REQUIRED

SCFM \ FEET	25'	50'	75'	100'	150'	200'	250'	300'	400'	500'	600'	700'	800'	900'	1000'
5	15	15	15	15	15	15	15	15	15	15	15	22	22	22	22
10	15	15	15	15	15	22	22	22	22	22	22	22	22	22	22
15	15	15	22	22	22	22	22	22	22	22	22	22	28	28	28
20	15	22	22	22	22	22	22	22	22	28	28	28	28	28	28
30	22	22	22	22	22	28	28	28	28	28	28	28	28	40	40
40	22	22	22	22	28	28	28	28	28	40	40	40	40	40	40
60	22	28	28	28	28	28	40	40	40	40	40	40	40	40	40
80	22	28	28	28	40	40	40	40	40	40	40	40	40	40	50
100	28	28	28	40	40	40	40	40	40	40	40	50	50	50	50
125	28	40	40	40	40	40	40	40	50	50	50	50	50	50	50
150	28	40	40	40	40	40	40	50	50	50	50	50	50	63	63
200	40	40	40	40	40	50	50	50	50	63	63	63	63	63	63
300	40	40	50	50	50	50	63	63	63	63	63	63	63		
400	40	50	50	50	63	63	63	63	63						
500	50	50	50	63	63	63	63								
750	50	63	63	63											
1000	63	63													
1500	63														

WARNING

Installation of **QuickLINE** compressed air pipingsystem must be made according to the assembly instructions as indicated in the installation guide. Carefully read the installation guide prior proceeding.

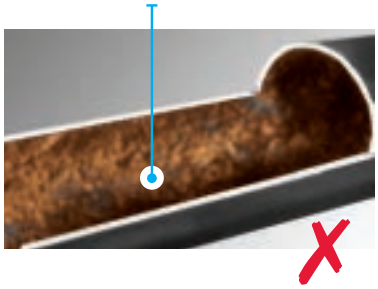
S07
QuickLINE
COMPRESSED AIR PIPING SYSTEM

RIGID ALUMINIUM PIPES

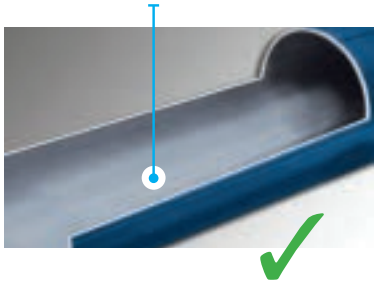
Features and benefits

- Available in 6 sizes: 15, 22, 28, 40, 50 and 63 mm
- Tubular extruded and calibrated aluminium pipes for perfect and leak-free assembly with fittings
- Lightweight
- Smooth, clean, non-corrosive, rustproof internal finish
- Easy to install and adapt to existing metal pipes
- QUALICOAT certified powder-coated blue paint for compressed air identification
- Suitable for compressed air, vacuum and nitrogen

Traditional piping corrodes and allows contaminant build-up



TOPRING piping resists corrosion and stays clean over time



Specifications

Material :

Aluminium extrusion alloy EN AW-6060 T6 with inside and outside titanium-based, chrome-free and RoHS complying treating and electrocoated outside surface

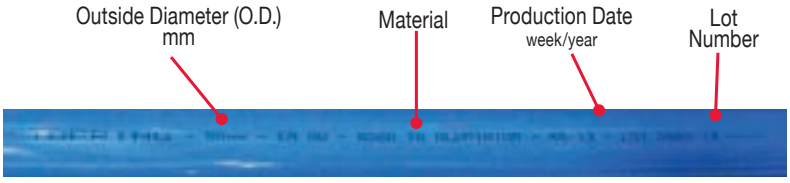
Color :

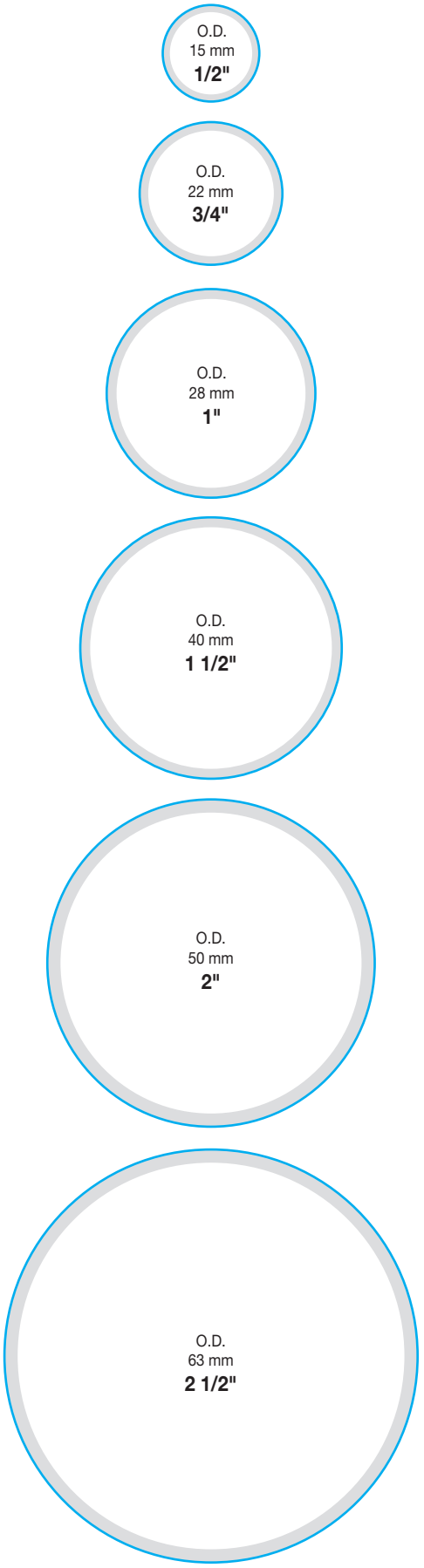
Blue RAL 5015

Manufacturing process:

Seamless extrusion process

Marking :





S07
QuickLINE
COMPRESSED AIR PIPING SYSTEM

PUSH-TO-CONNECT FITTINGS
FOR PIPES ○ 15 • 22 • 28 mm

Features and benefits

- Suitable for aluminium pipes (and nylon pipes Series 5)
- Outside diameters: 15, 22 and 28 mm
- Quick assembly
- Limited fitting expansion under pressure, resulting in dimensionally stable installations
- No threading, no soldering, no sealing materials required
- Full flow design
- Fully reusable

Materials

Body: Brass

Release Sleeve:

Fiber glass reinforced polyamide composite

Release collar: Polyamide

Retaining ring: Stainless steel

Spacer: Acetal resin

O-Ring: Nitrile rubber

Quick and easy to assemble





SCREW-TYPE COMPRESSION FITTINGS
FOR PIPES ○ 40 • 50 • 63 mm

Features and benefits

- Used with aluminium pipes
- Outside diameters: 40, 50 and 63 mm
- Quick assembly: simply insert pipe and tighten screw-type compression fittings
- Very good resistance to vibrations
- No threading, no soldering, no sealing materials required
- Full flow design, with optimal flow characteristics
- Reusable: only internal ring must be replaced

Materials

Body: Brass

Compression Ring: Brass

O-Ring: Nitrile rubber

Spacer Ring: Stainless steel

Clamp Ring: Nickel plated brass

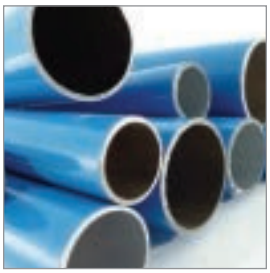
Quick and easy to assemble





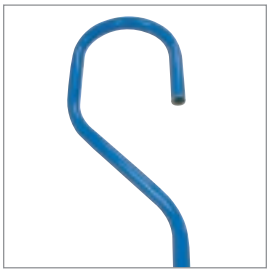
S07
QuickLINE
COMPRESSED AIR PIPING SYSTEM

PIPES



Rigid aluminium pipes

Product No	Size mm	Size in	Length m	Length ft	Weight kg
07.102	15	1/2	4	13	0.72
07.107	22	3/4	4	13	0.96
07.112	28	1	4	13	1.24
07.119	40	1-1/2	6	20	2.96
07.121	50	2	6	20	4.56
07.124	63	2-1/2	6	20	5.94

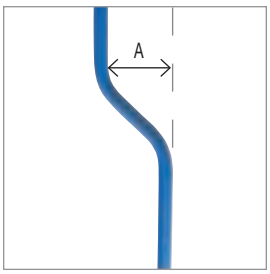


Preformed drop legs

Product No	Size mm	Size in
07.130	15	1/2
07.135	22	3/4

- Special aluminium alloy
- Ideal for tapping air off a main line without allowing water to get into the drop leg





Deviation pipes

Product No	A mm	Size mm	Size in
07.131	80	15	1/2
07.136	100	22	3/4

- Special aluminium alloy
- Ideal for getting around obstacles and correcting minor alignment problems
- Often used to offset drop legs closer to the mounting surface



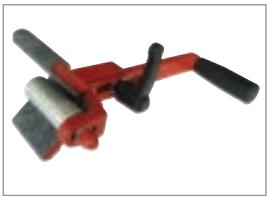
PRACTICAL TOOLS

Tools for the installation or extension of **TOPRING** compressed air distribution system



Chamfer tool

Product No	Size mm
07.570	3 to 35
07.574	15 to 50



Product No	Size mm
07.579	50 to 160



Deburring tool

Product No	Description
07.571	Tool
07.572	Replacement blades (x2)



Dismantling clip

Product No	Size mm
07.560	15
07.561	22
07.562	28



Pipe cutter 3 to 30 mm

Product No	Description
07.566	Pipe cutter
07.567	Replacement blades (x2)



Pipe cutter 6 to 64 mm

Product No	Description
07.568	Pipe cutter
07.569	Replacement blades (x2)

S07
FLEXIBLE HOSES

FLEXIBLE RUBBER ANTI-VIBRATION HOSE

Features and benefits

- Designed for bypassing obstacles and/or overcoming misalignment of airlines
- Ideal for connecting a compressor outlet to an airline system
- Expansion loops
- Adaptable to all building configurations
- Corrosion-proof rubber hose good for most environments
- Resists mineral and synthetic oils, heat and weathering
- Extends compressor and airline system life by reducing stress from vibration and misalignment

Materials

Cover:
Oil resistant synthetic rubber

Inner tube:
Oil and heat-resistant rubber

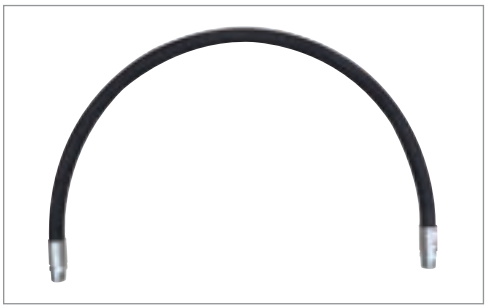
Reinforcement:
One braid of high tensile steel wire

Spécifications techniques

Temperature range:
-40 °C to 100 °C

TYPICAL INSTALLATION





Length 24 in	Length 48 in	Fittings (M) NPT	Hose I.D. in	Hose O.D. in	Maximum Pressure PSI	Minimum Bend Radius in
Product No						
09.200	09.220	1/2	1/2	0.81	500	7
09.202	09.222	3/4	3/4	1.09	500	9-1/2
09.204	09.224	1	1	1.40	500	12
09.206	09.226	1-1/4	1-1/4	1.73	500	16-1/2
09.208	09.228	1-1/2	1-1/2	1.97	500	19-11/16
09.210	09.230	2	2	2.50	500	25

HIGH TEMPERATURE FLEXIBLE STAINLESS STEEL ANTI-VIBRATION HOSE

Features and benefits

- Corrugated flexible stainless steel hose is designed to minimize vibration and heat coming from the compressor
- Protects downstream airline system from vibration shock
- Meets ISO 10380 specifications

Materials

Hose and Braid:
Stainless steel

Fitting:
Steel (Stainless steel available upon request)

Specifications

Temperature range: -40 to 250 °C

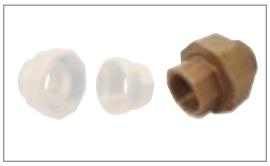
TYPICAL INSTALLATION





Length 12 in	Length 24 in	Fittings (M) NPT	Maximum Misalignment in	Maximum Working Pressure PSI at 21 °C
Product No				
09.100	09.120	1/2	1-3/4	1 137
09.102	09.122	3/4	2-3/4	910
09.104	09.124	1	3-1/2	711
09.106	09.126	1-1/4	4-1/2	568
09.108	09.128	1-1/2	5	426
09.110	09.130	2	7-5/8	398

FEMALE UNION
(3 PIECES)



Product No	Thread (F) NPT
41.368	1/2
41.369	3/4
41.370	1
41.371	1-1/4
41.373	2

TECH TIP

To minimize possible torque damage to a hose, a union or floating flange should be used at one end of the hose assembly.

S07
UNION CONNECTIONS • ELBOW UNIONS





UNION

Product No	Size mm
07.300	15
07.305	22
07.310	28





90° ELBOW UNION

Product No	Size mm
07.260	15
07.265	22
07.270	28





UNION

Product No	Size mm
07.315	40
07.317	50
07.320	63





90° ELBOW UNION

Product No	Size mm
07.275	40
07.277	50
07.280	63





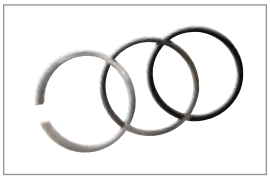
POLYAMIDE PLUG

Product No	Size mm
07.362	15
07.367	22
07.372	28



FEMALE BACKPLATE ELBOW

Product No	Size mm	Thread (F) BSPP
07.291	15	1/2



SPACER RING, CLAMP RING, O-RING

Product No	Size mm
07.580	40
07.584	50
07.585	63

S07
TEE CONNECTORS



TEE UNION

Product No	Size mm
07.330	15
07.335	22
07.340	28





TEE UNION

Product No	Size mm
07.345	40
07.342	50
07.350	63





FEMALE BRANCH TEE CONNECTOR

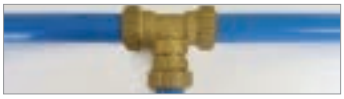
Product No	Size mm	Thread (F) BSPP
07.325	15	1/2
07.327	22	3/4
07.329	28	1

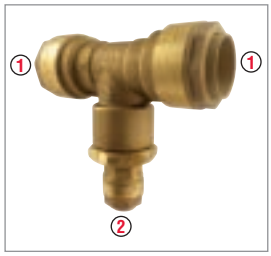




FEMALE BRANCH TEE CONNECTOR

Product No	Size mm	Thread (F) BSPP
07.346	40	1-1/4
07.347	50	1-1/2
07.351	63	2







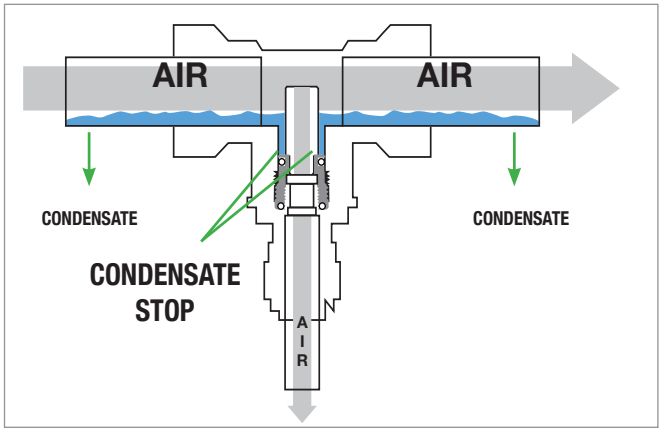
TEE REDUCER UNION

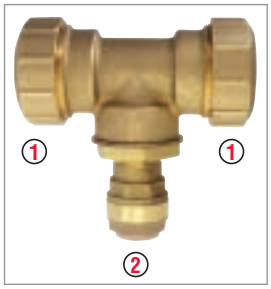
Product No	Size mm ①	Size mm ②
07.334	22	15
07.338	28	15
07.339	28	22
07.343	40	15
07.344	40	22
07.341	40	28
07.355	50	15
07.356	50	22
07.357	50	28
07.348	63	15
07.349	63	22

TEE WATER TRAPS

Features and benefits

- Makes drop installation fast and easy
- Prevents water in the main line from getting into drops
- Allows installation of drops on new or existing compressed air networks







Product No	Size mm ①	Size mm ②
07.950	28	15
07.955	28	22
07.951	40	15
07.952	40	22
07.956	40	28
07.957	50	15
07.958	50	22
07.959	50	28
07.953	63	15
07.954	63	22
07.960	63	28

Stops water from getting into the drop



S07
THREADED CONNECTORS



BSPT STRAIGHT MALE CONNECTOR

Product No	Size mm	Thread (M) BSPT
07.200	15	1/2
07.204	22	1/2
07.205	22	3/4
07.210	28	1



Product No	Size mm	Thread (M) BSPT
07.215	40	1-1/4
07.217	50	1-1/2
07.220	63	2



BSPP STRAIGHT FEMALE CONNECTOR

Product No	Size mm	Thread (F) BSPP
07.230	15	1/2
07.234	22	1/2
07.235	22	3/4
07.240	28	1



Product No	Size mm	Thread (F) BSPP
07.245	40	1-1/4
07.247	50	1-1/2
07.250	63	2



NPT STRAIGHT MALE CONNECTOR

Product No	Size mm	Thread (M) NPT
07.222	15	1/2
07.223	22	1/2
07.224	22	3/4
07.225	28	1



Product No	Size mm	Thread (M) NPT
07.226	40	1-1/4
07.227	50	1-1/2
07.229	63	1-1/2
07.228	63	2



NPT STRAIGHT FEMALE CONNECTOR

Product No	Size mm	Thread (F) NPT
07.252	15	1/2
07.254	22	3/4
07.255	28	1



Product No	Size mm	Thread (F) NPT
07.256	40	1-1/4
07.257	50	1-1/2
07.258	63	2



END-CAP

Product No	Size mm
07.360	15
07.365	22
07.370	28

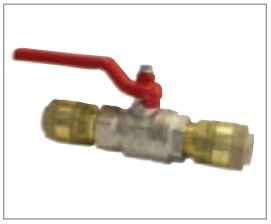


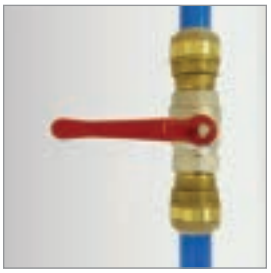


Product No	Size mm
07.375	40
07.376	50
07.380	63



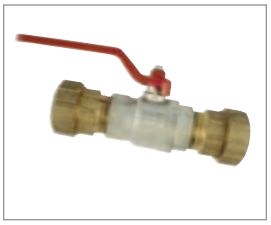
S07
BALL VALVES AND DRAINS





STANDARD BALL VALVE

Product No	Size mm
07.400	15
07.405	22
07.410	28





STANDARD BALL VALVE

Product No	Size mm
07.415	40
07.417	50
07.420	63

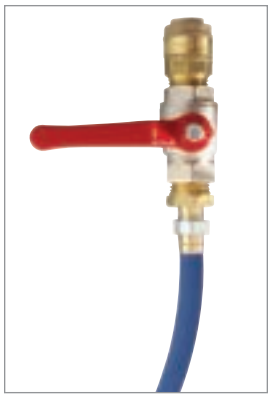




LOCKOUT SAFETY EXHAUST BALL VALVE

SAFETY

Product No	Size mm
07.401	15
07.406	22
07.411	28



MANUAL DRAIN

Product No	Size mm
07.600	15
07.605	22

With ball valve, hose, hose clamp and fittings



MECHANICAL FLOAT- OPERATED AUTOMATIC DRAIN

Product No	Size mm
07.601	15
07.606	22

With ball valve, fitting and «Y» filter



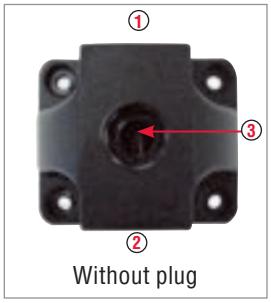


LOCKOUT HIGH FLOW SAFETY EXHAUST VALVE

SAFETY

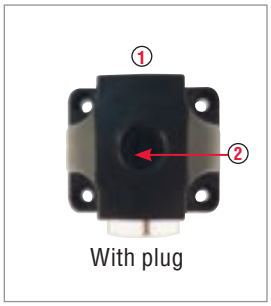
Product No	Size mm
07.430	15
07.435	22
07.440	28

S07
COMPOSITE MANIFOLDS / 1 OUTLET



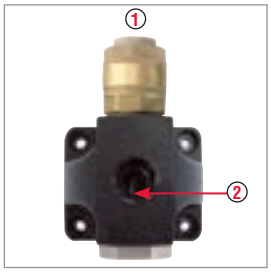
Without plug

Product No	Inlet (F) BSPP ①	Outlet (F) BSPP ②	Outlet (F) NPT ③
47.100	1/2	1/2	3/8

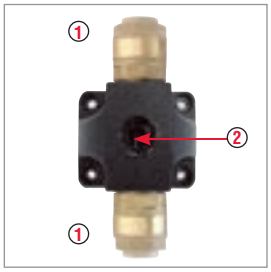


With plug

Product No	Inlet (F) BSPP ①	Outlet (F) NPT ②
47.102	1/2	3/8



Product No	Size mm ①	Outlet (F) NPT ②
07.450	15	3/8



Product No	Size mm ①	Outlet (F) NPT ②
07.455	15	3/8



Product No	Size mm	Quick Coupler
07.457	15	QUIKSILVER 1/4 INDUSTRIAL

Coupler Specifications
- Accepts **1/4 INDUSTRIAL** type plugs
- Automatic push-to-connect operation
- Easy to connect, even under pressure



Product No	Size mm	Quick Coupler
07.457.02	15	QUIKSILVER ULTRAFLO

Coupler Specifications
- Accepts **ULTRAFLO** type plugs
- Automatic push-to-connect operation
- Easy to connect, even under pressure



SPACERS FOR COMPOSITE MANIFOLD - 1 OUTLET

Product No	Thickness
47.122	9 mm



TECH TIP
Installation requires screws #6

S07
COMPOSITE MANIFOLDS / 2 OUTLETS



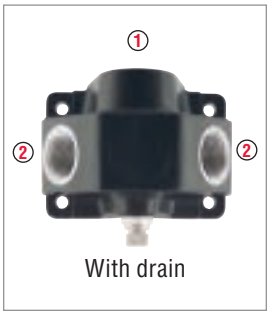
Without drain

Product No	Inlet (F) BSPP ①	Outlet (F) NPT ②
47.108	1/2	1/2 (2x)
47.110	3/4	1/2 (2x)



Product No	Size mm	Quick Coupler
07.463	15	QUIKSILVER 1/4 INDUSTRIAL (2x)
07.464	22	

Coupler Specifications
- Accepts **1/4 INDUSTRIAL** type plugs
- Automatic push-to-connect operation
- Easy to connect, even under pressure



With drain

Product No	Inlet (F) BSPP ①	Outlet (F) NPT ②
47.109	1/2	1/2 (2x)
47.111	3/4	1/2 (2x)



Product No	Size mm	Quick Coupler
07.463.02	15	QUIKSILVER ULTRAFLO (2x)
07.464.02	22	

Coupler Specifications
- Accepts **ULTRAFLO** type plugs
- Automatic push-to-connect operation
- Easy to connect, even under pressure



Product No	Size mm ①	Outlet (F) NPT ②
07.470	15	1/2 (2x)
07.475	22	1/2 (2x)



SPACERS FOR COMPOSITE MANIFOLDS - 2 OR 3 OUTLETS

Product No	Thickness
47.118	10 mm
47.119	13 mm
47.120	20 mm



TECH TIP

Installation requires screws #8

S07
COMPOSITE MANIFOLDS / 3 OUTLETS



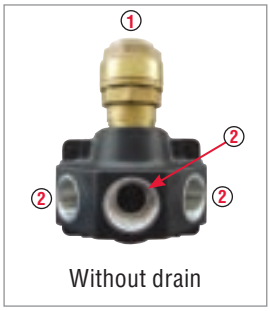
Without drain

Prod. No	Inlet (F) BSPP ①	Outlet (F) NPT ②
47.114	1/2	1/2 (3x)
47.112	3/4	1/2 (3x)



With drain

Product No	Inlet (F) BSPP ①	Outlet (F) NPT ②
47.115	1/2	1/2 (3x)
47.113	3/4	1/2 (3x)



Without drain

Product No	Size mm ①	Outlet (F) NPT ②
07.480	22	1/2 (3x)



Product No	Size mm	Quick Coupler
07.481	15	QUIKSILVER 1/4 INDUSTRIAL (3x)
07.482	22	

Coupler Specifications

- Accepts **1/4 INDUSTRIAL** type plugs
- Automatic push-to-connect operation
- Easy to connect, even under pressure



SPACERS FOR COMPOSITE MANIFOLD - 2 OR 3 OUTLETS

Product No	Thickness
47.118	10 mm
47.119	13 mm
47.120	20 mm



TECH TIP

Installation requires screws #8

COMPOSITE MANIFOLDS / 4 OUTLETS



Product No	Inlet (F) BSPP ①	Outlet (F) NPT ②
47.150	1/2	1/2 (4x)
47.155	3/4	1/2 (4x)



Product No	Size mm ①	Outlet (F) NPT ②
07.487	1/2	1/2 (4x)
07.489	3/4	1/2 (4x)



SPACERS FOR COMPOSITE MANIFOLD - 4 OUTLETS

Product No	Thickness
47.121	10 mm



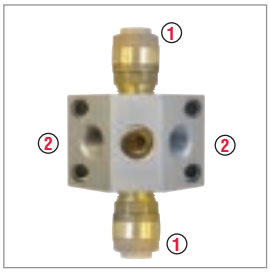
TECH TIP

Installation requires screws #10 or 1/4

S07
ALUMINIUM MANIFOLDS / 2 OUTLETS

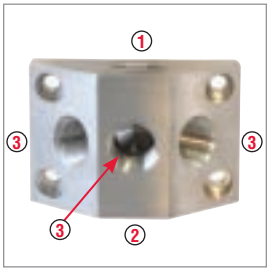


Product No	Size mm ○ ①	Outlet (F) NPT ②
07.492	15	3/8 (2x)
07.496	22	3/8 (2x)
07.445	28	1/2 (2x)

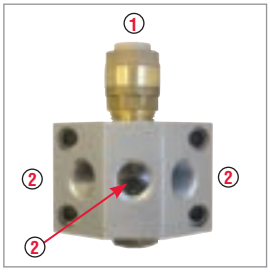


Product No	Size mm ○ ①	Outlet (F) NPT ②
07.493	15	3/8 (2x)
07.497	22	3/8 (2x)
07.446	28	1/2 (2x)

ALUMINIUM MANIFOLDS / 3 OUTLETS



Product No	Top Inlet (F) BSPP ①	Outlet (F) BSPP ②	Outlet (F) NPT ③
47.307	3/4	3/4	3/8 (3x)
47.310	3/4	3/4	1/2 (3x)
47.320	1	1	1/2 (3x)



Product No	Size mm ○ ①	Outlet (F) NPT ②
07.441	15	1/4 (3x)
07.494	15	3/8 (3x)
07.442	22	3/8 (3x)
07.443	28	1/2 (3x)



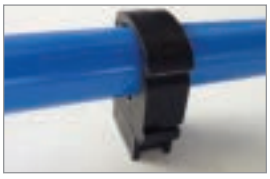
Product No	Size mm ○	Quick Coupler
07.424	15	QUIKSILVER 1/4 INDUSTRIAL (3x)
07.425	22	
07.426	28	

Quick Coupler Specifications

- Accepts **1/4 INDUSTRIAL** type plugs
- Automatic push-to-connect operation
- Easy to connect, even under pressure

S07
FIXING CLIPS FOR RIGID PIPES





MOUNTING CLIP
15-22-28 mm

Product No	Size mm
07.500	15
07.505	22
07.510	28

Hole size 5.2 mm / Screw #14

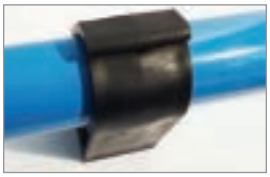


CLIP SPACER
15-22-28 mm

Product No	Thickness
07.512	10 mm

The clip spacer compensates for the height difference which is created when connecting pipes of a different diameter allowing perfect alignment

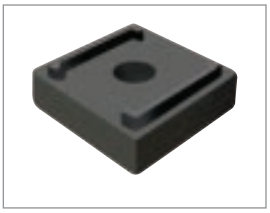


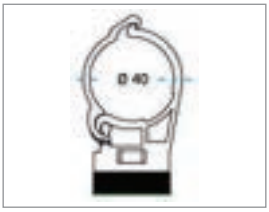


MOUNTING CLIP
15-22-28 mm

Product No	Size mm
07.544	40
07.545	50
07.546	63

Hole size 5.2 mm / Screw #14





CLIP SPACER
40-50-63 mm

Product No	Thickness
07.549	10 mm

The clip spacer compensates for the height difference which is created when connecting pipes of a different diameter allowing perfect alignment



EPDM INSERT FOR FIXING PIPE CLIP
40-50-63 mm

Product No
07.548

Create a fix support for thermal expansion compensation

Recommended spacing

- Fixing clip should be placed at every 2 meters maximum (for all diameters 20 to 63 mm)
- Clip must be installed at least 20 cm from of a fitting (downstream or upstream)

Creating a fixed support

To create a fixed support in order to compensate for thermal expansion, add the EPDM insert inside the pipe clip





TECH TIP

Refer to manifolds guide at page 106 for optimal piping alignment

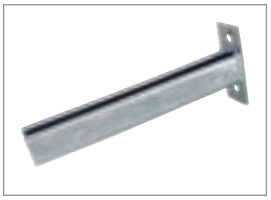
S07
INSTALLATION ACCESSORIES





STRUT ADAPTER FOR PIPE CLIPS

Product No	Description
07.540	For all wall mounting pipe clips



CANTILEVER ARM 1-5/8 in x 1-5/8 in

Product No	Length in
07.550	6
07.551	12



STRUT CHANNEL 1-5/8 in x 1-5/8 in

Product No	Length ft
07.555	10



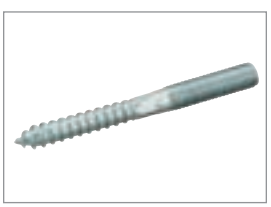
THREADED ROD 10 ft

Product No	Size
07.526	3/8 UNC



COUPLING NUT

Product No	Size
07.528	3/8 UNC



SCREW

Product No	Size
07.529	3/8 UNC



SUSPENDED PIPE CLIPS

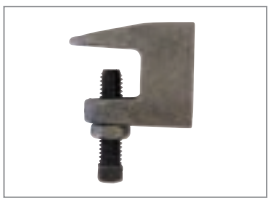
Product No	Size mm	Nut
07.508	28	3/8 UNC
07.518	40	3/8 UNC
07.520	50	3/8 UNC





SWIVEL LOOP HANGERS

Product No	Size mm	For Threaded rod
07.507	28	3/8 UNC
07.517	40	3/8 UNC
07.521	50	3/8 UNC
07.522	63	3/8 UNC





I - BEAM CLAMP

Product No	Beam thickness in	For threaded rod
07.535	1/4 - 3/4	3/8 UNC

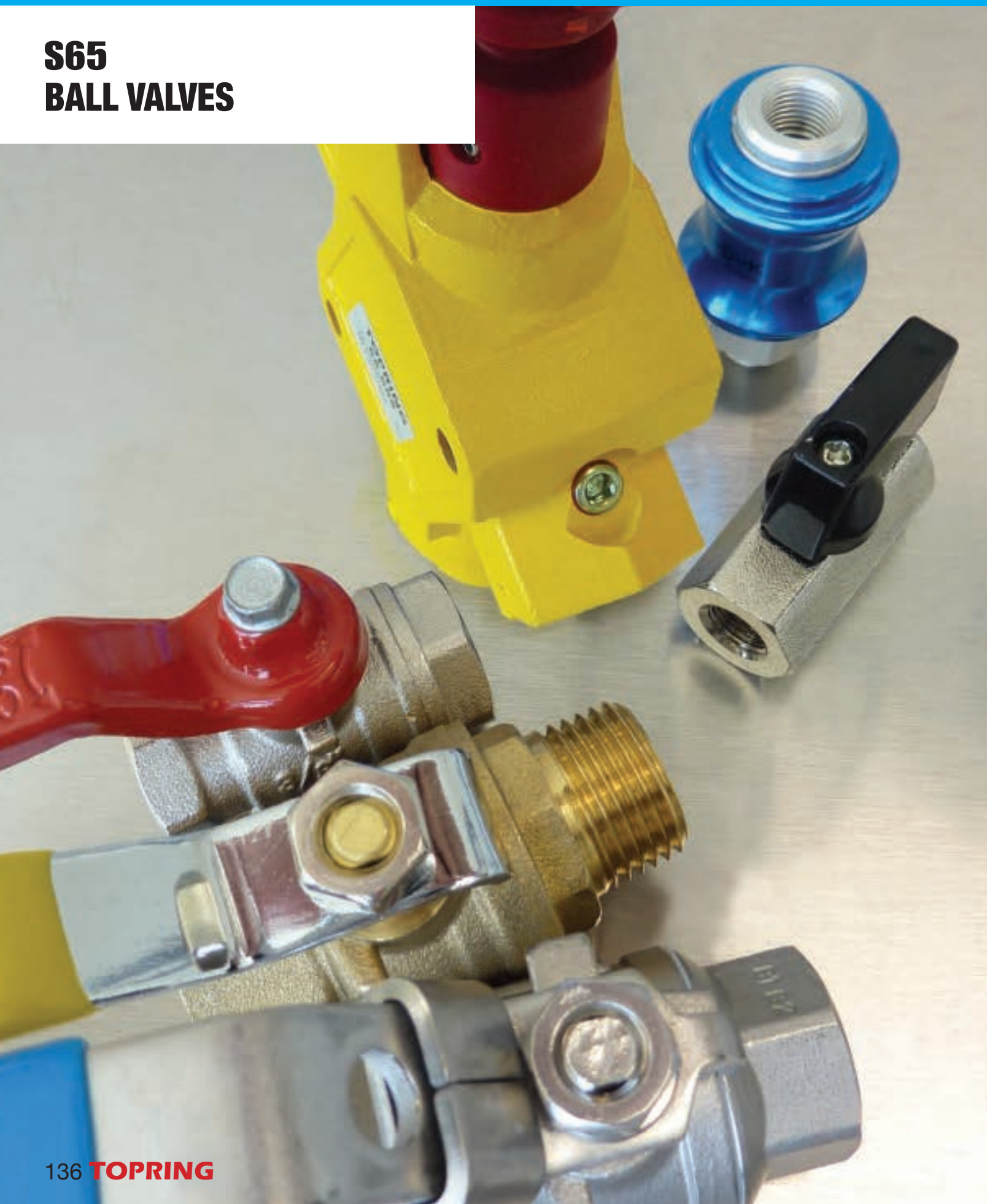




I - BEAM MOUNTING CLIP

Product No	Beam thickness in
07.530	1/8 - 1/4
07.531	3/8 - 1/2
07.532	1/2 - 3/4

S65
BALL VALVES



S65
BRASS BALL VALVES

Features and benefits

- Industrial quality 2-piece forged brass
- Precision machined for maximum strength, durability and maintenance-free operation
- Full flow design
- Chrome plated brass ball valve and nickel plated brass body for long service life and extra corrosion resistance

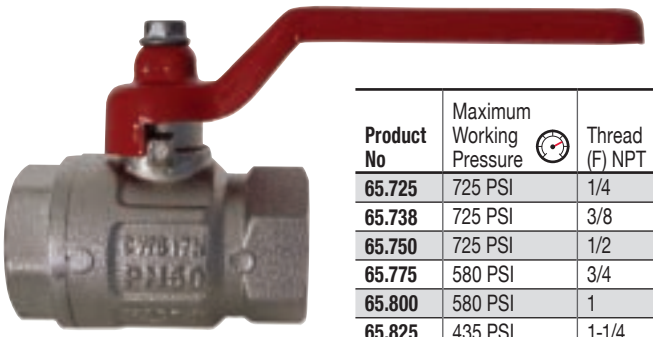
Applications

Compressed air and water distribution systems

TECH TIP

90% of air leakage is generated in the compressed air distribution system. In order to minimize the negative impact of these leaks, it is strongly recommended to install ball valves or even better « **AIR-SAVER** » programmable ball valves to isolate the compressed air distribution system from the compressor.

FEMALE / FEMALE
FULL FLOW 1/4 - 2 NPT



Product No	Maximum Working Pressure	Thread (F) NPT	Weight kg
65.725	725 PSI	1/4	0.18
65.738	725 PSI	3/8	0.15
65.750	725 PSI	1/2	0.19
65.775	580 PSI	3/4	0.32
65.800	580 PSI	1	0.46
65.825	435 PSI	1-1/4	0.70
65.850	435 PSI	1-1/2	1.03
65.900	362 PSI	2	1.66

Materials

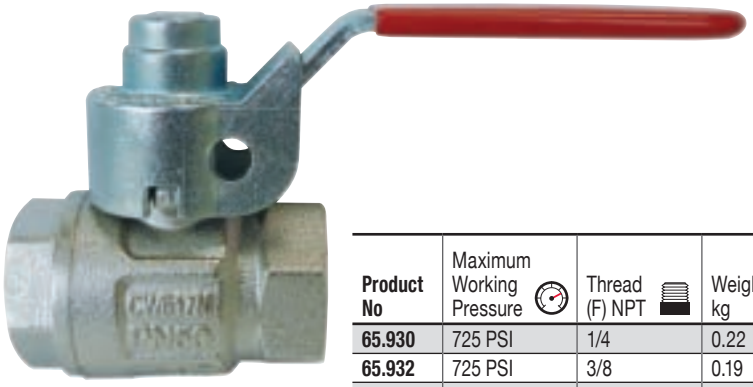
Body: Nickel plated brass
Ball: Chrome plated brass
Stem Seal: Brass
Ball Seal: PTFE
Handle: Steel
Seals: Nitrile rubber and Viton®

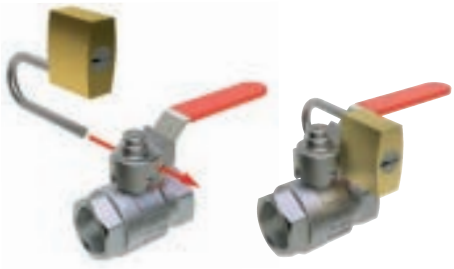
Specifications

Working Temperature: -20 to 150 °C

FEMALE / FEMALE
FULL FLOW 1/4 - 1 NPT
LOCKOUT







Product No	Maximum Working Pressure	Thread (F) NPT	Weight kg
65.930	725 PSI	1/4	0.22
65.932	725 PSI	3/8	0.19
65.934	725 PSI	1/2	0.23
65.936	580 PSI	3/4	0.37
65.938	580 PSI	1	0.51

Materials

Body: Nickel plated brass
Ball: Chrome plated brass
Stem Seal: Brass
Ball Seal: PTFE
Handle: Steel
Seals : Nitrile rubber and Viton®

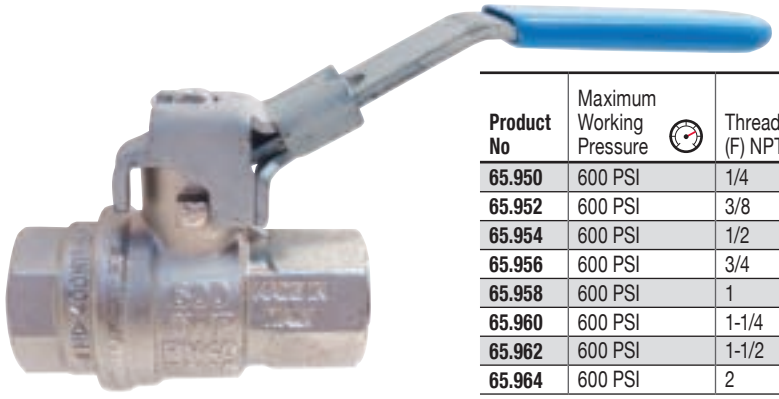
Specifications

Working Temperature: -20 to 150 °C

S65
BRASS BALL VALVES

FEMALE / FEMALE
FULL FLOW 1/4 - 2 NPT
LOCKOUT

SAFETY LOCKOUT CRN CANADIAN REGISTRATION NUMBER



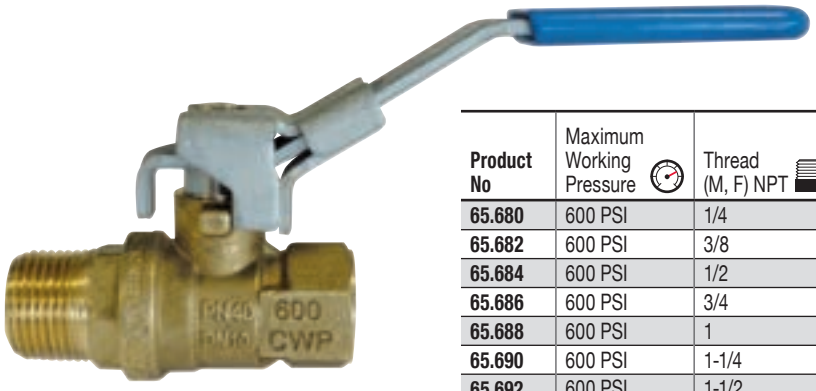
Product No	Maximum Working Pressure	Thread (F) NPT	Weight kg
65.950	600 PSI	1/4	0.17
65.952	600 PSI	3/8	0.15
65.954	600 PSI	1/2	0.24
65.956	600 PSI	3/4	0.38
65.958	600 PSI	1	0.63
65.960	600 PSI	1-1/4	0.95
65.962	600 PSI	1-1/2	1.18
65.964	600 PSI	2	1.93

Materials
Body: Brass
Ball: Chrome plated brass
Stem and Ball Seals: PTFE
Handle: Steel with PVC

Specifications
Working Temperature: -40 to 177 °C

MALE / FEMALE
FULL FLOW 1/4 - 2 NPT
LOCKOUT

SAFETY LOCKOUT CRN CANADIAN REGISTRATION NUMBER

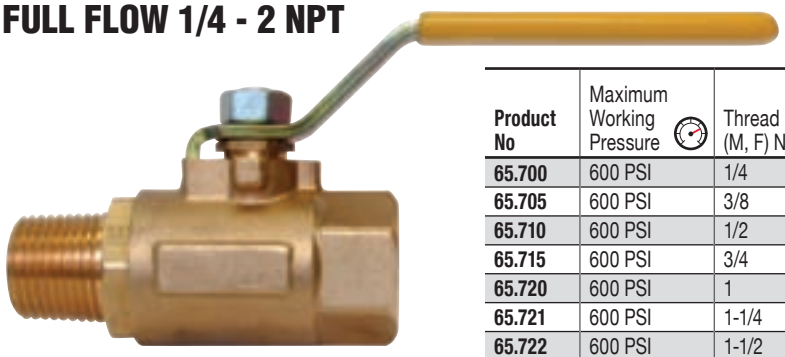


Product No	Maximum Working Pressure	Thread (M, F) NPT	Weight kg
65.680	600 PSI	1/4	0.17
65.682	600 PSI	3/8	0.15
65.684	600 PSI	1/2	0.23
65.686	600 PSI	3/4	0.37
65.688	600 PSI	1	0.62
65.690	600 PSI	1-1/4	0.94
65.692	600 PSI	1-1/2	1.16
65.694	600 PSI	2	1.91

Materials
Body: Brass
Ball: Chrome plated brass
Stem and Ball Seals: PTFE
Handle: Steel with PVC

Specifications
Working Temperature: -40 to 177 °C

MALE / FEMALE
FULL FLOW 1/4 - 2 NPT



Product No	Maximum Working Pressure	Thread (M, F) NPT	Weight kg
65.700	600 PSI	1/4	0.26
65.705	600 PSI	3/8	0.26
65.710	600 PSI	1/2	0.34
65.715	600 PSI	3/4	0.39
65.720	600 PSI	1	0.63
65.721	600 PSI	1-1/4	1.61
65.722	600 PSI	1-1/2	2.50
65.723	600 PSI	2	3.48

Materials
Body: Brass
Ball: Chrome plated brass
Stem and Ball Seals: PTFE
Handle: Steel with PVC

Specifications
Working Temperature: -29 to 120 °C

S65

STAINLESS STEEL BALL VALVES

Features and benefits

- Dual sealing system allows ball valve to be operated in either direction
- Plastic coated stainless steel lockable handle offering both thermal and electrical protection
- Removable handle while ball valve is in service
- Handle clearly shows flow direction
- Silicone-free lubricant on all seals

Applications

Corrosive environments, compressed air, water, oil and gas distribution systems

Materials

Body and Stem: Stainless steel 316

Seals: PTFE

Handle: PVC coated stainless steel

Specifications

Maximum Working Pressure: 1000 PSI

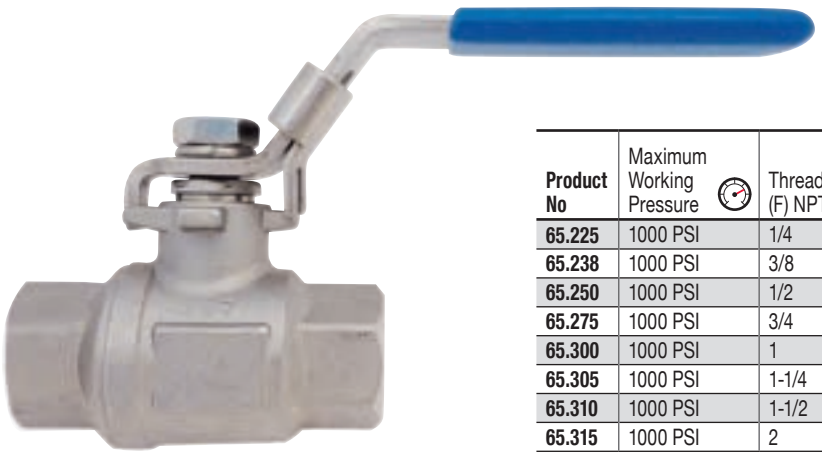
Working Temperature:

Full flow: -45 to 232 °C

Reduced flow: -45 to 204 °C

FEMALE / FEMALE FULL FLOW 1/4 - 2 NPT LOCKOUT

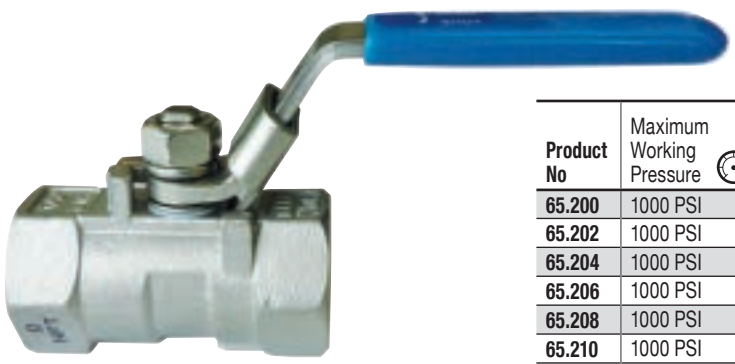




Product No	Maximum Working Pressure	Thread (F) NPT	Weight kg
65.225	1000 PSI	1/4	0.23
65.238	1000 PSI	3/8	0.27
65.250	1000 PSI	1/2	0.36
65.275	1000 PSI	3/4	0.50
65.300	1000 PSI	1	0.64
65.305	1000 PSI	1-1/4	0.73
65.310	1000 PSI	1-1/2	0.84
65.315	1000 PSI	2	1.29

FEMALE / FEMALE REDUCED FLOW 1/4 - 2 NPT LOCKOUT



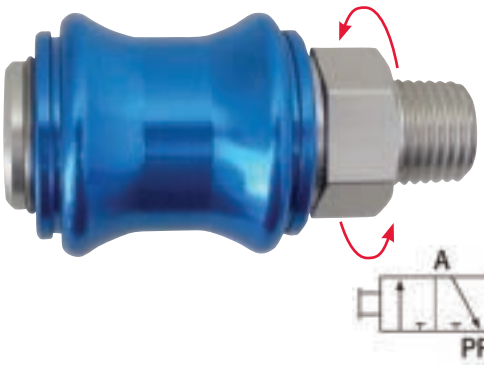


Product No	Maximum Working Pressure	Thread (F) NPT	Weight kg
65.200	1000 PSI	1/4	0.07
65.202	1000 PSI	3/8	0.10
65.204	1000 PSI	1/2	0.18
65.206	1000 PSI	3/4	0.28
65.208	1000 PSI	1	0.44
65.210	1000 PSI	1-1/4	0.65
65.212	1000 PSI	1-1/2	0.82
65.214	1000 PSI	2	1.37

S65
SLIDE VALVES

Features and benefits

- Manually operated slide valves provide simple on/off airflow control
- Downstream air exhausts when slide valve is closed



Applications

Ideal low-cost method for operating single-action pneumatic cylinders, air clamps, air gauges and similar air-actuated devices

Materials

Aluminium

Specifications

Maximum Working Pressure: 145 PSI

Working Temperature: -20 to 70°C



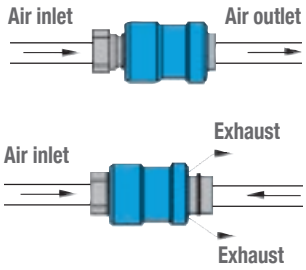
Product No	Thread (F) NPT	Thread (M) NPT	Flow SCFM*
65.600	1/8	1/8	41
65.605	1/4	1/4	74
65.615	3/8	3/8	99
65.625	1/2	1/2	102
65.635	3/4	3/4	189
65.645	1	1	282

* Inlet 100 PSI, 10 PSI pressure drop

Operating instructions

By moving the sleeve in one direction, the air is free to pass through the slide valve to the circuit.

By sliding the sleeve in the opposite direction, the air supply is shut off and the downstream air is allowed to exhaust, thus rendering the tool or machine inoperative.



BRASS MINI BALL VALVES

Features and benefits

- Nitrile o-ring for a positive seal in both directions, making installation easier
- Compact corrosion-resistant aluminium handle
- Compact design
- No maintenance required

Applications

Compressed air and water distribution systems

Materials

Body: Nickel plated brass

Ball: Chrome plated brass

Handle: Aluminium

O-Ring: Nitrile

Specifications

Maximum Working Pressure: 450 PSI

Working Temperature: -0 to 80 °C



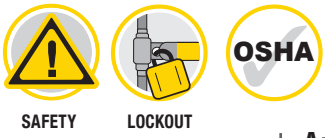
Product No	Thread (F) NPT
65.118	1/8
65.125	1/4
65.138	3/8
65.150	1/2



Product No	Thread (M, F) NPT
65.119	1/8
65.126	1/4
65.139	3/8
65.151	1/2

S65

SAFETY LOCKOUT EXHAUST BALL VALVES



Features and benefits

- 100% full flow port for maximum flow
- Exhausts automatically and continuously downstream air pressure as soon as turned in the closed position
- Ball valve is lockable in the closed position only, according to Part. 1910.147 Safety OSHA requirements to allow safe maintenance of the air supplied equipment
- When ball valve is open, one simple quarter turn of the handle shuts off the flow immediately
- Ball valve body includes a tapped downstream depressurization venting outlet (10-32 UNF) to direct exhaust air and assemble muffler for noise reduction
- Sturdy handle with a 8.4mm hole for locking the ball valve with a padlock
- Vinyl coated steel handle, offering both thermal and electrical protection
- Silicone-free lubricant on all seals
- Fast, safe de-energizing of pneumatic equipment

Applications

Compressed air distribution systems

Materials

Body: Brass

Ball: Chrome plated brass

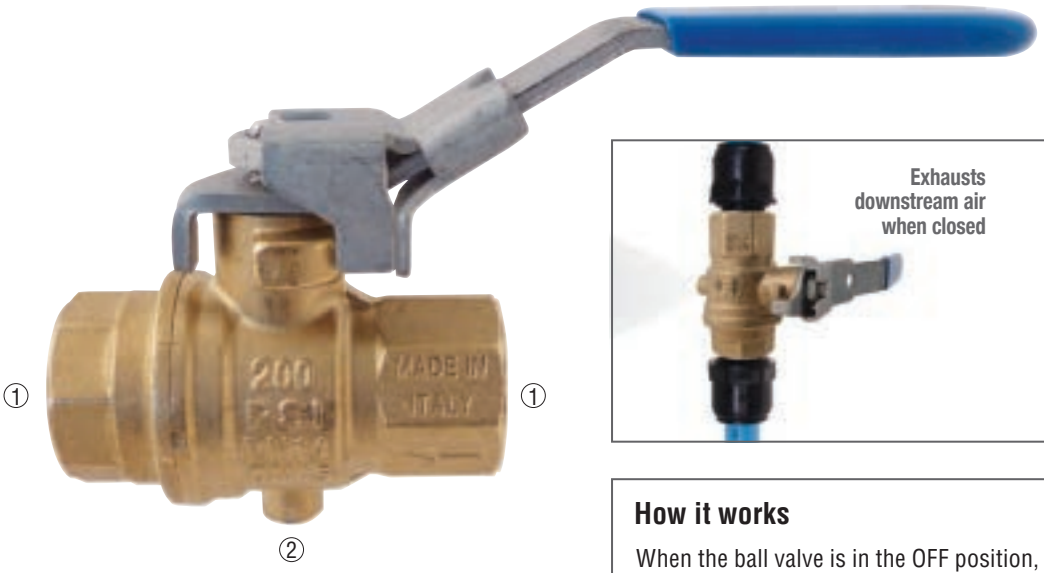
Seals: Reinforced PTFE

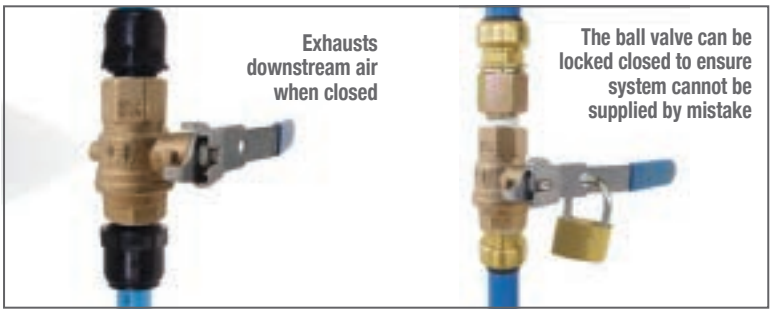
Handle: Steel with PVC

Specifications

Maximum Working Pressure: 200 PSI

Working Temperature: -9 to 99 °C



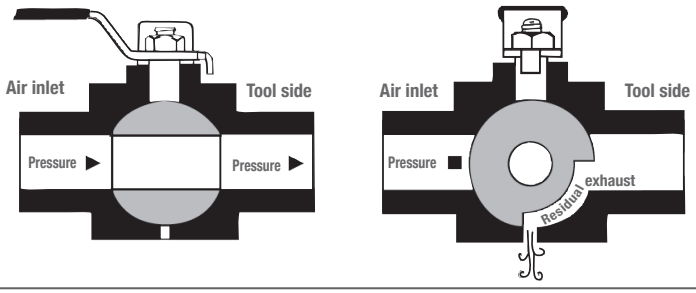


Product No	① Thread (F) NPT	② Exhaust Thread	Weight kg
65.500	1/4	10-32 UNF	0.18
65.505	3/8	10-32 UNF	0.16
65.510	1/2	10-32 UNF	0.24
65.515	3/4	10-32 UNF	0.38
65.520	1	10-32 UNF	0.63
65.525	1-1/4	1/4 NPT	1.09
65.530	1-1/2	1/4 NPT	1.46
65.535	2	1/4 NPT	2.40

How it works

When the ball valve is in the OFF position, the exhaust port vents residual air on the downstream side of the ball valve.

This ensures that air-powered equipment is safe to service.



S65

AIRFLO®
SAFETY AND LOCKOUT VENTING VALVES



Features and benefits

- 3-port/2-position venting valve relieves downstream pressure when closed
- Can be locked only in the closed position
- Can be mounted directly to AIRFLO FRL using standard AIRFLO spacers included
- Threaded ports allow direct assembly with other components
- 6 mm hole for locking the valve with a standard single padlock or safety lock for multiple lockout
- Meet OSHA Standard 29 CFR Part 1910.147

Applications
Compressed air distribution systems

Materials
Body: Aluminium
Buttom Plug and Handle: Zinc
Internal: Steel and rubber

Specifications
Maximum Working Pressure: 150 PSI
Working Temperature: 5 to 60 °C



Product No	Thread (F) NPT	Vent Port	Suggested Muffler
51.270	1/4	1/8	86.600
51.370	1/4	1/4	86.605
51.375	3/8	1/4	86.605
51.470	3/8	3/8	86.610
51.475	1/2	3/8	86.610
51.575	1	3/8	86.610



MODULAIR®
SAFETY AND LOCKOUT VENTING VALVES



Features and benefits

- 3-port/2-position venting valve relieves downstream pressure when closed
- Can be locked only in the closed position
- Threaded ports allow use in-line with other components
- Can be mounted directly to AIRFLO FRL using standard spacers included
- 8 mm holes for locking the valve with a standard single padlock or safety lock for multiple lockout
- Meet OSHA Standard 29 CFR Part 1910.147

Applications
Compressed air distribution systems

Materials
Body: Zinc
Handle: Acetal
O-Ring: Nitrile

Specifications
Maximum Working Pressure: 300 PSI
Working Temperature: 4 to 66 °C



Product No	Thread (F) NPT
50.781	1/4
50.783	1/4
50.784	3/8
50.785	1/2
50.786	1/2
50.787	3/4



Allows a double lockout

S65

HIGH FLOW SAFETY EXHAUST/LOCKOUT VALVES

SAFETY LOCKOUT

Features and benefits

The high flow safety lockout valve is a 2-position, 3-way valve that exhausts downstream air when shifted to the closed position.

Colored bright yellow with a red handle, it is easily distinguished from other air preparation components.

A standard padlock can be inserted in the hole of the plunger to lock the unit in a non-flowing position, keeping it safe for downstream maintenance.

- Meet OSHA Standard 29 CFR Part 1910.147
- High flow exhaust port
- Yellow cast aluminum body with red handle (NACE MR0175 / ISO 15156)for high visibility
- Muffler included

Applications

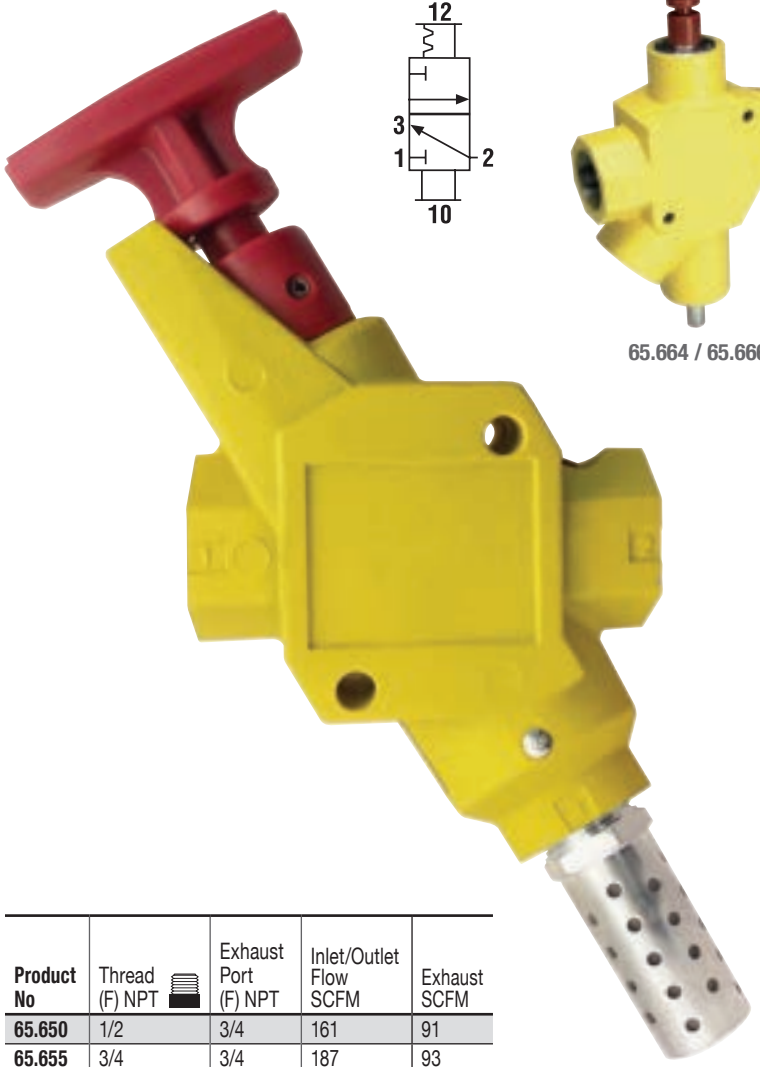
In accordance with OSHA Standards, lockout valves are used during maintenance and service procedures of air operated equipment (5 micron). Lockout ball valves are installed in pneumatic drop legs or individual pneumatic control lines.

Materials

Body: Cast aluminium alloy
Handle: Plastic
Spool: Aluminium
Seals: Nitrile rubber
Spring: Stainless steel

Specifications

Maximum Working Pressure: 300 PSI
Working Temperature: 4 to 79 °C





65.664 / 65.666

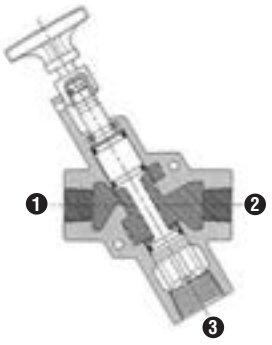
Product No	Thread (F) NPT	Exhaust Port (F) NPT	Inlet/Outlet Flow SCFM	Exhaust SCFM
65.650	1/2	3/4	161	91
65.655	3/4	3/4	187	93
65.660	1	1-1/4	375	216
65.662	1-1/4	1-1/4	436	221
65.664	1-1/2	2	761	1156
65.666	2	2	918	1186

How it works

NORMAL OPERATION - VALVE OPEN

With the handle pulled outward:

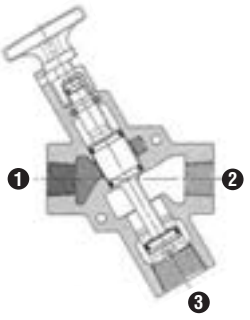
Inlet port ❶ is open to outlet port ❷ and exhaust port ❸ is blocked.



LOCKOUT OPERATION - VALVE CLOSED

With the handle pulled inwardly:

Inlet port ❶ is blocked and outlet port ❷ is open to exhaust port ❸.



TECH TIP

Prior to servicing, the red handle is pressed inward, blocking pressure and relieving all downstream air pressure. A padlock is installed through the locking hasp, preventing accidental actuation during the maintenance procedure. Following maintenance, the padlock is removed and the red handle is pulled outward, returning air pressure to the system.

S47
MANIFOLDS



S47
COMPOSITE MANIFOLDS

Features and benefits

- Provide a convenient junction point for compressed air distribution systems requiring multiple connections
- Each manifold accepts one to four quick couplers or air hoses

Materials

Body: Polyamide

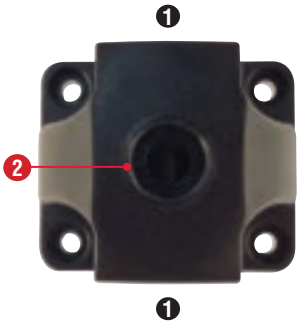
Insert: Aluminium

Specifications

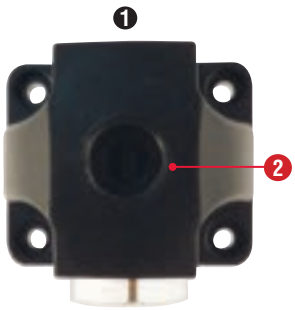
Maximum Working Pressure: 232 PSI

Working Temperature: -20 to 70 °C

MANIFOLDS / 1 OUTLET



Without plug



With plug

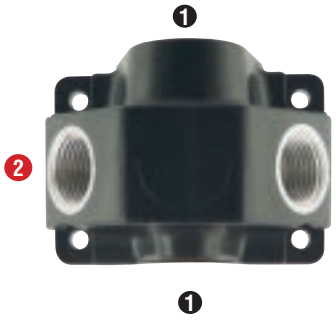
Product No		Inlet (F) NPT 1	Outlet * (F) NPT 2
Without Plug	With Plug		
47.126	47.127	1/2	3/8

Product No		Inlet (F) BSPP 1	Outlet * (F) NPT 2
Without Plug	With Plug		
47.100	47.102	1/2	3/8

* Insert is made in composite

NOTE: Installation requires screws #6

MANIFOLDS / 2 OUTLETS



Without drain



With drain

Product No		Inlet (F) NPT 1	Outlet (F) NPT 2
Without Drain	With Drain		
47.130	47.131	1/2	1/2
47.132	47.133	3/4	1/2

Product No		Inlet (F) BSPP 1	Outlet (F) NPT 2
Without Drain	With Drain		
47.108	47.109	1/2	1/2
47.110	47.111	3/4	1/2

NOTE: Installation requires screws #8

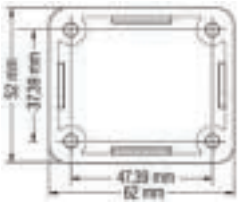
SPACER FOR MANIFOLDS WITH 1 OUTLET





Product No	Thickness
47.122	9 mm

NOTE: Installation requires screws #6



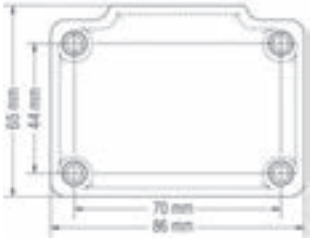
SPACERS FOR MANIFOLDS WITH 2 OUTLETS





Product No	Thickness
47.118	10 mm
47.119	13 mm
47.120	20 mm

NOTE: Installation requires screws #8



S47
COMPOSITE MANIFOLDS

Features and benefits

- Provide a convenient junction point for compressed air distribution systems requiring multiple connections
- Each manifold accepts one to four quick couplers or air hoses

Materials

Body: Polyamide

Insert: Aluminium

Specifications

Maximum Working Pressure: 232 PSI

Working Temperature: -20 to 70 °C

TECH TIP

Manifolds can be quickly and easily modified by using reducing bushings and caps (see Series 41)



MANIFOLDS / 3 OUTLETS



Without drain — With drain

Product No		Inlet (F) NPT ❶	Outlet (F) NPT ❷
Without Drain	With Drain		
47.136	47.137	1/2	1/2
47.134	47.135	3/4	1/2

Product No		Inlet (F) BSPP ❶	Outlet (F) NPT ❷
Without Drain	With Drain		
47.114	47.115	1/2	1/2
47.112	47.113	3/4	1/2

NOTE: Installation requires screws #8

MANIFOLDS / 4 OUTLETS



Product No	Inlet (F) NPT ❶	Outlet (F) NPT ❷
47.140	1/2	1/2
47.144	3/4	1/2

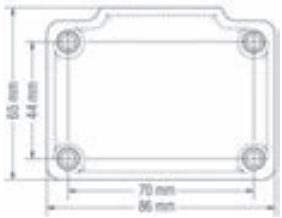
Product No	Inlet (F) BSPP ❶	Outlet (F) NPT ❷
47.150	1/2	1/2
47.155	3/4	1/2

NOTE: Installation requires screws #8

SPACERS FOR MANIFOLDS WITH 3 OUTLETS







Product No	Thickness
47.118	10 mm
47.119	13 mm
47.120	20 mm

NOTE: Installation requires screws #8

SPACERS FOR MANIFOLDS WITH 4 OUTLETS





Product No	Thickness
47.121	10 mm

NOTE: Installation requires screws #10 or 1/4

S47
ALUMINIUM MANIFOLDS

Features and benefits

- Provide a convenient junction point for compressed air distribution systems requiring multiple connections
- Universal manifold with 3 outlets

Material

Aluminium

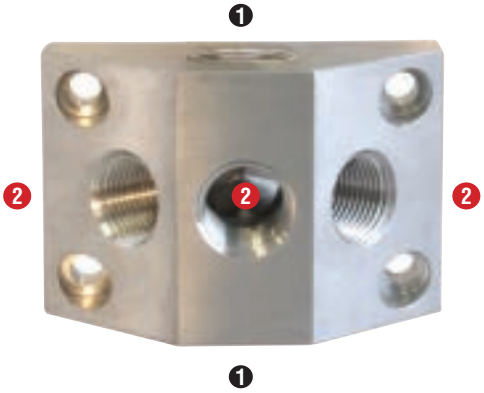
Specifications

Maximum Working Pressure: 300 PSI

Working Temperature: -20 to 60 °C



MANIFOLD / 3 OUTLETS



Product No	Inlet / Outlet (F) NPT 1	Outlet (F) NPT 2
47.300	1/2	1/4

Product No	Inlet / Outlet (F) BSPP 1	Outlet (F) NPT 2
47.307	3/4	3/8
47.310	3/4	1/2
47.320	1	1/2

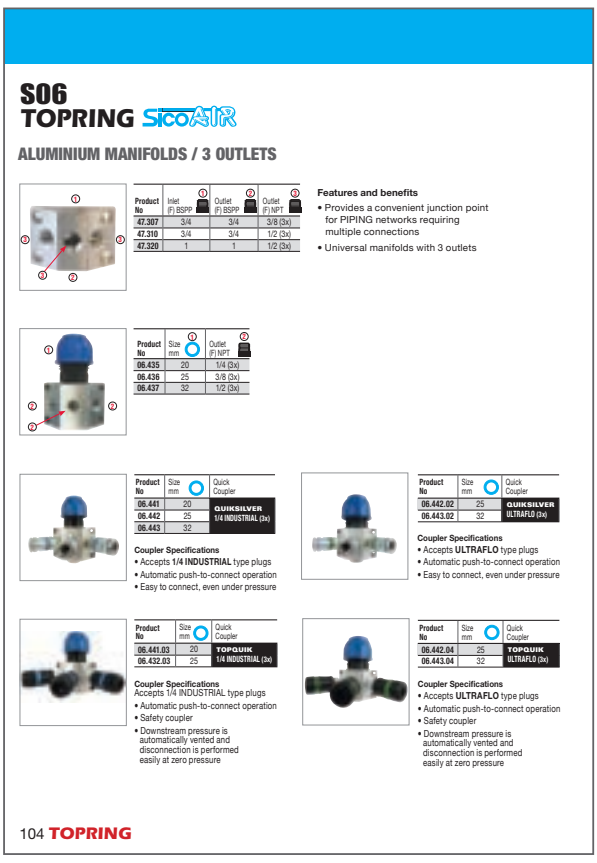
NOTE: Installation requires screws #8

TECH TIPS

Manifolds can be quickly and easily modified by using reducing bushings and caps (see Series 41)

Compatible spacers:
47.118 / 47.119 / 47.120 (see page 145)




S06
TOPRING SICOAIR
ALUMINIUM MANIFOLDS / 3 OUTLETS
Features and benefits
• Provides a convenient junction point for PIPING networks requiring multiple connections
• Universal manifolds with 3 outlets
Coupler Specifications
• Accepts 1/4 INDUSTRIAL type plugs
• Automatic push-to-connect operation
• Easy to connect, even under pressure
Coupler Specifications
• Accepts ULTRAFLO type plugs
• Automatic push-to-connect operation
• Easy to connect, even under pressure
Coupler Specifications
Accepts 1/4 INDUSTRIAL type plugs
• Automatic push-to-connect operation
• Safety coupler
• Downstream pressure is automatically vented and disconnection is performed easily at zero pressure
Coupler Specifications
• Accepts ULTRAFLO type plugs
• Automatic push-to-connect operation
• Safety coupler
• Downstream pressure is automatically vented and disconnection is performed easily at zero pressure
104 TOPRING

See page 104 for examples of manifolds available with quick couplers

S47

ANODIZED ALUMINIUM BAR MANIFOLDS

Features and benefits

- Provide a convenient junction point for compressed air distribution systems requiring multiple connections
- Each bar manifold accepts three to ten quick couplers or air hoses

Applications

Air outlets, compressed air distribution systems, control panels

Material

Black anodizing aluminium for corrosion resistance

Specifications

Maximum Working Pressure: 1000 PSI

Working Temperature: -23 to 93 °C

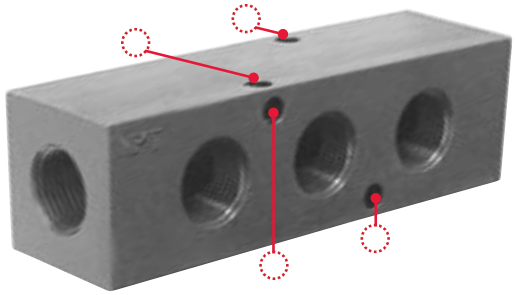
Fluids: Air and liquids/gases compatible with aluminium



TECH TIP

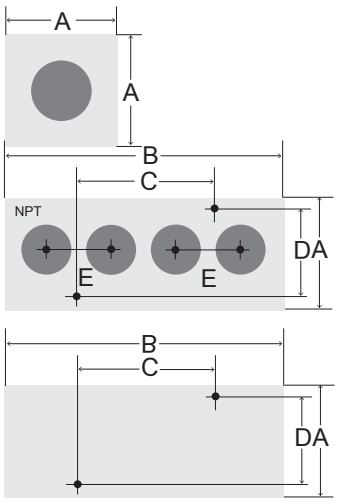
To ensure safe installation of distribution bar, it is recommended to use suitable screws for proper size installatioin surface:

Screws # 6: Models 47.402 to 47.404
Screws # 8: Models 47.416 to 47.433



Each bar is equipped with 2 mounting holes on each side allowing multiple installation options

Product No	Inlet/ Outlet (F) NPT ①	Outlet (F) NPT ②	Number of distribution outlets	Dimensions (in) A	B	C	D	E
47.402	1/4	1/8	4	1.00	3.25	1.50	0.70	0.75
47.404	1/4	1/8	6	1.00	4.75	3.00	0.70	0.75
47.416	3/8	1/8	8	1.25	6.25	4.50	0.89	0.75
47.418	3/8	1/8	10	1.25	7.75	6.00	0.89	0.75
47.421	3/8	1/4	3	1.25	3.00	0.88	0.89	0.88
47.422	3/8	1/4	4	1.25	3.88	1.75	0.89	0.88
47.423	3/8	1/4	5	1.25	4.75	2.63	0.89	0.88
47.424	3/8	1/4	6	1.25	5.63	3.50	0.89	0.88
47.425	3/8	1/4	7	1.25	6.50	4.38	0.89	0.88
47.426	3/8	1/4	8	1.25	7.38	5.25	0.89	0.88
47.427	3/8	1/4	9	1.25	8.25	6.13	0.89	0.88
47.428	3/8	1/4	10	1.25	9.13	7.00	0.89	0.88
47.431	3/8	3/8	3	1.25	4.25	1.13	0.89	1.13
47.432	3/8	3/8	4	1.25	5.38	2.25	0.89	1.13
47.433	3/8	3/8	5	1.25	6.50	3.38	0.89	1.13



S47
ALUMINIUM BAR MANIFOLDS

Features and benefits

- Provide a convenient junction point for compressed air distribution systems requiring multiple connections
- Each bar manifold accepts two to five quick couplers or air hoses

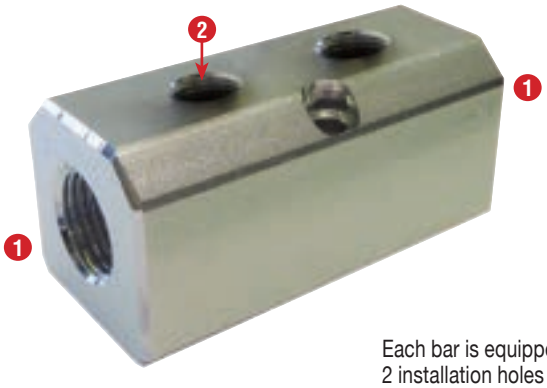
Applications
Air outlets, compressed air distribution systems, control panels

Material
Aluminium

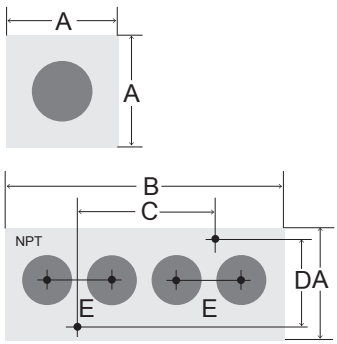
Specifications
Maximum Working Pressure: 300 PSI

Working Temperature: -20 to 70 °C

Fluid: Air



Each bar is equipped with 2 installation holes



TECH TIP
To ensure safe installation of distribution bar, it is recommended to use suitable screws for proper size installation surface: screws #8: Models 47.550 to 47.553

Product No	Inlet / Outlet (F) NPT ①	Outlet (F) NPT ②	Number of distribution outlets	Dimensions (mm) A	B	C	D	E
47.550	1/2	1/4	2	40	85	---	30	35
47.551	1/2	1/4	3	40	120	33.6	30	35
47.552	1/2	1/4	4	40	155	74.8	30	35
47.553	1/2	1/4	5	40	190	103.3	30	35

NICKEL PLATED BRASS BAR MANIFOLDS

Features and benefits

- Provide a convenient junction point for compressed air distribution systems requiring multiple connections
- Each manifold accepts two to four quick couplers or air hoses

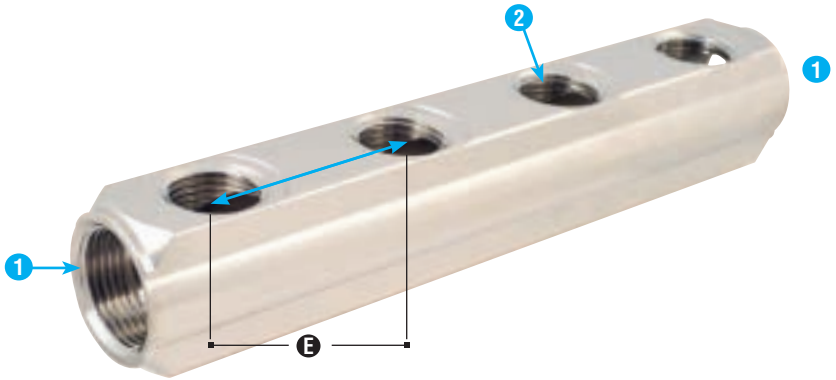
Applications
Air outlets, compressed air distribution systems, control panels

Material
Nickel plated brass

Specifications
Maximum Working Pressure: 145 PSI

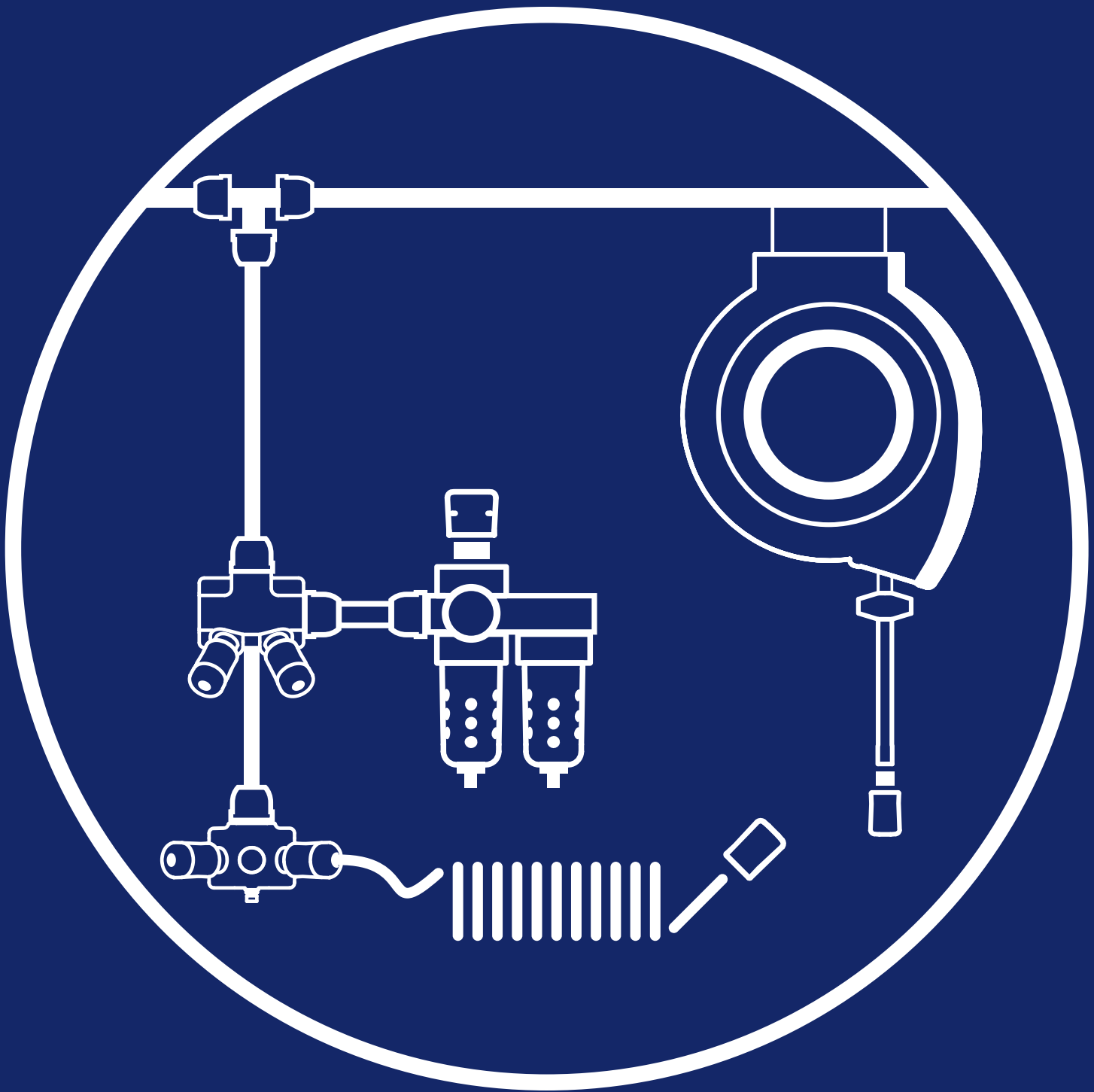
Maximum Working Temperature: 110°C

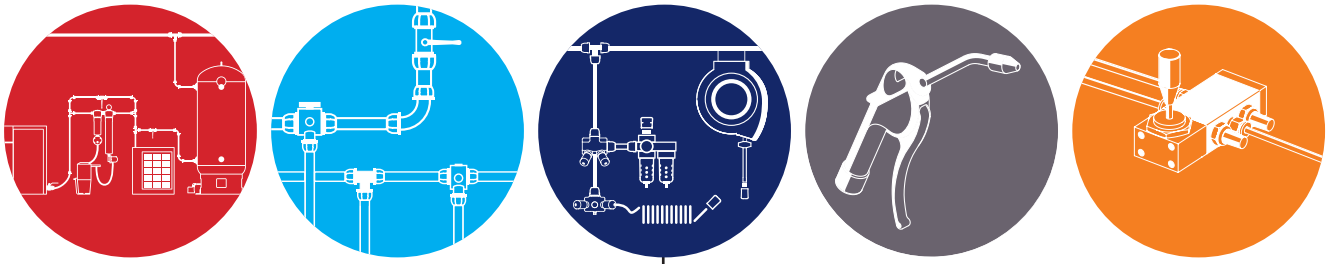
Fluids: Air, water



Product No	Inlet/Outlet (F) BSPP ①	Outlet (F) BSPP ②	Number of distribution outlets	Length (mm)
47.500	3/4	1/2	2	100
47.505	3/4	1/2	3	150
47.510	3/4	1/2	4	200
47.520	1	1/2	2	110
47.525	1	1/2	3	160
47.530	1	1/2	4	210

Ⓔ : Distance between port centers : 50 mm





Group 3
Air Preparation, Hoses and Couplers

S51 to 52 • Air Preparation (FRL) 152
S50 • MODULAIR Filters, Regulators and Lubricators 154
S51 • AIRFLO Filters, Regulators and Lubricators 176
S52 • HIFLO Filters, Regulators and Lubricators 210
S54 • Desiccant Air Dryers 234
S55 • Pressure Gauges 242
S58 • HOSEGUARD Safety Valves 250
S11 to S19 • Self-Storing Hoses 256
S70 to S78 • Flexible Hoses 264
S79 • Hose Reels 282
S20 to S31 • Quick Couplers 306
S28 to S29 • Straight Through & Hydraulic Couplers 358
S41 • Brass Fittings 362
S48 • Hose Clamps 372

S50•51•52

THE IMPORTANCE OR AIR PREPARATION AT THE POINT OF USE

Although a number of measures have been taken to treat the air at the compressor outlet, the compressed air may still contain traces of water and impurities.

- Some applications require ultra clean and dry air (eg paint applications)
- Not all tools and equipment operate at the same pressure as the main air system
- Some tools, valves and cylinders must be lubricated to reduce premature wear of moving parts

Air preperation is the process that ensures air meets these criteria and consists of three components:

- **Filtration:** removal of impurities and a large part of the water still present in the air system
- **Regularization**: adjustment of the air flowing at the pressure required for the intended use
- **Lubrication**: injection of a controlled amount of lubricant, oil mist or fog into the compressed air system

FILTRATION



The ambient air contains billions of polluting particles that, when in high concentration and at high velocity, can cause damage to any compressed air system, air tools and equipment.

In addition, ambient air entering a compressor may have, depending on certain temperatures and conditions, a relative humidity of up to 100%. The air being compressed and cooled condenses into water vapors. Even with the addition of an air dryer, traces of moisture can be found in the compressed air system. In contact with water, air tools rust, lubricants lose their efficiency and the pipes freeze as temperatures fall.

Impurities that form within the system (debris from wear, scaling) rust, or residues from installation and assembly as well as dirt that seeps into the system during maintenance or leakage can all be found in the system.

All of these contaminants as well as any water must be removed with a filter to ensure that the compressed air system operates efficiently.

Most compressors produce oil in the form of mists or droplets, which pass through an ordinary filter. A coalescent filter must be used to remove these vaporized oils (e.g. for painting applications).

REGULARIZATION



An air regulator is a control valve designed to regulate the upstream pressure to a downstream pressure level. This level must be constant and accurate, regardless of the variations in the upstream pressure or the flow rate through the valve.

Compressed air tools and equipment whose pressure exceeds the recommended level wastes the energy generated by this pressure, is cause a risk of accident as well as prematurely wear out the equipment.

On the other hand, a system that operates below the suggested level of pressure does not perform at the level for which it is designed. Precise air pressure control is required to ensure that the compressed air system is fully effective.

LUBRICATION



Many components of the compressed air system and most air tools must be lubricated to ensure proper operation and service life.

Too little oil can cause excessive wear and cause premature breakage. Conversely, too much oil is a waste and can become a source of pollutants, clogging pipes and equipment.

Inconsistent lubrication must be avoided because the oil film will dry and create a form of sludge and lacquer on the inside surfaces.

A proper, well-adjusted oil mist lubricator installed within 15 feet of the application will ensure proper lubrication of the tools and extend service life without causing pipe damage.

A suitable micro-fog type lubricator can be installed at a distance of 100 feet from the application.

S50•51•52

FRL COMBINED UNITS

Filters, coalescing filters, regulators and lubricators are usually installed in combination, near the application.

These combinations are designed to provide the exact level of air treatment required, in a compact format. These combinations always include a filter and a regulator (which can be combined into one unit), followed by either a lubricator (for air tools) or a coalescing filter (for paint applications).

The choice of these combined units must be made according to the flow capacity of the most restrictive unit and according to the needs of the application.



INSTALLATION AT THE APPLICATION

WHERE TO INSTALL A FILTER?

- Install the filter as far as possible from the compressor to allow the compressed air to cool and water vapors to condense. Removal of water in liquid form is more effective than removing water which is vapor form.
- Install the filter closest to the tool and before the lubricator and regulator
- Always install the filter with the arrows pointing to the tool or application

WHERE TO INSTALL A REGULATOR?

- Install the regulator on each pipe where applications and air tools requires different working pressure
- Always install the regulator downstream of a filter and upstream of a lubricator
- Can be installed vertically or horizontally
- Always install regulator with the arrows pointing to the tool or application

WHERE TO INSTALL A LUBRICATOR?

- Install as close to the tool as possible - within 5 meters or 30 meters for micro-fog type lubricators
- Always install downstream of a filter and a regulator
- Ensure that the lubricator is easily accessible for filling pneumatic tool oil
- Always install with the arrows pointing to the tool or application

MOUNTING

Regardless of the assembly, these units will only be able to hold using pipes and fittings.

The addition of mounting brackets will prevent leakage to the intake threads.

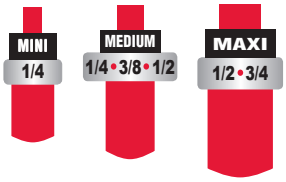
S50
MODULAIR
FILTERS, REGULATORS AND LUBRICATORS



S50 MODULAIR
FILTERS, REGULATORS AND LUBRICATORS







- TOTAL FLEXIBILITY
- EXCELLENT PERFORMANCE
- COMPACT SIZE
- EASY MAINTENANCE

Features and benefits

- Modular design, especially when used with piping adaptors, allows quick field conversion or servicing of individual units without disturbing existing piping
- Modular connection reduces the number of possible leak points associated with nipples mounted units
- Installation flexibility - no special inserts or connectors required
- Enhanced versatility in 3 body sizes, ports from 1/4 to 3/4 NPT
- Full range of accessories for maximum FRL flexibility
- Optional safety shut off lockout valve
- Integrated wall mounting slots
- Chemically resistant transparent polyurethane bowls
- Integrated bowl guards to protect against bowl rupture
- Superior product finish (epoxy powder paint)
- Silicone-free

Materials

Filter, coalescing filter or lubricator

MINI: Zinc body
Polyurethane bowl or zinc bowl with wraparound sight gauge

MEDIUM: Zinc body
Polyurethane bowl with guard or zinc bowl with wraparound sight gauge

MAXI: Aluminium body
Polyurethane bowl with guard or zinc bowl with wraparound sight gauge

Regulator construction

MINI: Zinc body and glass-filled acetal spring cage
Piston-operated and relieving or non-relieving type

MEDIUM: Zinc body and glass-filled acetal spring cage
Diaphragm-operated and relieving type

MAXI: Aluminium body and glass-filled acetal spring cage
Diaphragm-operated and relieving or non-relieving type

Specifications

Maximum Working Pressure:
Polyurethane Bowl: 150 PSI
Zinc Bowl (Manual Drain): 250 PSI
Zinc Bowl (Auto Drain): 175 PSI

Working Temperature:
Polyurethane Bowl: 4 °C to 52 °C
Zinc Bowl (Manual Drain): 4 °C to 66 °C
Zinc Bowl (Auto Drain): 4 °C to 52 °C

Working Pressure: 0-25, 0-60, 0-125 and 0-250 PSI

MODULARITY
SAVES TIME AND MONEY

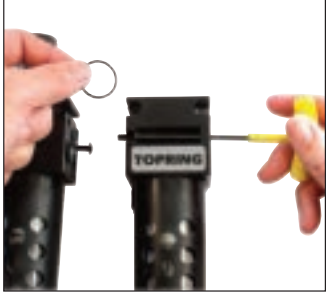
TOPRING MODULAIR FRL units are easy to put together, take apart and install. Units are simply mounted together using the provided screws and O-ring seals, without the need for pipe nipples.

Installation is just as simple, especially using piping adaptors. The unit is installed by simply screwing the piping adaptors onto the two ends of the piping and sliding the FRL unit into place, securing it with the provided screws and O-ring seals. Removal for maintenance purposes is just as simple, requiring only the removal of the retaining screws in order to slide the unit out.

Assembly is simple using Allen key style screws and an O-ring

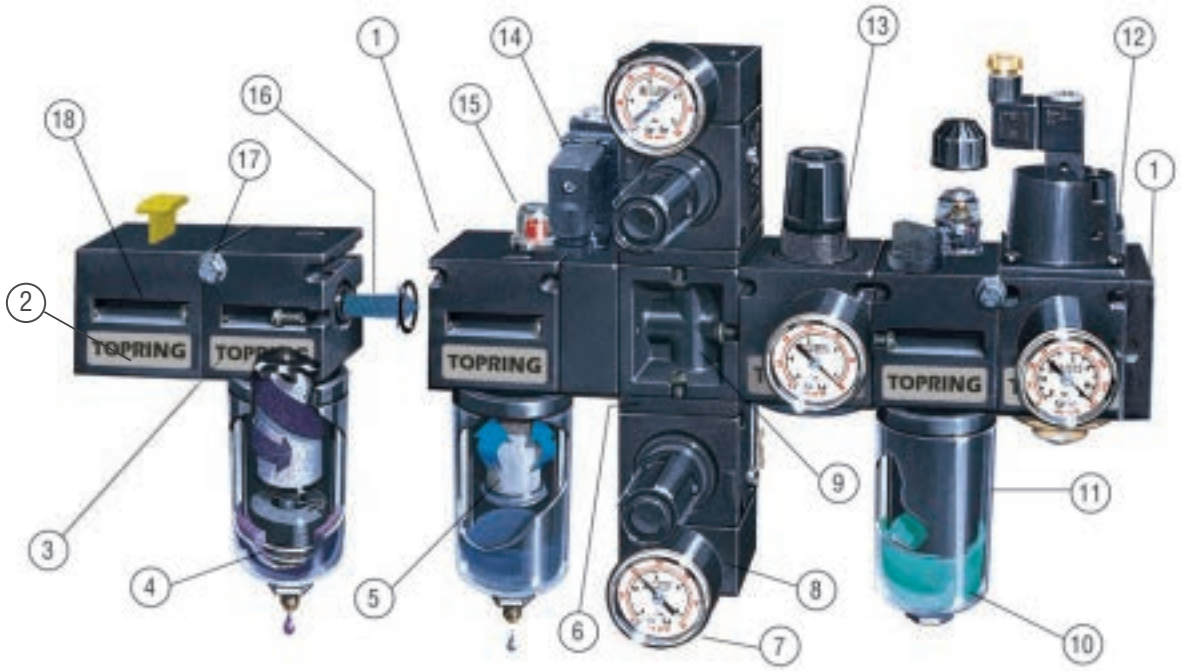


Units can be quickly and easily assembled and disassembled



S50 MODULAIR

FILTERS, REGULATORS AND LUBRICATORS



1. PIPING ADAPTORS

Mount to all components. Allow basic component removal without disconnecting pipes.

2. SHUT OFF VALVES

Isolate downstream equipment with 3-way lockable shut off valve. Comply with OSHA Standard 29 CFR Part 10. Vented to relieve downstream pressure in off position.

3. PARTICULATE FILTERS

Deflector plate insures maximum water removal while a 5 micron element eliminates damaging particulate matter.

4. AUTOMATIC FLOAT DRAIN

Optional automatic float drain removes condensation as required. Manual drain standard.

5. COALESCING FILTERS

High efficiency 0.01 micron element removes damaging oil and water aerosols.

6. DIRECTION PLATES

Rotate connected components 90°.

7. PRESSURE GAUGES

Heavy-duty industrial pressure gauges included.

8. BRANCH BLOCK

1/8 NPT ports top and bottom.

9. DIVERTER BLOCKS

Provide components manifolding and branch lines.

10. LUBRICATORS

Provide consistent lubrication under variable flow conditions. Removable adjusting knob renders lubricator tamperproof (standard).

11. WRAPAROUND SIGHT GAUGE BOWL

All filters, lubricators and integrated F/Rs are available with the wraparound sight gauge bowl. These unique polyurethane bowls provide the 360° visibility of a plastic bowl while maintaining the high strength and safety features of metal bowls. Transparent polyurethane bowls with guards and metal bowls are also available.

12. SOFT START/ QUICK EXHAUST VALVE

Combination 3-in-1 valve:

- Solenoid shut off valve
- Autopilot soft start valve
- Quick exhaust valve

13. REGULATORS

Accurate high-flow regulators with positive snap lock Push/Pull adjusting knobs for an easy operation.

14. PRESSURE SWITCH

Provides electric signal when a specific pressure is achieved.

15. DIFFERENTIAL PRESSURE POP-UP INDICATOR

Indicates need to change the coalescing filter element (**MEDIUM** and **MAXI**).

16. DIRECT CONNECT

All components connect using standard machine screws and O-rings. No special inserts required.

17. INTEGRAL WALL MOUNTING

System eliminates the need for special brackets. Standard on all series 50.

18. TEXTURED FINISH

All components are textured to provide superior powder coat adhesion and a durable surface finish.

S50 MODULAIR
FILTERS, REGULATORS AND LUBRICATORS

TRUE MODULARITY COMES WITH THE USE OF PIPING ADAPTORS

The biggest challenge with standard type FRL units requiring brass pipe fittings is screwing the unit onto opposing ends of airline piping (while tightening one end, the other end is being loosened).

With the piping adaptors available for **TOPRING MODULAIR** FRL, the unit is installed by simply screwing the piping adaptors onto the two ends of the piping and sliding the FRL unit into place, securing it with the provided screws and O-ring seals.

Removal for maintenance purposes is just as simple, requiring only the removal of the retaining screws in order to slide the unit out.

Piping adaptors are therefore the ideal method for allowing simple and easy installation and removal of FRL units.

TECH TIP

PIPING ADAPTORS
(Set of 2)

Designed to install or remove basic units without direct pipe connections to the units

4 screws and 2 O-rings included



STANDARD TYPE → VERY DIFFICULT



Standard type FRL use pipe nipples



This makes maintenance more difficult

MODULAIR → VERY EASY



MODULAIR FRL with piping adaptors

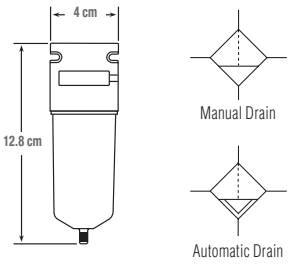


Removal is very easy, since the piping adaptors allow the unit to slide out

MINI 1/4 S50 MODULAIR MINI

FILTER





- **Compact size**
- **High-flow capacity**
- **Removes water through centrifugal force**
- **Removes contaminants down to 5 microns in size**
- **Automatic drain available**

Specifications

Port Size: 1/4 (F) NPT

Maximum Airflow at 100 PSI: 31 SCFM

Maximum Working Pressure:
Polyurethane Bowl: 150 PSI
Zinc Bowl (Manual Drain): 250 PSI
Zinc Bowl (Auto Drain): 175 PSI

Working Temperature:
Polyurethane Bowl: 4 °C to 52 °C
Zinc Bowl: 4 °C to 66 °C

Filtration: 5 micron

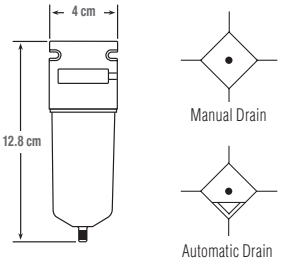
Drain: Manual drain or piston-type auto drain

Bowl Capacity: 44.4 ml

POLYURETHANE BOWL		ZINC BOWL		Port Size (F) NPT
Manual Drain Product No	Auto Drain Product No	Manual Drain Product No	Auto Drain Product No	
50.120	50.121	50.122	50.123	1/4

COALESCING FILTER





- **Compact size**
- **Highly efficient coalescing filter designed to remove all solid particles over 0.01 micron, together with 99.999% of oil and oil aerosols**
- **Automatic drain available**

Specifications

Port Size: 1/4 (F) NPT

Maximum Airflow at 100 PSI: 20 SCFM

Maximum Working Pressure:
Polyurethane Bowl: 150 PSI
Zinc Bowl (Manual Drain): 250 PSI
Zinc Bowl (Auto Drain): 175 PSI

Working Temperature:
Polyurethane Bowl: 4 °C to 52 °C
Zinc Bowl: 4 °C to 66 °C

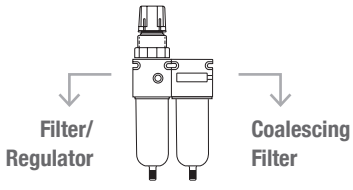
Filtration: 0.01 micron

Drain: Manual drain or piston-type auto drain

Bowl Capacity: 44.4 ml

TECH TIP

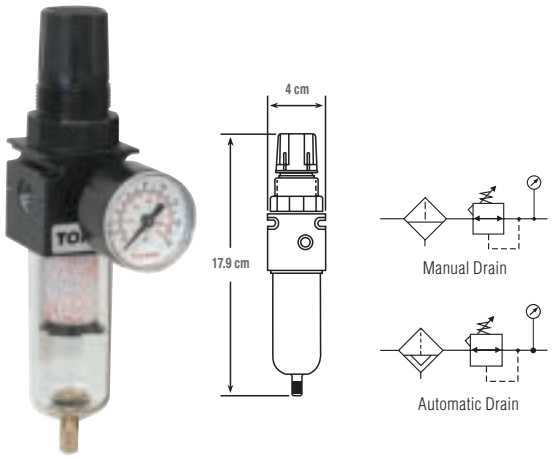
A coalescing filter should always be preceded by a filter or a filter/regulator (see page 153)



POLYURETHANE BOWL		ZINC BOWL		Port Size (F) NPT
Manual Drain Product No	Auto Drain Product No	Manual Drain Product No	Auto Drain Product No	
50.920	50.921	50.922	50.923	1/4

MINI 1/4 S50 MODULAIR MINI

INTEGRATED FILTER/REGULATOR
GAUGE INCLUDED



- **Space-saving integrated filter/regulator design**
- **High-flow capacity**
- **Push/Pull adjusting knob**
- **Removes water through centrifugal force**
- **Removes contaminants down to 5 microns in size**
- **Maintains constant downstream pressure**
- **Automatic drain available**

Specifications

Port Size: 1/4 (F) NPT

Maximum Airflow at 100 PSI: 31 SCFM

Maximum Working Pressure:
Polyurethane Bowl: 150 PSI
Zinc Bowl (Manual Drain): 250 PSI
Zinc Bowl (Auto Drain): 175 PSI

Working Temperature:
Polyurethane Bowl: 4 °C to 52 °C
Zinc Bowl: 4 °C to 66 °C

Working Pressure:

Standard: 0-125 PSI / Options: 0-25 PSI • 0-60 PSI

Filtration: 5 micron

Drain: Manual drain or piston-type auto drain

Bowl Capacity: 44.4 ml

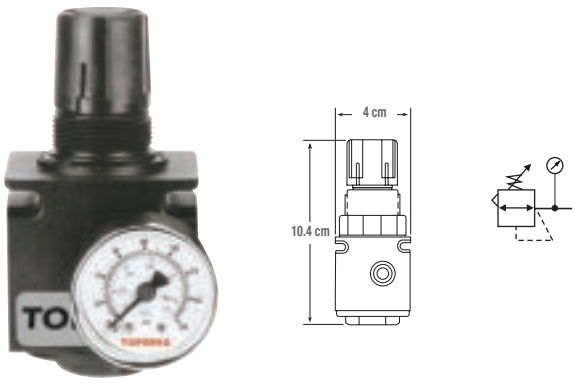
Pressure Gauge Port Size: 1/8 (F) NPT

Panel Mount Thread: 1-3/16 - 18 UNEF - 2B

Panel Mount Opening: 1-1/4 in (3.2 cm)

POLYURETHANE BOWL		ZINC BOWL		
Manual Drain Product No	Auto Drain Product No	Manual Drain Product No	Auto Drain Product No	Port Size (F) NPT
50.220	50.221	50.222	50.223	1/4

REGULATOR
GAUGE INCLUDED



- **Compact size**
- **High-flow capacity**
- **Push/Pull adjusting knob**
- **Maintains constant downstream pressure**

Specifications

Port Size: 1/4 (F) NPT

Maximum Airflow at 100 PSI: 40 SCFM

Maximum Working Pressure: 300 PSI

Working Temperature: 4 °C to 52 °C

Pressure Gauge Port Size: 1/8 (F) NPT

Panel Mount Thread: 1-3/16 - 18 UNEF - 2B

Panel Mount Opening: 1-1/4 in (3.2 cm)

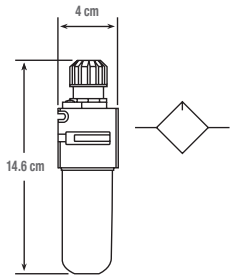
Product No	Working Pressure PSI	Port Size (F) NPT	Replacement Gauge
50.320 *	0-125	1/4	55.120
50.322 **	0-125	1/4	55.120
50.323	0-25	1/4	55.100
50.324	0-60	1/4	55.110

* Standard model ** Non-relieving type

MINI 1/4 S50 MODULAIR MINI

LUBRICATOR





- **Compact size**
- **High-flow capacity**
- **Precision needle valve assures repeatable oil delivery and provides simple adjustment of delivery rates**

Specifications

Port Size: 1/4 (F) NPT

Maximum Airflow at 100 PSI: 45 SCFM

Maximum Working Pressure:
Polyurethane Bowl: 150 PSI
Zinc Bowl: 250 PSI

Working Temperature:
Polyurethane Bowl: 4 °C to 52 °C
Zinc Bowl: 4 °C to 66 °C

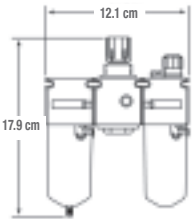
Bowl Capacity: 44.4 ml

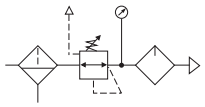
POLYURETHANE BOWL Product No	ZINC BOWL Product No	Port Size (F) NPT
50.420	50.422	1/4

COMBINATION UNIT F+R+L

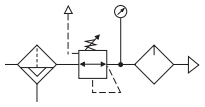
GAUGE INCLUDED







Manual Drain



Automatic Drain

- **High performance combination of 3 units which disassemble easily**
- **High-flow design**
- **Removes contaminants down to 5 microns in size**
- **Removes water through centrifugal force**
- **Maintains constant downstream pressure**
- **Regulator push-pull adjusting knob**
- **Precision needle assures repeatable oil delivery and provides simple adjustment of delivery rates**
- **Automatic drain available**

Specifications

Port Size: 1/4 (F) NPT

Maximum Airflow at 100 PSI: 31 SCFM

Maximum Working Pressure:
Polyurethane Bowl: 150 PSI
Zinc Bowl (Manual Drain): 250 PSI
Zinc Bowl (Auto Drain): 175 PSI

Working Temperature:
Polyurethane Bowl: 4 °C to 52 °C
Zinc Bowl: 4 °C to 66 °C

Working Pressure:
Standard: 0-125 PSI
Options: 0-25 PSI • 0-60 PSI

Filtration: 5 micron

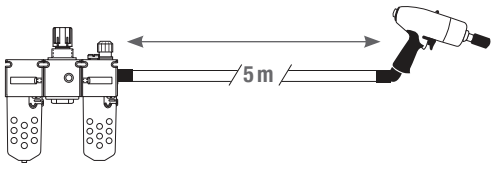
Drain: Manual drain or piston-type auto drain

Bowl Capacity: 44.4 ml

Pressure Gauge Port Size: 1/8 (F) NPT

TECH TIP

The lubricator should be installed within 5 meters of the application



POLYURETHANE BOWL		ZINC BOWL		Port Size (F) NPT
Manual Drain Product No	Auto Drain Product No	Manual Drain Product No	Auto Drain Product No	
50.520	50.521	50.522	50.523	1/4

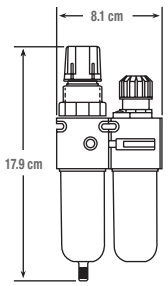
Available with piping adaptors: add suffix .01 (see page 157)

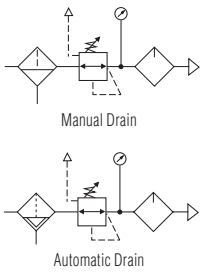
MINI 1/4 S50 MODULAIR MINI

COMBINATION UNIT F/R+L

GAUGE INCLUDED







- **High performance combination of 3 units which disassemble easily**
- **High-flow design**
- **Removes contaminants down to 5 microns in size**
- **Removes water through centrifugal force**
- **Maintains constant downstream pressure**
- **Regulator push-pull adjusting knob**
- **Precision needle assures repeatable oil delivery and provides simple adjustment of delivery rates**
- **Automatic drain available**

Specifications

Port Size: 1/4 (F) NPT

Maximum Airflow at 100 PSI: 31 SCFM

Maximum Working Pressure:
Polyurethane Bowl: 150 PSI
Zinc Bowl (Manual Drain): 250 PSI / Zinc Bowl (Auto Drain): 175 PSI

Working Temperature:
Polyurethane Bowl: 4 °C to 52 °C
Zinc Bowl: 4 °C to 66 °C

Working Pressure:
Standard: 0-125 PSI / Options: 0-25 PSI • 0-60 PSI

Filtration: 5 micron

Drain: Manual drain or piston-type auto drain

Bowl Capacity: 44.4 ml

Pressure Gauge Port Size: 1/8 (F) NPT

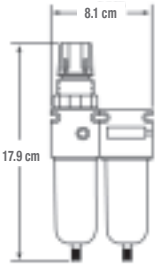
POLYURETHANE BOWL		ZINC BOWL		Port Size (F) NPT
Manual Drain Product No	Auto Drain Product No	Manual Drain Product No	Auto Drain Product No	
50.620	50.621	50.622	50.623	1/4

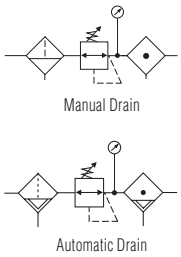
Available with piping adaptors: add suffix .01 (see page 157)

COMBINATION UNIT F/R+Fc

GAUGE INCLUDED







- **Compact size**
- **Push/Pull adjusting knob**
- **Highly efficient coalescing filter designed to remove all solid particles over 0.01 micron, together with 99.999% of oil and oil aerosols**
- **Automatic drain available**

Specifications

Port Size: 1/4 (F) NPT

Maximum Airflow at 100 PSI: 20 SCFM

Maximum Working Pressure:
Polyurethane Bowl: 150 PSI
Zinc Bowl (Manual Drain): 250 PSI / Zinc Bowl (Auto Drain): 175 PSI

Working Temperature:
Polyurethane Bowl: 4 °C to 52 °C
Zinc Bowl: 4 °C to 66 °C

Working Pressure:
Standard: 0-125 PSI / Options: 0-25 PSI • 0-60 PSI

Filtration:
Filter/Regulator: 5 micron
Coalescing Filter: 0.01 micron

Drain: Manual drain or piston-type auto drain

Bowl Capacity: 44.4 ml

Pressure Gauge Port Size: 1/8 (F) NPT

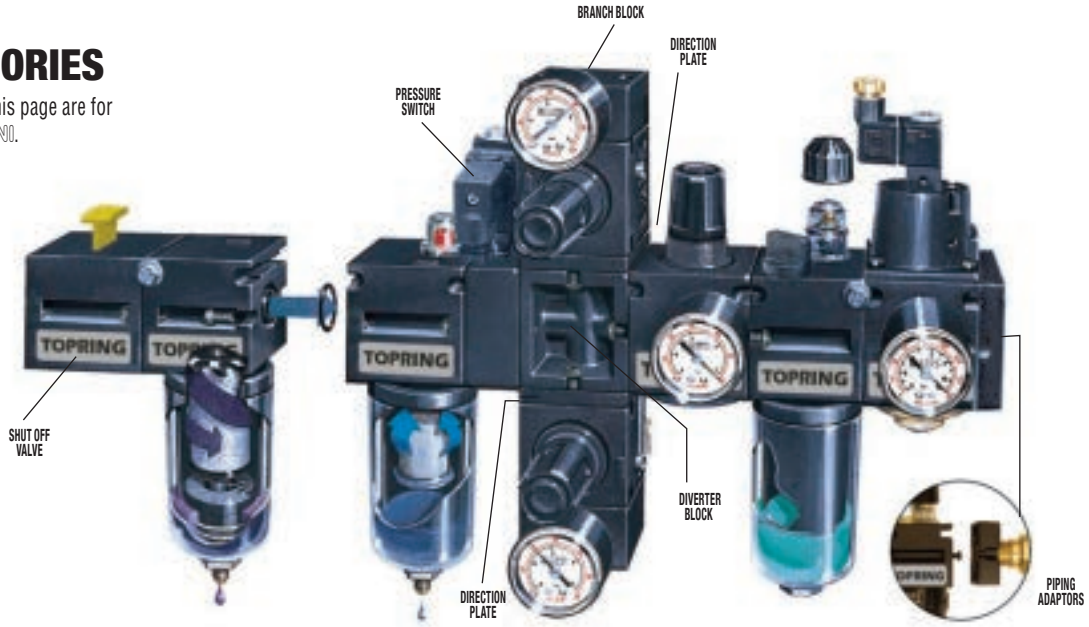
POLYURETHANE BOWL		ZINC BOWL		Port Size (F) NPT
Manual Drain Product No	Auto Drain Product No	Manual Drain Product No	Auto Drain Product No	
50.660	50.661	50.662	50.663	1/4

Available with piping adaptors: add suffix .01 (see page 157)

S50 MODULAIR MINI

ACCESSORIES

Accessories on this page are for **MODULAIR** MINI.

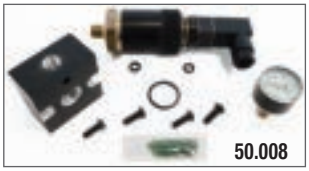


PRESSURE SWITCH

Designed to give an electric signal when a set pressure is achieved.



50.007



50.008

Product No	Description
50.007	Pressure switch field adjustable 20-120 PSI, 1/8 (M) NPT, for all **MODULAIR**
50.008	Pressure switch kit includes pressure switch, branch block, gauge, necessary screws and O-rings for **MODULAIR** MINI

3 Amp, 12/24/48 VDC, 125 VAC

SHUT OFF VALVE

Threaded ports allow use in-line or with other Series 50 FRL components

Accepts standard padlock

Conforms to OSHA Standard 29 CFR Part 10

3 port/2 position shut off valve relieves downstream pressure when closed

Can be locked in the closed position only

Maximum Working Pressure: 300 PSI

Includes: 2 screws and 1 O-Ring



Product No	Port Size
50.781	1/4 (F) NPT

BRANCH BLOCK

Functions as an end plate with 1/8 (F) NPT branch lines available top and bottom. Also used in conjunction with direction plates and regulators to provide outlets for gauges.

Includes: 4 screws, 1 O-Ring, and 1 plug



Product No	Inlet Port	Branch Port
50.990	1/4 (F) NPT	1/8 (F) NPT

DIRECTION PLATE

Designed to allow 90° rotation of modular type FRL units allowing manifolding of units and resulting in significant space savings. Also used to mount units from different Series to one another.

Includes: 6 screws, 2 O-Rings



Product No
50.796

DIVERTER BLOCK

Designed to mount in a variety of configurations with the capability of having branch line units mounted directly, giving multiple air lines with minimal pressure drop.

Includes: 6 screws, 3 O-Rings and 1 plug

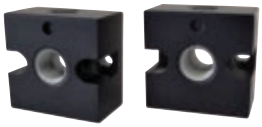


Product No	Port Size In & Out	Port Size Branch
50.790	3/8 (F) NPT	1/4 (F) NPT

PIPING ADAPTORS (SET OF 2)

Designed to install or remove basic units without direct pipe connections to the units.

Includes: 4 screws and 2 O-Rings



Product No	Port Size
50.950	1/4 (F) NPT



Applications: R, F/R, F+R+L and F/R+L

REPLACEMENT PARTS AND REPAIR KITS FOR MODULAIR MINI



Product No 50.001
Piston Auto Drain
F, F/R MINI



Product No 50.002
Piston Auto Drain
Fc MINI



Product No 50.020
Element 5 micron
F, F/R MINI



Product No 50.070
Element 0.01 micron
Fc MINI



Product No 50.800
Polyurethane Bowl (Manual Drain)
F, Fc, F/R MINI



Product No 50.820
Polyurethane Bowl (Auto Drain)
F, F/R MIN



Product No 50.801
Zinc Bowl + Transp. (Manual Drain)
F, Fc, F/R MINI



Product No 50.822
Zinc Bowl + Transp. (Auto Drain)
F, F/R MINI



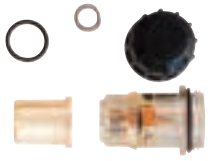
Product No 50.806
Polyurethane Bowl
L MINI



Product No 50.807
Zinc Bowl + Transp.
L MINI



Product No 50.025
Deflector + Retainer
F, F/R MINI



Product No 50.016
Sight Dome
L MINI, MEDIUM & MAXI



Product No 50.022
Relieving Piston & Valve
R, F/R MINI



Product No 50.027
Non-Relieving Piston & Valve
R, F/R MINI



Product No 50.024
Knob 0-25 PSI
R, F/R MINI



Product No 50.023
Knob 0-60 and 0-125 PSI
R, F/R MINI



Replacement gauges
R, F/R MINI

Product No 55.100 0-30 PSI
Product No 55.110 0-100 PSI
Product No 55.120 0-160 PSI



Product No 50.725
Wall Bracket
F, R, L, Fc, F/R MINI



Product No 50.720
Panel Bracket
R, F/R MINI & MEDIUM



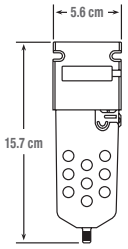
Product No 50.735
Mounting Nut
R, F/R MINI & MEDIUM

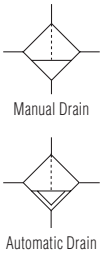
MEDIUM
1/4•3/8•1/2

S50 MODULAIR MEDIUM

FILTER







- **Compact size**
- **High performance**
- **Removes water through centrifugal force**
- **Removes contaminants down to 5 microns in size**
- **Automatic drain available**

Specifications

Port Size: 1/4 (F) NPT • 3/8 (F) NPT • 1/2 (F) NPT

Maximum Airflow at 100 PSI :
1/4: 42 SCFM • 3/8: 64 SCFM • 1/2: 68 SCFM

Maximum Working Pressure:
Polyurethane Bowl: 150 PSI
Zinc Bowl (Manual Drain): 250 PSI
Zinc Bowl (Auto Drain): 175 PSI

Working Temperature:
Polyurethane Bowl: 4 °C to 52 °C
Zinc Bowl (Manual Drain): 4 °C to 66 °C
Zinc Bowl (Auto Drain): 4 °C to 52 °C

Filtration: 5 micron

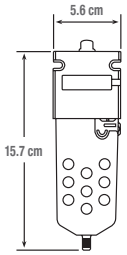
Drain: Manual drain or internal auto drain

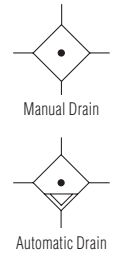
Bowl Capacity: 112.4 ml

POLYURETHANE BOWL		ZINC BOWL		Port Size (F) NPT
Manual Drain Product No	Auto Drain Product No	Manual Drain Product No	Auto Drain Product No	
50.125	50.126	50.127	50.128	1/4
50.130	50.131	50.132	50.133	3/8
50.135	50.136	50.137	50.138	1/2

COALESCING FILTER







- **Compact size**
- **Highly efficient filter designed to remove all solid particles over 0.01 micron, together with 99.999% of water and oil aerosols**
- **Automatic drain available**

Specifications

Port Size: 1/4 (F) NPT • 3/8 (F) NPT • 1/2 (F) NPT

Maximum Airflow at 100 PSI: 43 SCFM

Maximum Working Pressure:
Polyurethane Bowl: 150 PSI
Zinc Bowl (Manual Drain): 250 PSI
Zinc Bowl (Auto Drain): 175 PSI

Working Temperature:
Polyurethane Bowl: 4 °C to 52 °C
Zinc Bowl (Manual Drain): 4 °C to 66 °C
Zinc Bowl (Auto Drain): 4 °C to 52 °C

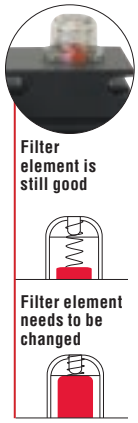
Filtration: 0.01 micron

Drain: Manual drain or internal auto drain

Bowl Capacity: 112.4 ml

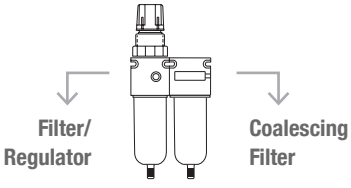
Differential Pressure Pop-up Indicator:
Triggers at 10 PSI differential

Differential pressure Pop-up indicator



TECH TIP

A coalescing filter should always be preceded by a filter or a filter/regulator (see page 153)



POLYURETHANE BOWL		ZINC BOWL		Port Size (F) NPT
Manual Drain Product No	Auto Drain Product No	Manual Drain Product No	Auto Drain Product No	
50.925	50.926	50.927	50.928	1/4
50.935	50.936	50.937	50.938	3/8
50.930	50.931	50.932	50.933	1/2

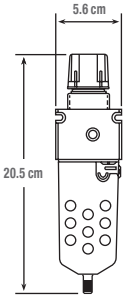
MEDIUM
1/4•3/8•1/2

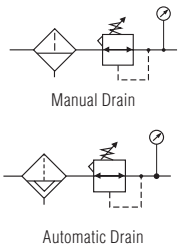
S50 MODULAIR MEDIUM

INTEGRATED FILTER/REGULATOR

GAUGE INCLUDED







- **Space-saving integrated filter/regulator design**
- **High-flow capacity**
- **Push/Pull adjusting knob**
- **Automatic drain available**

Specifications

Port Size: 1/4 (F) NPT • 3/8 (F) NPT • 1/2 (F) NPT

Maximum Airflow at 100 PSI:
1/4: 33 SCFM • 3/8: 73 SCFM • 1/2: 78 SCFM

Maximum Working Pressure:
Polyurethane Bowl: 150 PSI
Zinc Bowl (Manual Drain): 250 PSI
Zinc Bowl (Auto Drain): 175 PSI

Working Temperature:
Polyurethane Bowl: 4 °C to 52 °C
Zinc Bowl (Manual Drain): 4 °C to 66 °C
Zinc Bowl (Auto Drain): 4 °C to 52 °C

Working Pressure: Standard: 0-125 PSI
Options: 0-25 PSI • 0-60 PSI

Filtration: 5 micron

Drain: Manual drain or internal auto drain

Bowl Capacity: 112.4 ml

Pressure Gauge Port Size: 1/8 (F) NPT

Panel Mount Thread: 1-3/16 - 18 UNEF - 2B

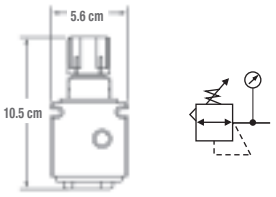
Panel Mount Opening: 1-1/4 in (3.2 cm)

POLYURETHANE BOWL		ZINC BOWL		Port Size (F) NPT
Manual Drain Product No	Auto Drain Product No	Manual Drain Product No	Auto Drain Product No	
50.225	50.226	50.227	50.228	1/4
50.230	50.231	50.232	50.233	3/8
50.235	50.236	50.237	50.238	1/2

REGULATOR

GAUGE INCLUDED





- **Compact size**
- **High performance**
- **Push/Pull adjusting knob**
- **Maintains constant downstream pressure**

Specifications

Port Size: 1/4 (F) NPT • 3/8 (F) NPT • 1/2 (F) NPT

Maximum Airflow at 100 PSI:
1/4: 25 SCFM • 3/8: 45 SCFM • 1/2: 60 SCFM

Maximum Working Pressure: 300 PSI

Working Temperature: 4 °C to 52 °C

Pressure Gauge Port Size: 1/8 (F) NPT

Panel Mount Thread: 1-3/16 - 18 UNEF - 2B

Panel Mount Opening: 1-1/4 in (3.2 cm)

Product No	Pressure Range PSI	Port Size (F) NPT	Replacement Gauge
50.325*	0-125	1/4	55.120
50.327	0-25	1/4	55.100
50.328	0-60	1/4	55.110
50.330*	0-125	3/8	55.120
50.333	0-25	3/8	55.100
50.334	0-60	3/8	55.110
50.335*	0-125	1/2	55.120
50.337	0-25	1/2	55.100
50.338	0-60	1/2	55.110

* Standard model

MEDIUM
1/4•3/8•1/2

S50 MODULAIR MEDIUM

LUBRICATOR



- **Compact size**
- **High-flow capacity**
- **Precision needle valve assures repeatable oil delivery and provides simple adjustment of delivery rates**

Specifications

Port Size: 1/4 (F) NPT • 3/8 (F) NPT • 1/2 (F) NPT

Maximum Airflow at 100 PSI:
1/4: 15 SCFM • 3/8-1/2: 80 SCFM

Maximum Working Pressure:
Polyurethane Bowl: 150 PSI
Zinc Bowl: 250 PSI

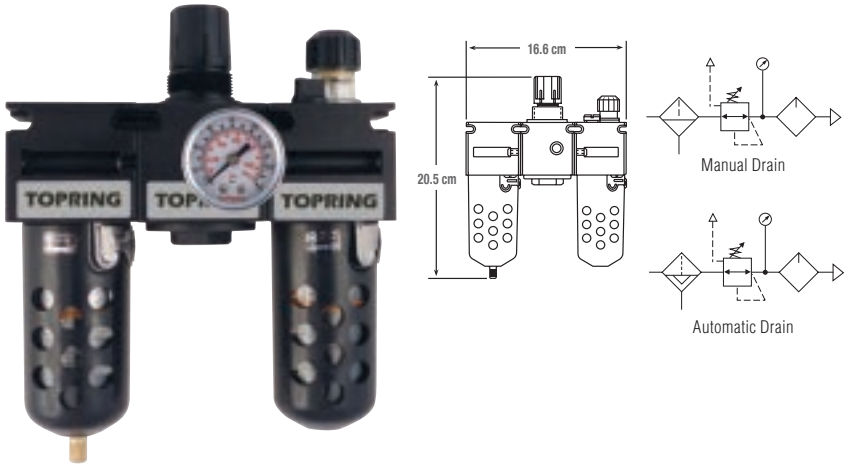
Working Temperature:
Polyurethane Bowl: 4 °C to 52 °C
Zinc Bowl: 4 °C to 66 °C

Bowl Capacity: 112.4 ml

POLYURETHANE BOWL Product No	ZINC BOWL Product No	Port Size (F) NPT
50.425	50.427	1/4
50.430	50.432	3/8
50.435	50.437	1/2

COMBINATION UNIT F+R+L

GAUGE INCLUDED



- **High performance combination of 3 units which disassemble easily**
- **High-flow design**
- **Removes contaminants down to 5 microns in size**
- **Removes water through centrifugal force**
- **Maintains constant downstream pressure**
- **Push-Pull adjusting knob**
- **Precision needle assures repeatable oil delivery and provides simple adjustment of delivery rates**
- **Automatic drain available**

Specifications

Port Size: 1/4 (F) NPT • 3/8 (F) NPT • 1/2 (F) NPT

Maximum Airflow at 100 PSI:
3/8: 45 SCFM • 1/2: 60 SCFM

Maximum Working Pressure:
Polyurethane Bowl: 150 PSI
Zinc Bowl (Manual Drain): 250 PSI
Zinc Bowl (Auto Drain): 175 PSI

Working Temperature:
Polyurethane Bowl: 4 °C to 52 °C
Zinc Bowl (Manual Drain): 4 °C to 66 °C
Zinc Bowl (Auto Drain): 4 °C to 52 °C

Working Pressure:
Standard: 0-125 PSI
Options: 0-25 PSI • 0-60 PSI

Filtration : 5 micron

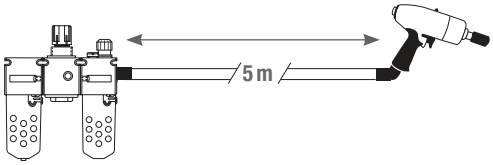
Drain: Manual drain or internal auto drain

Bowl Capacity: 112.4 ml

Pressure Gauge Port Size: 1/8 (F) NPT

TECH TIP

The lubricator should be installed within 5 meters of the application



POLYURETHANE BOWL		ZINC BOWL		Port Size (F) NPT
Manual Drain Product No	Auto Drain Product No	Manual Drain Product No	Auto Drain Product No	
50.525	50.526	50.527	50.528	1/4
50.530	50.531	50.532	50.533	3/8
50.535	50.536	50.537	50.538	1/2

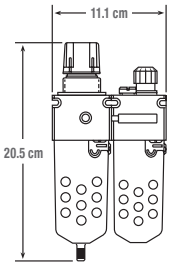
Available with piping adaptors: add suffix .01 (see page 157)

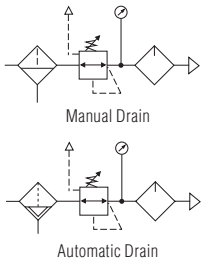
MEDIUM
1/4•3/8•1/2

S50 MODULAIR MEDIUM

COMBINATION UNIT F/R + L
GAUGE INCLUDED







- **Compact design with space-saving integrated F/R**
- **High-flow design**
- **Removes contaminants down to 5 microns in size**
- **Removes water through centrifugal force**
- **Maintains constant downstream pressure**
- **Push-Pull adjusting knob**
- **Precision needle assures repeatable oil delivery and provides simple adjustment of delivery rates**
- **Automatic drain available**

Specifications

Port Size: 1/4 (F) NPT • 3/8 (F) NPT • 1/2 (F) NPT

Maximum Airflow at 100 PSI: 3/8: 73 SCFM • 1/2: 78 SCFM

Maximum Working Pressure:
Polyurethane Bowl: 150 PSI
Zinc Bowl: Manual Drain 250 PSI • Auto Drain 175 PSI

Working Temperature:
Polyurethane Bowl: 4 °C to 52 °C
Zinc Bowl: Manual Drain 4 °C to 66 °C • Auto Drain 4 °C to 52 °C

Working Pressure:
Standard: 0-125 PSI / Options: 0-25 PSI • 0-60 PSI

Filtration: 5 micron

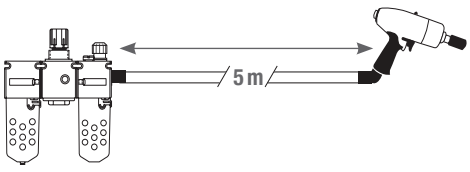
Drain: Manual drain or internal auto drain

Bowl Capacity: 112.4 ml

Pressure Gauge Port Size: 1/8 (F) NPT

TECH TIP

The lubricator should be installed within 5 meters of the application

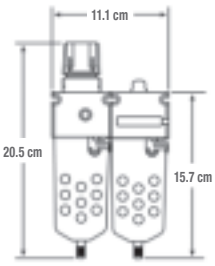


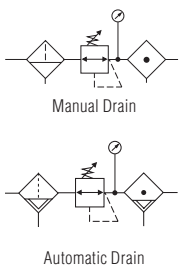
POLYURETHANE BOWL		ZINC BOWL		
Manual Drain Product No	Auto Drain Product No	Manual Drain Product No	Auto Drain Product No	Port Size (F) NPT
50.625	50.626	50.627	50.628	1/4
50.630	50.631	50.632	50.633	3/8
50.635	50.636	50.637	50.638	1/2

Available with piping adaptors: add suffix .01 (see page 157)

COMBINATION UNIT F/R+Fc
GAUGE INCLUDED







- **Compact design with space-saving integrated F/R**
- **Removes water through centrifugal force**
- **Maintains constant downstream pressure**
- **Push-Pull adjusting knob**
- **Highly efficient coalescing filter designed to remove all solid particles over 0.01 micron, together with 99.999% of oil and oil aerosols**
- **Automatic drain available**

Specifications

Port Size: 1/4 (F) NPT • 3/8 (F) NPT • 1/2 (F) NPT

Maximum Airflow at 100 PSI:
1/4: 33 SCFM • 3/8-1/2: 43 SCFM

Maximum Working Pressure:
Polyurethane Bowl: 150 PSI
Zinc Bowl (Manual Drain): 250 PSI
Zinc Bowl (Auto Drain): 175 PSI

Working Temperature:
Polyurethane Bowl: 4 °C to 52 °C
Zinc Bowl (Manual Drain): 4 °C to 66 °C
Zinc Bowl (Auto Drain): 4 °C to 52 °C

Working Pressure:
Standard: 0-125 PSI / Options: 0-25 PSI • 0-60 PSI

Filtration:
Filter/Regulator: 5 micron
Coalescing Filter: 0.01 micron

Drain: Manual drain or internal auto drain

Bowl Capacity: 112.4 ml

Pressure Gauge Port Size: 1/8 (F) NPT

Differential Pressure Pop-up Indicator:
Triggers at 10 PSI differential

Differential pressure Pop-up indicator

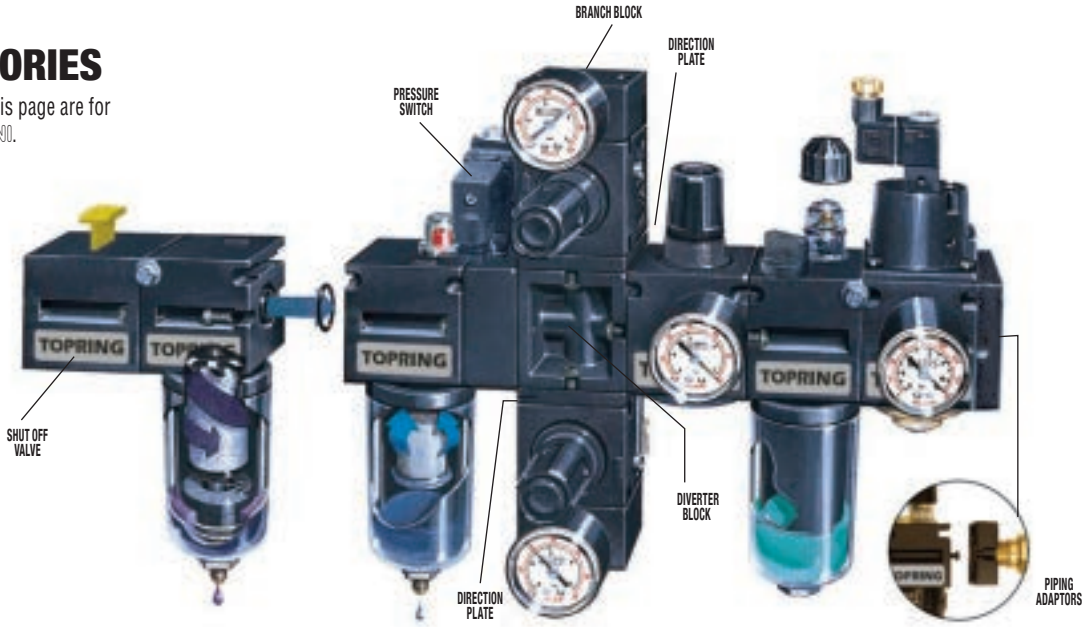


POLYURETHANE BOWL		ZINC BOWL		
Manual Drain Product No	Auto Drain Product No	Manual Drain Product No	Auto Drain Product No	Port Size (F) NPT
50.665	50.666	50.667	50.668	1/4
50.670	50.671	50.672	50.673	3/8
50.685	50.686	50.687	50.688	1/2

S50 MODULAIR MEDIUM

ACCESSORIES

Accessories on this page are for **MODULAIR** MINI.



PRESSURE SWITCH

Designed to give an electric signal when a set pressure is achieved.



50.007



50.009

Product No	Description
50.007	Pressure switch field adjustable 20-120 PSI, 1/8 (M) NPT, for all **MODULAIR**
50.009	Pressure switch kit includes pressure switch, branch block, gauge, necessary screws and O-rings for **MODULAIR** MEDIUM

3 Amp, 12/24/48 VDC, 125 VAC

SHUT OFF VALVE

Threaded ports allow use in-line or with other Series 50 FRL components

Accepts standard padlock

Conforms to OSHA Standard 29 CFR Part 10

3 port/2 position shut off valve relieves downstream pressure when closed

Can be locked in the closed position only

Maximum Working Pressure: 300 PSI

Includes: 2 screws and 1 O-Ring



Product No	Port Size
50.783	1/4 (F) NPT
50.784	3/8 (F) NPT
50.785	1/2 (F) NPT

DIVERTER BLOCK

Designed to mount in a variety of configurations with the capability of having branch line units mounted directly, giving multiple air lines with minimal pressure drop.

Includes: 6 screws, 3 O-Rings and 1 plug



Product No	Port Size In & Out	Port Size Branch
50.792	3/8 (F) NPT	1/4 (F) NPT
50.793	3/8 (F) NPT	3/8 (F) NPT

BRANCH BLOCK

Functions as an end plate with 1/8 NPT branch lines available top and bottom. Also used in conjunction with direction plates and regulators to provide outlets for gauges.

Includes: 4 screws, 1 O-Ring and 1 plug



Product No	Inlet Port	Branch Port
50.991	1/4 (F) NPT	1/8 (F) NPT
50.992	3/8 (F) NPT	1/8 (F) NPT

DIRECTION PLATE

Designed to allow 90° rotation of modular type FRL units allowing manifolding of units and resulting in significant space savings. Also used to mount units from different Series to one another.

Includes: 6 screws and 2 O-Rings



Product No
50.797

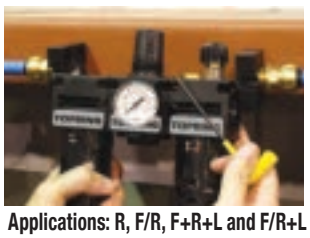
PIPING ADAPTORS (SET OF 2)

Designed to install or remove basic units without direct pipe connections to the units.

Includes: 4 screws and 2 O-Rings



Product No	Port size
50.951	1/4 (F) NPT
50.952	3/8 (F) NPT
50.956	1/2 (F) NPT



Applications: R, F/R, F+R+L and F/R+L

MEDIUM
1/4•3/8•1/2

S50

REPLACEMENT PARTS AND REPAIR KITS FOR MODULAIR MEDIUM



Product No 50.003
Auto Drain 175PSI (for Poly Bowl)
F, Fc, F/R MEDIUM & MAXI



Product No 50.005
Auto Drain 175PSI (for Zinc Bowl)
F, Fc, F/R MEDIUM & MAXI



Product No 50.031
Element 5 micron
F, F/R MEDIUM



Product No 50.075
Element 0.01 micron
Fc MEDIUM



Product No 50.802
Polyurethane Bowl (Manual Drain)
F, Fc, F/R MEDIUM



Product No 50.830
Polyurethane Bowl (Auto Drain)
F, Fc, F/R MEDIUM



Product No 50.803
Zinc Bowl + Transp. (Manual Drain)
F, Fc, F/R, L MEDIUM



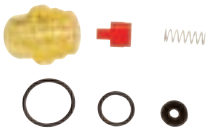
Product No 50.832
Zinc Bowl + Transp. (Auto Drain)
F, Fc, F/R MEDIUM



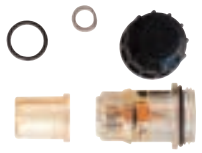
Product No 50.808
Polyurethane Bowl
L MEDIUM



Product No 50.035
Deflector + Retainer
F, F/R MEDIUM



Product No 50.011
Pop-up Indicator
Fc MEDIUM & MAXI



Product No 50.016
Sight Dome
L MINI, MEDIUM & MAXI



Product No 50.032
Relieving Diaphragm & Valve
R, F/R MEDIUM



Product No 50.033
Push-Pull Adjusting Knob
R, F/R MEDIUM



Product No 50.017
Cap Knob
R, F/R MEDIUM



Replacement gauges
R, F/R MEDIUM

Product No 55.100 0-30 PSI
Product No 55.110 0-100 PSI
Product No 55.120 0-160 PSI



Product No 50.730
Wall Bracket
F, R, L, Fc, F/R MEDIUM



Product No 50.720
Panel Bracket
R, F/R MINI & MEDIUM



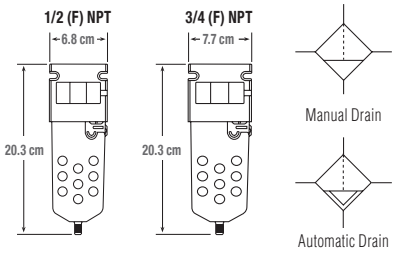
Product No 50.735
Mounting Nut
R, F/R MINI & MEDIUM

MAXI
1/2 • 3/4

S50 MODULAIR MAXI

FILTER





- **High-flow capacity reduces costly pressure drop**
- **Aluminium construction reduces weight for ease of installation**
- **Removes water through centrifugal force**
- **Removes contaminants down to 5 microns in size**
- **Automatic drain available**

Specifications

Port Size: 1/2 (F) NPT • 3/4 (F) NPT

Maximum Airflow at 100 PSI: 1/2: 115 SCFM • 3/4: 148 SCFM

Maximum Working Pressure:
Polyurethane Bowl: 150 PSI
Zinc Bowl (Manual Drain): 250 PSI
Zinc Bowl (Auto Drain): 175 PSI

Working Temperature:
Polyurethane Bowl: 4 °C to 52 °C
Zinc Bowl (Manual Drain): 4 °C to 66 °C
Zinc Bowl (Auto Drain): 4 °C to 52 °C

Filtration: 5 micron

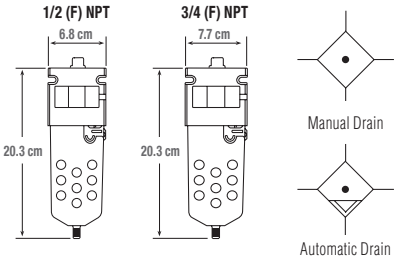
Drain: Manual drain or internal auto drain

Bowl Capacity: 251.4 ml

POLYURETHANE BOWL		ZINC BOWL		Port Size (F) NPT
Manual Drain Product No	Auto Drain Product No	Manual Drain Product No	Auto Drain Product No	
50.140	50.141	50.142	50.143	1/2
50.150	50.151	50.152	50.153	3/4

COALESCING FILTER





- **High-flow capacity reduces costly pressure drop**
- **Highly efficient filter designed to remove all solid particles over 0.01 micron, together with 99.999 % of oil and oil aerosols**
- **Automatic drain available**

Specifications

Port Size: 1/2 (F) NPT • 3/4 (F) NPT

Maximum Airflow at 100 PSI: 85 SCFM

Maximum Working Pressure:
Polyurethane Bowl: 150 PSI
Zinc Bowl (Manual Drain): 250 PSI
Zinc Bowl (Auto Drain): 175 PSI

Working Temperature:
Polyurethane Bowl: 4 °C to 52 °C
Zinc Bowl (Manual Drain): 4 °C to 66 °C
Zinc Bowl (Auto Drain): 4 °C to 52 °C

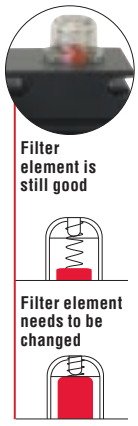
Filtration: 0.01 micron

Drain: Manual drain or internal auto drain

Bowl Capacity: 251.4 ml

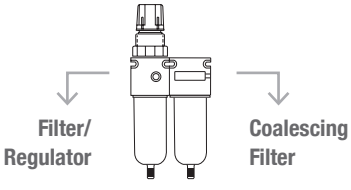
Differential Pressure Pop-up Indicator:
Triggers at 10 PSI differential

Differential pressure Pop-up indicator



TECH TIP

A coalescing filter should always be preceded by a filter or a filter/regulator (see page 153)



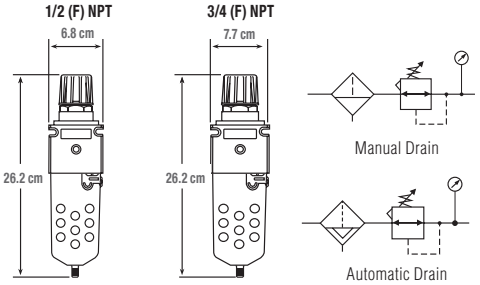
POLYURETHANE BOWL		ZINC BOWL		Port Size (F) NPT
Manual Drain Product No	Auto Drain Product No	Manual Drain Product No	Auto Drain Product No	
50.945	50.946	50.947	50.948	1/2
50.959	50.960	50.962	50.963	3/4

MAXI
1/2 • 3/4

S50 MODULAIR MAXI

INTEGRATED FILTER/REGULATOR
GAUGE INCLUDED





- **Space-saving integrated filter/regulator design**
- **High-flow capacity reduces costly pressure drop**
- **Push/Pull adjusting knob**
- **Maintains constant downstream pressure**
- **Automatic drain available**

Specifications

Port Size: 1/2 (F) NPT • 3/4 (F) NPT

Maximum Airflow at 100 PSI: 1/2: 132 SCFM • 3/4: 148 SCFM

Maximum Working Pressure:
Polyurethane Bowl: 150 PSI
Zinc Bowl (Manual Drain): 250 PSI
Zinc Bowl (Auto Drain): 175 PSI

Maximum Working Pressure:
Polyurethane Bowl: 4 °C to 52 °C
Zinc Bowl (Manual Drain): 4 °C to 66 °C
Zinc Bowl (Auto Drain): 4 °C to 52 °C

Working Pressure:
Standard: 0-125 PSI / Options: 0-25 PSI • 0-60 PSI • 0-250 PSI

Filtration: 5 micron

Drain: Manual drain or internal auto drain

Bowl Capacity: 251.4 ml

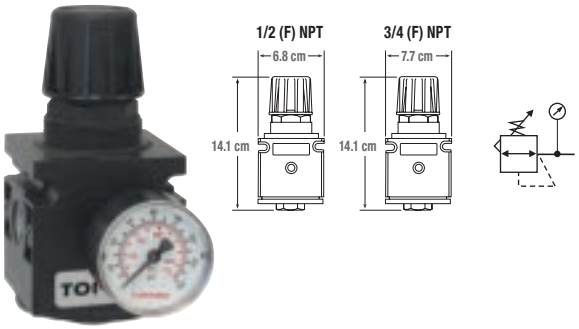
Pressure Gauge Port Size: 1/4 (F) NPT

Panel Mount Thread: 1-3/4 - 18 UNS - 2B

Panel Mount Opening: 1-3/4 in (4.4 cm)

POLYURETHANE BOWL		ZINC BOWL		
Manual Drain Product No	Auto Drain Product No	Manual Drain Product No	Auto Drain Product No	Port Size (F) NPT
50.240	50.241	50.242	50.243	1/2
50.250	50.251	50.252	50.253	3/4

REGULATOR
GAUGE INCLUDED



- **High-flow capacity reduces costly pressure drop**
- **Push/Pull adjusting knob**
- **Maintains constant downstream pressure**

Specifications

Port Size: 1/2 (F) NPT • 3/4 (F) NPT

Maximum Airflow at 100 PSI: 150 SCFM

Maximum Working Pressure: 300 PSI

Working Temperature: 4 °C to 52 °C

Pressure Gauge Port Size: 1/4 (F) NPT

Panel Mount Thread: 1-3/4 - 18 UNS - 2B

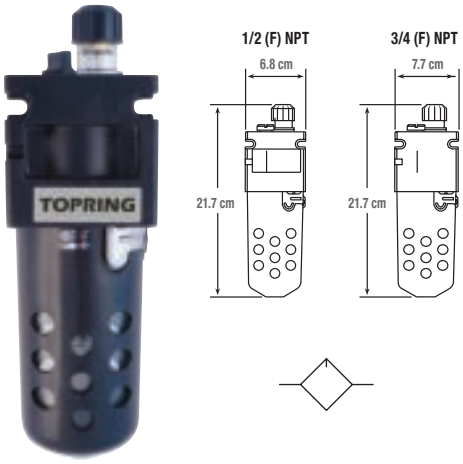
Panel Mount Opening: 1-3/4 in (4.4 cm)

Product No	Working Pressure PSI	Port Size (F) NPT	Replacement Gauge
50.340*	0-125	1/2	55.415
50.342**	0-125	1/2	55.415
50.343	0-25	1/2	55.400
50.344	0-60	1/2	55.410
50.345	0-250	1/2	55.425
50.350*	0-125	3/4	55.415
50.352**	0-125	3/4	55.415
50.353	0-25	3/4	55.400
50.354	0-60	3/4	55.410
50.355	0-250	3/4	55.425

* Standard model ** Non-relieving type

MAXI 1/2 • 3/4 S50 MODULAIR MAXI

LUBRICATOR



- **High-flow capacity reduces costly pressure drops**
- **Precision needle valve assures repeatable oil delivery and provides simple adjustment of delivery rates**

Specifications

Port Size: 1/2 (F) NPT • 3/4 (F) NPT

Maximum Airflow at 100 PSI:
1/2: 110 SCFM • 3/4: 125 SCFM

Maximum Working Pressure:
Polyurethane Bowl: 150 PSI
Zinc Bowl: 250 PSI

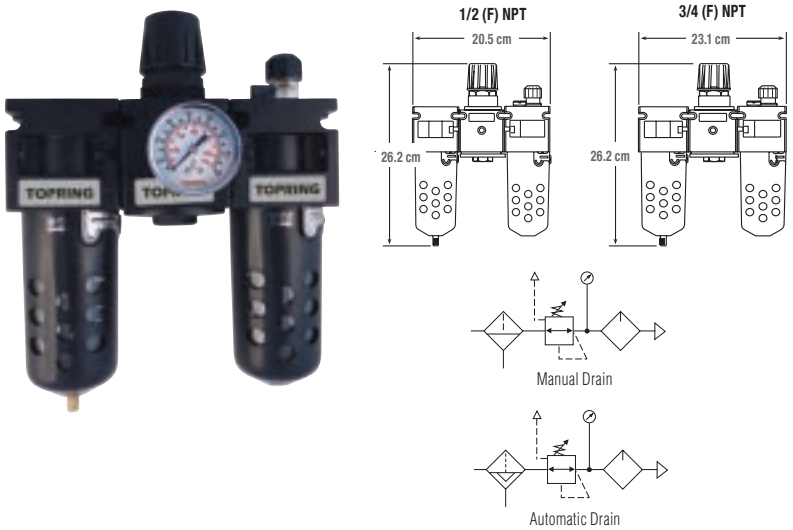
Working Temperature:
Polyurethane Bowl: 4 °C to 52 °C
Zinc Bowl: 4 °C to 66 °C

Bowl Capacity: 251.4 ml

POLYURETHANE BOWL Product No	ZINC BOWL Product No	Port Size (F) NPT
50.440	50.442	1/2
50.450	50.452	3/4

COMBINATION UNIT F+R+L

GAUGE INCLUDED



- **High performance combination of 3 units which disassemble easily**
- **High-flow design**
- **Removes contaminants down to 5 microns in size**
- **Removes water through centrifugal force**
- **Maintains constant downstream pressure**
- **Push-Pull adjusting knob**
- **Precision needle assures repeatable oil delivery and provides simple adjustment of delivery rates**
- **Automatic drain available**

Specifications

Port Size: 1/2 (F) NPT • 3/4 (F) NPT

Maximum Airflow at 100 PSI:
1/2: 110 SCFM • 3/4: 125 SCFM

Maximum Working Pressure:
Polyurethane Bowl: 150 PSI
Zinc Bowl (Manual Drain): 250 PSI
Zinc Bowl (Auto Drain): 175 PSI

Working Temperature:
Polyurethane Bowl: 4 °C to 52 °C
Zinc Bowl (Manual Drain): 4 °C to 66 °C
Zinc Bowl (Auto Drain): 4 °C to 52 °C

Working Pressure:
Standard: 0-125 PSI
Options: 0-25 PSI • 0-60 PSI • 0-250 PSI

Filtration : 5 micron

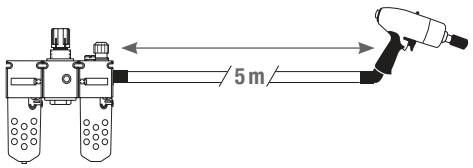
Drain: Manual drain or internal auto drain

Bowl Capacity: 251.4 ml

Pressure Gauge Port Size: 1/4 (F) NPT

TECH TIP

The lubricator should be installed within 5 meters of the application



POLYURETHANE BOWL		ZINC BOWL		Port Size (F) NPT
Manual Drain Product No	Auto Drain Product No	Manual Drain Product No	Auto Drain Product No	
50.540	50.541	50.542	50.543	1/2
50.550	50.551	50.552	50.553	3/4

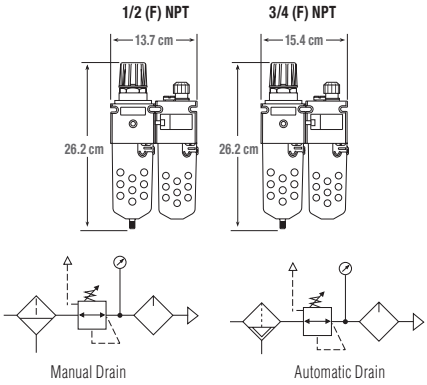
Available with piping adaptors: add suffix .01 (see page 157)

MAXI
1/2 • 3/4

S50 MODULAIR MAXI

COMBINATION UNIT F/R + L
GAUGE INCLUDED





- **Compact design with space-saving integrated F/R**
- **High-flow design**
- **Removes contaminants down to 5 microns in size**
- **Removes water through centrifugal force**
- **Maintains constant downstream pressure**
- **Push-Pull adjusting knob**
- **Precision needle assures repeatable oil delivery and provides simple adjustment of delivery rates**
- **Automatic drain available**

Specifications

Port Size: 1/2 (F) NPT • 3/4 (F) NPT

Maximum Airflow at 100 PSI: 1/2: 110 SCFM • 3/4: 125 SCFM

Maximum Working Pressure:
Polyurethane Bowl: 150 PSI
Zinc Bowl: Manual Drain 250 PSI • Auto Drain 175 PSI

Working Temperature:
Polyurethane Bowl: 4 °C to 52 °C
Zinc Bowl: Manual Drain 4 °C to 66 °C • Auto Drain 4 °C to 52 °C

Working Pressure:
Standard: 0-125 PSI / Options: 0-25 PSI • 0-60 PSI • 0-250 PSI

Filtration: 5 micron

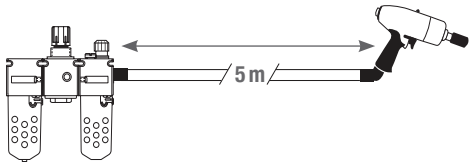
Drain: Manual drain or internal auto drain

Bowl Capacity: 251.4 ml

Pressure Gauge Port Size: 1/4 (F) NPT

TECH TIP

The lubricator should be installed within 5 meters of the application

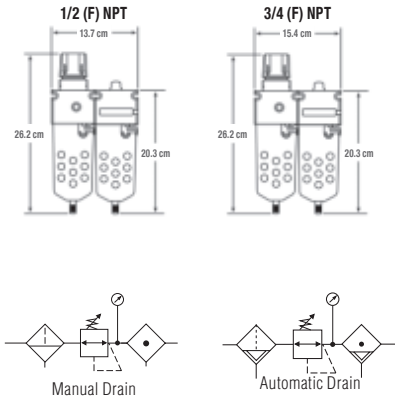


POLYURETHANE BOWL		ZINC BOWL		
Manual Drain Product No	Auto Drain Product No	Manual Drain Product No	Auto Drain Product No	Port Size (F) NPT
50.640	50.641	50.642	50.643	1/2
50.650	50.651	50.652	50.653	3/4

Available with piping adaptors: add suffix .01 (see page 157)

COMBINATION UNIT F/R+Fc
GAUGE INCLUDED





- **Compact design with space-saving integrated F/R**
- **Removes water through centrifugal force**
- **Maintains constant downstream pressure**
- **Push-Pull adjusting knob**
- **Highly efficient coalescing filter designed to remove all solid particles over 0.01 micron, together with 99.999% of oil and oil aerosols**
- **Automatic drain available**

Specifications

Port Size: 1/2 (F) NPT • 3/4 (F) NPT

Maximum Airflow at 100 PSI: 85 SCFM

Maximum Working Pressure:
Polyurethane Bowl: 150 PSI
Zinc Bowl (Manual Drain): 250 PSI
Zinc Bowl (Auto Drain): 175 PSI

Working Temperature:
Polyurethane Bowl: 4 °C to 52 °C
Zinc Bowl (Manual Drain): 4 °C to 66 °C
Zinc Bowl (Auto Drain): 4 °C to 52 °C

Working Pressure:
Standard: 0-125 PSI
Options: 0-25 PSI • 0-60 PSI • 0-250 PSI

Filtration:
Filter/Regulator: 5 micron
Coalescing Filter: 0.01 micron

Drain: Manual drain or internal auto drain

Bowl Capacity: 251.4 ml

Pressure Gauge Port Size: 1/4 (F) NPT

Differential Pressure Pop-up Indicator:
Triggers at 10 PSI differential

Differential pressure Pop-up indicator



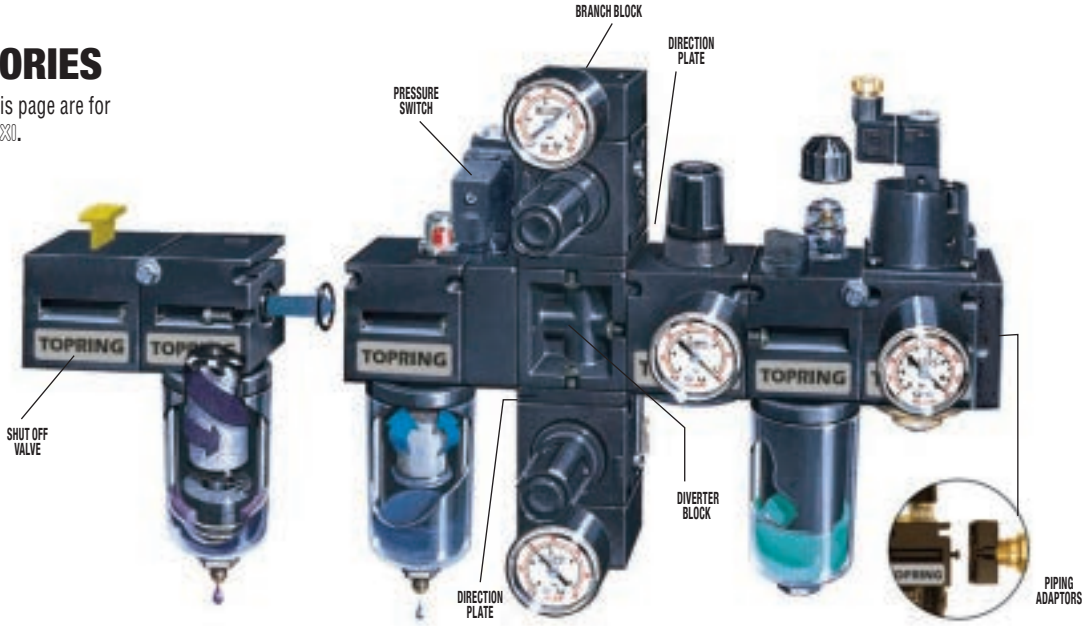
POLYURETHANE BOWL		ZINC BOWL		
Manual Drain Product No	Auto Drain Product No	Manual Drain Product No	Auto Drain Product No	Port Size (F) NPT
50.675	50.676	50.677	50.678	1/2
50.680	50.681	50.682	50.683	3/4

Available with piping adaptors: add suffix .01 (see page 157)

S50 MODULAIR MAXI

ACCESSORIES

Accessories on this page are for **MODULAIR** MAXI.



PRESSURE SWITCH

Designed to give an electric signal when a set pressure is achieved.



Prod. No	Description
50.007	Pressure switch field adjustable 20-120 PSI, 1/8 (M) NPT, for all **MODULAIR**

3 Amp, 12/24/48 VDC, 125 VAC

DIVERTER BLOCK

Designed to mount in a variety of configurations with the capability of having branch line units mounted directly, giving multiple air lines with minimal pressure drop.

Includes: 6 screws, 3 O-Rings and 1 plug



Product No	Port Size In & Out	Port Size Branch
50.794	3/4 (F) NPT	1/2 (F) NPT

BRANCH BLOCK

Designed to fit within any combination providing two 3/8 NPT branch lines.



50.985



50.986

Product No	Description
50.985	Between: • Filter and regulator • Regulator and lubricator • Piping adaptor and filter • Lubricator and piping adaptor **Includes: 4 screws and 1 O-Ring**
50.986	Between: • Filter and coalescing filter • Filter and lubricator **Includes: 4 screws and 2 O-Rings**

SHUT OFF VALVE

Threaded ports allow use in-line or with other Series 50 FRL components

Accepts standard padlock

Conforms to OSHA Standard 29 CFR Part 10

3 port/2 position shut off valve relieves downstream pressure when closed

Can be locked in the closed position only

Maximum Working Pressure: 300 PSI
Includes: 2 screws and 1 O-Ring

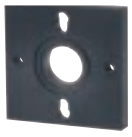


Product No	Port Size
50.786	1/2 (F) NPT
50.787	3/4 (F) NPT

DIRECTION PLATE

Designed to allow 90° rotation of modular type FRL units allowing manifolding of units and resulting in significant space savings. Also used to mount units from different series to one another.

Includes: 6 screws and 3 O-Rings



Product No
50.799

PIPING ADAPTORS (SET OF 2)

Designed to install or remove basic units without direct pipe connections to the units.

Includes: 4 screws and 2 O-Rings



Product No	Port Size
50.953	1/2 (F) NPT
50.954	3/4 (F) NPT



Applications: R, F/R, F+R+L and F/R+L

REPLACEMENT PARTS AND REPAIR KITS FOR MODULAIR MAXI



Product No 50.003
Auto Drain 175PSI (for Poly. Bowl)
F, Fc, F/R MAXI



Product No 50.005
Auto Drain 175PSI (for Zinc Bowl)
F, Fc, F/R MAXI



Product No 50.041
Element 5 mic
F, F/R MAXI



Product No 50.080
Element 0.01 mic
Fc MAXI



Product No 50.804
Polyurethane Bowl (Manual Drain)
F, Fc, F/R MAXI



Product No 50.840
Polyurethane Bowl (Auto Drain)
F, Fc, F/R MAXI



Product No 50.805
Zinc Bowl + Transp. (Manual Drain)
F, Fc, F/R, L MAXI



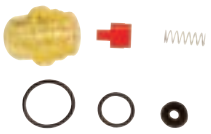
Product No 50.842
Zinc Bowl + Transp. (Auto Drain)
F, Fc, F/R MAXI



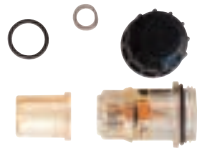
Product No 50.810
Polyurethane Bowl
L MAXI



Product No 50.045
Deflector + Retainer
F, F/R MAXI



Product No 50.011
Pop-Up Indicator
Fc MEDIUM & MAXI



Product No 50.016
Sight Dome
L MINI, MEDIUM & MAXI



Product No 50.014
Relieving Diaphragm & Valve
R, F/R MAXI



Product No 50.047
Non-Relieving Diaphragm & Valve
R, F/R MAXI



Product No 50.034
Push-Pull Adjusting Knob
R, F/R MAXI



Product No 50.018
Cap Knob
R, F/R MAXI



Replacement gauges
R, F/R MAXI
Product No 55.400 0-30 PSI
Product No 55.410 0-100 PSI
Product No 55.415 0-160 PSI
Product No 55.425 0-300 PSI



Product No 50.740
Wall Bracket
F, R,L, Fc, F/R MAXI



Product No 50.742
Panel Bracket
R, F/R MAXI



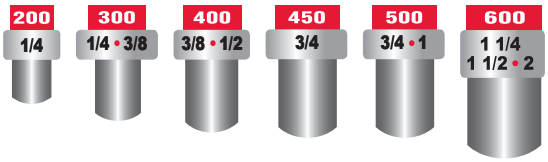
Product No 50.745
Mounting Nut
R, F/R MAXI

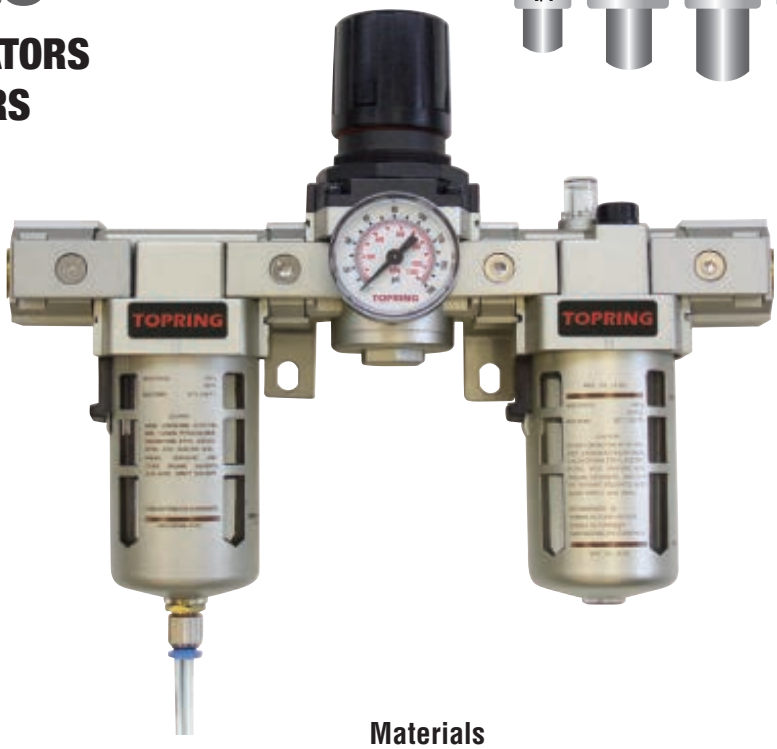
S51
AIRFLO
FILTERS, REGULATORS AND LUBRICATORS



S51 AIRFLO

FILTERS, REGULATORS AND LUBRICATORS





Features and benefits

- High performance filtration, regulation and lubrication
- Quick and easy mounting and removal with modular system
- Compact size for easy installation
- 6 models (200, 300, 400, 450, 500 and 600) and 8 port sizes (1/4, 3/8, 1/2, 3/4, 1 in, 1-1/4, 1-1/2 and 2 in) to provide solutions for most applications
- Flow rates available from 18 to 282 SCFM for adaptation to virtually all applications for port sizes from 1/4 to 1 in
- Flow rates available from 405 to 775 SCFM for port sizes from 1-1/4 to 2 in
- Modular concept using spacers and brackets to make connecting and mounting simple and easy (200, 300, 400, 450 and 500)
- Polycarbonate bowls with metal bowl guards (200, 300 and 400) and metal bowls (450, 500 and 600)
- Bayonet type bowl locking system
- Silicone-free assembly lubricant

AIRFLO

STAINLESS STEEL

See pages 206 to 209

Materials

Body Material: Die cast aluminium

Bowl Type:
200 • 300 • 400: Polycarbonate with steel guard
450 • 500 • 600: Die cast aluminium

Bowl Guard: 200 • 300 • 400: Steel

Regulation Type: Relieving

Filter Element:
200 to 500: Polyethylene, 5 micron
400 (coalescing filter): Borosilicate, 0.01 micron
600: Sintered bronze 5 micron

Deflector & Spinner: ABS

O-Rings & Seals: EPDM rubber

Regulator Cap:
200 • 300: Reinforced nylon
400 • 450 • 500 • 600: Die cast aluminium

Regulator Adjusting Knob: Reinforced nylon

Diaphragm: EPDM rubber

Poppet Valve: Brass and rubber

Regulator Spring: Stainless steel

Lubricator Sight Gauge: Polycarbonate

Fill Plug: ABS

Retainer: ABS

Lubricator Adjusting Knob: ABS

Check Flap: Polyurethane

Specifications

Maximum Working Pressure: 150 PSI

Working Temperature: 5 to 60 °C

Filtration: 5 micron

Coalescing filtration: 0.01 micron

Drain: Semi-automatic or automatic drain

S51 AIRFLO

MODULARITY SAVES TIME AND MONEY

TOPRING AIRFLO modular FRL units are easy to put together, take apart and install.

Units are simply mounted together using the provided spacers and O-ring seals, without the need for inconvenient brass pipe nipples.

Installation is easy, especially when using the provided piping adapters (models 200, 300, 400 and 500).

The unit is installed by simply screwing the piping adapters onto the two ends of the airline and securing the FRL unit into place with the provided spacers, screws and O-ring seals.

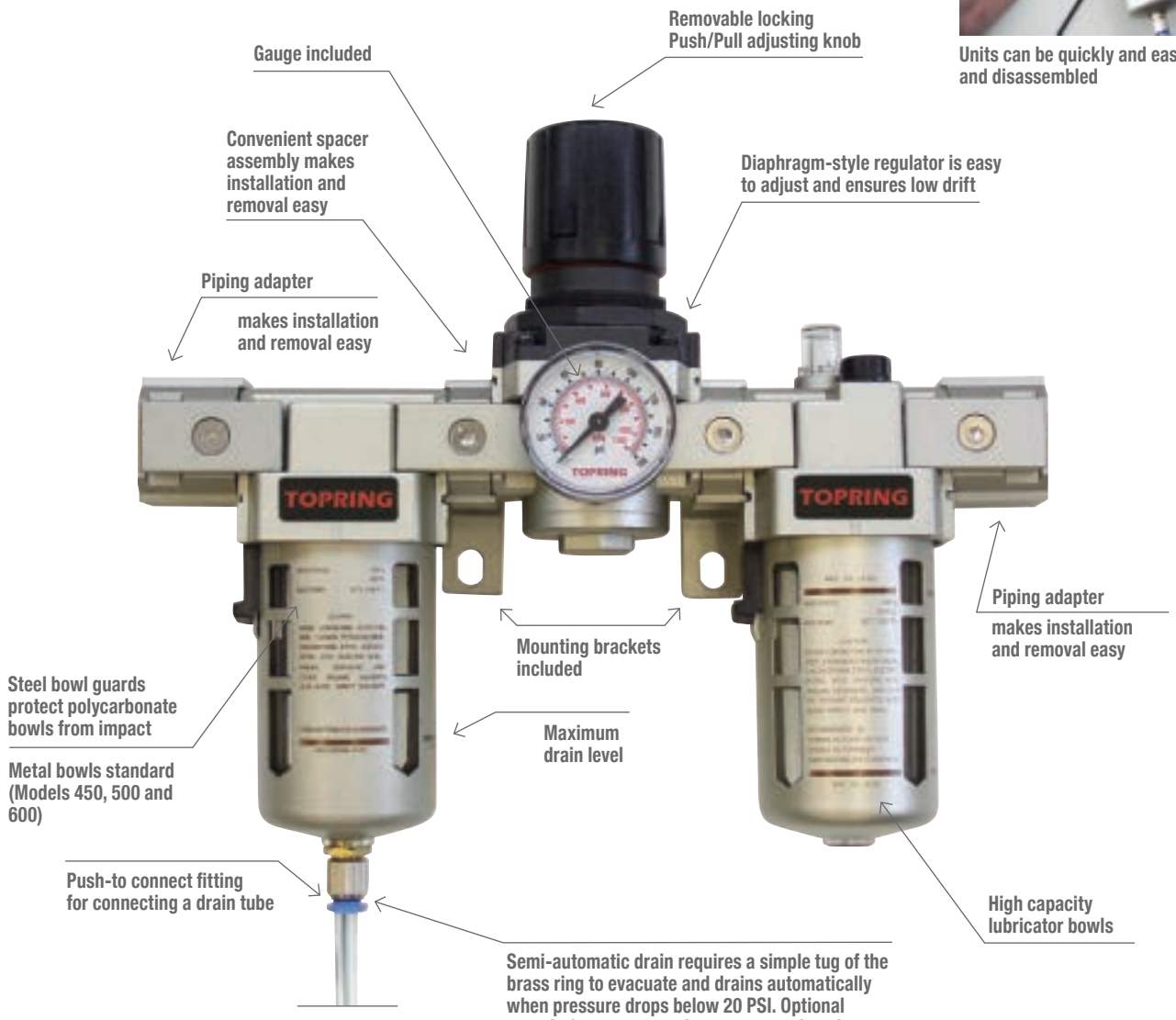
Removal for maintenance purposes is just as simple, requiring only the removal of the retaining screws and spacers in order to remove the unit.



Assembly is simple using Allen key



Units can be quickly and easily assembled and disassembled



S51 AIRFLO

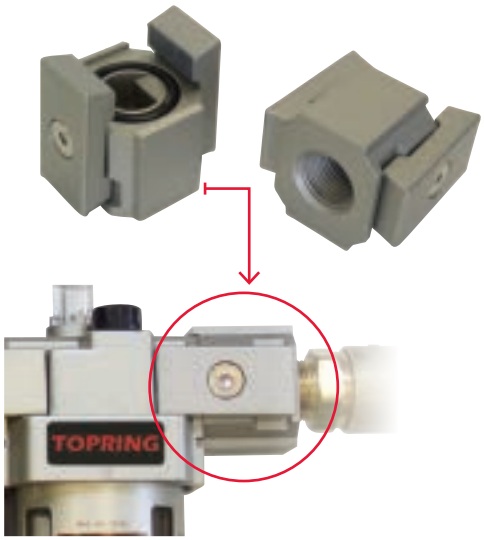
TRUE MODULARITY COMES WITH THE USE OF PIPING ADAPTERS

The biggest challenge with standard type FRL units requiring brass pipe fittings is screwing the unit onto opposing ends of airline piping (while tightening one end, the other end is being loosened).

With the piping adapters provided with **TOPRING AIRFLO** modular FRL, the unit is installed by simply screwing the piping adapters onto the two ends of the airline and securing the FRL unit into place with the provided spacers, screws and O-ring seals.

Removal for maintenance purposes is just as simple, requiring only the removal of the retaining screws and spacers in order to remove the unit.

Piping adapters are therefore the ideal method for allowing simple and easy installation and removal of FRL units.



STANDARD TYPE → VERY DIFFICULT

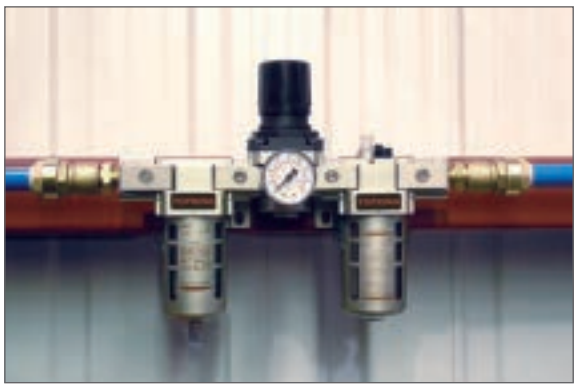


Standard FRLs use brass pipe nipples



This makes maintenance very difficult

MODULAR TYPE → VERY EASY



Modular AIRFLO FRLs with pipe adapters make for a very neat installation



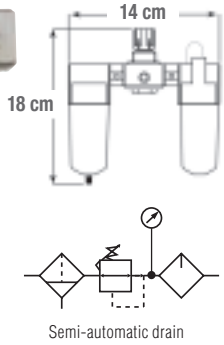
Removal is very easy, since the piping adapters allow the unit to slide out

200 1/4 S51 AIRFLO 200

COMBINATION UNIT F+R+L

GAUGE INCLUDED





- **Easy removal of individual units**
- **Accurate pressure control with little drift**
- **Removable locking Push/Pull adjusting knob**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **Lubrication proportioned to airflow**
- **Pressure gauge, piping adapters and mounting bracket included**

Specifications

Port Size: 1/4 (F) NPT

Maximum Airflow at 100 PSI: 18 SCFM

Maximum Working Pressure: 150 PSI

Pressure Range: Standard: 5-125 PSI
Options: 5-30 PSI • 5-60 PSI

Working Temperature: 5 to 60 °C

Filtration: 5 micron

Drain: Semi-automatic, 6 mm O.D. tubing

Bowl Capacity: Filter: 15 ml
Lubricator: 25 ml

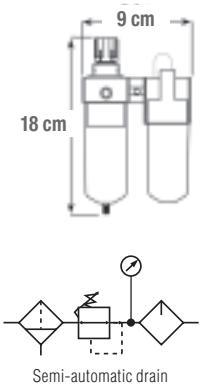
Pressure Gauge Port Size: 1/8 (F) NPT

POLYCARBONATE BOWL	
Product No	Port Size (F) NPT
51.210	1/4

COMBINATION UNIT F/R + L

GAUGE INCLUDED





- **Compact design with space saving integrated F/R**
- **Accurate pressure control with little drift**
- **Removable locking Push/Pull adjusting knob**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **Lubrication proportioned to airflow**
- **Pressure gauge, piping adapters and mounting bracket included**

Specifications

Port Size: 1/4 (F) NPT

Maximum at 100 PSI: 18 SCFM

Maximum Working Pressure: 150 PSI

Pressure Range: Standard: 5-125 PSI
Options: 5-30 PSI • 5-60 PSI

Working Temperature: 5 to 60 °C

Filtration: 5 micron

Drain: Semi-automatic, 6 mm O.D. tubing

Bowl Capacity: Filter: 15 ml
Lubricator: 25 ml

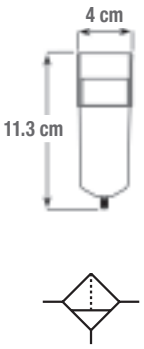
Pressure Gauge Port Size: 1/8 (F) NPT

POLYCARBONATE BOWL	
Product No	Port Size (F) NPT
51.220	1/4

S51 AIRFLO 200

FILTER





- **Compact size**
- **Removes water through centrifugal force**
- **Removes contaminants down to 5 microns in size**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **Mounting bracket included**

Specifications

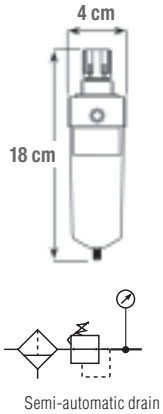
Port Size: 1/4 (F) NPT
Maximum Airflow at 100 PSI: 26 SCFM
Maximum Working Pressure: 150 PSI
Working Temperature: 5 to 60 °C
Filtration: 5 micron
Drain: Semi-automatic, 6 mm O.D. tubing
Bowl Capacity: 15 ml

POLYCARBONATE BOWL	
Product No	Port Size (F) NPT
51.260	1/4

FILTER/REGULATOR

GAUGE INCLUDED





- **Space saving integrated filter/regulator design**
- **Removes water through centrifugal force**
- **Removes contaminants down to 5 microns in size**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **Accurate pressure control with little drift**
- **Removable locking Push/Pull adjusting knob**
- **Pressure gauge and mounting bracket included**

Specifications

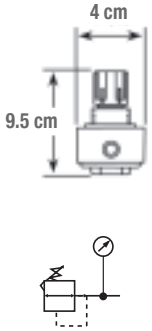
Port Size: 1/4 (F) NPT
Maximum Airflow at 100 PSI: 19 SCFM
Maximum Working Pressure: 150 PSI
Pressure Range: Standard: 5-125 PSI
Options: 5-30 PSI • 5-60 PSI
Working Temperature: 5 to 60 °C
Filtration: 5 micron
Drain: Semi-automatic, 6 mm O.D. tubing
Bowl Capacity: 15 ml
Pressure Gauge Port Size: 1/8 (F) NPT

POLYCARBONATE BOWL	
Product No	Port Size (F) NPT
51.250	1/4

S51 AIRFLO 200

REGULATOR
GAUGE INCLUDED





- **Compact size**
- **Accurate pressure control with little drift**
- **Removable locking Push/Pull adjusting knob**
- **Pressure gauge and mounting bracket included**

Specifications

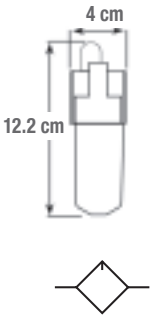
Port Size: 1/4 (F) NPT
Maximum Airflow at 100 PSI: 19 SCFM
Maximum Working Pressure: 150 PSI
Working Temperature: 5 to 60 °C
Pressure Gauge Port Size: 1/8 (F) NPT

Product No	Pressure Range PSI	Port Size (F) NPT	Replacement Gauge
51.240*	5 - 125	1/4	**55.120**
51.241	5 - 60	1/4	**55.105**
51.242	5 - 30	1/4	**55.100**

* Popular model

LUBRICATOR





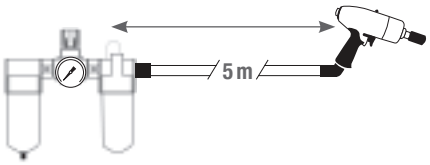
- **Compact size**
- **Lubrication proportioned to airflow**
- **Mounting bracket included**

Specifications

Port Size: 1/4 (F) NPT
Maximum Airflow at 100 PSI: 28 SCFM
Maximum Working Pressure: 150 PSI
Working Temperature: 5 to 60 °C
Bowl Capacity: 25 ml

TECH TIP

The lubricator should be installed within 5 meters of the application



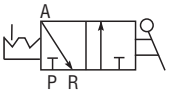
POLYCARBONATE BOWL	
Product No	Port Size (F) NPT
51.230	1/4

200
1/4

S51 AIRFLO 200

VENTING SAFETY LOCK-OUT VALVE





SAFETY LOCKOUT

- Shut off valve for closing flow to or from AIRFLO FRL units
- 3 port/2 position valve relieves downstream pressure when closed
- Can be locked in the closed position
- Can be mounted directly to AIRFLO components using standard AIRFLO spacers included
- Threaded ports also allow in-line use with other components
- Accepts standard single padlock or safety lock for multiple lockout
- Mounting bracket included
- Meets OSHA Standard 29 CFR Part 10



Product No	Port Size (F) NPT	Vent Port (F) NPT
51.270	1/4	1/8

Specifications

Maximum Working Pressure: 150 PSI

REPLACEMENT PARTS AND REPAIR KITS FOR AIRFLO 200



Product No 51.090.05
5 micron element
for AIRFLO 200 F, F/R



Product No 51.800
Poly. bowl w / guard (semi-auto drain)
for AIRFLO 200 F, F/R



Product No 51.850
Poly. bowl w / guard
for AIRFLO 200 L



Product No 51.122
Diaphragm & piston
for AIRFLO 200 R, F/R



Product No 51.851
Sight dome
for AIRFLO 200 L



Replacement gauges
for AIRFLO 200 R, F/R
Product No 55.100 0-30 PSI
Product No 55.105 0-60 PSI
Product No 55.120 0-160 PSI



Product No 51.950
Piping adapters 1/4 (F) NPT (2)
for AIRFLO 200



Product No 51.030
Spacer w / L-type bracket
for AIRFLO 200



Product No 51.005
Spacer w / T-type bracket
for AIRFLO 200



Product No 51.070
Mounting bracket
for AIRFLO 200 F, L



Product No 51.050
Mounting bracket
for AIRFLO 200 R, F/R



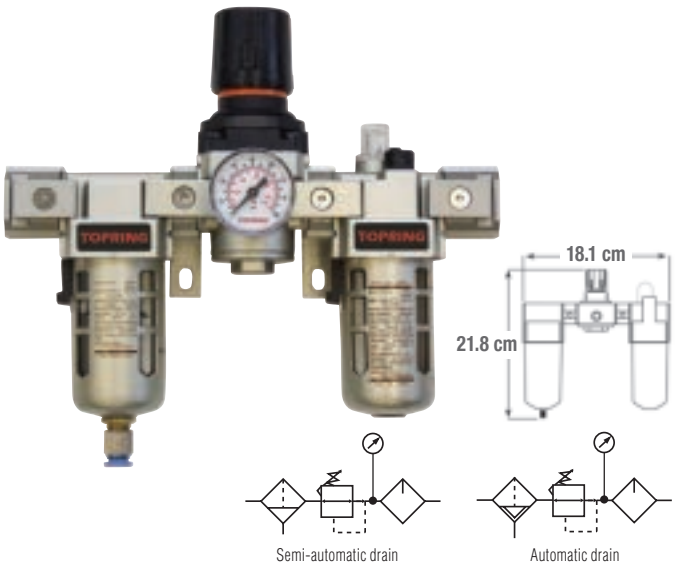
Product No 51.115
Mounting nut
for AIRFLO 200 R, F/R

300
1/4 • 3/8

S51 AIRFLO 300

COMBINATION UNIT F+R+L

GAUGE INCLUDED



- **Easy removal of individual units**
- **Accurate pressure control with little drift**
- **Removable locking Push/Pull adjusting knob**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **Lubrication proportioned to airflow**
- **Pressure gauge, piping adapters and mounting brackets included**

Specifications

Port Size: 1/4 (F) NPT • 3/8 (F) NPT

Maximum Airflow at 100 PSI: 53 SCFM

Maximum Working Pressure: 150 PSI

Pressure Range: Standard: 5-125 PSI
Options: 5-30 PSI • 5-60 PSI

Working Temperature: 5 to 60 °C

Filtration: 5 micron

Drain: Semi-automatic, 8 mm O.D. tubing or automatic drain

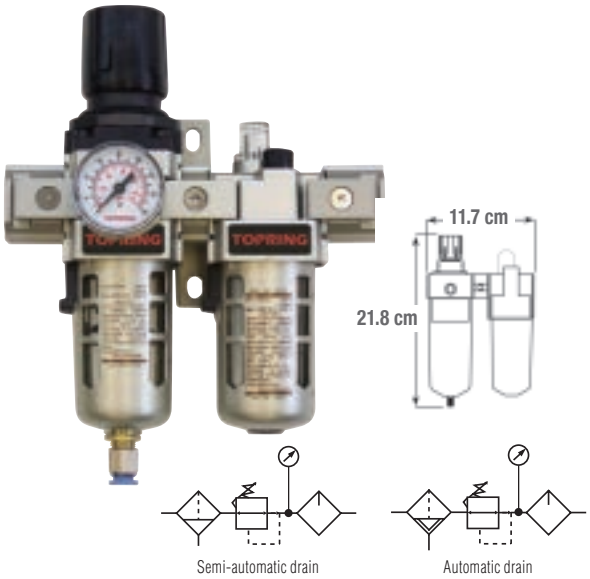
Bowl Capacity: Filter: 20 ml
Lubricator: 50 ml

Pressure Gauge Port Size: 1/8 (F) NPT

POLYCARBONATE BOWL		
Semi-auto. Drain Product No	**Auto. Drain Product No**	Port Size (F) NPT
51.310	**51.311**	1/4
51.315	**51.316**	3/8

COMBINATION UNIT F/R + L

GAUGE INCLUDED



- **Compact design with space saving integrated filter/regulator**
- **Accurate pressure control with little drift**
- **Removable locking Push/Pull adjusting knob**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **Lubrication proportioned to airflow**
- **Pressure gauge, piping adapters and mounting brackets included**

Specifications

Port Size: 1/4 (F) NPT • 3/8 (F) NPT

Maximum Airflow at 100 PSI: 60 SCFM

Maximum Working Pressure: 150 PSI

Pressure Range: Standard: 5-125 PSI
Options: 5-30 PSI • 5-60 PSI

Working Temperature: 5 to 60 °C

Filtration: 5 micron

Drain: Semi-automatic, 8 mm O.D. tubing or automatic drain

Bowl Capacity: Filter: 20 ml
Lubricator: 50 ml

Pressure Gauge Port Size: 1/8 (F) NPT

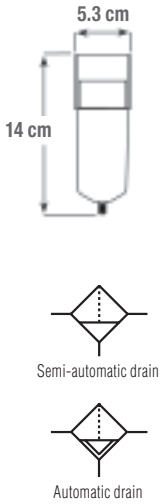
POLYCARBONATE BOWL		
Semi-auto. Drain Product No	**Auto. Drain Product No**	Port Size (F) NPT
51.320	**51.321**	1/4
51.325	**51.326**	3/8

300
1/4 • 3/8

S51 AIRFLO 300

FILTER





- **Compact size**
- **Removes water through centrifugal force**
- **Removes contaminants down to 5 micron in size**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **Mounting bracket included**

Specifications

Port Size: 1/4 (F) NPT • 3/8 (F) NPT

Maximum Airflow at 100 PSI: 53 SCFM

Maximum Working Pressure: 150 PSI

Working Temperature: 5 to 60 °C

Filtration: 5 micron

Drain: Semi-automatic, 8 mm O.D. tubing or automatic drain

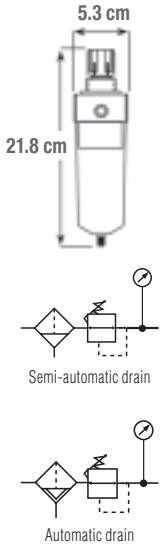
Bowl Capacity: 20 ml

POLYCARBONATE BOWL		
Semi-auto. Drain Product No	**Auto. Drain Product No**	Port Size (F) NPT
51.360	**51.361**	1/4
51.365	**51.366**	3/8

FILTER/REGULATOR

GAUGE INCLUDED





- **Space saving integrated filter/regulator design**
- **Removes water through centrifugal force**
- **Removes contaminants down to 5 micron in size**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **Accurate pressure control with little drift**
- **Removable locking Push/Pull adjusting knob**
- **Pressure gauge and mounting bracket included**

Specifications

Port Size: 1/4 (F) NPT • 3/8 (F) NPT

Maximum Airflow at 100 PSI: 70 SCFM

Maximum Working Pressure: 150 PSI

Pressure Range: Standard: 5-125 PSI
Options: 5-30 PSI • 5-60 PSI

Working Temperature: 5 to 60 °C

Filtration: 5 micron

Drain: Semi-automatic, 8 mm O.D. tubing or automatic drain

Bowl Capacity: 20 ml

Pressure Gauge Port Size: 1/8 (F) NPT

POLYCARBONATE BOWL		
Semi-auto. Drain Product No	**Auto. Drain Product No**	Port Size (F) NPT
51.350	**51.351**	1/4
51.355	**51.356**	3/8

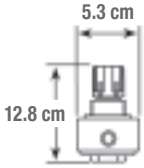
300
1/4 • 3/8

S51 AIRFLO 300

REGULATOR

GAUGE INCLUDED







- **Compact size**
- **Accurate pressure control with little drift**
- **Removable locking Push/Pull adjusting knob**
- **Pressure gauge and mounting bracket included**

Specifications

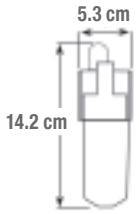
Port Size: 1/4 (F) NPT • 3/8 (F) NPT
Maximum Airflow at 100 PSI: 88 SCFM
Maximum Working Pressure: 150 PSI
Working Temperature: 5 to 60 °C
Pressure Gauge Port Size: 1/8 (F) NPT

Product No	Pressure Range PSI	Port Size (F) NPT	Replacement Gauge
51.340*	5 - 125	1/4	**55.120**
51.341	5 - 60	1/4	**55.105**
51.342	5 - 30	1/4	**55.100**
51.345*	5 - 125	3/8	**55.120**
51.346	5 - 60	3/8	**55.105**
51.347	5 - 30	3/8	**55.100**

* Popular model

LUBRICATOR







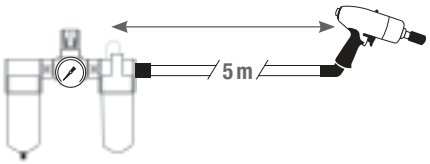
- **Compact size**
- **Lubrication proportioned to airflow**
- **Mounting bracket included**

Specifications

Port Size: 1/4 (F) NPT • 3/8 (F) NPT
Maximum Airflow at 100 PSI: 60 SCFM
Maximum Working Pressure: 150 PSI
Working Temperature: 5 to 60 °C
Bowl Capacity: 50 ml

TECH TIP

The lubricator should be installed within 5 meters of the application



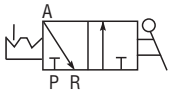
POLYCARBONATE BOWL	
Product No	Port Size (F) NPT
51.330	1/4
51.335	3/8

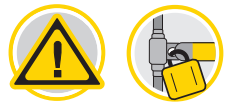
300
1/4 • 3/8

S51 AIRFLO 300

VENTING SAFETY LOCK-OUT VALVE







- Shut off valve for closing flow to or from AIRFLO FRL units
- 3 port/2 position valve relieves downstream pressure when closed
- Can be locked in the closed position
- Can be mounted directly to AIRFLO components using standard AIRFLO spacers included
- Threaded ports also allow in-line use with other components
- Accepts standard single padlock or safety lock for multiple lockout
- Mounting bracket included
- Meets OSHA Standard 29 CFR Part 10



Product No	Port Size (F) NPT	Vent Port (F) NPT
51.370	1/4	1/4
51.375	3/8	1/4

Specifications

Maximum Working Pressure: 150 PSI

AIR TOOL OILS

SYNTHETIC OIL FOR EXTREME TEMPERATURES

Detergent-free synthetic formula, with polyalphaolefins for optimum speed and power of air tools



PREMIUM MINERAL OIL

Detergent-free mineral formula for maximum output and superior performance of air tools



For more details on oils, see Series 69, pages 492 and 493

REPLACEMENT PARTS AND REPAIR KITS FOR AIRFLO 300



Product No 51.002
Auto. drain
for AIRFLO 300 F, F/R



Product No 51.092.05
5 micron element
for AIRFLO 300 F, F/R



Product No 51.805
Poly. bowl w / guard (semi-auto drain)
for AIRFLO 300 F, F/R



Product No 51.815
Poly. bowl w / guard (semi-auto drain)
for AIRFLO 300 F, F/R



Product No 51.855
Poly. bowl w / guard
for AIRFLO 300 L



Product No 51.133
Diaphragm & piston
for AIRFLO 300 R



Product No 51.134
Diaphragm & piston
for AIRFLO 300 F/R



Product No 51.856
Sight dome
for AIRFLO 300-400-450-500 L



Replacement gauges
for AIRFLO 300 R, F/R

Product No 55.100 0-30 PSI
Product No 55.105 0-60 PSI
Product No 55.120 0-160 PSI



Product No 51.951
Piping adapters 1/4 (F) NPT (2)
for AIRFLO 300
Product No 51.952
Piping adapters 3/8 (F) NPT (2)
for AIRFLO 300



Product No 51.035
Spacer w / L-type bracket
for AIRFLO 300



Product No 51.010
Spacer w / T-type bracket
for AIRFLO 300



Product No 51.075
Mounting bracket
for AIRFLO 300 F, L



Product No 51.055
Mounting bracket
for AIRFLO 300 R, F/R



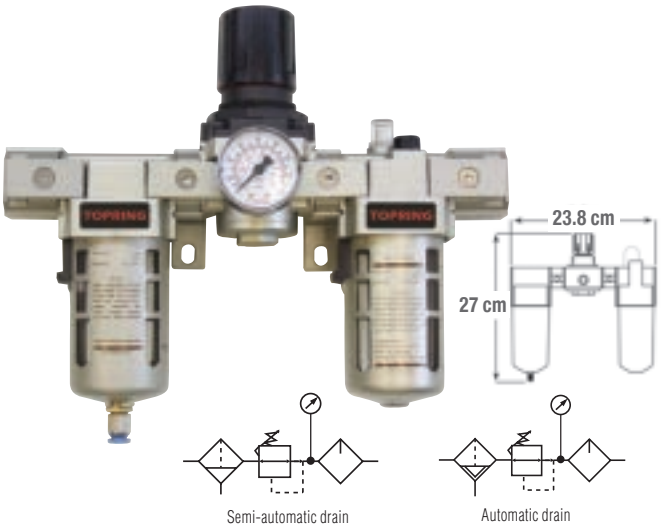
Product No 51.116
Mounting nut
for AIRFLO 300 R, F/R

400
3/8 • 1/2

S51 AIRFLO 400

COMBINATION UNIT F+R+L

GAUGE INCLUDED



- **Easy removal of individual units**
- **Accurate pressure control with little drift**
- **Removable locking Push/Pull adjusting knob**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **Lubrication proportioned to airflow**
- **Pressure gauge, piping adapters and mounting bracket included**

Specifications

Port Size: 3/8 (F) NPT • 1/2 (F) NPT

Maximum Airflow at 100 PSI: 141 SCFM

Maximum Working Pressure: 150 PSI

Pressure Range: Standard: 5-125 PSI
Options: 5-30 PSI • 5-60 PSI

Working Temperature: 5 to 60 °C

Filtration: 5 micron

Drain: Semi-automatic, 8 mm O.D. tubing or automatic drain

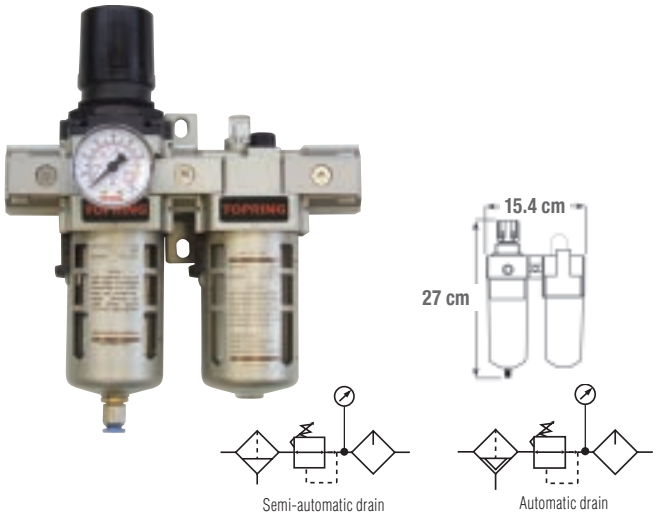
Bowl Capacity: Filter: 45 ml
Lubricator: 130 ml

Pressure Gauge Port Size: 1/4 (F) NPT

POLYCARBONATE BOWL		
Semi-auto. Drain Product No	Auto. Drain Product No	Port Size (F) NPT
51.410	51.411	3/8
51.415	51.416	1/2

COMBINATION UNIT F/R + L

GAUGE INCLUDED



- **Compact design with space saving integrated filter/regulator**
- **Accurate pressure control with little drift**
- **Removable locking Push/Pull adjusting knob**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **Lubrication proportioned to airflow**
- **Pressure gauge, piping adapters and mounting bracket included**

Specifications

Port Size: 3/8 (F) NPT • 1/2 (F) NPT

Maximum Airflow at 100 PSI: 105 SCFM

Maximum Working Pressure: 150 PSI

Pressure Range: Standard: 5-125 PSI
Options: 5-30 PSI • 5-60 PSI

Working Temperature: 5 to 60 °C

Filtration: 5 micron

Drain: Semi-automatic, 8 mm O.D. tubing or automatic drain

Bowl Capacity: Filter: 45 ml
Lubricator: 130 ml

Pressure Gauge Port Size: 1/4 (F) NPT

POLYCARBONATE BOWL		
Semi-auto. Drain Product No	Auto. Drain Product No	Port Size (F) NPT
51.420	51.421	3/8
51.425	51.426	1/2

400
3/8 • 1/2

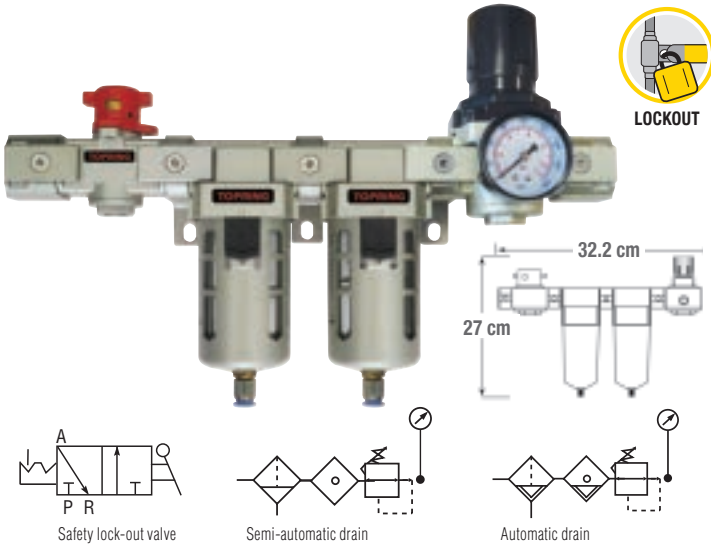
S51 AIRFLO 400

COMBINATION UNIT V+F+Fc+R

GAUGE INCLUDED

SAFETY

LOCKOUT



- **Easy removal of individual units**
- **Accurate pressure control with little drift**
- **Removable locking Push/Pull adjusting knob**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **Coalescing high performance filter that eliminates all solid particles superior to 0.01 micron and 99.99% of water and oil aerosols**
- **Includes venting safety lock-out valve for closing flow to or from AIRFLO F+Fc+R**
- **Shut off valve with 3 ports and 2 positions relieves downstream pressure when closed and can be locked in closed position.**
- **Pressure gauge, piping adapters and mounting brackets included**

Specifications

Port Size: 1/2 (F) NPT

Maximum Airflow at 100 PSI: 84 SCFM

Maximum Working Pressure: 150 PSI

Pressure Range: Standard: 5-125 PSI
Options: 5-30 PSI • 5-60 PSI

Working Temperature: 5 to 60 °C

Filtration: Filter: 5 microns • Coalescing filter: 0.01 micron

Drain: Semi-automatic, 8 mm O.D. tubing or automatic drain

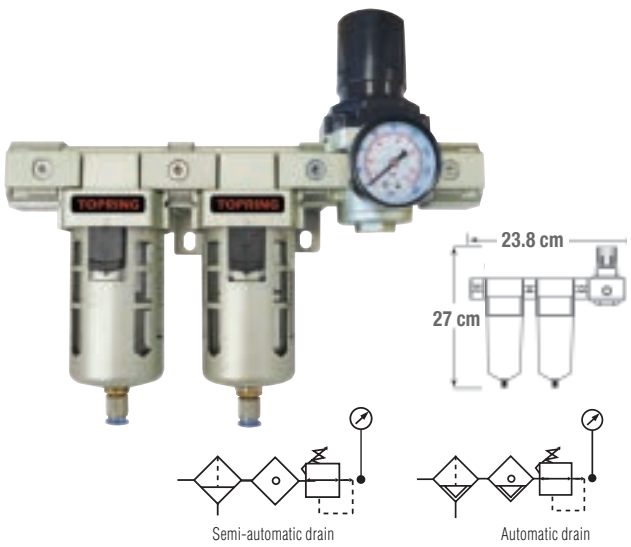
Bowl Capacity: Filter: 45 ml • Coalescing filter: 45 ml

Pressure Gauge Port Size: 1/4 (F) NPT

POLYCARBONATE BOWL		
Semi-auto. Drain Product No	**Auto. Drain Product No**	Port Size (F) NPT
51.407.01	**51.408.01**	1/2

COMBINATION UNIT F+Fc+R

GAUGE INCLUDED



- **Easy removal of individual units**
- **Accurate pressure control with little drift**
- **Removable locking Push/Pull adjusting knob**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **Coalescing high performance filter that eliminates all solid particles superior to 0.01 micron and 99.99% of water and oil aerosols**
- **Pressure gauge, piping adapters and mounting brackets included**

Specifications

Port Size: 1/2 (F) NPT

Maximum Airflow at 100 PSI: 84 SCFM

Maximum Working Pressure: 150 PSI

Pressure Range: Standard: 5-125 PSI
Options: 5-30 PSI • 5-60 PSI

Working Temperature: 5 to 60 °C

Filtration: Filter: 5 microns • Coalescing filter: 0.01 micron

Drain: Semi-automatic, 8 mm O.D. tubing or automatic drain

Bowl Capacity: Filter: 45 ml • Coalescing filter: 45 ml

Pressure Gauge Port Size: 1/4 (F) NPT

POLYCARBONATE BOWL		
Semi-auto. Drain Product No	**Auto. Drain Product No**	Port Size (F) NPT
51.407	**51.408**	1/2

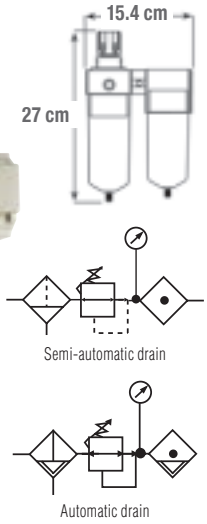
400
3/8 • 1/2

S51 AIRFLO 400

COMBINATION UNIT F/R+Fc

GAUGE INCLUDED





- **Compact design with space saving integrated filter/regulator**
- **Accurate pressure control with little drift**
- **Removable locking Push/Pull adjusting knob**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **High performance filter that eliminates all solid particles superior to 0.01 micron and 99.99% of water and oil aerosols**
- **Pressure gauge, piping adapters and mounting bracket included**

Specifications

Port Size: 1/2 (F) NPT

Maximum Airflow at 100 PSI: 84 SCFM

Maximum Working Pressure: 150 PSI

Pressure Range: Standard: 5-125 PSI
Options: 5-30 PSI • 5-60 PSI

Working Temperature: 5 to 60 °C

Filtration: Filter: 5 microns • Coalescing filter: 0.01 micron

Drain: Semi-automatic, 8 mm O.D. tubing or automatic drain

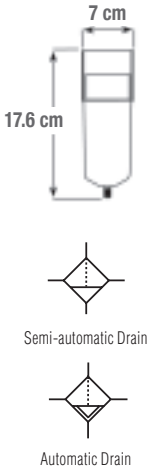
Bowl Capacity: Filter/regulator: 45 ml • Coalescing filter: 45 ml

Pressure Gauge Port Size: 1/84 (F) NPT

POLYCARBONATE BOWL		
Semi-auto. Drain Product No	**Auto. Drain Product No**	Port Size (F) NPT
51.405	**51.406**	1/2

FILTER





- **Compact size**
- **Removes water through centrifugal force**
- **Removes contaminants down to 5 microns in size**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **Mounting bracket included**

Specifications

Port Size: 3/8 (F) NPT • 1/2 (F) NPT

Maximum Airflow at 100 PSI: 141 SCFM

Maximum Working Pressure: 150 PSI

Working Temperature: 5 to 60 °C

Filtration: 5 micron

Drain: Semi-automatic, 8 mm O.D. tubing or automatic drain

Bowl Capacity: 45 ml

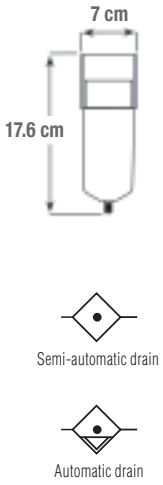
POLYCARBONATE BOWL		
Semi-auto. Drain Product No	**Auto. Drain Product No**	Port Size (F) NPT
51.460	**51.461**	3/8
51.465	**51.466**	1/2

400
3/8 • 1/2

S51 AIRFLO 400

COALESCING FILTER





- **Compact size**
- **Colaescing high performance filter that eliminates all solid particles superior to 0.01 micron and 99.99% of water and oil aerosols**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **Mounting bracket included**

Specifications

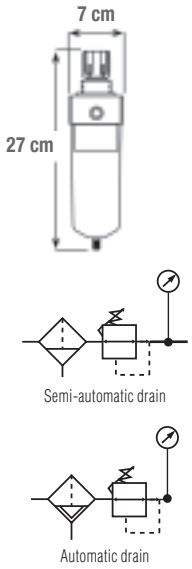
Port Size: 1/2 (F) NPT
Maximum Airflow at 100 PSI: 84 SCFM
Maximum Working Pressure: 150 PSI
Working Temperature: 5 to 60 °C
Filtration: 0.01 micron
Drain: Semi-automatic, 8 mm O.D. tubing or automatic drain
Bowl Capacity: 45 ml

POLYCARBONATE BOWL		
Semi-auto. Drain Product No	Auto. Drain Product No	Port Size (F) NPT
51.485	51.486	1/2

FILTER/REGULATOR

GAUGE INCLUDED





- **Space saving integrated filter/regulator design**
- **Removes water through centrifugal force**
- **Removes contaminants down to 5 microns in size**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **Accurate pressure control with little drift**
- **Removable locking Push/Pull adjusting knob**
- **Pressure gauge and mounting bracket included**

Specifications

Port Size: 3/8 (F) NPT • 1/2 (F) NPT
Maximum Airflow at 100 PSI: 141 SCFM
Maximum Working Pressure: 150 PSI
Pressure Range: Standard: 5-125 PSI
Options: 5-30 PSI • 5-60 PSI
Working Temperature: 5 to 60 °C
Filtration: 5 micron
Drain: Semi-automatic, 8 mm O.D. tubing or automatic drain
Bowl Capacity: 45 ml
Pressure Gauge Port Size: 1/4 (F) NPT

POLYCARBONATE BOWL		
Semi-auto. Drain Product No	Auto. Drain Product No	Port Size (F) NPT
51.450	51.451	3/8
51.455	51.456	1/2

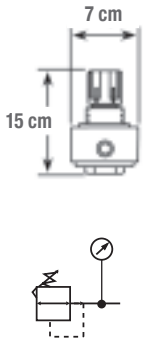
400
3/8 • 1/2

S51 AIRFLO 400

REGULATOR

GAUGE INCLUDED





- **Compact size**
- **Accurate pressure control with little drift**
- **Removable locking Push/Pull adjusting knob**
- **Pressure gauge and mounting bracket included**

Specifications

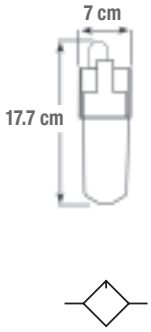
Port Size: 3/8 (F) NPT • 1/2 (F) NPT
Maximum Airflow at 100 PSI: 212 SCFM
Maximum Working Pressure: 150 PSI
Working Temperature: 5 to 60 °C
Pressure Gauge Port Size: 1/4 (F) NPT

Product No	Pressure Range PSI	Port Size (F) NPT	Replacement Gauge
51.440*	5 - 125	3/8	**55.415**
51.441	5 - 60	3/8	**55.405**
51.442	5 - 30	3/8	**55.400**
51.445*	5 - 125	1/2	**55.415**
51.446	5 - 60	1/2	**55.405**
51.447	5 - 30	1/2	**55.400**

* Popular model

LUBRICATOR





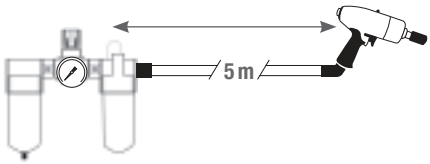
- **Compact size**
- **Lubrication proportioned to airflow**
- **Mounting bracket included**

Specifications

Port Size: 3/8 (F) NPT • 1/2 (F) NPT
Maximum Airflow at 100 PSI: 176 SCFM
Maximum Working Pressure: 150 PSI
Working Temperature: 5 to 60 °C
Bowl Capacity: 130 ml

TECH TIP

The lubricator should be installed within 5 meters of the application



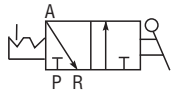
POLYCARBONATE BOWL	
Product No	Port Size (F) NPT
51.430	3/8
51.435	1/2

400
3/8 • 1/2

S51 AIRFLO 400

VENTING SAFETY LOCK-OUT VALVE





SAFETY LOCKOUT

- Shut off valve for closing flow to or from AIRFLO FRL units
- 3 port/2 position valve relieves downstream pressure when closed
- Can be locked in the closed position
- Can be mounted directly to AIRFLO components using standard AIRFLO spacers included
- Threaded ports also allow in-line use with other components
- Accepts standard single padlock or safety lock for multiple lockout
- Mounting bracket included
- Meets OSHA Standard 29 CFR Part 10



Product No	Port Size (F) NPT	Vent Port (F) NPT
51.470	3/8	3/8
51.475	1/2	3/8

Specifications

Maximum Working Pressure: 150 PSI

SOFT START VALVE



- Combines soft start and quick exhaust valve in same body
- Can be mounted directly to AIRFLO components using standard AIRFLO spacers
- Threaded ports also allow in-line use with other TOPRING components

Specifications

Port Size: 1/2 (F) NPT

Maximum Airflow at 100 PSI: 118 SCFM

Pressure Range: 44 to 145 PSI

Working Temperature: 0 to 60 °C

When the valve is installed on a compressed air system and no electrical signal is received by the pilot operator, the air is blocked. When an electrical signal is received by the pilot, the valve shifts to open. Upon opening, the airflow begins at a slow rate controlled by the needle valve. When the downstream pressure reaches approximately 50% of the supply pressure, the main valve opens allowing full flow through the valve into the system. If the pilot electrical signal or system pressure is lost, the valve will return to its initial position, venting the downstream pressure.

Product No	Port Size (F) NPT	Voltage
51.495	1/2	110 VAC
51.495.03	1/2	24 VDC

TECH TIP

Unit is to be installed downstream of lubricator if applicable

REPLACEMENT PARTS AND REPAIR KITS FOR AIRFLO 400



Product No 51.003
Auto. drain
for AIRFLO 400-450-500-600 F, Fc, F/R



Product No 51.094.05
5 micron element
for AIRFLO 400-450 F, F/R
(semi-auto drain)



Product No 51.095.05
5 micron element
for AIRFLO 400-450 F (auto drain)



Product No 51.093.05
5 micron element
for AIRFLO 400-450 F/R (auto drain)



Product No 51.107
Element 0.01 micron
for AIRFLO 400 Fc



Product No 51.810
Poly. bowl w / guard (semi- auto drain)
for AIRFLO 400 F, Fc, F/R



Product No 51.820
Poly. bowl w / guard (auto drain)
for AIRFLO 400 F, Fc, F/R



Product No 51.860
Poly. bowl w / guard
for AIRFLO 400 L



Product No 51.143
Diaphragm & piston
for AIRFLO 00 R



Product No 51.144
Diaphragm & piston
for AIRFLO 400 F/R

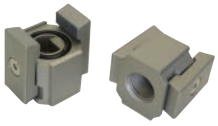


Product No 51.856
Sight dome
for AIRFLO 400-450-500-600 L



Replacement gauges
for AIRFLO 400 R, F/R

Product No 55.400	0-30 PS
Product No 55.405	0-60 PSI
Product No 55.415	0-160 PSI



Product No 51.953
Piping adapters 3/8 (F) NPT (2)
for AIRFLO 400
Product No 51.954
Piping adapters 1/2 (F) NPT (2)
for AIRFLO 400



Product No 51.040
Spacer w / L-type bracket
for AIRFLO 400



Product No 51.015
Spacer w / T-type bracket
for AIRFLO 400



Product No 51.080
Mounting bracket
for AIRFLO 400 F, Fc, L



Product No 51.060
Mounting bracket
for AIRFLO 400-500 R, F/R



Product No 51.117
Mounting nut
for AIRFLO 400-450-500 R, F/R

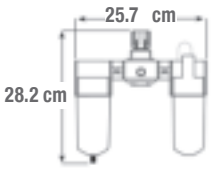
450
3/4

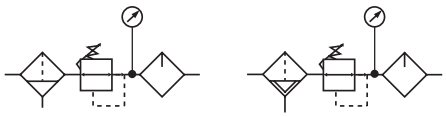
S51 AIRFLO 450

COMBINATION UNIT F+R+L

GAUGE INCLUDED







- **Accurate pressure control with little drift**
- **Removable locking Push/Pull adjusting knob**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **Lubrication proportioned to airflow**
- **Pressure gauge and mounting brackets included**

Specifications

Port Size: 3/4 (F) NPT

Maximum Airflow at 100 PSI: 159 SCFM

Maximum Working Pressure: 150 PSI

Pressure Range: Standard: 5-125 PSI
Options: 5-30 PSI • 5-60 PSI

Working Temperature: 5 to 60 °C

Filtration: 5 micron

Drain: Semi-automatic, 8 mm O.D. tubing or automatic drain

Bowl Capacity: Filter: 45 ml
Lubricator: 130 ml

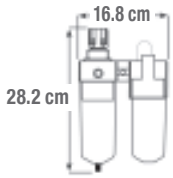
Pressure Gauge Port Size: 1/4 (F) NPT

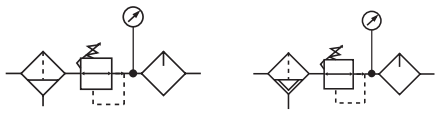
ALUMINIUM BOWL		
Semi-auto. Drain Product No	Auto. Drain Product No	Port Size (F) NPT
51.508	51.509	3/4

COMBINATION UNIT F/R + L

GAUGE INCLUDED







- **Compact design with space saving integrated F/R**
- **Accurate pressure control with little drift**
- **Removable locking Push/Pull adjusting knob**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **Lubrication proportioned to airflow**
- **Pressure gauge and mounting brackets included**

Specifications

Port Size: 3/4 (F) NPT

Maximum Airflow at 100 PSI: 105 SCFM

Maximum Working Pressure: 150 PSI

Pressure Range: Standard: 5-125 PSI
Options: 5-30 PSI • 5-60 PSI

Working Temperature: 5 to 60 °C

Filtration: 5 micron

Drain: Semi-automatic, 8 mm O.D. tubing or automatic drain

Bowl Capacity: Filter/regulator: 45 ml
Lubricator: 130 ml

Pressure Gauge Port Size: 1/4 (F) NPT

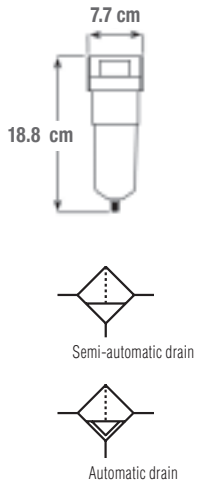
ALUMINIUM BOWL		
Semi-auto. Drain Product No	Auto. Drain Product No	Port Size (F) NPT
51.520	51.521	3/4



S51 AIRFLO 450

FILTER





- **Compact size**
- **Removes water through centrifugal force**
- **Removes contaminants down to 5 micron in size**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **Mounting bracket included**

Specifications

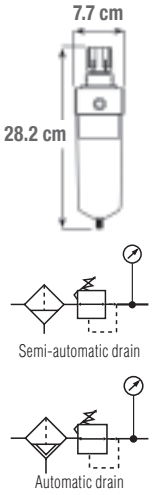
Port Size: 3/4 (F) NPT
Maximum Airflow at 100 PSI: 212 SCFM
Maximum Working Pressure: 150 PSI
Working Temperature: 5 to 60 °C
Filtration: 5 micron
Drain: Semi-automatic, 8 mm O.D. tubing or automatic drain
Bowl Capacity: 45 ml

ALUMINIUM BOWL		
Semi-auto. Drain Product No	Auto. Drain Product No	Port Size (F) NPT
51.558	51.559	3/4

FILTER/REGULATOR

GAUGE INCLUDED





- **Space saving integrated filter/regulator design**
- **Accurate pressure control with little drift**
- **Removable locking Push/Pull adjusting knob**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **Pressure gauge and mounting brackets included**

Specifications

Port Size: 3/4 (F) NPT
Maximum Airflow at 100 PSI: 159 SCFM
Maximum Working Pressure: 150 PSI
Pressure Range: Standard: 5-125 PSI
Options: 5-30 PSI • 5-60 PSI
Working Temperature: 5 to 60 °C
Filtration: 5 micron
Drain: Semi-automatic, 8 mm O.D. tubing or automatic drain
Bowl Capacity: 45 ml
Pressure Gauge Port Size: 1/4 (F) NPT

ALUMINIUM BOWL		
Semi-auto. Drain Product No	Auto. Drain Product No	Port Size (F) NPT
51.550	51.551	3/4

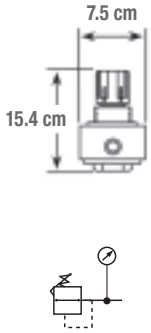
450
3/4

S51 AIRFLO 450

REGULATOR

GAUGE INCLUDED





- **Compact size**
- **Accurate pressure control with little drift**
- **Removable locking Push/Pull adjusting knob**
- **Pressure gauge and mounting bracket included**

Specifications

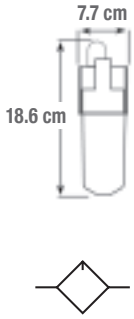
Port Size: 3/4 (F) NPT
Maximum Airflow at 100 PSI: 212 SCFM
Maximum Working Pressure: 150 PSI
Working Temperature: 5 to 60 °C
Pressure Gauge Port Size: 1/4 (F) NPT

Product No	Pressure Range PSI	Port Size (F) NPT	Replacement Gauge
51.536*	5 - 125	3/4	**55.415**
51.537	5 - 60	3/4	**55.405**
51.538	5 - 30	3/4	**55.400**

* Popular model

LUBRICATOR





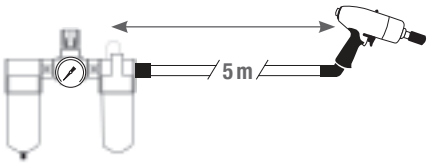
- **Compact size**
- **Lubrication proportioned to airflow**
- **Mounting bracket included**

Specifications

Port Size: 3/4 (F) NPT
Maximum Airflow at 100 PSI: 222 SCFM
Maximum Working Pressure: 150 PSI
Working Temperature: 5 to 60 °C
Bowl Capacity: 130 ml

TECH TIP

The lubricator should be installed within 5 meters of the application



ALUMINIUM BOWL	
Product No	Port Size (F) NPT
51.528	3/4

REPLACEMENT PARTS AND REPAIR KITS FOR AIRFLO 450



Product No 51.003
Auto drain
for AIRFLO 400-450-500-600 F, F/R



Product No 51.094.05
5 micron element
for AIRFLO 400-450 F, F/R
(semi-auto drain)



Product No 51.095.05
5 micron element
for AIRFLO 400-450 F
(auto drain)



Product No 51.093.05
5 micron element
for AIRFLO 400-450 F/R (auto drain)



Product No 51.825
Metal bowl (semi-auto drain)
for AIRFLO 450-500-600 F, F/R



Product No 51.830
Metal Bowl (auto drain)
for AIRFLO 450-500-600 F, F/R



Product No 51.865
Metal bowl
for AIRFLO 450-500 L



Product No 51.148
Diaphragm + piston
for AIRFLO 450 R



Product No 51.149
Diaphragm + piston
for AIRFLO 450 F/R

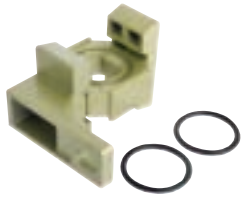


Product No 51.856
Sight dome
for AIRFLO 400-450-500-600 L



Replacement gauges
for AIRFLO 450 R, F/R

Product No 55.400	0-30 PSI
Product No 55.405	0-60 PSI
Product No 55.415	0-160



Product No 51.043
Spacer w / T-type bracket
for AIRFLO 450



Product No 51.018
Spacer w / T-type bracket
for AIRFLO 450



Product No 51.060
Mounting bracket
for AIRFLO 450 F, L



Product No 51.060
Mounting bracket
for AIRFLO 400-450-500 R, F/R



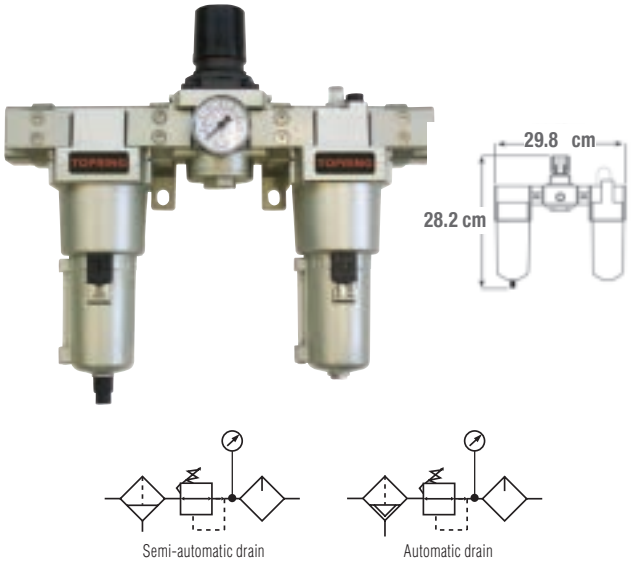
Product No 51.117
Mounting nut
for AIRFLO 450-450-500 R, F/R

500
3/4 • 1

S51 AIRFLO 500

COMBINATION UNIT F+R+L

GAUGE INCLUDED



- **Easy removal of individual units**
- **Accurate pressure control with little drift**
- **Removable locking Push/Pull adjusting knob**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **Lubrication proportioned to airflow**
- **Pressure gauge and mounting brackets included**

Specifications

Port Size: 3/4 (F) NPT • 1 (F) NPT

Maximum Airflow at 100 PSI: 247 SCFM

Maximum Working Pressure: 150 PSI

Pressure Range: Standard: 5-125 PSI
Options: 5-30 PSI • 5-60 PSI

Working Temperature: 5 to 60 °C

Filtration: 5 micron

Drain: Semi-automatic, 8 mm O.D. tubing or automatic drain

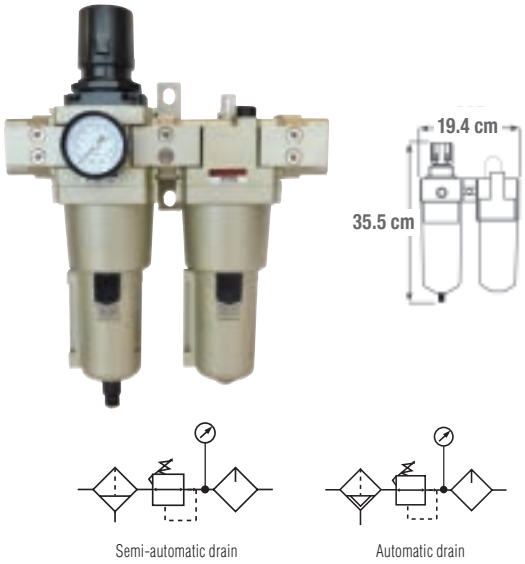
Bowl Capacity: Filter: 130 ml
Lubricator: 130 ml

Pressure Gauge Port Size: 1/4 (F) NPT

ALUMINIUM BOWL		
Semi-auto. Drain Product No	Auto. Drain Product No	Port Size (F) NPT
51.510	51.511	3/4
51.515	51.516	1

COMBINATION UNIT F/R + L

GAUGE INCLUDED



- **Compact design with space saving integrated F/R**
- **Accurate pressure control with little drift**
- **Removable locking Push/Pull adjusting knob**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **Lubrication proportioned to airflow**
- **Pressure gauge and mounting brackets included**

Specifications

Port Size: 1 (F) NPT

Maximum Airflow at 100 PSI: 194 SCFM

Maximum Working Pressure: 150 PSI

Pressure Range: Standard: 5-125 PSI
Options: 5-30 PSI • 5-60 PSI

Working Temperature: 5 to 60 °C

Filtration: 5 micron

Drain: Semi-automatic, 8 mm O.D. tubing or automatic drain

Bowl Capacity: Filter/regulator: 130 ml
Lubricator: 130 ml

Pressure Gauge Port Size: 1/4 (F) NPT

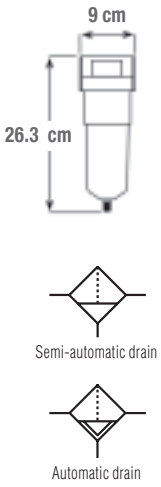
ALUMINIUM BOWL		
Semi-auto. Drain Product No	Auto. Drain Product No	Port Size (F) NPT
51.525	51.526	1

500
3/4 • 1

S51 AIRFLO 500

FILTER





- **Compact size**
- **Removes water through centrifugal force**
- **Removes contaminants down to 5 micron in size**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **Mounting bracket included**

Specifications

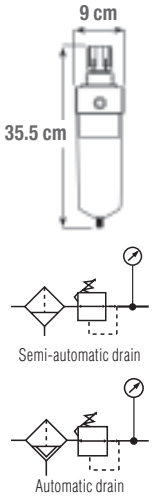
Port Size: 3/4 (F) NPT • 1 (F) NPT
Maximum Airflow at 100 PSI: 247 SCFM
Maximum Working Pressure: 150 PSI
Working Temperature: 5 to 60 °C
Filtration: 5 micron
Drain: Semi-automatic, 8 mm O.D. tubing or automatic drain
Bowl Capacity: 130 ml

ALUMINIUM BOWL		
Semi-auto. Drain Product No	Auto. Drain Product No	Port Size (F) NPT
51.560	51.561	3/4
51.565	51.566	1

FILTER/REGULATOR

GAUGE INCLUDED





- **Easy removal of individual units**
- **Accurate pressure control with little drift**
- **Removable locking Push/Pull adjusting knob**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**
- **Pressure gauge and mounting bracket included**

Specifications

Port Size: 1 (F) NPT
Maximum Airflow at 100 PSI: 194 SCFM
Maximum Working Pressure: 150 PSI
Pressure Range: Standard: 5-125 PSI
Options: 5-30 PSI • 5-60 PSI
Working Temperature: 5 to 60 °C
Filtration: 5 micron
Drain: Semi-automatic, 8 mm O.D. tubing or automatic drain
Bowl Capacity: 130 ml
Pressure Gauge Port Size: 1/4 (F) NPT

ALUMINIUM BOWL		
Semi-auto. Drain Product No	Auto. Drain Product No	Port Size (F) NPT
51.555	51.556	1

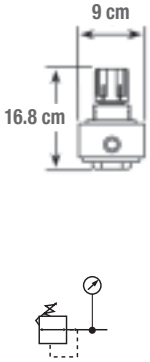
500
3/4 • 1

S51 AIRFLO 500

REGULATOR

GAUGE INCLUDED





- **Compact size**
- **Accurate pressure control with little drift**
- **Removable locking Push/Pull adjusting knob**
- **Pressure gauge and mounting bracket included**

Specifications

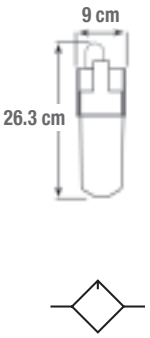
Port Size: 3/4 (F) NPT • 1 (F) NPT
Maximum Airflow at 100 PSI: 282 SCFM
Maximum Working Pressure: 150 PSI
Working Temperature: 5 to 60 °C
Pressure Gauge Port Size: 1/4 (F) NPT

Product No	Pressure Range PSI	Port Size (F) NPT	Replacement Gauge
51.540*	5 - 125	3/4	**55.415**
51.541	5 - 60	3/4	**55.405**
51.542	5 - 30	3/4	**55.400**
51.545*	5 - 125	1	**55.415**
51.546	5 - 60	1	**55.405**
51.547	5 - 30	1	**55.400**

* Popular model

LUBRICATOR





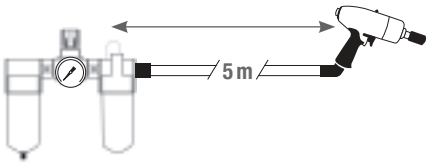
- **Compact size**
- **Lubrication proportioned to airflow**
- **Mounting bracket included**

Specifications

Port Size: 3/4 (F) NPT • 1 (F) NPT
Maximum Airflow at 100 PSI: 247 SCFM
Maximum Working Pressure: 150 PSI
Working Temperature: 5 to 60 °C
Bowl Capacity: 130 ml

TECH TIP

The lubricator should be installed within 5 meters of the application



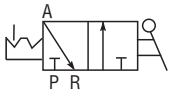
ALUMINIUM BOWL	
Product No	Port Size (F) NPT
51.530	3/4
51.535	1

500
3/4 • 1

S51 AIRFLO 500

VENTING SAFETY LOCK-OUT VALVE







- Shut off valve for closing flow to or from AIRFLO FRL units
- 3 port/2 position valve relieves downstream pressure when closed
- Can be locked in the closed position
- Can be mounted directly to AIRFLO components using standard AIRFLO spacers included
- Threaded ports also allow in-line use with other components
- Accepts standard single padlock or safety lock for multiple lockout
- Mounting bracket included
- Meets OSHA Standard 29 CFR Part 10



Product No	Port Size (F) NPT	Vent Port (F) NPT
51.575	1	3/8

Specifications

Maximum Working Pressure: 150 PSI

REPLACEMENT PARTS AND REPAIR KITS FOR AIRFLO 500



Product No 51.003
Auto drain
for AIRFLO 400-450-500-600 F, F/R



Product No 51.096.05
5 micron element
for AIRFLO 500 F, F/R



Product No 51.825
Metal bowl (semi-auto drain)
for AIRFLO 450-500-600 F, F/R



Product No 51.830
Metal Bowl (auto drain)
for AIRFLO 450-500-600 F, F/R



Product No 51.865
Metal bowl
for AIRFLO 450-500 L



Product No 51.153
Diaphragm + piston
for AIRFLO 500 R



Product No 51.154
Diaphragm + piston
for AIRFLO 500 F/R



Replacement gauges
for AIRFLO 450 R, F/R

Product No 55.400	0-30 PSI
Product No 55.405	0-60 PSI
Product No 55.415	0-160 PSI



Product No 51.856
Sight dome
for AIRFLO 400-450-500-600 L



Product No 51.955
Piping adapters 3/4 (F) NPT (2)
for AIRFLO 500

Product No 51.956
Piping adapters 1 (F) NPT (2)
for AIRFLO 500



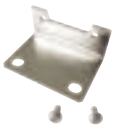
Product No 51.020
Spacer w / T-type Bracket for
AIRFLO 500



Product No 51.045
Spacer w / L-type Bracket for
AIRFLO 500



Product No 51.060
Mounting bracket
for AIRFLO
400-450-500 R, F/R



Product No 51.085
Mounting bracket

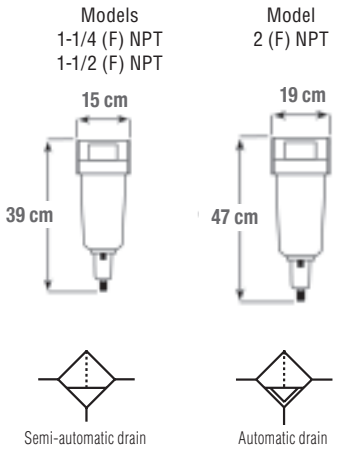


Product No 51.117
Mounting nut
for AIRFLO 450-450-500 R, F/R

S51 AIRFLO 600

FILTER





- **Removes water through centrifugal force**
- **Removes contaminants down to 5 microns in size**
- **Standard semi-automatic drain requires a simple tug of the ring to drain**

Specifications

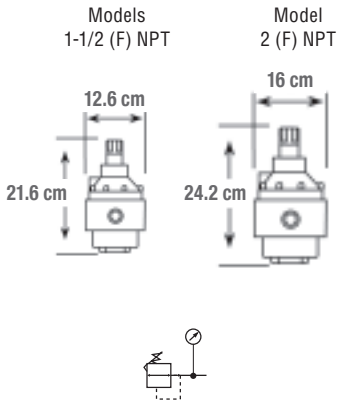
Port Size: 1-1/4 (F) NPT • 1-1/2 (F) NPT • 2 (F) NPT
Maximum Airflow at 100 PSI: 1-1/4 and 1-1/2: 405 SCFM • 2: 650 SCFM
Maximum Working Pressure: 150 PSI
Working Temperature: 5 to 60 °C
Filtration: 5 micron
Drain: Semi-automatic, 8 mm O.D. tubing or automatic drain
Bowl Capacity: 180 ml

ALUMINIUM BOWL		
Semi-auto. Drain Product No	Auto. Drain Product No	Port Size (F) NPT
51.660	51.661	1-1/4
51.662	51.663	1-1/2
51.665	51.666	2

REGULATOR

GAUGE INCLUDED





- **Accurate pressure control with little drift**
- **Internal pilot relieving type (pilot is always bleeding)**
- **Pressure gauge included**

Specifications

Port Size: 1-1/2 (F) NPT • 2 (F) NPT
Maximum Airflow at 100 PSI: 1-1/2: 635 SCFM • 2: 775 SCFM
Maximum Working Pressure: 150 PSI
Pressure Range: 5-125 PSI
Working Temperature: 5 to 60 °C
Pressure Gauge Port Size: 1/4 (F) NPT

Product No	Port Size (F) NPT	Replacement Gauge
51.642	1-1/2	55.415
51.645	2	55.415

600
1 1/4
1 1/2 • 2

S51

REPLACEMENT PARTS AND REPAIR KITS FOR AIRFLO 600



Product No 51.003
Auto drain
for AIRFLO 400-450-500-600 F, F/R



Product No 51.097.05
5 micron element
for AIRFLO 600 F 1-1/4, 1-1/2



Product No 51.099.05
5 micron element
for AIRFLO 600 F 2



Product No 51.825
Metal bowl (semi-auto drain)
for AIRFLO 450-500-600 F, F/R



Product No 51.830
Metal bowl (auto drain)
for AIRFLO 450-500-600 F, F/R



Product No 55.415
Replacement gauge 0-160 PSI
for AIRFLO 450-500-600 R, F/R

AIR TOOL OILS

SYNTHETIC OIL FOR EXTREME TEMPERATURES

Detergent-free synthetic formula, with polyalphaolefins for optimum speed and power of air tools



PREMIUM MINERAL OIL

Detergent-free mineral formula for maximum output and superior performance of air tools



For more details on oils, see Series 69, pages 492 and 493

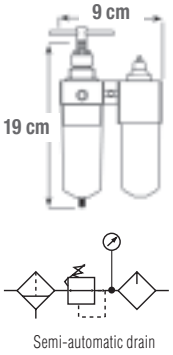
S51 AIRFLO STAINLESS STEEL

IDEAL FOR CORROSIVE ENVIRONMENTS

COMBINATION UNIT F/R+L

GAUGE INCLUDED





- **Stainless steel SUS 316 body and bowl**
- **Compact design with space saving integrated F/R**
- **Accurate pressure control**
- **Removes contaminants down to 5 microns in size**
- **Standard semi-automatic drain**
- **Lubricator refillable under pressure**
- **Pressure gauge and mounting brackets included**

Specifications

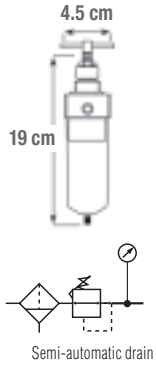
Port Size: 1/4 (F) NPT
Maximum Airflow: 65 SCFM
Maximum Working Pressure: 310 PSI
Pressure Range: 7-285 PSI
Working Temperature: -10 to 60 °C
Filtration: 5 micron
Drain: Semi-automatic
Bowl Capacity: Filter/regulator: 105 ml
Lubricator: 125 ml
Pressure Gauge Port Size: 1/8 (F) BSPP

STAINLESS STEEL		
Product No	Port Size (F) NPT	**Replacement Gauge**
51.705	1/4	**55.795**

FILTER/REGULATOR

GAUGE INCLUDED





- **Stainless steel SUS 316 body and bowl**
- **Space saving integrated filter/regulator design**
- **Removes water through centrifugal force**
- **Removes contaminants down to 5 microns in size**
- **Standard semi-automatic drain**
- **Accurate pressure control**
- **Pressure gauge and mounting bracket included**

Specifications

Port Size: 1/4 (F) NPT
Maximum Airflow: 65 SCFM
Maximum Working Pressure: 310 PSI
Pressure Range: 7-285 PSI
Working Temperature: -10 to 60 °C
Filtration: 5 micron
Drain: Semi-automatic
Bowl Capacity: 105 ml
Pressure Gauge Port Size: 1/8 (F) BSPP

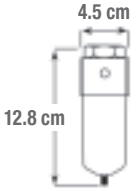
STAINLESS STEEL		
Product No	Port Size (F) NPT	**Replacement Gauge**
51.710	1/4	**55.795**

S51 AIRFLO STAINLESS STEEL

IDEAL FOR CORROSIVE ENVIRONMENT

FILTER







Semi-automatic drain

- **Stainless steel SUS 316 body and bowl**
- **Compact size**
- **Removes water through centrifugal force**
- **Removes contaminants down to 5 microns in size**
- **Standard semi-automatic drain**
- **Mounting bracket included**

Specifications

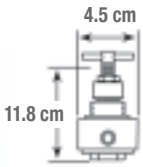
Port Size: 1/4 (F) NPT
Maximum Airflow: 67 SCFM
Maximum Working Pressure: 310 PSI
Working Temperature: -10 to 60 °C
Filtration: 5 micron
Drain: Semi-automatic
Bowl Capacity: 105 ml

STAINLESS STEEL	
Product No	Port Size (F) NPT
51.715	1/4

REGULATOR

GAUGE INCLUDED







- **Stainless steel SUS 316 body and bowl**
- **Compact size**
- **Accurate pressure control**
- **Pressure gauge and mounting bracket included**

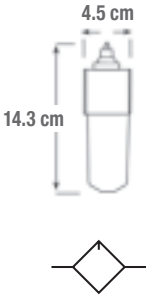
Specifications

Port Size: 1/4 (F) NPT
Maximum Airflow: 65 SCFM
Maximum Working Pressure: 310 PSI
Pressure Range: 7-285 PSI
Working Temperature: -10 to 60 °C
Pressure Gauge Port Size: 1/8 (F) BSPP

STAINLESS STEEL		
Product No	Port Size (F) NPT	**Replacement Gauge**
51.720	1/4	**55.795**

LUBRICATOR





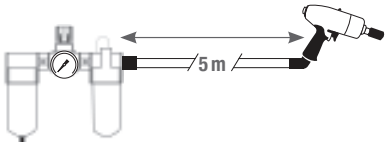
- **Stainless steel SUS 316 body and bowl**
- **Compact size**
- **Lubricator refillable under pressure**
- **Mounting bracket included**

Specifications

Port Size: 1/4 (F) NPT
Maximum Airflow: 88 SCFM
Maximum Working Pressure: 310 PSI
Working Temperature: -10 to 60 °C
Bowl Capacity: 125 ml

TECH TIP

The lubricator should be installed within 5 meters of the application



STAINLESS STEEL	
Product No	Port Size (F) NPT
51.725	1/4

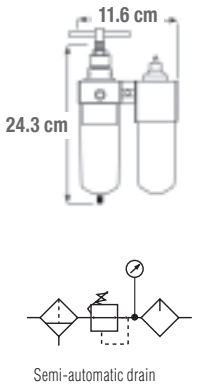
S51 AIRFLO STAINLESS STEEL

IDEAL FOR CORROSIVE ENVIRONMENTS

COMBINATION UNIT F/R+L

GAUGE INCLUDED





- **Stainless steel SUS 316 body and bowl**
- **Compact design with space saving integrated F/R**
- **Accurate pressure control**
- **Removes contaminants down to 5 microns in size**
- **Standard semi-automatic drain**
- **Lubricator refillable under pressure**
- **Pressure gauge and mounting brackets included**

Specifications

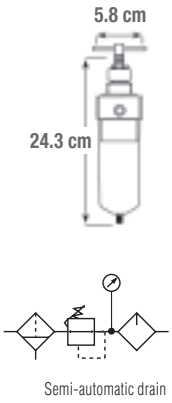
Port Size: 3/8 (F) NPT • 1/2 (F) NPT
Maximum Airflow: 3/8: 88 SCFM • 1/2: 134 SCFM
Maximum Working Pressure: 200 PSI
Pressure Range: 7-170 PSI
Working Temperature: -10 to 70 °C
Filtration: 5 micron
Drain: Semi-automatic
Bowl Capacity: Filter/regulator: 110 ml
Lubricator: 130 ml
Pressure Gauge Port Size: 1/4 (F) BSPP

STAINLESS STEEL			
Product No	Port Size (F) NPT	**Replacement Element**	**Replacement Gauge**
51.740	3/8	**51.695**	**55.798**
51.745	1/2	**51.695**	**55.798**

FILTER/REGULATOR

GAUGE INCLUDED





- **Stainless steel SUS 316 body and bowl**
- **Space saving integrated filter/regulator design**
- **Removes water through centrifugal force**
- **Removes contaminants down to 5 microns in size**
- **Standard semi-automatic drain**
- **Accurate pressure control**
- **Pressure gauge and mounting bracket included**

Specifications

Port Size: 3/8 (F) NPT • 1/2 (F) NPT
Maximum Airflow: 3/8: 88 SCFM • 1/2: 134 SCFM
Maximum Working Pressure: 200 PSI
Pressure Range: 7-170 PSI
Working Temperature: -10 to 70 °C
Filtration: 5 micron
Drain: Semi-automatic
Bowl Capacity: 110 ml
Pressure Gauge Port Size: 1/4 (F) BSPP

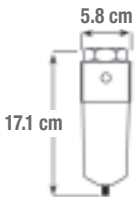
STAINLESS STEEL			
Product No	Port Size (F) NPT	**Replacement Element**	**Replacement Gauge**
51.750	3/8	**51.695**	**55.798**
51.755	1/2	**51.695**	**55.798**

S51 AIRFLO STAINLESS STEEL

IDEAL FOR CORROSIVE ENVIRONMENTS

FILTER







Semi-automatic drain

- **Stainless steel SUS 316 body and bowl**
- **Compact size**
- **Removes water through centrifugal force**
- **Removes contaminants down to 5 micron in size**
- **Standard semi-automatic drain**
- **Mounting bracket included**

Specifications

Port Size: 3/8 (F) NPT • 1/2 (F) NPT

Maximum Airflow:
3/8: 89 SCFM • 1/2: 145 SCFM

Maximum Working Pressure: 445 PSI

Working Temperature: -10 to 70 °C

Filtration: 5 micron

Drain: Semi-automatic

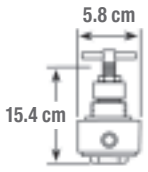
Bowl Capacity: 110 ml

STAINLESS STEEL		
Product No	Port Size (F) NPT	**Replacement Element**
51.760	3/8	**51.695**
51.765	1/2	**51.695**

REGULATOR

GAUGE INCLUDED







- **Stainless steel SUS 316 body and bowl**
- **Compact size**
- **Accurate pressure control**
- **Pressure gauge and mounting bracket included**

Specifications

Port Size: 3/8 (F) NPT • 1/2 (F) NPT

Maximum Airflow:
3/8: 79 SCFM • 1/2: 88 SCFM

Maximum Working Pressure: 200 PSI

Pressure Range: 7-285 PSI

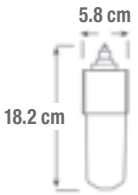
Working Temperature: -10 to 70 °C

Pressure Gauge Port Size: 1/4 (F) BSPP

STAINLESS STEEL		
Product No	Port Size (F) NPT	**Replacement Gauge**
51.770	3/8	**55.798**
51.775	1/2	**55.798**

LUBRICATOR







- **Stainless steel SUS 316 body and bowl**
- **Compact size**
- **Lubricator refillable under pressure**
- **Mounting bracket included**

Specifications

Port Size: 3/8 (F) NPT • 1/2 (F) NPT

Maximum Airflow:
3/8: 89 SCFM • 1/2: 144 SCFM

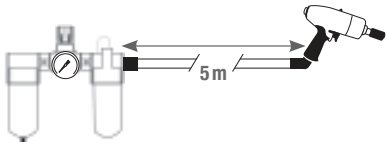
Maximum Working Pressure: 455 PSI

Working Temperature: -10 to 70 °C

Bowl Capacity: 130 ml

TECH TIP

The lubricator should be installed within 5 meters of the application



STAINLESS STEEL	
Product No	Port Size (F) NPT
51.780	3/8
51.785	1/2

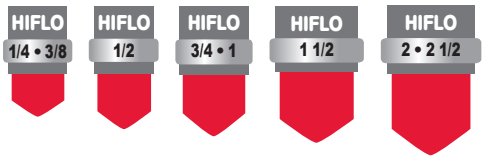
S52
HIFLO
FILTERS, REGULATORS AND LUBRICATORS





S52 HIFLO

FILTERS, REGULATORS AND LUBRICATORS



Features and benefits

- Excellent performance
- Heavy-duty for long life and reliability
- Easy maintenance
- High performance FRLs for heavy-duty applications
- High flow with low pressure drop
- Port sizes from 1/4 through 2-1/2 NPT
- Also available:
  Large capacity coalescent filters
  Remote pilot regulators
  Precision regulators
  Quick-Set dial regulators
- Tough Polycarbonate bowls with integrated bowl guards to protect against bowl rupture
- Zinc bowls with sight glass
- Drain: Manual drain or auto drain
- Superior product finish (epoxy powder paint)
- Silicone-free

Materials

Body Material: Zinc (aluminium for 2 NPT)

Bowl Type: Polycarbonate, zinc, aluminium, steel

Specifications

Maximum Working Pressure: 150 to 300 PSI

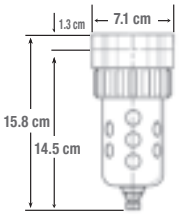
Pressure Range:
1-25 PSI, 2-60 PSI, 2-125 PSI, 5-250 PSI

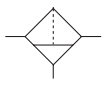
Working Temperature: 0 °C up to 80 °C

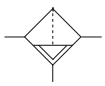
S52 HIFLO$_2$

FILTER






Manual Drain


Automatic Drain

- **High flow design**
- **Removes contaminants down to 40 micron in size**
- **Removes water through centrifugal force**
- **Automatic drain available**

Specifications

Port Size: 1/4 (F) NPT • 3/8 (F) NPT

Maximum Airflow at 100 PSI:
1/4: 53 SCFM
3/8: 80 SCFM

Maximum Working Pressure:
Polycarbonate Bowl: 150 PSI
Zinc Bowl: 250 PSI

Working Temperature:
Polycarbonate Bowl: 0 to 52 °C
Zinc Bowl: 0 to 80 °C

Filtration: Standard 40 micron / Optional 5 micron

Drain: Manual or internal automatic drain

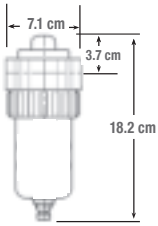
Bowl Capacity: 130.1 ml

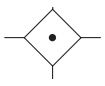
POLYCARBONATE BOWL		ZINC BOWL		
Manual Drain Product No	Auto Drain Product No	Manual Drain Product No	Auto Drain Product No	Port Size (F) NPT
52.120	52.121	52.122	52.123	1/4
52.135	52.136	52.137	52.138	3/8

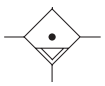
Also available with a 5 micron element: add suffix .05

COALESCING FILTER






Manual Drain


Automatic Drain

- **High flow design**
- **Highly efficient filter designed to remove all solid particles over 0.01 micron, together with 99.97% of water and oil aerosols**
- **Differential pressure pop-up indicator included**
- **Automatic drain available**

Specifications

Port Size: 1/4 (F) NPT • 3/8 (F) NPT

Maximum Airflow at 100 PSI:
1/4: 45 SCFM
3/8: 48 SCFM

Maximum Working Pressure: 250 PSI

Working Temperature: 0 to 80 °C

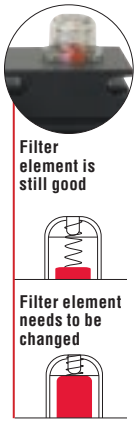
Filtration: 0.3 micron

Drain: Manual or internal automatic drain

Bowl Capacity: 130.1 ml

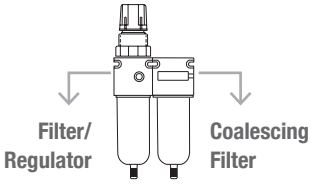
Differential Pressure Pop-Up Indicator:
Triggers at 10 PSI differential

Pop-up indicator



TECH TIP

A coalescing filter should always be preceded by a filter or a F/R. The filter will prevent the coalescing element from quickly being saturated by larger particles.



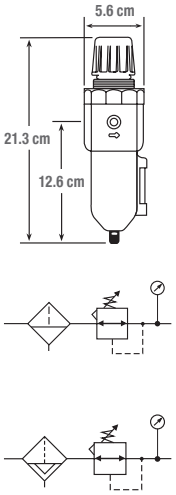
ZINC BOWL		
Manual Drain Product No	Auto Drain Product No	Port Size (F) NPT
52.922	52.923	1/4
52.932	52.933	3/8

S52 HIFLO

INTEGRATED FILTER/REGULATOR

GAUGE INCLUDED





- **High flow design**
- **Space-saving integrated filter/regulator design**
- **Push/Pull tamper-proof adjusting knob**
- **Removes contaminants down to 40 micron in size**
- **Removes water through centrifugal force**
- **Maintains constant downstream pressure**
- **Automatic drain available**

Specifications

Port Size: 1/4 (F) NPT • 3/8 (F) NPT

Maximum Airflow at 100 PSI: 70 SCFM

Maximum Working Pressure:
Manual Drain: 250 PSI
Automatic Drain: 175 PSI

Pressure Range: 0-250 PSI

Working Temperature:
Manual Drain: 4 to 66 °C
Automatic Drain: 4 to 52 °C

Filtration: Standard 40 micron / Optional 5 micron

Drain: Manual or internal automatic drain

Bowl Capacity: 118.3 ml

Pressure Gauge Port Size: 1/4 (F) NPT

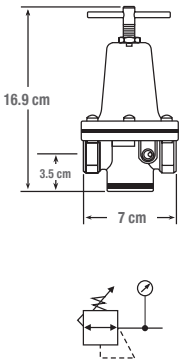
ZINC BOWL		
Manual Drain Product No	Auto Drain Product No	Port Size (F) NPT
52.227	52.228	1/4
52.232	52.233	3/8

Also available with a 5 micron element: add suffix .05

REGULATOR

GAUGE INCLUDED





- **High flow design**
- **Robust T-handle pressure adjustment**
- **Maintains constant downstream pressure**

Specifications

Port Size: 1/4 (F) NPT • 3/8 (F) NPT

Maximum Airflow at 100 PSI:
1/4: 100 SCFM • 3/8: 110 SCFM

Maximum Working Pressure: 300 PSI

Working Temperature: 4 to 52 °C

Pressure Gauge Port Size: 1/4 (F) NPT



A QUICK-SET Dial Regulator is a better option when frequent pressure adjustments are required.
(see page 232)

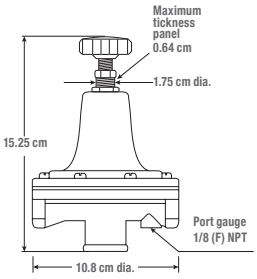
Product No	Pressure Range PSI	Port Size (F) NPT	Replacement Gauge
52.329 *	5-250	1/4	55.425
52.325	2-125	1/4	55.415
52.328	2-60	1/4	55.410
52.327	1-25	1/4	55.400
52.331 *	5-250	3/8	55.425
52.330	2-125	3/8	55.415
52.338	2-60	3/8	55.410
52.337	1-25	3/8	55.400

* Popular model

S52 HIFLO

PRECISION REGULATORS









Regulator with digital pressure gauge

Features and benefits

- **High flow performance featuring rugged design for the most demanding applications**
- **High sensitivity under varying conditions**
- **Diaphragm operated with large surface area and aspirator for quick and precise regulation**
- **Panel mount version for more mounting versatility**
- **Regulator with digital pressure gauge available**

Applications

For industrial applications: pneumatic systems, printing equipment, air measurement systems, automation equipment and machine tools

Specifications

Port Size: 1/4 (F) NPT • 3/8 (F) NPT
Maximum Airflow at 100 PSI: 40 SCFM
Maximum Working Pressure: 300 PSI
Working Temperature: 4 °C to 52 °C
Precision: ±0.25 PSI
Gauge Port Size: 1/8 (F) NPT

Without pressure gauge	With pressure gauge	Pressure Range PSI	Port Size (F) NPT
Product No	Product No		
52.315	52.315.01	0-20	1/4
52.316	52.316.01	0-8	1/4
52.317	52.317.01	0-20	3/8
52.318	52.318.01	0-8	3/8

Who needs precision regulators?

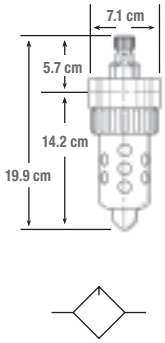
Design level applications :
When designing a compressed air distribution system, it is important to determine not only the airflow that the application will require but also the acceptable level of pressure variation. Some compressed air applications cannot tolerate fluctuations in pressure.

Problem solving devices for existing applications:
Sometimes an existing compressed air application does not meet the user's needs with regards to pressure control and/or stability.

S52 HIFLO$_2$

LUBRICATOR





- **High flow design**
- **Lubrication automatically proportioned to airflow, eliminating readjustment**
- **Precision needle valve assures repeatable oil delivery and provides simple adjustment of delivery rates**
- **Generates oil particles of 5 microns or smaller downstream**
- **Micro-mist type lubricator**

Specifications

Port Size: 1/4 (F) NPT • 3/8 (F) NPT

Maximum Airflow at 100 PSI: 1/4: 40 SCFM • 3/8: 60 SCFM

Maximum Working Pressure:
Polycarbonate Bowl: 150 PSI • Zinc Bowl: 250 PSI

Temperature Range:
Polycarbonate Bowl: 0 to 52 °C • Zinc Bowl: 0 to 80 °C

Bowl Capacity: 76.9 ml

TECH TIP

Lubrication up to 30 meters

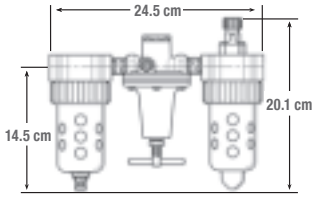
HIFLO$_2$ lubricators are designed to lubricate a tool through a hose of up to 30 meters (100 feet length) from the outlet of the lubricator. Standard lubricators lubricate up to 5 meters from the outlet.

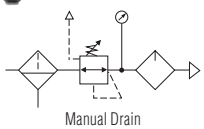
POLYCARBONATE BOWL Product No	ZINC BOWL Product No	Port Size (F) NPT
52.420	52.422	1/4
52.435	52.437	3/8

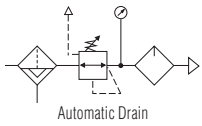
COMBINATION UNIT F+R+L

GAUGE INCLUDED









- **High flow design**
- **Removes contaminants down to 40 microns in size**
- **Removes water through centrifugal force**
- **Maintains constant downstream pressure**
- **Robust T-handle pressure adjustment**
- **Lubrication automatically proportioned to airflow, eliminating readjustment**
- **Automatic drain available**

Specifications

Port Size: 1/4 (F) NPT • 3/8 (F) NPT

Maximum Airflow at 100 PSI: 1/4: 40 SCFM • 3/8: 60 SCFM

Maximum Working Pressure:
Polycarbonate Bowl: 150 PSI • Zinc Bowl: 250 PSI

Pressure Range:
Standard: 5-250 PSI / Optional: 1-25 PSI • 2-60 PSI • 2-125 PSI

Working Temperature: 4 to 52 °C

Filtration: Standard 40 micron / Optional 5 micron

Drain: Manual or internal automatic drain

Bowl Capacity: Filter: 130.1 ml • Lubricator: 76.9 ml

Pressure Gauge Port Size: 1/4 (F) NPT

POLYCARBONATE BOWL		ZINC BOWL		Port Size (F) NPT
Manual Drain Product No	Auto Drain Product No	Manual Drain Product No	Auto Drain Product No	
52.520	52.521	52.522	52.523	1/4
52.535	52.536	52.537	52.538	3/8

Also available with a 5 micron element: add suffix .05

S52 REPLACEMENT PARTS AND REPAIR KITS FOR HIFLO AND HIFLO$_2$ 1/4 • 3/8



Product No 52.003
Auto drain 250 PSI
F, Fc 1/4-3/8-1/2 HIFLO$_2$



Product No 50.003
Auto drain 175 PSI
F/R HIFLO



Product No 52.042
Element 40 microns
F 1/4-3/8-1/2 HIFLO$_2$



Product No 52.043
Element 5 microns
F 1/4-3/8-1/2 HIFLO$_2$



Product No 52.030
Element 40 microns
F/R HIFLO



Product No 52.031
Element 5 microns
F/R HIFLO



Product No 52.076
Element 0.3 micron
Fc 1/4-3/8-1/2 HIFLO$_2$



Product No 52.810
Polycarbonate Bowl
(manual drain)
F, Fc 1/4-3/8-1/2 HIFLO$_2$



Product No 52.811
Polycarbonate Bowl
(auto drain)
F, Fc 1/4-3/8-1/2 HIFLO$_2$



Product No 52.812
Zinc Bowl + sight glass
(manual drain)
F, Fc, 1/4-3/8-1/2 HIFLO$_2$



Product No 52.813
Zinc Bowl + sight glass
(auto drain)
F, Fc, 1/4-3/8-1/2 HIFLO$_2$



Product No 52.814
Polycarbonate Bowl
L 1/4-3/8-1/2 HIFLO$_2$



Product No 52.815
Zinc Bowl + sight glass
L 1/4-3/8-1/2 HIFLO$_2$



Product No 52.050
Sight glass assembly
F, Fc, L 1/4-3/8-1/2 HIFLO$_2$



Product No 52.046
Deflector and retainer
F 1/4-3/8-1/2 HIFLO$_2$



Product No 52.011
Differential pressure pop-up indicator
Fc 1/4-3/8-1/2 HIFLO$_2$



Product No 52.068
Sight dome
L 1/4-3/8-1/2 HIFLO$_2$



Product No 52.032
Relieving diaphragm and valve
R 1/4-3/8 HIFLO



Product No 52.033
Relieving diaphragm and valve
F/R HIFLO



Replacement gauge
R, F/R HIFLO

Product No 55.400	0-30 PSI
Product No 55.410	0-100 PSI
Product No 55.415	0-160 PSI
Product No 55.425	0-300 PSI



Product No 52.724
Wall bracket
F, Fc, L 1/4-3/8-1/2 HIFLO$_2$



Product No 52.730
Wall bracket
R 1/4-3/8 HIFLO



Product No 50.742
Panel bracket
F/R HIFLO

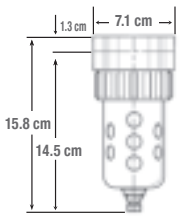


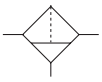
Product No 50.745
Mounting nut
F/R HIFLO

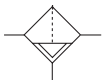
S52 HIFLO$_2$

FILTER






Manual Drain


Automatic Drain

- **High flow design**
- **Removes contaminants down to 40 micron in size**
- **Removes water through centrifugal force**
- **Automatic drain available**

Specifications

Port Size: 1/2 (F) NPT

Maximum Airflow at 100 PSI: 85 SCFM

Maximum Working Pressure:
Polycarbonate Bowl: 150 PSI
Zinc Bowl: 250 PSI

Working Temperature:
Polycarbonate Bowl: 0 to 52 °C
Zinc Bowl: 0 to 80 °C

Filtration: Standard 40 micron / Optional 5 micron

Drain: Manual or internal automatic drain

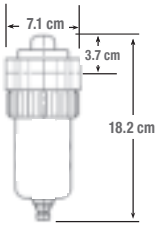
Bowl Capacity: 130.1 ml

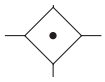
POLYCARBONATE BOWL		ZINC BOWL		
Manual Drain Product No	Auto Drain Product No	Manual Drain Product No	Auto Drain Product No	Port Size (F) NPT
52.145	52.146	52.147	52.148	1/2

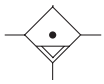
Also available with a 5 micron element: add suffix .05

COALESCING FILTER






Manual Drain


Automatic Drain

- **High flow design**
- **Highly efficient filter designed to remove all solid particles over 0.01 micron, together with 99.97% of water and oil aerosols**
- **Differential pressure pop-up indicator included**
- **Automatic drain available**

Specifications

Port Size: 1/2 (F) NPT

Maximum Airflow at 100 PSI: 65 SCFM

Maximum Working Pressure: 250 PSI

Working Temperature: 0 to 80 °C

Filtration:0.3 micron

Drain: Manual or internal automatic drain

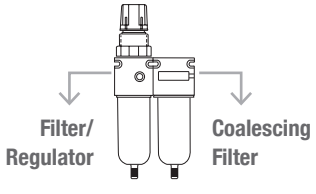
Bowl Capacity: 130.1 ml

Differential Pressure Pop-Up Indicator:
Triggers at 10 PSI differential



TECH TIP

A coalescing filter should always be preceded by a filter or a F/R. The filter will prevent the coalescing element from quickly being saturated by larger particles.



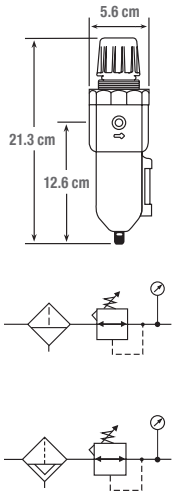
ZINC BOWL		
Manual Drain Product No	Auto Drain Product No	Port Size (F) NPT
52.942	52.943	1/2

HIFLO 1/2

S52 HIFLO

INTEGRATED FILTER/REGULATOR
GAUGE INCLUDED





- **High flow design**
- **Space-saving integrated filter/regulator design**
- **Push/Pull tamper-proof adjusting knob**
- **Removes contaminants down to 40 micron in size**
- **Removes water through centrifugal force**
- **Maintains constant downstream pressure**
- **Automatic drain available**

Specifications

Port Size: 1/2 (F) NPT

Maximum Airflow at 100 PSI: 80 SCFM

Maximum Working Pressure:
Manual Drain: 250 PSI
Automatic Drain: 175 PSI

Pressure Range: 0-250 PSI

Working Temperature:
Manual Drain: 4 to 66 °C
Automatic Drain: 4 to 52 °C

Filtration: Standard 40 micron / Optional 5 micron

Drain: Manual or internal automatic drain

Bowl Capacity: 118.3 ml

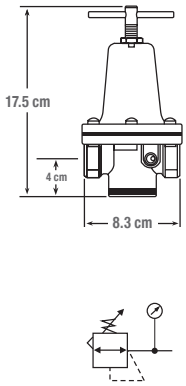
Pressure Gauge Port Size: 1/4 (F) NPT

ZINC BOWL		
Manual Drain Product No	**Auto Drain Product No**	Port Size (F) NPT
52.242	**52.243**	1/2

Also available with a 5 micron element: add suffix .05

REGULATOR
GAUGE INCLUDED





- **High flow design**
- **Robust T-handle pressure adjustment**
- **Maintains constant downstream pressure**

Specifications

Port Size: 1/2 (F) NPT

Maximum Airflow at 100 PSI: 150 SCFM

Maximum Working Pressure: 300 PSI

Working Temperature: 4 to 52 °C

Pressure Gauge Port Size: 1/4 (F) NPT



A QUICK-SET Dial Regulator is a better option when frequent pressure adjustments are required.
(see page 232)

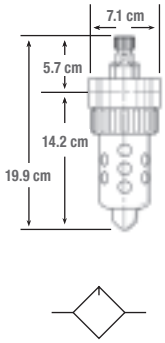
Product No	Pressure Range PSI	Port Size (F) NPT	Replacement Gauge
52.345 *	5-250	1/2	**55.425**
52.340	2-125	1/2	**55.415**
52.343	1-25	1/2	**55.400**
52.344	2-60	1/2	**55.410**

* Popular model

S52 HIFLO

LUBRICATOR





- **High flow design**
- **Lubrication automatically proportioned to airflow, eliminating readjustment**
- **Precision needle valve assures repeatable oil delivery and provides simple adjustment of delivery rates**
- **Generates oil particles of 5 microns or smaller downstream**
- **Micro-mist type lubricator**

Specifications

Port Size: 1/2 (F) NPT

Maximum Airflow at 100 PSI: 90 SCFM

Maximum Working Pressure:
Polycarbonate Bowl: 150 PSI • Zinc Bowl: 250 PSI

Working Temperature:
Polycarbonate Bowl: 0 to 52 °C
Zinc Bowl: 0 to 80 °C

Bowl Capacity: 76.9 ml

TECH TIP

Lubrication up to 30 meters

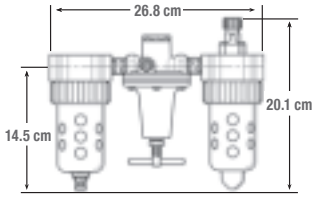
HIFLO$_2$ lubricators are designed to lubricate a tool through a hose of up to 30 meters (100 feet length) from the outlet of the lubricator. Standard lubricators lubricate up to 5 meters from the outlet.

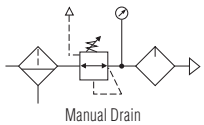
POLYCARBONATE BOWL Product No	ZINC BOWL Product No	Port Size (F) NPT
52.445	52.447	1/2

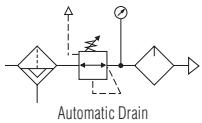
COMBINATION UNIT F+R+L

GAUGE INCLUDED






Manual Drain


Automatic Drain

- **High flow design**
- **Removes contaminants down to 40 microns in size**
- **Removes water through centrifugal force**
- **Maintains constant downstream pressure**
- **Robust T-handle pressure adjustment**
- **Lubrication automatically proportioned to airflow, eliminating readjustment**
- **Automatic drain available**

Specifications

Port Size: 1/2 (F) NPT

Maximum Airflow at 100 PSI: 85 SCFM

Maximum Working Pressure:
Polycarbonate Bowl: 150 PSI • Zinc Bowl: 250 PSI

Pressure Range:
Standard: 5-250 PSI / Optional: 1-25 PSI • 2-60 PSI • 2-125 PSI

Working Temperature: 4 to 52 °C

Filtration: Standard 40 micron / Optional 5 micron

Drain: Manual or internal automatic drain

Bowl Capacity: Filter: 130.1 ml • Lubricator: 76.9 ml

Pressure Gauge Port Size: 1/4 (F) NPT

POLYCARBONATE BOWL		ZINC BOWL		Port Size (F) NPT
Manual Drain Product No	Auto Drain Product No	Manual Drain Product No	Auto Drain Product No	
52.545	52.546	52.547	52.548	1/2

Also available with a 5 micron element: add suffix .05

REPLACEMENT PARTS AND REPAIR KITS FOR HIFLO AND HIFLO$_2$ 1/2



Product No 52.003
Auto drain 250 PSI
F, Fc 1/4-3/8-1/2 HIFLO$_2$



Product No 50.003
Auto drain 175 PSI
F/R HIFLO



Product No 52.042
Element 40 microns
F 1/4-3/8-1/2 HIFLO$_2$



Product No 52.043
Element 5 microns
F 1/4-3/8-1/2 HIFLO$_2$



Product No 52.030
Element 40 microns
F/R HIFLO



Product No 52.031
Element 5 microns
F/R HIFLO



Product No 52.076
Element 0.3 micron
Fc 1/4-3/8-1/2 HIFLO$_2$



Product No 52.810
Polycarbonate Bowl
(manual drain)
F, Fc 1/4-3/8-1/2 HIFLO$_2$



Product No 52.811
Polycarbonate Bowl
(auto drain)
F, Fc 1/4-3/8-1/2 HIFLO$_2$



Product No 52.812
Zinc Bowl + sight glass
(manual drain)
F, Fc, 1/4-3/8-1/2 HIFLO$_2$



Product No 52.813
Zinc Bowl + sight glass
(auto drain)
F, Fc, 1/4-3/8-1/2 HIFLO$_2$



Product No 52.814
Polycarbonate Bowl
L 1/4-3/8-1/2 HIFLO$_2$



Product No 52.815
Zinc Bowl + sight glass
L 1/4-3/8-1/2 HIFLO$_2$



Product No 52.050
Sight glass assembly
F, Fc, L 1/4-3/8-1/2 HIFLO$_2$



Product No 52.046
Deflector and retainer
F 1/4-3/8-1/2 HIFLO$_2$



Product No 52.011
Differential pressure pop-up indicator
Fc 1/4-3/8-1/2 HIFLO$_2$



Product No 52.068
Sight dome
L 1/4-3/8-1/2 HIFLO$_2$



Product No 52.014
Relieving diaphragm
and valve
R 1/2 HIFLO



Product No 52.015
Relieving diaphragm
and valve
R 1/2 HIFLO



Replacement gauge
R, F/R HIFLO

Product No 55.400	0-30 PSI
Product No 55.410	0-100 PSI
Product No 55.415	0-160 PSI
Product No 55.425	0-300 PSI



Product No 52.724
Wall bracket
F, Fc, L 1/4-3/8-1/2 HIFLO$_2$



Product No 54.062
Wall bracket
R 1/2 HIFLO



Product No 50.742
Panel bracket
F/R HIFLO

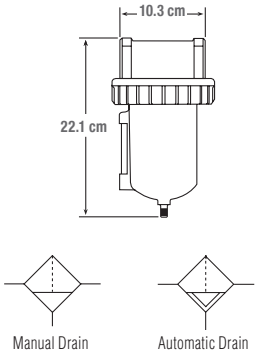


Product No 50.745
Mounting nut
F/R HIFLO

S52 HIFLO

FILTER





- **High flow design**
- **Removes contaminants down to 40 microns in size**
- **Removes water through centrifugal force**
- **Automatic drain available**

Specifications

Port Size: 3/4 (F) NPT • 1 (F) NPT

Maximum Airflow at 100 PSI:
3/4: 270 SCFM • 1: 300 SCFM

Maximum Working Pressure:
Manual Drain: 250 PSI
Automatic Drain: 175 PSI

Working Temperature:
Manual Drain: 4 to 66 °C
Automatic Drain: 4 to 52 °C

Filtration: Standard 40 micron / Optional 5 micron

Drain: Manual or automatic

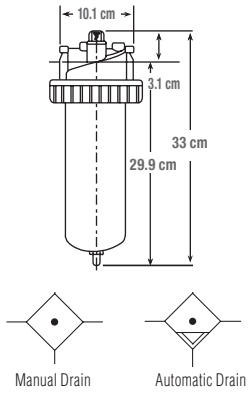
Bowl Capacity: 0.5 L

ZINC BOWL		
Manual Drain Product No	Auto Drain Product No	Port Size (F) NPT
52.150	52.151	3/4
52.160	52.161	1

Also available with a 5 micron element: add suffix .05

COALESCING FILTER





- **High flow design**
- **Highly efficient filter designed to remove all solid particles over 0.03 micron, together with 99.97% of water and oil aerosols**
- **Differential pressure pop-up indicator included**
- **Automatic drain available**

Specifications

Port Size: 3/4 (F) NPT • 1 (F) NPT

Maximum Airflow at 100 PSI:
95 SCFM • 170 SCFM for 52.968

Maximum Working Pressure:
Manual Drain: 300 PSI • Automatic Drain: 250 PSI

Working Temperature:
Manual Drain: 4 to 66 °C
Automatic Drain: 4 to 52 °C

Filtration: 0.3 micron

Drain: Manual or internal automatic drain

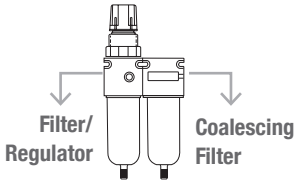
Bowl Capacity: Standard 1 L / Optional 3 L

Differential Pressure Pop-Up Indicator:
Triggers at 10 PSI differential



TECH TIP

A coalescing filter should always be preceded by a filter or a F/R. The filter will prevent the coalescing element from quickly being saturated by larger particles.



ALUMINIUM BOWL		
Manual Drain Product No	Auto Drain Product No	Port Size (F) NPT
52.959	52.960	3/4
52.968*	-	1
52.969	52.970	1

*Also available with a 5 micron element: add suffix .05

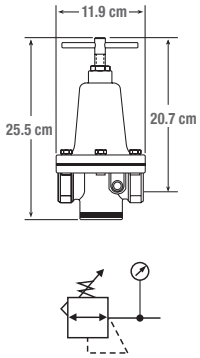
HIFLO 3/4 • 1

S52 HIFLO

REGULATOR

GAUGE INCLUDED





- **High flow design**
- **Robust T-handle pressure adjustment**
- **Maintains constant downstream pressure**

Specifications

Port Size: 3/4 (F) NPT • 1 (F) NPT

Maximum Airflow at 100 PSI:
3/4: 300 SCFM • 1: 400 SCFM

Maximum Working Pressure: 300 PSI

Working Temperature: 4 to 52 °C

Pressure Gauge Port Size: 1/4 (F) NPT



A QUICK-SET Dial Regulator is a better option when frequent pressure adjustments are required (see page 232)

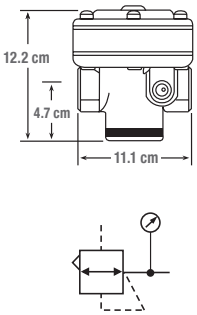
Product No	Pressure Range PSI	Port Size (F) NPT	Replacement Gauge
52.350*	2-125	3/4	**55.415**
52.355	5-250	3/4	**55.425**
52.360*	2-125	1	**55.415**
52.361	5-250	1	**55.425**

* Popular model

PILOT-OPERATED REGULATOR

GAUGE INCLUDED





- **Adapted for control by a remote or small distant pilot regulator. Ideal for maximum capacity requirements in applications where units are not easily accessible**
- **High flow performance featuring rugged design for the most demanding applications**
- **Ideal for installations calling for constant pressure with wide variation in flow**
- **Diaphragm operated design with balanced poppet and constant bleed pilot for quick and accurate regulation**
- **Ideal for control by a remote or small distant regulator (i.e: 52.325) (see page 232)**

Specifications

Port Size: 3/4 (F) NPT • 1 (F) NPT

Maximum Airflow at 100 PSI: 300 SCFM

Maximum Working Pressure: 300 PSI

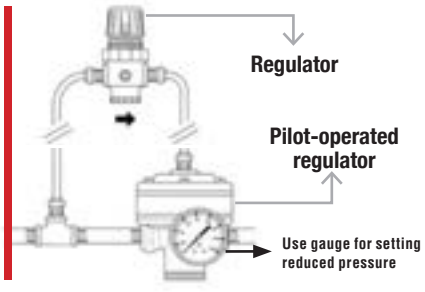
Pressure Range: ± 7 PSI of supply pressure

Working Temperature: 4 to 52 °C

Pilot Port Size: 1/4 (F) NPT

Pressure Gauge Port Size: 1/4 (F) NPT

Must be used with a regulator: 52.325



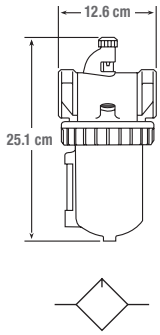
Product No	Port Size (F) NPT
52.270	3/4
52.275	1

HIFLO 3/4 • 1

S52 HIFLO

LUBRICATOR





- **High flow design**
- **Fillable under pressure through the fill port - no need to depressurize or remove bowl**
- **Proportional oil delivery over a wide range of airflow**
- **Precision needle valve assures repeatable oil delivery and provides simple adjustment of delivery rates**

Specifications

Port Size: 3/4 (F) NPT • 1 (F) NPT

Maximum Airflow at 100 PSI: 3/4: 325 SCFM • 1: 350 SCFM

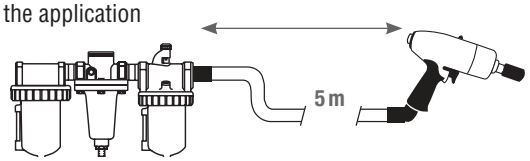
Maximum Working Pressure: 250 PSI

Working Temperature: 4 to 66 °C

Bowl Capacity: 0.5 L

TECH TIP

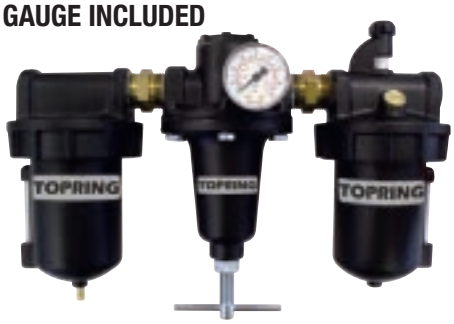
The lubricator should be installed within 5 meters of the application

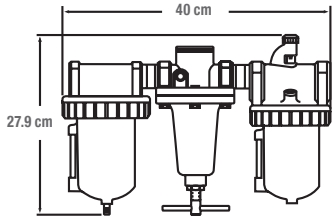


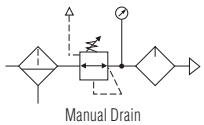
ZINC BOWL Product No	Port Size (F) NPT
52.450	3/4
52.460	1

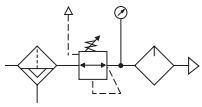
COMBINATION UNIT F+R+L

GAUGE INCLUDED






Manual Drain


Automatic Drain

- **High flow design**
- **Removes contaminants down to 40 microns in size**
- **Removes water through centrifugal force**
- **Maintains constant downstream pressure**
- **Robust T-handle pressure adjustment**
- **Lubrication automatically proportioned to airflow, eliminating readjustment**
- **Precision needle valve assures repeatable oil delivery and provides simple adjustment of delivery rates**
- **Automatic drain available**

Specifications

Port Size: 3/4 (F) NPT • 1 (F) NPT

Maximum Airflow at 100 PSI: 3/4: 270 SCFM • 1: 300 SCFM

Maximum Working Pressure:
Manual Drain: 250 PSI
Automatic Drain: 175 PSI

Pressure Range: 2-125 PSI / Optional 5-250 PSI

Working Temperature: 4 to 52 °C

Filtration: Standard 40 micron / Optional 5 micron

Drain: Manual or internal automatic drain

Bowl Capacity: 0.5 L

Pressure Gauge Port Size: 1/4 (F) NPT

ZINC BOWL		Port Size (F) NPT
Manual Drain Product No	Auto Drain Product No	
52.550	52.551	3/4
52.560	52.561	1

Also available with a 5 micron element: add suffix .05

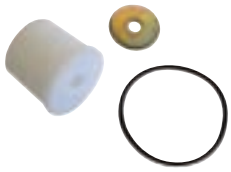
REPLACEMENT PARTS AND REPAIR KITS FOR HIFLO 3/4 • 1



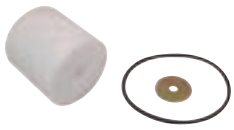
Product No 50.003
Auto drain 175 PSI
F, F/R HIFLO



Product No 50.006
Auto drain 250 PSI
Fc HIFLO



Product No 50.042
Element 40 microns
F 3/4 to 1-1/2 HIFLO



Product No 50.043
Element 5 microns
F 3/4 to 1-1/2 HIFLO



Product No 50.085
Element 0.3 micron
Fc 3/4-1 HIFLO



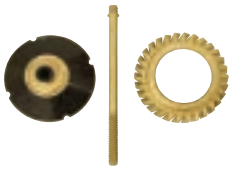
Product No 50.813
Zinc Bowl + sight glass (manual drain)
F, L 3/4 to 2 HIFLO



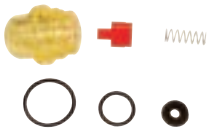
Product No 50.850
Zinc Bowl + sight glass (auto drain)
F 3/4 to 2 HIFLO



Product No 50.049
Sight glass assembly
F 3/4 to 2 HIFLO



Product No 50.048
Deflector and retainer
F 3/4-1 HIFLO



Product No 50.011
Differential pressure pop-up indicator
Fc 1/4 to 1 HIFLO



Product No 50.069
Sight dome
L 1/4 to 1-1/2 HIFLO



Product No 50.066
Needle valve assembly
L HIFLO



Product No 50.054
Relieving diaphragm and valve
R 3/4-1 HIFLO



Product No 50.057
Relieving diaphragm and valve
R pilot 3/4-1 HIFLO



Replacement gauge
R, R pilot HIFLO

Product No 55.415 0-160 PSI
Product No 55.425 0-300 PSI



Product No 50.752
Wall bracket
F, Fc, L 1 HIFLO



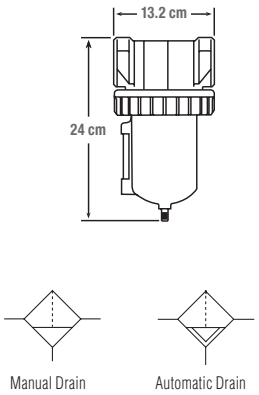
Product No 50.762
Wall bracket
R 3/4 to 1-1/2 HIFLO

HIFLO 1 1/2

S52 HIFLO

FILTER





- **High flow design**
- **Removes contaminants down to 40 microns in size**
- **Removes water through centrifugal force**
- **Automatic drain available**

Specifications

Port Size: 1-1/2 (F) NPT

Maximum Airflow at 100 PSI: 450 SCFM

Maximum Working Pressure:
Manual Drain: 250 PSI
Automatic Drain: 175 PSI

Working Temperature:
Manual Drain: 4 to 66 °C
Automatic Drain: 4 to 52 °C

Filtration: Standard 40 micron / Optional 5 micron

Drain: Manual or internal automatic drain

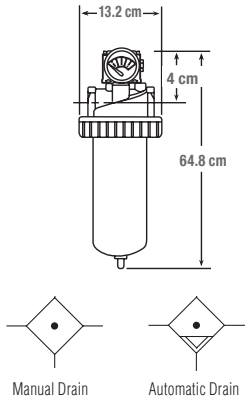
Bowl Capacity: 0.5 L

ZINC BOWL		
Manual Drain Product No	Auto Drain Product No	Port Size (F) NPT
52.170	52.171	1-1/2

Also available with a 5 micron element: add suffix .05

COALESCING FILTER





- **Differential pressure gauge with easy-to-read dial face indicates pressure drop and need for filter element replacement**
- **Low profile allows easy filter installation**
- **High quality construction for durability**
- **Automatic drain available**

Specifications

Port Size: 1-1/2 (F) NPT

Maximum Airflow at 100 PSI: 250 SCFM

Maximum Working Pressure:
Manual Drain: 300 PSI
Automatic Drain: 250 PSI

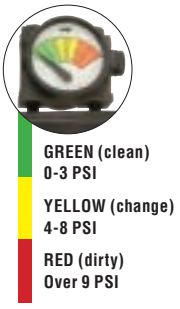
Temperature Range:
Manual Drain: 4 to 66 °C
Automatic Drain: 4 to 52 °C

Filtration: 0.3 micron

Drain: Manual or internal automatic drain

Bowl Capacity: 3 L

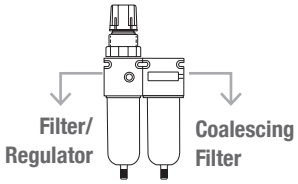
Three-color indicator



ZINC BOWL		
Manual Drain Product No	Auto Drain Product No	Port Size (F) NPT
52.975	52.976	1-1/2

TECH TIP

A coalescing filter should always be preceded by a filter or a F/R. The filter will prevent the coalescing element from quickly being saturated by larger particles.

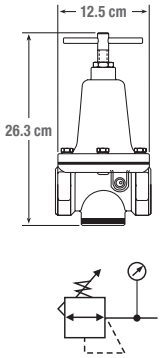


HIFLO
1 1/2

S52 HIFLO

REGULATOR
GAUGE INCLUDED





- **High flow design**
- **Robust T-handle pressure adjustment**
- **Maintains constant downstream pressure**

Specifications

Port Size: 1-1/2 (F) NPT
Maximum Airflow at 100 PSI: 500 SCFM
Maximum Working Pressure: 300 PSI
Working Temperature: 4 to 52 °C
Pressure Gauge Port Size: 1/4 (F) NPT



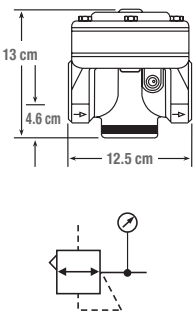
A QUICK-SET Dial Regulator is a better option when frequent pressure adjustments are required.
(see page 232)

Product No	Pressure Range PSI	Port Size (F) NPT
52.370 *	2-125	1-1/2
52.371	5-250	1-1/2

* Popular model

PILOT-OPERATED REGULATOR
GAUGE INCLUDED

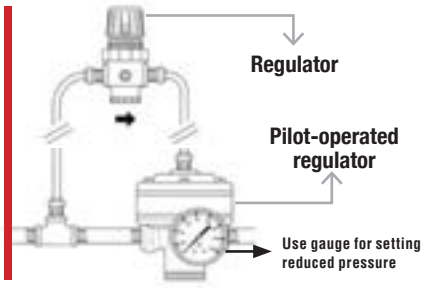




- **Adapted for control by a remote or small distant pilot regulator. Ideal for maximum capacity requirements in applications where units are not easily accessible**
- **High flow performance featuring rugged design for the most demanding applications**
- **Ideal for installations calling for constant pressure with wide variation in flow**
- **Diaphragm operated design with balanced poppet and constant bleed pilot for quick and accurate regulation**
- **Ideal for control by a remote or small distant regulator (i.e: 52.325) (see page 232)**

Specifications

Port Size: 1-1/2 (F) NPT
Maximum Airflow at 100 PSI: 500 SCFM
Maximum Working Pressure: 300 PSI
Pressure Range: ±7 PSI of supply pressure
Working Temperature: 4 to 52 °C
Pilot Port Size: 1/4 (F) NPT
Pressure Gauge Port Size: 1/4 (F) NPT
Must be used with a regulator: 52.325



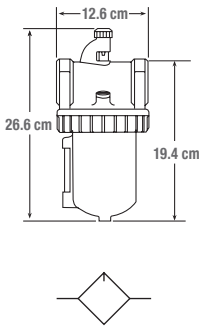
Product No	Port Size (F) NPT
52.285	1-1/2

HIFLO
1 1/2

S52 HIFLO

LUBRICATOR





- **High flow design**
-
-
- **Proportional oil delivery over a wide range of airflow**
- **Precision needle valve assures repeatable oil delivery and provides simple adjustment of delivery rates**
- **Fillable under pressure through the fill port - no need to depressurize or remove bowl**

Specifications

Port Size: 1-1/2 (F) NPT

Maximum Airflow at 100 PSI: 400 SCFM

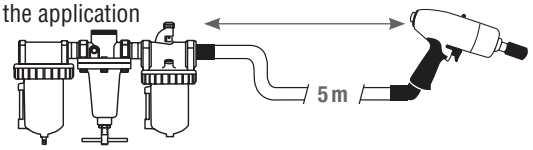
Maximum Working Pressure: 250 PSI

Working Temperature: 4 to 66 °C

Bowl Capacity: 0.5 L

TECH TIP

The lubricator should be installed within 5 meters of the application

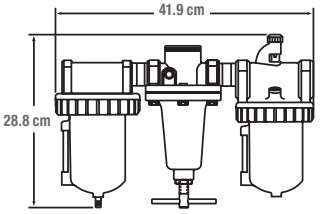


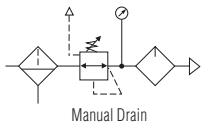
ZINC BOWL	Port Size (F) NPT
Product No	
52.470	1-1/2

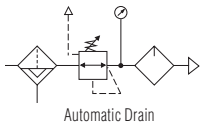
COMBINATION UNIT F+R+L

GAUGE INCLUDED









- **High flow design**
- **Removes contaminants down to 40 microns in size**
- **Removes water through centrifugal force**
- **Maintains constant downstream pressure**
- **Robust T-handle pressure adjustment**
- **Lubrication automatically proportioned to airflow, eliminating readjustment**
- **Precision needle valve assures repeatable oil delivery and provides simple adjustment of delivery rates**
- **Automatic drain available**

Specifications

Port Size: 1-1/2 (F) NPT

Maximum Airflow at 100 PSI: 400 SCFM

Maximum Working Pressure:
Manual Drain: 250 PSI
Automatic Drain: 175 PSI

Pressure Range: 2-125 PSI / Optional 5-250 PSI

Working Temperature: 4 to 52 °C

Filtration: Standard 40 micron / Optional 5 micron

Drain: Manual or internal automatic drain

Bowl Capacity: 0.5 L

Pressure Gauge Port Size: 1/4 (F) NPT

ZINC BOWL		Port Size (F) NPT
Manual Drain Product No	Auto Drain Product No	
52.570	52.571	1-1/2

Also available with a 5 micron element: add suffix .05

HIFLO 1 1/2 **S52**

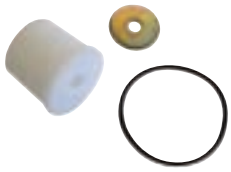
REPLACEMENT PARTS AND REPAIR KITS FOR HIFLO 1-1/2



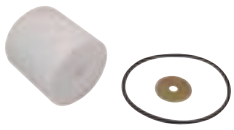
Product No 50.003
Auto drain 175 PSI
F, F/R HIFLO



Product No 50.006
Auto drain 250 PSI
Fc HIFLO



Product No 50.042
Element 40 microns
F 3/4 to 1-1/2 HIFLO



Product No 50.043
Element 5 microns
F 3/4 to 1-1/2 HIFLO



Product No 50.086
Element 0.3 micron
Fc 1-1/2 HIFLO



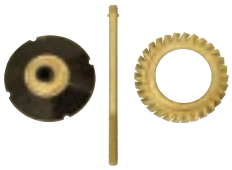
Product No 50.813
Zinc Bowl + sight glass (manual drain)
F, L 3/4 to 2 HIFLO



Product No 50.850
Zinc Bowl + sight glass (auto drain)
F 3/4 to 2 HIFLO



Product No 50.049
Sight glass assembly
F 3/4 to 2 HIFLO



Product No 50.050
Deflector and retainer
F à 1-1/2 HIFLO



Product No 50.012
Differential pressure indicator
Fc 1-1/4 to 2 HIFLO



Product No 50.069
Sight dome
L 1/4 to 1-1/2 HIFLO



Product No 50.066
Needle valve assembly
L HIFLO



Product No 50.055
Relieving diaphragm and valve
R 1-1/2 HIFLO



Product No 50.058
Relieving diaphragm and valve
R pilot 1-1/2 HIFLO



Replacement gauge
R, R pilot HIFLO

Product No 55.415 0-160 PSI
Product No 55.425 0-300 PSI



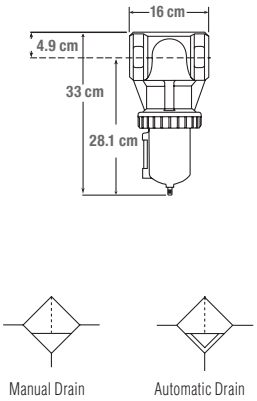
Product No 50.762
Wall bracket
R 3/4 to 1-1/2 HIFLO

HIFLO
2 • 2 1/2

S52 HIFLO

FILTER





- **High flow design**
- **Removes contaminants down to 40 microns in size**
- **Removes water through centrifugal force**
- **Automatic drain available**

Specifications

Port Size: 2 (F) NPT

Maximum Airflow at 100 PSI: 1200 SCFM

Maximum Working Pressure:
Manual Drain: 250 PSI
Automatic Drain: 175 PSI

Working Temperature:
Manual Drain: 4 to 66 °C
Automatic Drain: 4 to 52 °C

Filtration: Standard 40 micron

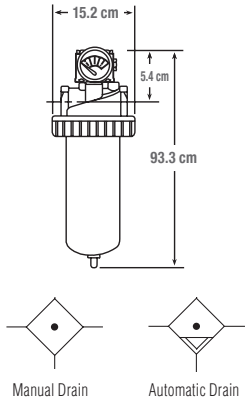
Drain: Manual or internal automatic drain

Bowl Capacity: 0.5 L

ZINC BOWL		
Manual Drain Product No	Auto Drain Product No	Port Size (F) NPT
52.180	52.181	2

COALESCING FILTER





- **Differential pressure gauge with easy-to-read dial face indicates pressure drop and need for filter element replacement**
- **Low profile allows easy filter installation**
- **High quality construction for durability**
- **Automatic drain available**

Specifications

Port Size: 2 (F) NPT

Maximum Airflow at 100 PSI: 395 SCFM

Maximum Working Pressure:
Manual Drain: 300 PSI
Automatic Drain: 250 PSI

Working Temperature:
Manual Drain: 4 to 66 °C
Automatic Drain: 4 to 52 °C

Filtration:0.3 micron

Drain: Manual or internal automatic drain

Bowl Capacity: 6.1 L

Three-color indicator



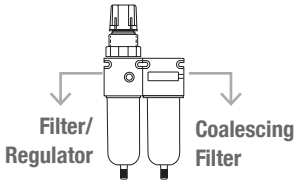
GREEN (clean)
0-3 PSI

YELLOW (change)
4-8 PSI

RED (dirty)
Over 9 PSI

TECH TIP

A coalescing filter should always be preceded by a filter or a F/R. The filter will prevent the coalescing element from quickly being saturated by larger particles.



ZINC BOWL		
Manual Drain Product No	Auto Drain Product No	Port Size (F) NPT
52.977	52.978	2

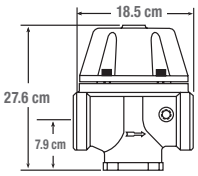
HIFLO
2 • 2 1/2

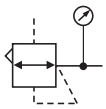
S52 HIFLO

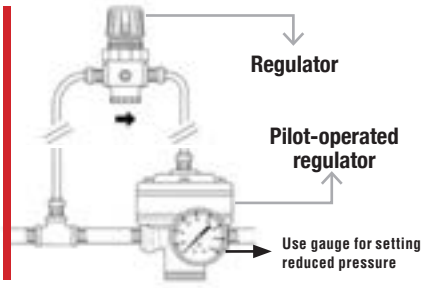
PILOT-OPERATED REGULATOR

GAUGE INCLUDED









Product No	Port Size (F) NPT
52.380	2
52.390	2-1/2

- **Adapted for control by a remote or small distant pilot regulator. Ideal for maximum capacity requirements in applications where units are not easily accessible**
- **High flow performance featuring rugged design for the most demanding applications**
- **Ideal for installations calling for constant pressure with wide variation in flow**
- **Diaphragm operated design with balanced poppet and constant bleed pilot for quick and accurate regulation**
- **Ideal for control by a remote or small distant regulator (i.e: 52.325) (see page 232)**

Specifications

Port Size: 2 (F) NPT • 2-1/2 (F) NPT
Maximum Airflow at 100 PSI: 1800 SCFM
Maximum Working Pressure: 300 PSI
Pressure Range: ±7 PSI of supply pressure
Working Temperature: 4 to 52 °C
Pressure Gauge Port Size: 1/4 (F) NPT
Pilot Port Size: 1/4 (F) NPT
Must be used with a regulator: 52.325

REPLACEMENT PARTS AND REPAIR KITS FOR HIFLO 2 • 2-1/2



Product No 50.003
Auto drain 175 PSI
F, F/R HIFLO



Product No 50.006
Auto drain 250 PSI
Fc HIFLO



Product No 50.044
Element 40 microns
F 2, 2-1/2 HIFLO



Product No 50.087
Element 0.3 micron
Fc 2 HIFLO



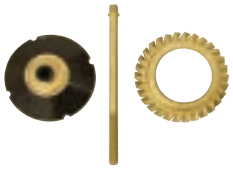
Product No 50.813
Zinc Bowl + sight glass
(manual drain)
F, L 3/4 to 2 HIFLO



Product No 50.850
Zinc Bowl + sight glass
(auto drain)
F, L 3/4 to 2 HIFLO



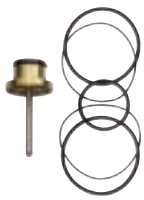
Product No 50.049
Sight glass assembly
F 3/4 to 2 HIFLO



Product No 50.051
Deflector and retainer
F 2 HIFLO



Product No 50.012
Differential pressure indicator
Fc 1-1/2 to 2 HIFLO



Product No 50.056
Piston and valve
R pilot 2, 2-1/2 HIFLO



Replacement gauge
R, R pilot HIFLO

Product No 55.415 0-160 PSI

HIFLO

S52 HIFLO

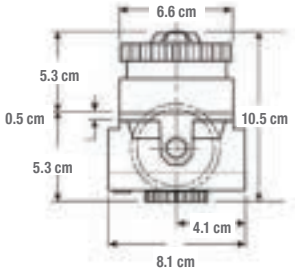
QUICK-SET
DIAL REGULATORS

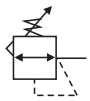
Designed to make frequent pressure adjustments easily and foolproof. No constant knob turning required; the dial is simply turned to the desired pressure.

Maximum pressure can be physically set to avoid mistakes and tampering.

Ideal for applications where pressure needs to be raised and lowered on a regular basis.







Features and benefits

- **Speeds up adjustments**
- **Saves time and money when pressure needs to be reset often**
- **Maintains a stable pressure throughout a flow range with very little pressure drop**
- **Maximum pressure can be set to avoid overpressure and tampering**
- **160 PSI calibrated dial face for quick reading and setting**
- **Constant bleed relieving design ensures quick response to pressure changes**
- **High flow, low pressure drop design**
- **Panel mountable through a 6.7 cm hole using four mounting holes**
- **Dual 1/4 NPT gauge ports can also be used as additional outlet ports**

Materials

Body: Zinc
Cap: Zinc / Brass
Piston: Acetal
Seals: Nitrile
Springs: Steel
Valve Assembly: Brass / Nitrile / Acetal

Specifications

Maximum Airflow at 100 PSI:
1/4: 117 SCFM • 3/8: 180 SCFM • 1/2: 195 SCFM • 3/4: 220 SCFM
Maximum Working Pressure: 300 PSI
Pressure Range: 5-160 PSI
Working Temperature: 0 to 65 °C
Pressure Gauge Port Size: 1/4 (F) NPT
Panel Mount Opening: 6.7 cm

Applications

Ideal for control panels, production line or laboratory applications where pressure is often reset

Product No	Port Size (F) NPT
52.326	1/4
52.332	3/8
52.341	1/2
52.351	3/4

TECH TIP

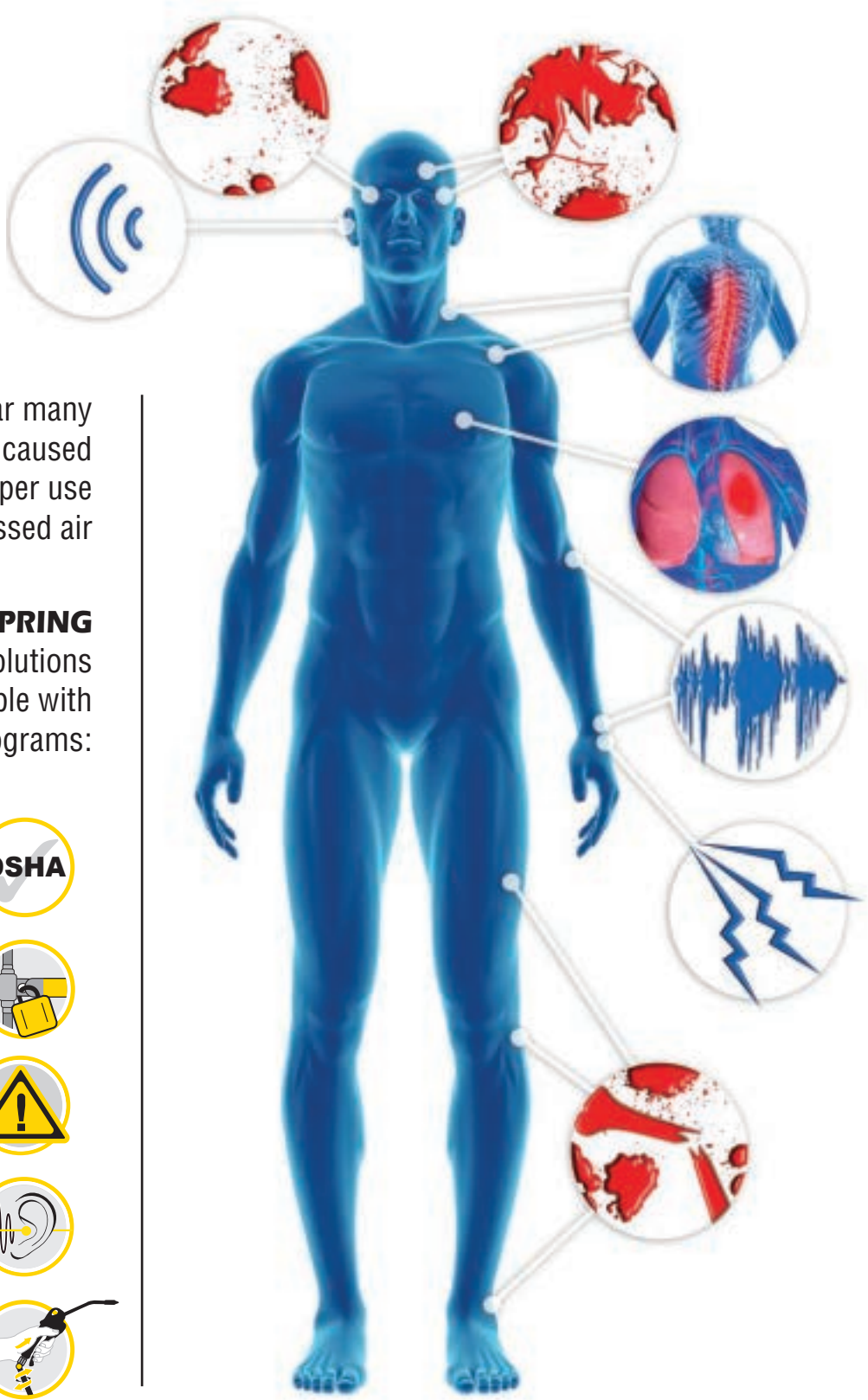
Standard regulators are set by turning the knob clockwise from a lower pressure, which works fine when raising the pressure; however, when lowering the pressure the knob must be turned counter clockwise until pressure drops below the desired pressure and then turned clockwise again up to the desired pressure. This takes time and leaves room for error.

Using a QUICK-SET dial regulator eliminates this long process by allowing to simply set the knob to the pressure.



DANGER

Compressed air can hurt!



Each year many accidents are caused by improper use of compressed air

TOPRING offers safety solutions identifiable with these pictograms:

MEETING OSHA STANDARDS

LOCKOUT

SAFETY

NOISE REDUCTION

ERGONOMICS

S54
DESICCANT AIR DRYERS
WITH SILICA GEL DESICCANT BEADS



S54
DESICCANT AIR DRYERS

A desiccant air dryer offers a simple and reliable method of ensuring pneumatic equipment is not exposed to damaging moisture.

When air is compressed, the air temperature is increased as well as its capacity to hold moisture. As the hot air travels downstream through the lines, it cools, allowing the moisture to condense.

After coolers, dryers, filters and automatic drains are effective ways to remove liquid condensates, but for removing residual water vapours and aerosols, a desiccant air dryer is recommended.

HOW IT WORKS?

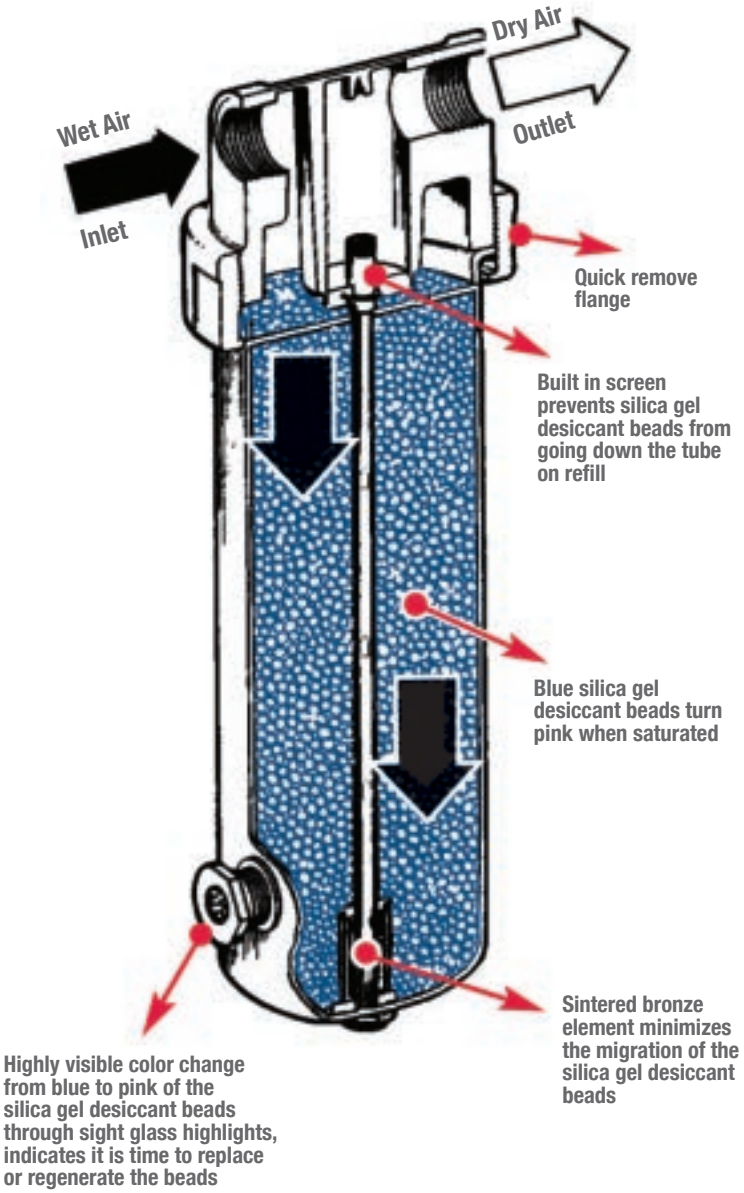
As wet compressed air flows through the silica gel desiccant beads, it adsorbs water vapour and aerosols. The silica gel desiccant beads are so effective, the air humidity can be reduced down to a -40 °C pressure dew point.

Unless compressed air is exposed to a temperature below the dew point, there will be no further condensation forming in airlines.

The dry air then passes through a sintered bronze element, up the center tube, and out the outlet port.

As long as the silica gel desiccant beads are maintained regularly, the desiccant air dryer will produce ultra-dry, moisture-free air.

When the blue silica gel desiccant beads in the sight glass change to pink, the beads either needs replacement or regeneration.



S54
DESICCANT AIR DRYERS

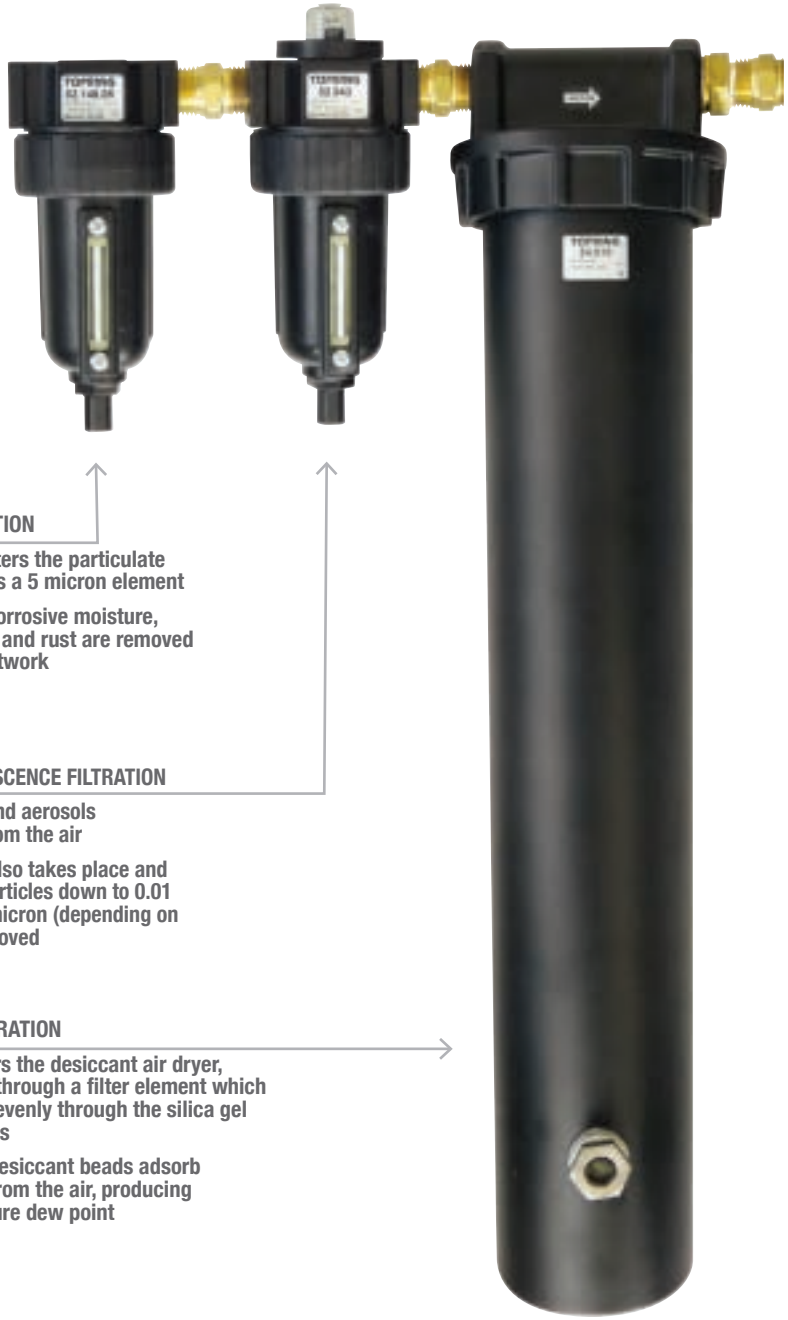
Features and benefits

- Designed to provide high quality and dry air
- Ideal for removing oil, aerosols, water vapors and dirt from compressed air networks
- Designed for ultimate protection in applying state-of-the art refinishing materials
- Deliver extremely dry compressed air without the use of electricity or refrigerants
- Compact size
- Silica gel desiccant beads provide maximum moisture adsorption
- Easy silica gel desiccant beads change out: regenerate or replace

Applications

Ideal for:

- Spray painting
- Protecting air networks exposed to freezing temperatures
- Instrumentation
- Moisture sensitive tools
- Laboratory instruments
- Controlled air systems



3 STAGES FOR CLEAN, DRY COMPRESSED AIR:

A desiccant air dryer needs to be protected from oil by using a coalescent filter, which needs to be protected by a standard filter.

These desiccant air dryers are therefore usually provided in 3-stage systems.

1st stage: FILTRATION

- **The air first enters the particulate filter, which has a 5 micron element**
- **In this stage, corrosive moisture, pipe scale, dirt and rust are removed from the air network**

2nd stage: COALESCENCE FILTRATION

- **99.99% of oil and aerosols are removed from the air**
- **Fine filtration also takes place and microscopic particles down to 0.01 micron or 0.3 micron (depending on model) are removed**

3rd stage: DEHYDRATION

- **As the air enters the desiccant air dryer, it is dispersed through a filter element which distributes air evenly through the silica gel desiccant beads**
- **The silica gel desiccant beads adsorb water vapour from the air, producing a -40 °C pressure dew point**

S54

DESICCANT AIR DRYERS (60 SCFM)

SILICA GEL DESICCANT BEADS INCLUDED

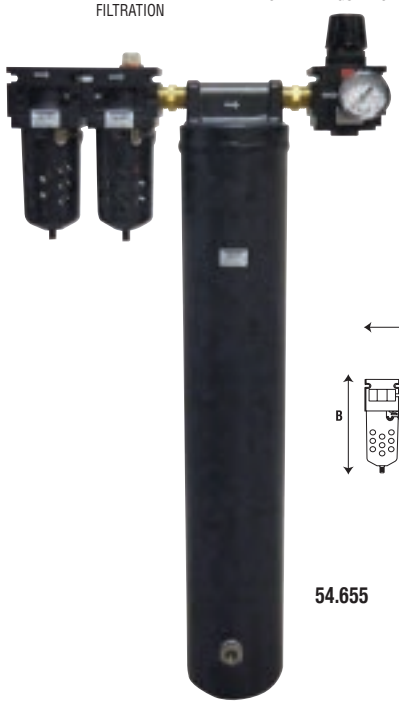
Features and benefits

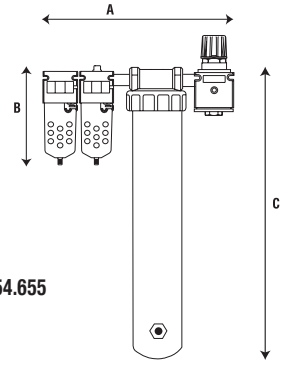
- 5 micron filter with automatic drain
- 0.01 micron (3/4 NPT) or 0.3 micron (1 NPT) coalescing filter with automatic drain
- Highly visible color changes from blue to pink through sight glass highlights the need for the need for silica gel service
- Pressure regulator with gauge installed after desiccant air dryer to compensate for pressure drops
- Fittings included

Specifications

Maximum Working Pressure: 54.655 : 150 PSI /54.657 : 175 PSI
Working Pressure : 0 to 125 PSI
Working Temperature : 4 to 52 °C
Maximum Airflow Capacity: 60 SCFM
Optimum Working Temprature: Below 38 °C

1ST STAGE : FILTRATION
2ND STAGE : COALESCENCE FILTRATION
3RD STAGE : DEHYDRATION
REGULATION

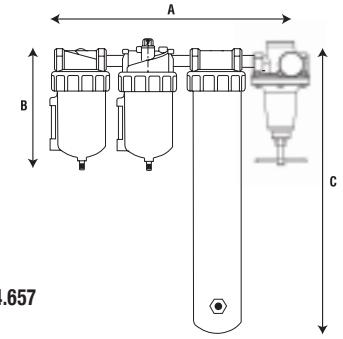




54.655

1ST STAGE : FILTRATION
2ND STAGE : COALESCENCE FILTRATION
3RD STAGE : DEHYDRATION
REGULATION





54.657

Silica Gel Desiccant Beads





54.695
54.696

Desiccant air dryers

Product No	Port Size (F) NPT	Maximum Airflow Capacity SCFM	Dimensions (cm)			Desiccant Capacity
			A	B	C	
54.655	3/4	60	39.4	20.3	76.8	4.5 kg
54.657	1	60	53.1	22.1	76.8	4.5 kg

Replacement parts

Prod. No	Description
50.041	Element 5 micron for Filter 54.655
50.043	Element 5 micron for Filter 54.657
50.080	Element 0.01 micron for Coalescing Filter 54.655
50.085	Element 0.3 micron for Coalescing Filter 54.657
54.011	Bronze Element for Desiccant Air Dryer
50.003	Internal Auto Drain for Filter 3/4 - 1 NPT and Coalescing Filter 3/4 NPT
50.006	Internal Auto Drain for Coalescing Filter 1 NPT
54.014	Flow Tube Repair Kit for Desiccant Air Dryer
54.695	Silica Gel Desiccant Beads 2.3 kg
54.696	Silica Gel Desiccant Beads 9.1 kg (4 x 2.3 kg)
55.415	Pressure Gauge

S54

DESICCANT AIR DRYERS (15 SCFM AND 30 SCFM)

SILICA GEL DESICCANT BEADS INCLUDED

Features and benefits

- 5 micron filter with automatic drain
- 0.3 micron coalescing filter with automatic drain
- Highly visible color changes from blue to pink through sight glass highlights the need for silica gel service
- Pressure regulator with gauge installed after desiccant unit, to compensate for pressure drops
- Brass fittings and mounting brackets included

Specifications

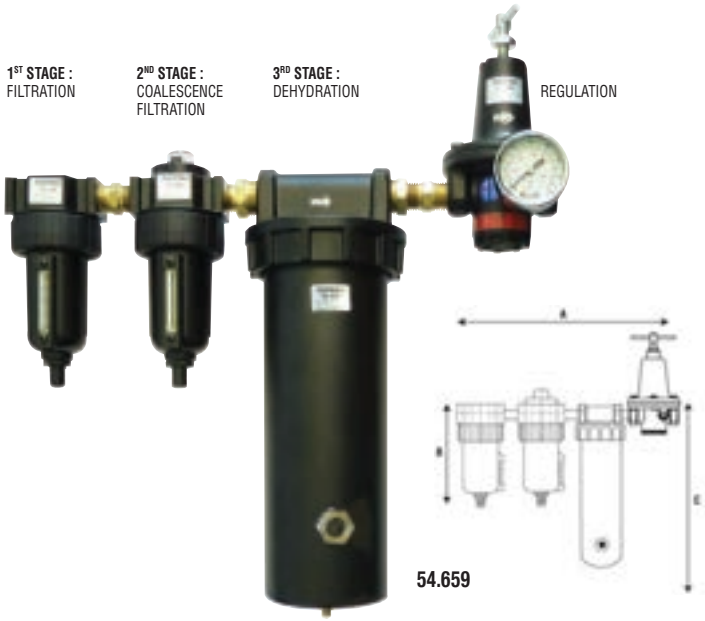
Maximum Working Pressure: 250 PSI

Pressure Range: 0 to 125 PSI

Working Temperature: 4 to 52 °C

Maximum Airflow Capacity: 54.659: 15 SCFM
54.661: 30 SCFM

Optimum Working Temprature: Below 38 °C



54.659



54.661

Desiccant air dryers

Product No	Port Size (F) NPT	Maximum Airflow Capacity SCFM	Dimensions (cm)			Desiccant Capacity
			A	B	C	
54.659	1/2	15	42.7	15.8	34.3	1.1 kg
54.661	1/2	30	42.7	15.8	59.1	2.3 kg

Replacement parts

Prod. No	Description
52.043	Element 5 microns for Filter
52.076	Element 0.3 micron for Coalescing Filter
54.010 *	Bronze Element for Desiccant Air Dryer
52.003	Automatic Drain for Filter and Coalescing Filter
54.012	Flow Tube Repair Kit for Desiccant Air Dryer 15 SCFM
54.013	Flow Tube Repair Kit for Desiccant Air Dryer 30 SCFM
54.695	Silica Gel Desiccant Beads 2.3 kg
54.696	Silica Gel Desiccant Beads 9.1 kg (4 x 2.3 kg)
55.415	Pressure Gauge

* For 54.661: Requires 2 elements

Silica Gel Desiccant Beads





54.695
54.696

S54

DESICCANT AIR DRYERS (25 SCFM)

SILICA GEL DESICCANT BEADS INCLUDED

Features and benefits

- 5 micron filter with automatic drain
- 0.01 micron coalescing filter with automatic drain
- Desiccant air dryer: 25 SCFM capacity
- Highly visible color change from blue to pink through sight glass highlights the need for silica gel service
- Filter/regulator with gauge
- Safety slide valve included
- Silica gel desiccant beads (1.1 kg) included

Specifications

Maximum Working Pressure: 175 PSI
Pressure Range: 0 to 125 PSI
Working Temperature: 4 to 49 °C
Maximum Airflow Capacity: 25 SCFM

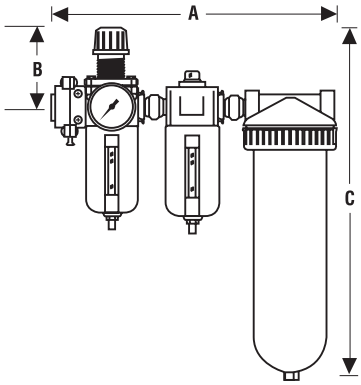


1ST STAGE : FILTRATION / REGULATION

2ND STAGE : COALESCENCE FILTRATION

3RD STAGE : DEHYDRATION





Silica Gel Desiccant Beads



54.695
54.696

Desiccant air dryers

Product No	Port Size (F) NPT	Maximum Airflow Capacity SCFM	Dimensions (cm)			Desiccant Capacity
			A	B	C	
54.665	1/2	25	36.2	10.2	41.3	1.1 kg

Replacement parts

Prod. No	Description
54.675	Element 5 microns for Filter
54.677	Element 0.01 micron for Coalescing Filter
54.678	Bronze Element and Accessories for Desiccant Air Dryer
50.003	Internal Auto Drain for Filter and Coalescing Filter
54.680	Diaphragm Assembly for Filter/Regulator
54.681	Flow Tube Repair Kit for Desiccant Air Dryer
54.695	Silica Gel Desiccant Beads 2.3 kg
54.696	Silica Gel Desiccant Beads 9.1 kg (4 x 2.3 kg)

S54

DESICCANT AIR DRYER UNITS

SILICA GEL NOT INCLUDED

Features and benefits

- Convenient and cost-effective means of ensuring sensitive applications are never exposed to damaging moisture
- Drying efficiency down to -40 °C pressure dew point
- Intake flow design takes air through entire supply of desiccant air dryer for maximum drying capacity
- Highly visible color changes from blue to pink through sight glass highlights the need for service
- No external power sources required, needs no electrical connection
- No « purged air loss » as with regenerative dryers
- Easily and quickly serviced
- Built-in particulate after filter prevents downstream dust
- Low pressure drops
- Compact size for point-of-use applications

Materials

Body and Flange Ring: Zinc

Bowl: Aluminium (model A and B)
Steel (model C)

Filter Element: Sintered Bronze

Flow Tube: CPVC

Seals: Rubber nitrile

Sight Glass: Glass and steel

Specifications

Pressure Range: 0 to 300 PSI

Working Temperature: 0 to 82 °C

Optimum Working Temperature: Below 38 °C

TECH TIP

Upstream the desiccant air dryer, always install a water separator / particulate filter to remove bulk moisture and a coalescing filter to remove oil. Desiccant coated with oil will not adsorb water vapors. Downstream the desiccant air dryer, always install a regulator.





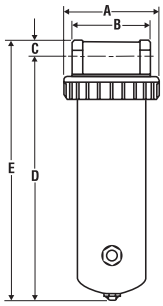
54.605



54.610



54.620



Model	Dimensions (cm)				
	A	B	C	D	E
A	12.5	10.3	2.1	32.2	34.3
B	12.5	10.3	2.1	57.0	59.1
C	12.5	10.3	2.1	74.8	76.8

Desiccant air dryers

Product No	Port. I.D. (F) NPT	Maximum Airflow Capacity SCFM	Bowl Capacity kg	Filter Element Micron	Model	Silica gel Required
54.605	1/2	15	1.1	90	A	**54.695**
54.607	3/4	15	1.1	90	A	**54.695**
54.610	3/4	30	2.3	90	B	**54.695**
54.615	3/4	60	4.5	40	C	**54.695 x 2**
54.620	1	60	4.5	40	C	**54.695 x 2**

Replacement parts

Prod. No	Description
50.752	Wall Bracket (for 1 in Pipe Size)
54.695	Silica Gel Desiccant Beads 2.3 kg
54.696	Silica Gel Desiccant Beads 9.1 kg (4 x 2.3 kg)
54.009	Gasket for Bowl 54.605 to 54.620
54.010*	Element Bronze for Desiccant Air Dryer 54.605, 54.607 and 54.610
54.011	Element Bronze for Desiccant Air Dryer 54.615 and 54.620
54.012	Flow Tube Repair Kit for Desiccant Air Dryer 54.605 and 54.607
54.013	Flow Tube Repair Kit for Desiccant Air Dryer 54.610
54.014	Flow Tube Repair Kit for Desiccant Air Dryer 54.615 and 54.620

* For 54.610: Requires 2 Elements

S54

MODULAR REGENERATIVE AIR DRYERS

Regenerative air dryers are designed for use in the compressor room, at the point of application or integrated into original equipment. They are an effective solution to the problems caused by contaminated compressed air.



Features and benefits

- Moisture and particulate protection of the production process
- Low energy costs and simplified maintenance
- Built-in dew point monitoring
- Safe and quiet operation
- Airflows available from 3 to 1110 SCFM at 100 PSIG operating pressure
- Pressure dew point (PDP) at -40°F/C eliminates vapor condensates to turn into a liquid at a given pressure
- Maximum corrosion protection for corrosive environments
- Heatless configuration

Applications

Clean and dry compressed air is essential in every efficient manufacturing and process operation, especially in the food, beverage, pharmaceutical, medical industries and many more

HOW DOES IT WORK?

These dryers use the pressure swing adsorption principle to efficiently dry compressed air. They use a heatless twin tower configuration housed in a modular design. Wet air from the compressor aftercooler enters the dryer and is directed into column Ⓐ.

Simultaneously, a small amount of dry air is counter-flowed down through cartridge Ⓑ and exhausted into the atmosphere, removing the moisture and regenerating the desiccant.

Pressure is equalized before switching columns to ensure uninterrupted compressed air and consistent air pressure.

The dryer is controlled by a PLC (programmable logic controller) which periodically switches the solenoid valves, reversing the function of each column and therefore ensuring the continuous supply of dry air.



These dryers are available upon request.

For more information, contact **TOPRING** at 800 263-8677

S55
PRESSURE GAUGES



S55

DIGITAL PRESSURE GAUGE

TOPRING digital pressure gauge is designed to provide fast, accurate pressure reading from an easy-to-read digital display.

Features and benefits

- Four digit backlight digital LCD with 1.3 cm numerals
- Can display in PSI, Bar, Kg/cm² and kPa
- Selectable peak, valley or continuous modes
- Screen flashes if pressure reaches 155 PSI or higher
- Easy access to features with two-key keyboard
- 67 mm screen with rubber protector for optimal protection
- Fluid temperature indicator
- Programmable automatic shutdown to extend battery service life
- Water resistant
- Reliable
- Economical

Applications

Industrial applications, pneumatic systems, pneumatic tools, air compressors, machine tools



Materials

Housing: High impact ABS

Crystal: PET plastic

Connection: Chrome plated brass

Protector: Rubber

Specifications

Fluids: Clean dry air and non-corrosive gases

Working Pressure: 0 to 155 PSI

Accuracy: ± 1 % of full scale

Working Temperature: -20 to 70°C

Thread: 1/4 (M) NPT

Battery Type: 9V Alkaline (included)



Product No	Description	Thread
55.700	Digital pressure gauge	1/4 (M) NPT

S55

STANDARD DRY PRESSURE GAUGES

TOPRING standard dry pressure gauges are high quality pressure gauges designed to provide reliable service in applications and environments where the atmospheric and substances used do not have a corrosive effects on brass.

Features and benefits

- Stem and connection are machined from a single piece of brass
- Precision movement provides accurate readings

Applications

Majority of industrial and commercial applications, pneumatic and hydraulic systems, air compressors

Materials

Housing: Black painted steel

Crystal: Acrylic

Bourdon Tube: Phosphorous bronze

Movement: Brass and nylon with highly polished bearing surfaces

Connection: Brass

Specifications

Dual scale in PSI (black) and in kPa (red)

Working Temperature: -18 to 60 °C

Accuracy:

1-1/2 in - 2 in diameters :
± 2,5 % of full scale

2-1/2 in - 4 in diameters:
± 1,6 % of full scale



LM
LOWER MOUNT

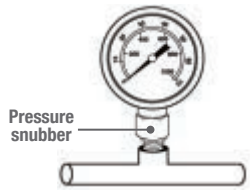


CBM
CENTER BACK MOUNT

TECH TIP

Working pressure should be limited to 60 %of the dial maximum pressure. Where no sharp fluctuations occur, it should be limited to 90 % of the dial maximum pressure.

When excessive vibrations are present, a pressure snubber should be used in order to maximize the useful life of the gauge (see page 249).



S55
STANDARD DRY PRESSURE GAUGES

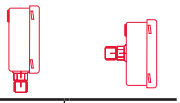




7/8 in DIAMETER	1/8 NPT CBM
Pressure Range PSI	Product No
0-60	55.050*
0-160	55.055*

* ABS housing, PSI scale only

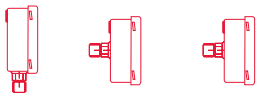




1-1/2 in DIAMETER	1/8 NPT LM	1/8 NPT CBM
Pressure Range PSI	Product No	Product No
30" Hg VAC	55.132	55.090
0-15	55.133	55.095
0-30	55.134	55.100
0-60	55.135	55.105
0-60	---	55.106*
0-100	---	55.110
0-160	55.145	55.120
0-160	---	55.121*
0-200	55.150	55.125

* Crystal glass
- Pressure gauges with CRN numbers available on request
- Calibration certifications available upon request





2 in DIAMETER	1/4 NPT LM	1/8 NPT CBM	1/4 NPT CBM
Pressure Range PSI	Product No	Product No	Product No
30" Hg VAC	55.190	---	55.385
0-15	55.195	---	55.390
0-30	55.200	55.350	55.400
0-60	55.205	55.355	55.405
0-100	55.210	55.360	55.410
0-160	55.215	55.365	55.415
0-200	55.220	55.370	55.420
0-300	55.225	---	55.425

- Pressure gauges with CRN numbers available on request
- Calibration certifications available upon request

TECH TIP

Working pressure should be limited to 60 % of the dial maximum pressure. Where no sharp fluctuations occur, it should be limited to 90 % of the dial maximum pressure.

S55
STANDARD DRY PRESSURE GAUGES






2-1/2 in DIAMETER	1/4 NPT LM	1/4 NPT CBM
Pressure Range PSI	Product No	Product No
30" Hg VAC	55.285	55.428
0-15	55.295	---
0-30	55.300	55.430
0-60	55.305	55.435
0-100	55.310	55.440
0-160	55.315	55.445
0-200	55.320	55.450
0-300	55.325	55.455
0-600	55.330	---
0-1000	55.332	---
0-3000	55.340	---
0-5000	55.345	---

- Pressure gauges with CRN numbers available on request
- Calibration certifications available upon request





4 in DIAMETER	1/4 NPT LM
Pressure Range PSI	Product No
30" Hg VAC	55.500
0-15	55.503
0-30	55.505
0-60	55.510
0-100	55.515
0-160	55.520
0-200	55.525
0-300	55.530
0-600	55.540

- Pressure gauges with CRN numbers available on request
- Calibration certifications available upon request

TECH TIP

Working pressure should be limited to 60 % of the dial maximum pressure. Where no sharp fluctuations occur, it should be limited to 90 % of the dial maximum pressure.

S55

STAINLESS STEEL PRESSURE GAUGES

BRASS INTERNALS

Gauge with excellent resistance to strong shocks, pulsations and vibrations.

Features and benefits

- Excellent resistance to corrosion
- High-grade glycerine retains clarity and lubricating properties prolonging the life of the gauge

Applications

Pneumatic and hydraulic systems, air tools, hydraulic presses, air compressors, machine tools

Materials

Housing: 304 stainless steel
Crystal: Acrylic
Bourdon Tube: Phosphorous bronze
Movement: Brass with highly polished bearing surfaces
Connection: Brass

Specifications

Dual scale in PSI (black) and in kPa (red)
Working Temperature: -18 to 60 °C
Accuracy: ± 1,6 % of full scale



LM
LOWER MOUNT



CBM
CENTER BACK MOUNT



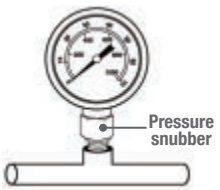

2-1/2 in DIAMETER	1/4 NPT LM	1/4 NPT CBM
Pressure Range PSI	Product No	Product No
30" Hg VAC	55.608	55.708
0-30	55.613	55.713
0-60	55.618	55.718
0-100	55.623	55.723
0-160	55.628	55.728
0-200	55.633	55.730
0-300	55.638	55.738
0-600	55.643	55.743
0-1000	55.648	55.748
0-1500	55.653	55.753
0-2000	55.658	55.758
0-3000	55.663	55.763
0-5000	55.668	55.768
0-10000	55.688	55.788

- Pressure gauges with CRN numbers available on request
- Calibration certifications available upon request

TECH TIP

Working pressure should be limited to 60 % of the dial maximum pressure. Where no sharp fluctuations occur, it should be limited to 90 % of the dial maximum pressure.

When excessive vibrations are present, a pressure snubber should be used in order to maximize the useful life of the gauge (see page 249).



S55

STAINLESS STEEL PRESSURE GAUGES

STAINLESS STEEL INTERNALS

316 stainless steel pressure gauges have exceptional features that prolong lifespan and reliability.

Features and benefits

- Provide excellent resistance to corrosion, acidity and alkalinity
- Excellent resistance to strong fluctuations, pulsations, vibration and metal fatigue
- High-grade glycerine retains clarity and lubricating properties prolonging the life of the gauge

Applications

For severe applications in process, chemical and petrochemical industries

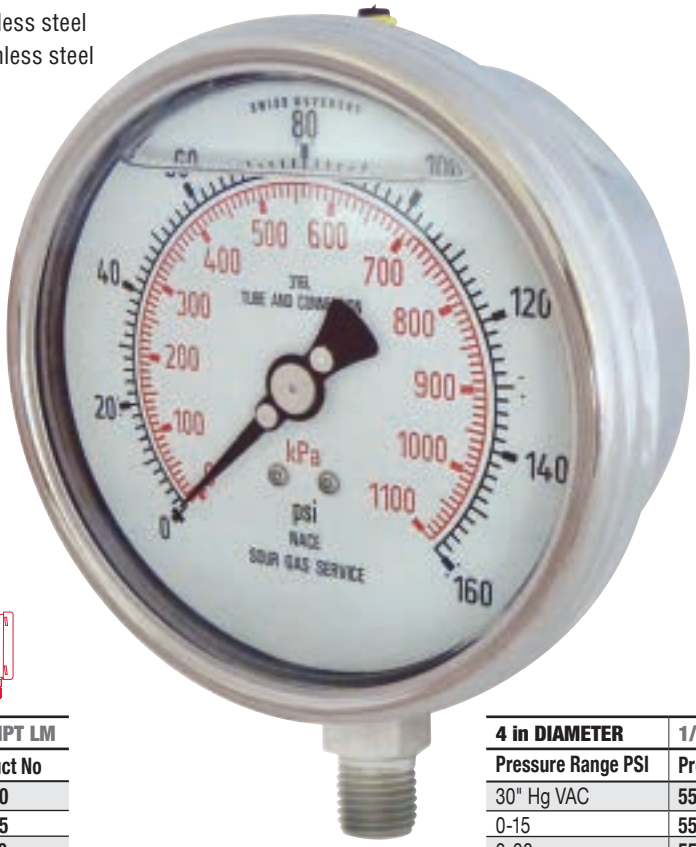
Materials

Housing : 304 Stainless steel
Crystal: Acrylic
Bourdon Tube: 316 stainless steel
Movement: 316 stainless steel
Connection: 316 stainless steel

Specifications

Dual scale in PSI (black) and in kPa (red)
Fluids : Air, water, oil
Working Temperature: -18 to 60 °C
Accuracy: ± 1,6 % of full scale





2-1/2 in DIAMETER	1/4 NPT LM
Pressure Range PSI	Product No
30" Hg VAC	**55.800**
0-15	**55.805**
0-30	**55.810**
0-60	**55.815**
0-100	**55.820**
0-160	**55.825**
0-200	**55.830**
0-300	**55.835**
0-600	**55.845**
0-1000	**55.850**
0-1500	**55.855**
0-2000	**55.860**
0-3000	**55.865**
0-5000	**55.870**
0-6000	**55.875**

- Pressure gauges with CRN numbers available on request
- Calibration certifications available upon request

4 in DIAMETER	1/4 NPT LM
Pressure Range PSI	Product No
30" Hg VAC	**55.900**
0-15	**55.905**
0-30	**55.910**
0-60	**55.915**
0-100	**55.920**
0-160	**55.925**
0-200	**55.930**
0-300	**55.935**
0-600	**55.945**
0-1000	**55.950**
0-1500	**55.955**
0-2000	**55.960**
0-3000	**55.965**
0-5000	**55.970**
0-6000	**55.975**
0-10000	**55.980**
0-15000	**55.985**

- Pressure gauges with CRN numbers available on request
- Calibration certifications available upon request

TECH TIP

Working pressure should be limited to 60 % of the dial maximum pressure.
Where no sharp fluctuations occur, it should be limited to 90 % of the dial maximum pressure.

S55
PRESSURE SNUBBER

Features and benefits

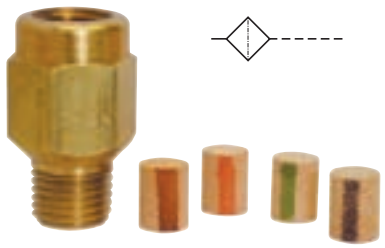
- Reduce effects of pressure surge (pulsation) that can damage pressure instruments
- Elements of different porosity are included allowing user to adjust snubbing capacity for specific applications
- May also be used as in-line filters

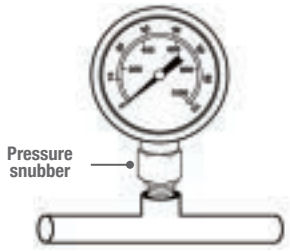
Specifications

Maximum Working Pressure: 10 000 PSI

Body: Brass

Filter: Porous bronze





Product No	Thread NPT
55.005	1/4 (M, F)

Micron Rating	Color	Applications
40 micron	Bronze	High density fluids (+ 500 SSU)
30 micron	Black	Medium density fluids (225 to 500 SSU)
25 micron	Brown	Water and low-density fluids (30 to 225 SSU)
20 micron	Green	Very low-density fluids (-30 SSU)
10 micron	Red	Air and gas

EXCESSIVE PRESSURE LOSS = The pressure difference between what is present in the air tank and what is available at different points in the system.

PRESSURE LOSS refers to the difference in pressure between the pressure in the air tank and the pressure available at different points in the system

Excessive pressure loss

EXCESSIVE PRESSURE LOSS occurs when the compressed air system is unable to replace the air consumed by the tools or to perform work at a sufficient speed. This causes a pressure drop lower than the suggested operating pressure for the tools or equipment, with the following results:

- Poor tool performance,
- Waste of time
- Quality problems, poor productivity and damage to the equipment

What is excessive loss?

A **10% LOSS** where the tool is connected, for example, between the compressor tank pressure and the pressure at the connection, is acceptable for most air tools, so a total loss of less than 3 % for the entire compressed air system. Losses greater than these data are said to be "excessive". Often the pressure will be increased to try to solve the problem. This solution provides higher pressure when the tool is operated at the beginning but the system is still ineffective. The pressure still drops below the ideal operating pressure after the initial thrust which often damages the tools.

Ideally, the entire compressed air system, including the compressor, air tank, piping, quick couplers, air hoses, etc., will have been designed to provide sufficient flow to replace the air consumed, while avoiding excessive pressure loss where the tool is connected.

For more informations on pressure loss, see « INTRODUCTION TO COMPRESSED AIR » on page 3

S58
HOSEGUARD®
SAFETY VALVES



S58
HOSEGUARD®
SAFETY VALVES

SAFETY

Features and benefits

- Safe
- Reliable and tamperproof
- Maintenance free
- Easy to install
- Lightweight and compact
- Optimal airflow in normal open position
- Meet OSHA Regulation Standard 29CFR 1926.302 (Partial)
- Meet ISO Standard 4414-11 (5.4.5.11.1)***

When a fitting comes out from a pressurised hose or when a pressurised hose is ruptured, the hose blows compressed air in an uncontrolled way.

This causes the hose to whip and can result in:

- Injury
- Damage to pieces in production
- Dust being blown up from the floor
- Small debris being blown around

The **HOSEGUARD®** safety valve offers a simple and efficient protection in the event of a breakage in the compressed air system, a disconnection or a rupture of a pressurised air hose.

The safety valve is factory preset and configured to allow a normal air consumption when using air tools.

Should the air consumption exceed the set value of the safety valve, the air supply is immediately shut off by the internal piston.

Once the breakage is repaired, a built-in bleed hole leaks a certain amount of airflow, which automatically resets the **HOSEGUARD®** safety valve.

Material

Aluminium
(Stainless steel 316 available upon request)

Specifications

Maximum Working Pressure: 261 PSI

Working Temperature:
1/4, 3/8 and 1/2 : -20 to 80 °C
3/4 and 1 : -20 to 120 °C

Applications

Compressed air distribution systems for medical, pharmaceutical, chemical, dental, food and beverage industries



See the video “HOSEGUARD: Anti-Hose Whip” on **TOPRING**.com



Aluminium Product No	Stainless Steel	Inlet NPT	Outlet (F) NPT	Airflow SCFM Closing Point at 90 PSI*	Length mm
58.952	**58.452****	1/4 (M)	1/4	24	58
58.955	**58.455****	1/4 (M)	1/4	32	58
58.957		3/8 (M)	3/8	33	69
58.959		3/8 (M)	3/8	42	69
58.962	**58.462****	1/2 (M)	1/2	96	79
58.964	**58.464****	1/2 (M)	1/2	107	79
58.967		3/4 (F)	3/4	127	76
58.969		3/4 (F)	3/4	161	76
58.972		1 (F)	1	163	100
58.974		1 (F)	1	236	100

*Data for closing point (+/- 10 %) and other PSI available on pages 253 and 254
**Available upon special requests

FACTS TO KNOW

OSHA standard No.1926.302(b)(7) states that: “All flexible hoses exceeding 1/2 inch inside diameter shall have a safety device at the source of supply or branch line to reduce pressure in case of hose failure.” **TOPRING** anti-hose whip safety valves satisfy this standard.

*** ISO 4414-11 (5.4.5.11.1):

“When failure of a hose assembly or plastic piping constitutes whiplash hazard, it shall be restrained or shielded by suitable means and/or an air fuse for compressed air shall be mounted.”

S58
HOSEGUARD®
SAFETY VALVES

Information required to select the right HOSEGUARD®

- Flow and pressure level needed to operate the air tool
- Pressure supply level at the inlet of the **HOSEGUARD®** safety valve
- Inside diameter and length of the air hose from the **HOSEGUARD®** safety valve to the air tool
- By using both the available airflow value and **HOSEGUARD®** safety valve closing point charts (next pages), the correct **HOSEGUARD®** safety valve can be selected.
- Please be aware that using theoretical values to select a **HOSEGUARD®** safety valve is not advised.

WARNING
INSTALLATION GUIDELINES

- It is essential that the compressed air used is clean and dry.
- The inside diameter of the mounted air hose or pipe **installed after** the **HOSEGUARD®** safety valve **must be equal or superior to the inside diameter** of the **HOSEGUARD®** safety valve. Air hoses and pipes which are too small could impede successful closing of the **HOSEGUARD®** safety valve.
- **Long hoses or pneumatic tubes cause a flow restriction that could prevent the proper operation of HOSEGUARD® safety valves. As a general rule hoses with an internal diameter of 1/4 in shouldn't be over 20 feet long, 3/8 in are limited to 50 feet and 1/2 In or larger should be within a 100 feet maximum length.**
- The rules above also apply to any mounted quick couplers and plugs, nipples, as these could negate the closing function of the **HOSEGUARD®** safety valve.
- The inside diameter of the air hose or pipe **installed before** the **HOSEGUARD®** safety valve **must be equal or superior** to the inside diameter of the **HOSEGUARD®** safety valve.
- If regulators or other components are mounted before the **HOSEGUARD®** safety valve, these components must have a higher flow than the **HOSEGUARD®** safety valve selected.

Operation of the **HOSEGUARD®** safety valve should be thoroughly tested before first use and on a regular basis thereafter. To ensure the safe operation of the safety device simply simulate a hose breakage by replacing the tool with a ball valve. See the instruction manual for more information.

Proper HOSEGUARD® safety valve installation

The **HOSEGUARD®** safety valve must be mounted between source of air supply and the flexible air hose



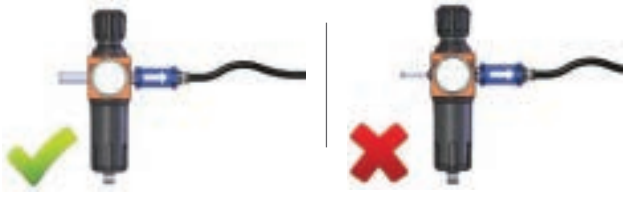
The **HOSEGUARD®** safety valve must be mounted at the end of a rigid feeding line



It is essential to ensure that the air is flowing in the correct direction (as per the arrows marked on the **HOSEGUARD®** safety valve), otherwise the safety valve will not be able to close successfully



The inside diameter of the mounted air hose or pipe installed before the **HOSEGUARD®** safety valve, must be equal or superior than the inside diameter of the **HOSEGUARD®** safety valve



WARNING

The air system should be operated only after the **HOSEGUARD®** safety valve has been rigorously tested and secured

S58
HOSEGUARD®
SAFETY VALVES

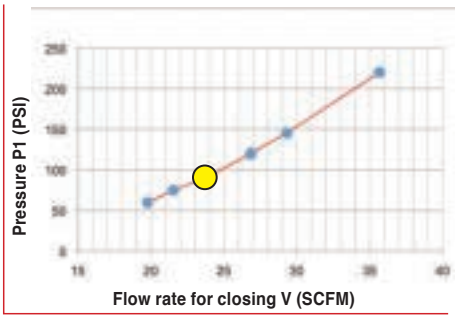
Flow measurement according to DIN EN 60534 / Airflow at closing point (+ / - 10 %)

LEGEND
P1: Inlet pressure
DP: Pressure drop
V: Closing point (SCFM)



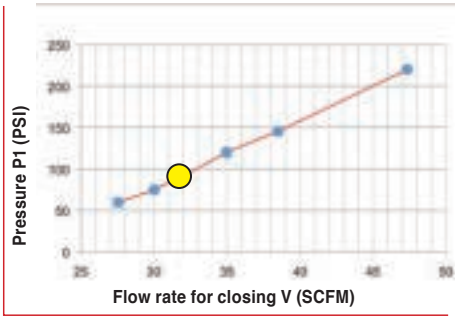
HOSEGUARD® 58.952 · 1/4

P1	Dp	V
PSI	PSI	SCFM
220	5.8	36
145	5.8	29
120	5.8	27
90	5.8	24
75	5.8	22
60	5.8	20



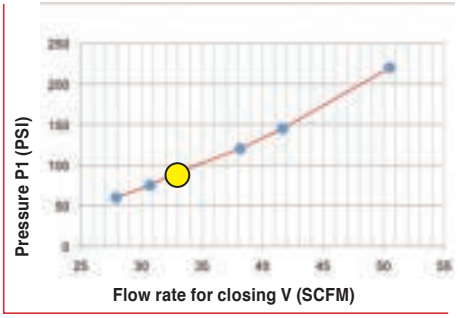
HOSEGUARD® 58.955 · 1/4

P1	Dp	V
PSI	PSI	SCFM
220	13.1	47
145	13.1	38
120	13.1	35
90	13.1	32
75	14.5	30



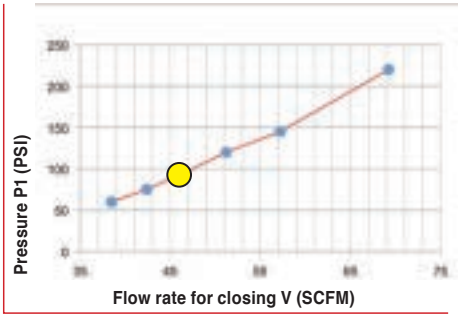
HOSEGUARD® 58.957 · 3/8

P1	Dp	V
PSI	PSI	SCFM
220	2.9	50
145	3.0	42
120	2.9	38
90	2.8	33
75	2.9	31
60	2.8	28



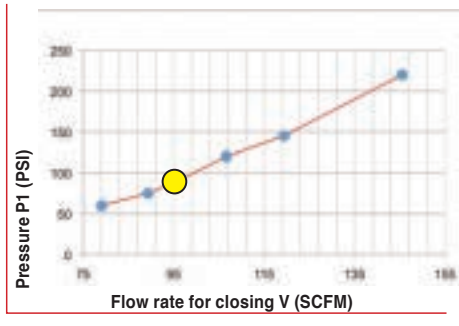
HOSEGUARD® 58.959 · 3/8

P1	Dp	V
PSI	PSI	SCFM
220	3.3	69
145	3.3	57
120	3.2	51
90	3.2	46
75	3.3	42
60	3.3	38



HOSEGUARD® 58.962 · 1/2

P1	Dp	V
PSI	PSI	SCFM
220	5.4	145
145	5.4	119
120	5.2	107
90	5.1	96
75	5.1	89
60	5.1	79



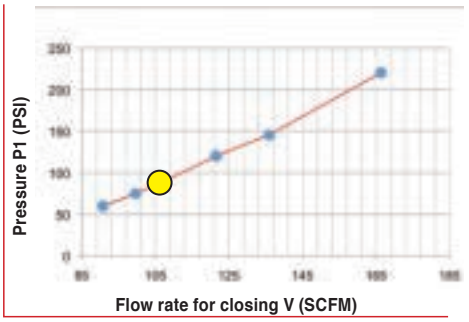
S58
HOSEGUARD®
SAFETY VALVES

Flow measurement according to DIN EN 60534 / Airflow at closing point (+ / - 10 %)

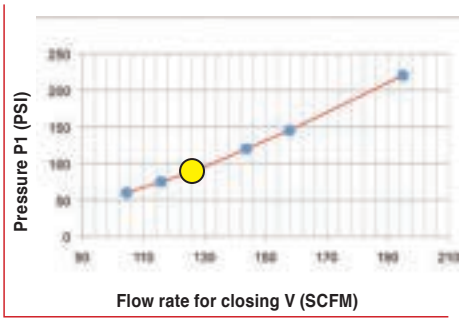
LEGEND
P1: Inlet pressure
DP: Pressure drop
V: Closing point (SCFM)



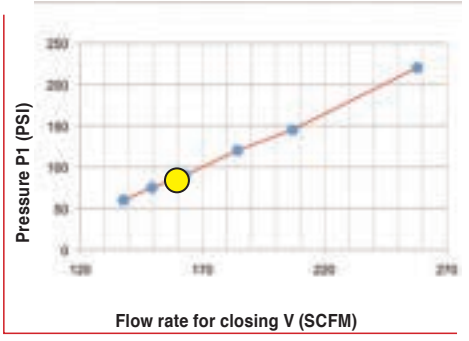
HOSEGUARD® 58.964 • 1/2		
P1	Dp	V
PSI	PSI	SCFM
220	6.1	166
145	6.1	136
120	5.9	121
90	5.8	107
75	5.9	100
60	5.9	91



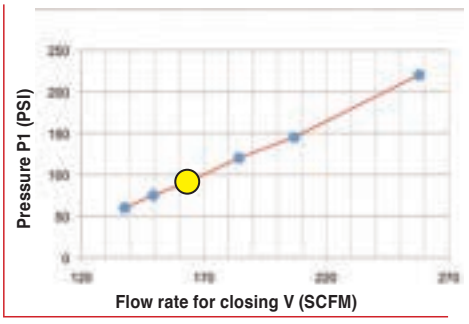
HOSEGUARD® 58.967 • 3/4		
P1	Dp	V
PSI	PSI	SCFM
220	3.5	195
145	3.6	158
120	3.5	144
90	3.6	127
75	3.6	116
60	3.6	105



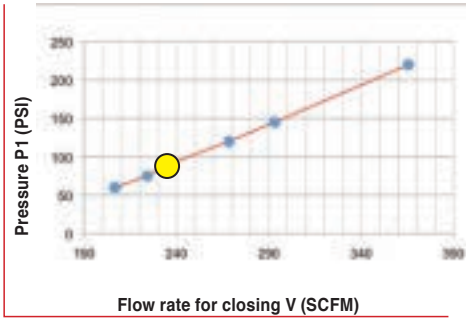
HOSEGUARD® 58.969 • 3/4		
P1	Dp	V
PSI	PSI	SCFM
220	4.2	251
145	4.4	205
120	4.2	185
90	4.5	161
75	4.5	149
60	4.5	135



HOSEGUARD® 58.972 • 1		
P1	Dp	V
PSI	PSI	SCFM
220	2.9	258
145	3.0	207
120	3.2	184
90	3.0	163
75	2.9	149
60	2.9	138



HOSEGUARD® 58.974 • 1		
P1	Dp	V
PSI	PSI	SCFM
220	3.9	366
145	3.9	293
120	3.9	268
90	3.9	236
75	3.9	224
60	3.8	207

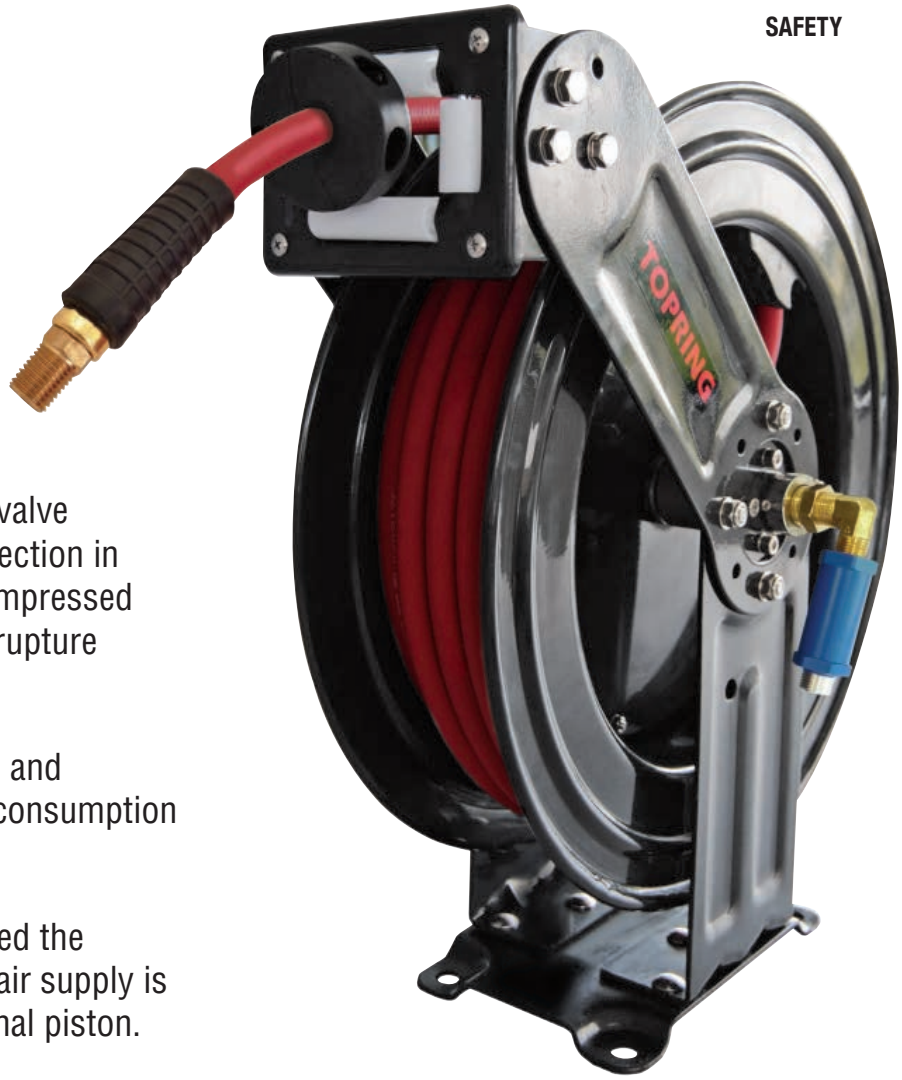


TopReel HD WITH THE HOSEGUARD® SAFETY VALVE

A simple and efficient protection* for users!

SAFETY





The **HOSEGUARD®** safety valve offers a simple and efficient protection in the event of a breakage in the compressed air system, a disconnection or a rupture of a pressurised air hose.

The safety valve is factory preset and configured to allow a normal air consumption when using air tools.

Should the air consumption exceed the set value of the safety valve, the air supply is immediately shut off by the internal piston.

Once the breakage is repaired, a built-in bleed hole leaks a certain amount of airflow, which automatically resets the **HOSEGUARD®** safety valve.



See the video on **TOPRING**.com

TopReel HD hose reels with the HOSEGUARD safety valve are available with 3/8 or 1/2 I.D. rubber hose - 33 or 50 ft

For more details on TopReel HD hose reels, see page 292.

* See page 251 «FACTS TO KNOW» for OSHA Standard No 1926.302(b)(7)

S11•14•17•19
SELF-STORING HOSES



S11•14•17•19
SELF-STORING HOSES

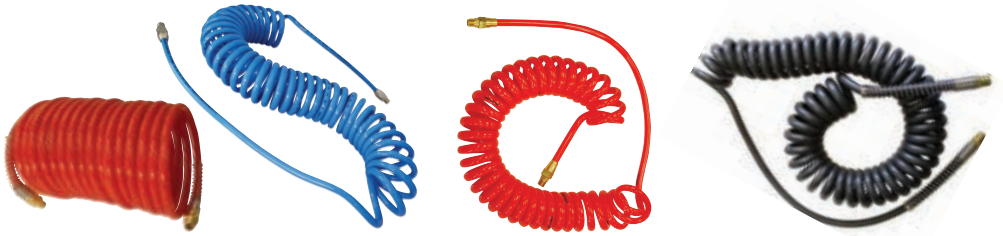
WHY USE A SELF-STORING HOSE ?

A self-storing hose offers several advantages:

- **Time and space saving:** The hose is compact; it stretches easily to the required and regains its original shape when it retracts.
- **Ergonomics:** It improves working conditions because the hose does not obstruct the passage when not in use. The end tails of the polyurethane models are straight, making the hose less stressful for the wrists and models with swivel fittings allow maximum directional flexibility.
- **Lightweight and flexible:** Lighter and more flexible than rubber hoses.

ELEMENTS TO CONSIDER

1) **The working environment:** First, ensure that the hose will withstand the environment in which it will be used. Some materials are more resistant to sparks, oil or moisture. The ether-based polyurethane will last longer in terms of weather and moisture resistance, while the ester-based polyurethane will provide better resistance to chemicals. The working temperature will also have an impact on the pressure control and needs to be taken into consideration a the selection stage.
2) **Ergonomics:** For applications requiring greater freedom of movement in a restricted work space, it is recommended to use flexible polyurethane hoses with straight ends.
3) **Flexibility:** A polyurethane hose is much more flexible than a nylon hose, hence more manageable for frequent users.
4) **Hose length:** Unnecessary hose lenghts contribute to pressure drops and increases operating costs, thus selecting the proper hose legnth is for each application is recommended.



SELF-STORING HOSE SELECTION GUIDE

	Series 11 MAXPRO	Series 14 MAXAIR	Series 17 FLEXCOIL		Series 19 SPARKCOIL
COLOR	RED	BLUE	RED	BLUE	BLACK
MATERIAL	NYLON 12	POLYURETHANE (ESTER-BASED)	POLYURETHANE (ETHER-BASED)		POLYURETHANE AND TECHNOPOLYMER (ESTER-BASED)
MAXIMUM WORKING PRESSURE	Up to 200 PSI	143 PSI at 23 °C	140 PSI at 23 °C		143 PSI at 23 °C
WORKING TEMPERATURE	-40 °C to 80 °C	-20 °C to 70 °C	-40 °C to 70 °C		-40 °C to 70 °C
INTERIOR DIAMETER (in)	1/4 - 3/8	1/4 - 3/8	1/4 - 5/16 (8 mm) - 3/8		1/4
TOTAL LENGTH (ft)	12.5 - 25 - 50	15 - 25 - 50	15 - 20 - 25 - 30 - 50		25 - 50
WORKING LENGTH (ft)	10 - 20 - 40	12 - 20 - 40	12- 16 - 20 - 24 - 40		20 - 40
MAIN CHARACTERISTICS	SUPERIOR MEMORY ABRASION RESISTANCE	QUALITY/PRICE CHOICE	FLEXIBILITY VARIOUS DIMENSIONS		SPARKS AND HOT CHIPS RESISTANCE OIL RESISTANCE
ERGONOMICS	★	★★	★★★		★★★
FLEXIBILITY	★	★★	★★★		★★★
SERVICE LIFE	★★★★	★★★	★★★★		★★★★
WEIGHT kg (1/4 x 25)	0.27	0.45	0.44		1.08

S11
MAXPRO
NYLON
SELF-STORING HOSES

Features and benefits

- Easily stretches and retracts automatically
- Superior memory over a wide temperature range for long service life
- Excellent resistance to abrasion, impact, flex fatigue and ultraviolet aging
- Excellent resistance to many industrial chemicals, oils and solvents
- High resistance to moisture absorption
- Space efficient and lightweight
- Swivel fittings at both ends allow maximum directional flexibility
- Full flow heavy-duty brass fittings
- Spring guards at each fitting prevent the hose from kinking
- Silicone-free materials

Applications

General shop use

Material

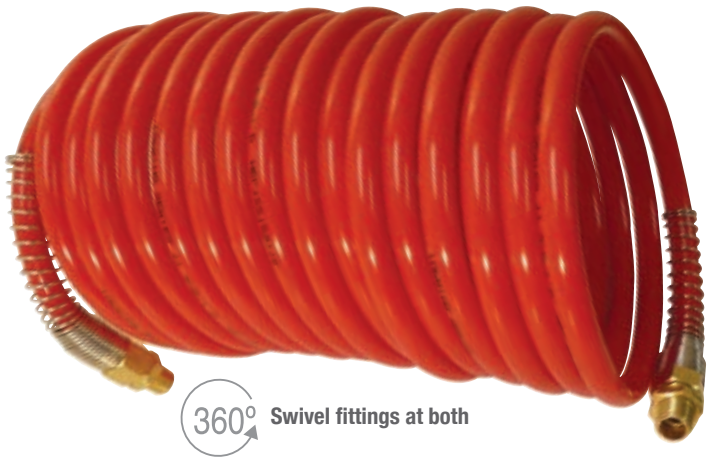
Nylon 12

Specifications

Maximum Working Pressure: 200 PSI
Maximum working pressure decreases as air temperature increases

Working Temperature Range: -40 to 80 °C

Recommended Working Length: 80% of total length for vertical usage and 50% for horizontal use



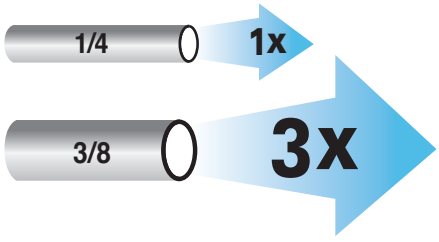
Self-storing hose assemblies with fittings

Product No	Hose I.D. in	Coil O.D. in	Total Length ft	Working Length ft	Fittings (M) NPT
11.421	1/4	3.6	12.5	10	1/4
11.441	1/4	3.6	25	20	1/4
11.481	1/4	3.6	50	40	1/4
11.621	3/8	6.1	12.5	10	3/8
11.626	3/8	6.1	12.5	10	1/4
11.641	3/8	6.1	25	20	3/8
11.646	3/8	6.1	25	20	1/4
11.681	3/8	6.1	50	40	3/8
11.686	3/8	6.1	50	40	1/4

TECH TIP

It is important to choose the proper interior hose diameter according to the airflow required for the application (see the reference table at the end of this Series)

3/8 I.D. air hose offers 3 times more flow than a 1/4. I.D.



Data based on tests at 100 PSIG with 10 PSIG of pressure drops over a 25 feet hose

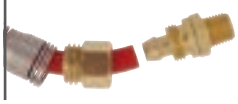
Replacement swivel fittings



Product No	Hose I.D. in	Fittings (M) NPT
11.042	1/4	1/4
11.062	3/8	3/8
11.065	3/8	1/4

Replacement fittings

1. After cutting the hose end straight, insert the spring guard and the sleeve nut.



2. Press the barbed end of the fitting into the end of the hose until it seats against the thread base.



3. Slide the nut onto the fitting and tighten. Complete the installation by tightening the nut with the appropriate wrench until it reaches the fitting body.



S14
MAXAIR
POLYURETHANE SELF-STORING HOSES



ERGONOMICS

Features and benefits

- Ester-based polyurethane hose ideal for applications in presence of oils
- Easily stretches and retracts automatically
- Excellent recoil memory
- Highly abrasion resistant
- Excellent kink resistance
- 25% lighter than rubber self-storing hoses
- Superior elasticity and flexibility compared to nylon hose
- Reusable heavy-duty nickel plated brass fittings
- Dependable fittings, leak-tight seal and resistant to loosening caused by vibration
- Swivel fitting on the 4-inch end of the air supply side for maximum directional flexibility
- Non-swivel fitting on the 20-inch end of the tool side improves vibration resistance for safe connection
- Silicone-free materials

Applications

Air tools, assembly lines and work stations, automotive repair and body shops

Material

Polyurethane (ester-based)

Specifications

Maximum Working Pressure:

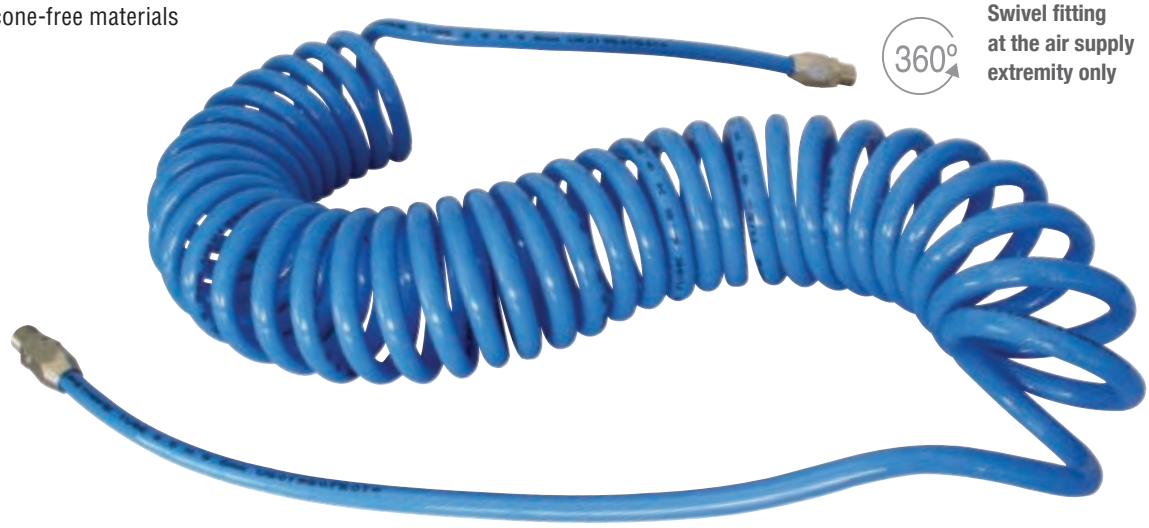
1/4: 132 PSI at 23 °C
3/8: 143 PSI at 23 °C
Maximum working pressure decreases as air temperature increases

Working Temperature Range: -20 to 70 °C

Durometer: Shore A 98

Recommended Working Length: 80% of total length





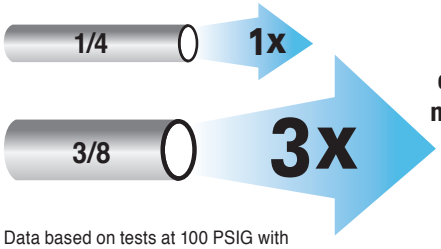
Swivel fitting at the air supply extremity only

Self-storing hose assemblies with fittings

Product No	Hose I.D. in	Coil O.D. in	Total Length ft	Working Length ft	Fittings (M) NPT
14.610	1/4	2.8	15	12	1/4
14.620	1/4	2.8	25	20	1/4
14.650	1/4	2.8	50	40	1/4
14.724	3/8	3.1	25	20	1/4
14.754	3/8	3.1	50	40	1/4

TECH TIP

It is important to choose the proper interior hose diameter according to the airflow required for the application (see the reference table at the end of this Series)



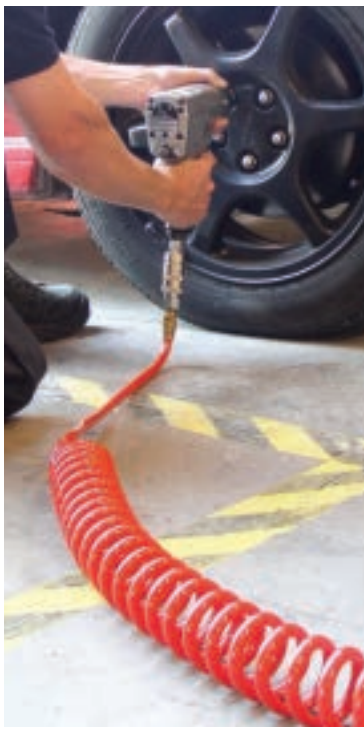
3/8 I.D. offers 3 times more flow than 1/4. I.D.

Data based on tests at 100 PSIG with 10 PSIG of pressure drops over a 25 feet hose

S17
FLEXCOIL
POLYURETHANE
SELF-STORING HOSES



ERGONOMICS



Features and benefits

- Ether-based polyurethane properties offer longer lifespan
- Offers little resistance to pull and automatically retracts
- Superior memory over a wide temperature range
- Excellent kink resistance
- Highly abrasion and moisture absorption resistance
- Lightweight - 25 % lighter than rubber hoses
- Superior elasticity and flexibility compared to nylon hose
- Smaller coil diameter - more compact and space-saving design
- Heavy-duty brass fittings at both ends
- Fittings with leak-tight seals resistant to loosening caused by vibrations
- Full flow swivel fittings for maximum directional flexibility
- Straight 20 inches and 4 inches tails for tangle-free tool operations
- Silicone-free materials

Applications

Assembly lines, air tools and work stations, automotive repair and body shops

Material

Polyurethane (ether-based)

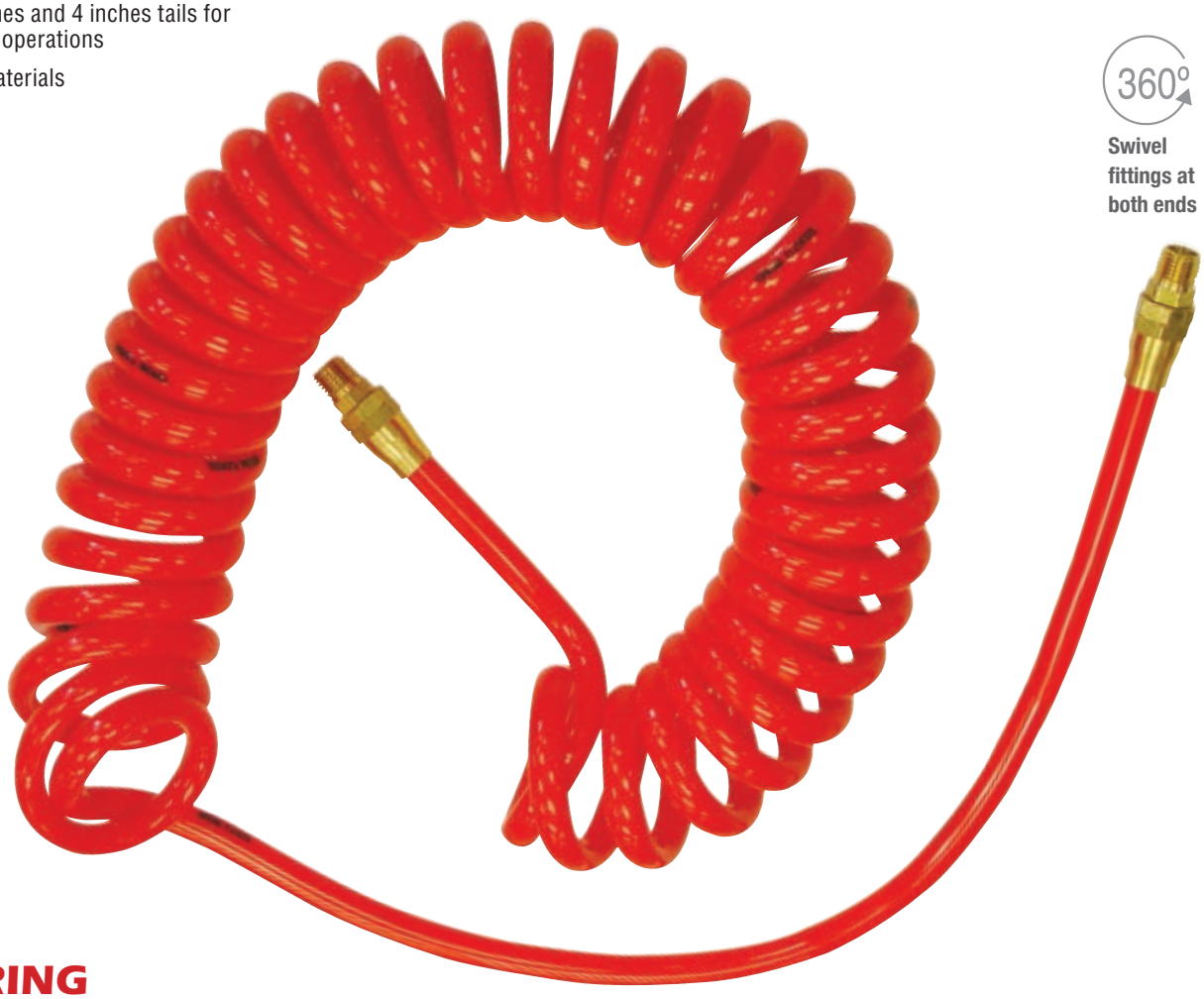
Specifications

Maximum Working Pressure: 140 PSI at 23 °C
Maximum working pressure decreases as air temperature increases

Working Temperature Range: -40 to 70 °C

Durometer: Shore A 98

Maximum Working Length: 80% of total length



360°

Swivel fittings at both ends

S17
FLEXCOIL

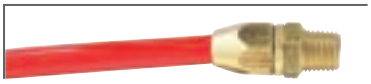
Self-storing hose assemblies with fittings

Product No RED	Product No BLUE	Hose I.D. in	Coil O.D. in	Total Length ft	Working Length ft	Fittings (M) NPT
17.610	17.610.07	1/4	2.1	15	12	1/4
17.615	17.615.07	1/4	2.1	20	16	1/4
17.620	17.620.07	1/4	2.1	25	20	1/4
17.625	17.625.07	1/4	2.1	30	24	1/4
17.650	17.650.07	1/4	2.1	50	40	1/4

Product No RED	Hose I.D. in	Coil O.D. in	Total Length ft	Working Length ft	Fittings (M) NPT
17.660	5/16 (8 mm)	2.5	15	12	1/4
17.670	5/16 (8 mm)	2.5	25	20	1/4
17.675	5/16 (8 mm)	2.5	30	24	1/4
17.690	5/16 (8 mm)	2.5	50	40	1/4

Product No RED	Hose I.D. in	Coil O.D. in	Total Length ft	Working Length ft	Fittings (M) NPT
17.710	3/8	3.1	15	12	3/8
17.714	3/8	3.1	15	12	1/4
17.715	3/8	3.1	20	16	3/8
17.719	3/8	3.1	20	16	1/4
17.720	3/8	3.1	25	20	3/8
17.724	3/8	3.1	25	20	1/4
17.725	3/8	3.1	30	24	3/8
17.729	3/8	3.1	30	24	1/4
17.750	3/8	3.1	50	40	3/8
17.754	3/8	3.1	50	40	1/4

Replacement swivel fittings



Product No	Hose I.D. in	Fittings (M) NPT
17.044	1/4	1/4
17.054	5/16 (8 mm)	1/4
17.064	3/8	1/4
17.066	3/8	3/8

Replacement fittings

1. After cutting the hose end straight insert the sleeve nut.



2. Press the barbed end of the fitting into the end of the hose until it seats against the thread base.



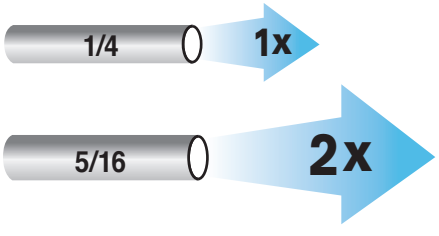
3. Slide the nut onto the fitting and tighten. Complete the installation by tightening the nut with the appropriate wrench until it reaches the fitting body.



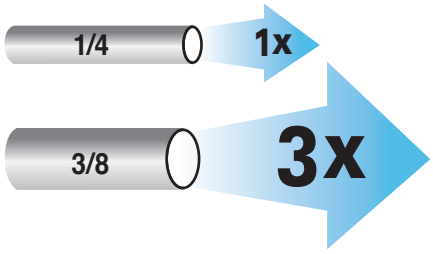
TECH TIP

It is important to choose the proper interior hose diameter according to the airflow required for the application (see the reference table at the end of this Series)

5/16 (8 mm) I.D. hose offers 2 times more flow than a 1/4. I.D.



3/8 I.D. hose offers 3 times more flow than a 1/4. I.D.



Data based on tests at 100 PSIG with 10 PSIG of pressure drop over a 25 feet hose

S19
SPARKCOIL
SPARK RESISTANT POLYURETHANE SELF-STORING HOSES



Features and benefits

- Polyurethane inner tube with a specially formulated flame retardant technopolymer cover designed to protect against sparks and hot metal chips
- Cover meets UL94-VO requirements and offers strong insulating properties
- Highly resistant to oils, greases, most acids, bases, aqueous solutions, ozone, heat aging and ultraviolet light
- Excellent abrasion resistance
- Excellent kink resistance and recoil memory
- Offers little resistance to pull and automatically recoils
- 4 inches and 20 inches tails for tangle-free tool operations
- Swivel fitting at supply connection allows maximum directional flexibility
- Non-swivel fitting at tool end ensures a safer connection and better vibration resistance
- Silicone-free materials

Applications

Excellent hose for welding shops, robotic welding, chemical plant, lubrication systems, painting systems, laboratories

Materials

Tube: Polyurethane

Cover: Flame retardant technopolymer

Specifications

Maximum Working Pressure: 143 PSI at 23 °C
Maximum working pressure decreases as air temperature increases

Working Temperature Range: -40 to 70 °C

Maximum Working Length: 80% of total length

Self-storing hose assemblies with fittings

Product No	Hose I.D. in	Coil O.D. in	Total Length ft	Working Length ft	Fittings (M) NPT
19.620	1/4	2.3	25	20	1/4
19.650	1/4	2.3	50	40	1/4



360°

Swivel fitting at the air supply extremity only

S11•14•17•19

REFERENCE TABLE FOR SELF-STORING HOSES

INTERIOR DIAMETER REQUIRED BY PNEUMATIC TOOL TYPES

To choose the proper self-storing hose internal diameter, it is important to know the consumption of the tool used (flow SCFM).
Use of a smaller than recommended self-storing hose size will result in a serious reduction of tool performance.



TOOL TYPES	FLOW SCFM	SELF-STORING HOSE HOSE LENGTH (ft)					
		12.5'	15'	20'	25'	30'	50'
NAILERS & STAPLERS							
18 gauge nailer/stapler	0.02 SCF/cycle	1/4	1/4	1/4	1/4	1/4	1/4
22-18 gauge stapler	0.03 SCF/cycle	1/4	1/4	1/4	1/4	1/4	1/4
Finishing nailer	0.03 SCF/cycle	1/4	1/4	1/4	1/4	1/4	1/4
Roofing nailer	0.05 SCF/cycle	1/4	1/4	1/4	1/4	1/4	1/4
Framing nailer	0.09 SCF/cycle	1/4	1/4	1/4	1/4	1/4	1/4
IMPACT TOOLS							
Miniature 1/4" ratchet	12.5	5/16	5/16	5/16	3/8	3/8	3/8
1/4" impact gun	14.0	5/16	5/16	3/8	3/8	3/8	3/8
3/8" ratchet	19.2	3/8	3/8	3/8	3/8	--	--
POLISHING TOOLS							
Orbital polisher	16.6	5/16	3/8	3/8	3/8	3/8	--
SANDERS							
Sander	9.6	5/16	5/16	5/16	5/16	5/16	3/8
4-1/2" angle grinder	18.4	3/8	3/8	3/8	3/8	--	--
10 mm belt sander	18.9	3/8	3/8	3/8	3/8	--	--
DRILLS							
3/8" air drill	17.3	3/8	3/8	3/8	3/8	--	--
OTHER TOOLS							
Riveter	0.08 SCF/cycle	1/4	1/4	1/4	1/4	1/4	1/4
Grease gun	0.8 SCF/cycle	1/4	1/4	1/4	1/4	1/4	1/4
Caulking gun	0.1	1/4	1/4	1/4	1/4	1/4	1/4
HVLP paint gun	9.5	5/16	5/16	5/16	5/16	5/16	3/8
Screw driver	9.6	5/16	5/16	5/16	5/16	5/16	3/8
Gravity fed sand blaster	12.0	5/16	5/16	5/16	3/8	3/8	3/8

NOTE:
- Data based on continuous consumption at 100 PSIG
- Average consumption (actual consumption may vary)
- Data for new self-storing hoses and exempt of contaminants (water, rust, dust)
- Data based on a maximum 5 PSIG pressure drops

Self-Storing Hose I.D. in	SCFM available at 100 PSI					
	Self-storing hose lenght (ft)					
	12.5'	15'	20'	25'	30'	50'
1/4	≤ 9.4	≤ 8.5	≤ 7.3	≤ 6.5	≤ 5.9	≤ 4.5
5/16 (8 mm)	≤ 17.2	≤ 15.6	≤ 13.4	≤ 11.8	≤ 10.7	≤ 8.1
3/8	≤ 28.2	≤ 25.6	≤ 21.9	≤ 19.4	≤ 17.6	≤ 13.3

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FLEXIBLE HOSES



S70 TO 78
FLEXIBLE HOSES

HOW TO CHOOSE A FLEXIBLE AIR HOSE ?

TOPRING offers several types of hose. The following questions help to select the right air hose.

- What is the required length of hose?
- What should be the inside diameter of the hose?
- What is the working pressure of the tool or equipment?
- What manufacturing material is best suited?
- Need for flexibility and ergonomics?

Each hose type has its distinct advantages and disadvantages; it simply has to be adapted to the needs of the user.

POINTS TO CONSIDER TO CHOOSE THE PROPER AIR HOSE

Length

The greater the distance between the tool and the air compressor, the greater the loss of air pressure. The use of the air tool and the movement required to use it must be considered. For example, a long hose should be chosen to easily paint a vehicle in a large bodyshop, while a short hose will be more suitable for a fixed work station with few movements.

The objective is to choose a length of hose to find a balance between the maximum manoeuvrability of the air tool and a minimal loss of pressure.

Inside diameter

Hoses are measured by their inside diameter (or I.D.).
The larger the inside diameter, the greater the amount of air transported (SCFM). Although the outside diameter of hoses varies considerably depending on the quality of the hose and the material used, the most common internal sizes are 1/4, 3/8 and 1/2 I.D.

The inside diameter of the hose must be chosen according to its length and the air consumption of the air tool. Tools such as nailers and staplers can very well be used with a 1/4 diameter hose as the flow rate to operate them is low. Hoses with larger I.D. will be required if the tools are operated at a high flow rate (eg impact tools).

It should be noted, however, that the I.D. will affect the overall weight of the hose, as each additional foot will accumulate over the distance.

The reference table on page 266 indicates the air flow rate (SCFM) obtained according to the length/diameter correlation of the hose.

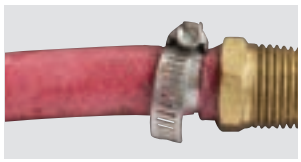
Maximum working pressure

The maximum working pressure of the hose must be greater than the working pressure of the tool or equipment.

Hose material

The material used to make the hose will drastically affect its flexibility, weight, performance and durability. If the hose material is not suitable for the working environment in which it is used, it will deteriorate rapidly. Here are some signs of a hose poorly suited hose to the environment or application:

- Cracking and breakage causing air leakage
- Premature aging
- Absorption of dirt
- Connection fault
- Cold weather hardening
- Softening due to heat
- Swelling and bursting





The fluids in contact with the hose must be compatible with its material (air, water, acids, oils, steam, etc.). In some environments this may be a critical element (eg food manufacturing, petroleum products, etc.)

The hose selection chart on page 268 and 269, illustrates the differences between the hoses and their degree of resistance to the elements which could contribute to their deterioration.

Flexibility and ergonomics

Some materials are more flexible than others. If using a tool requiring great dexterity of the user, it is preferable to choose a light hose (e.g. THERMOFLEX).



If the workspace is restricted, a self-storing hose stretching easily when additional length is required and resuming its shape after use is a better option.



Most **TOPRING** hoses are available with a hose reel. This is a practical solution to prevent them from being dragged on the ground (and avoid accidents).



S70 TO 78
FLEXIBLE HOSES

GENERAL RULES

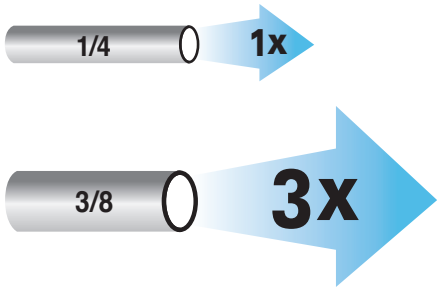
1. Select the actual length required for each hose
2. Each unnecessary hose foot increases pressure losses and costs
3. Use short, straight hoses as much as possible
4. Choose hose diameters as large as possible. Hoses with an internal diameter that is too small or too large will cause unnecessary pressure losses, require an increase in compressed air pressure and thus increase operating costs
5. One end of the hose should have a swivel connection fitting to avoid twisting during use
6. Hoses are specified by inside diameter. The hose barb installed inside the hose further reduces the diameter of the air passage, which adds to the pressure drop
7. It is recommended to select a hose larger than the inlet to minimize pressure loss (example : for a 1/4 (F) NPT inlet, the hose should have an internal diameter of at least 3/8)

Hose I.D. in	SCFM available at 100 PSI					
	25'	35'	50'	75'	100'	150'
1/4	≤ 7	≤ 6	≤ 5	≤ 4	≤ 3	≤ 3
5/16	≤ 13	≤ 10	≤ 9	≤ 7	≤ 6	≤ 5
3/8	≤ 20	≤ 17	≤ 14	≤ 12	≤ 10	≤ 8
1/2	≤ 43	≤ 36	≤ 30	≤ 25	≤ 22	≤ 17
3/4	≤ 125	≤ 105	≤ 88	≤ 72	≤ 62	≤ 50
1	≤ 265	≤ 224	≤ 188	≤ 153	≤ 133	≤ 108

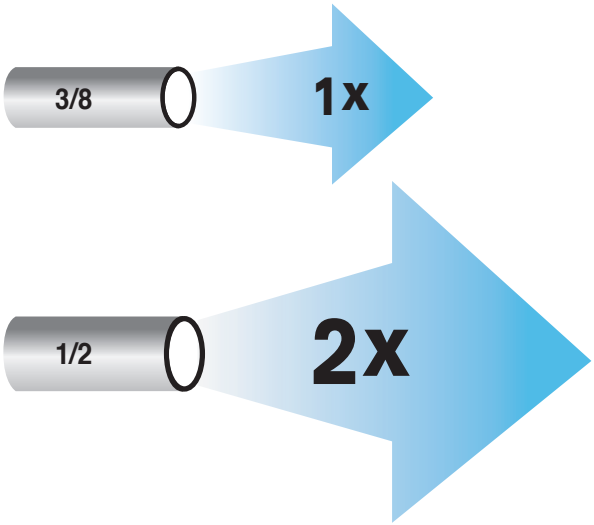
NOTE :

- Continuous consumption at 100 PSIG
- Average consumption (actual consumption may vary)
- Data for new air hoses and exempt of contaminants (water, rust, dust)
- Information based on 5 PSIG pressure drop

3/8 I.D. air hose offers 3 times more flow than a 1/4. I.D.



1/2 I.D. air hose offers 2 times more flow than a 3/8. I.D.



S70 TO 78
FLEXIBLE HOSES

REFERENCE CHART

Minimum air hose size per length size and flow








TOOL TYPE	FLOW SCFM	HOSE LENGTH					
		25'	35'	50'	75'	100'	150'
NAILERS/STAPLERS							
18 gauge nailer/stapler	0.02 SCF/cycle	1/4	1/4	1/4	1/4	1/4	1/4
22-18 gauge stapler	0.03 SCF/cycle	1/4	1/4	1/4	1/4	1/4	1/4
Finishing nailer	0.03 SCF/cycle	1/4	1/4	1/4	1/4	1/4	1/4
Roofing nailer	0.05 SCF/cycle	1/4	1/4	1/4	1/4	1/4	1/4
Framing nailer	0.09 SCF/cycle	1/4	1/4	1/4	1/4	1/4	1/4
IMPACT TOOLS							
Miniature 1/4" ratchet	12.5	3/8	3/8	3/8	1/2	1/2	1/2
1/4" impact gun	14.0	3/8	3/8	3/8	1/2	1/2	1/2
3/8" ratchet	19.2	3/8	1/2	1/2	1/2	1/2	3/4
Zip gun	21.9	1/2	1/2	1/2	1/2	3/4	3/4
1/2" impact gun	28.6	1/2	1/2	1/2	3/4	3/4	3/4
3/4" impact gun	34.7	1/2	1/2	3/4	3/4	3/4	3/4
1" impact gun	87.5	3/4	3/4	3/4	1	1	1
POLISHING TOOLS							
Orbital polisher	16.6	3/8	3/8	1/2	1/2	1/2	1/2
Oscillating sander	23.0	1/2	1/2	1/2	1/2	3/4	3/4
SANDERS							
Sander	9.6	5/16	5/16	3/8	3/8	3/8	1/2
4-1/2" angle grinder	18.4	3/8	1/2	1/2	1/2	1/2	3/4
10mm belt sander	18.9	3/8	1/2	1/2	1/2	1/2	3/4
7" angle sander	29.6	1/2	1/2	1/2	3/4	3/4	3/4
DRILLS							
3/8" air drill	17.3	3/8	1/2	1/2	1/2	1/2	1/2
3/8" reversible air drill	23.8	1/2	1/2	1/2	1/2	3/4	3/4
1/2" reversible air drill	26.4	1/2	1/2	1/2	3/4	3/4	3/4
OTHER TOOLS							
Riveter	0.08 SCF/cycle	1/4	1/4	1/4	1/4	1/4	1/4
Grease gun	0.8 SCF/cycle	1/4	1/4	1/4	1/4	1/4	1/4
Caulking gun	0.1	1/4	1/4	1/4	1/4	1/4	1/4
HVLP paint gun	9.5	5/16	5/16	3/8	3/8	3/8	1/2
Screw driver	9.6	5/16	5/16	3/8	3/8	3/8	1/2
Gravity fed sand blaster	12.0	3/8	3/8	3/8	1/2	1/2	1/2

S70 TO 78
FLEXIBLE HOSES

AIR HOSE SELECTION GUIDE

To ensure maximum performance and service:

- Select the right hose type for the job, based on the environment, conditions and the way in which the hose is to be used
- Choose hose diameter size based on the tool consumption and length (see the selection guide page 267)
- Keep the hose as short as possible for the application
- Use a hose reel where possible so that the hose will not harm anyone



	SERIES 71 MAXPRO	SERIES 71 AIRFLEX® Premium	SERIES 75 SUPERFLEX®	SERIES 77 TOPFLEX®
Material	RUBBER			
	NR / Neoprene	EPDM	Nitrile	Synthetic
Color	Red	Red	Red	Black
Flexibility (+20 °C)	✔ ✔ ✔	✔ ✔ ✔	✔ ✔ ✔	✔ ✔ ✔
Cold Temperature Performance (-20 °C)	❄ ❄	❄ ❄ ❄	❄ ❄	❄ ❄
Oil Resistance(Cover)	♦ ♦	♦ ♦	♦ ♦ ♦ ♦	♦ ♦ ♦ ♦
Toughness	+ + +	+ + + +	+ + + +	+ + + + +
Maximum Working Pressure	**300 PSI**	**250 PSI**	**250 PSI**	**250 PSI**
Sizes Available	**3/8**	**1/4 - 3/8 - 1/2**	**5/16 - 3/8 1/2 - 3/4 - 1**	**1/4 - 3/8 - 1/2**
Main Features	• Economical • Abrasion resistant • Ozone resistant	• Abrasion resistant	• Lightweight • High resistance to oils • Non-conductive 1000 VDC	• Lightweight • Good resistance to oil • Spark resistance • « LOCK-ON » fittings
Fluids	Air, water	Air, water	Air, water, oils, lubricating oils	Air, water, petroleum-base hydraulic oils, glycol
Applications	• General industrial • Construction • Agriculture	• General industrial • Construction • Agriculture	• General industrial • Automotive repair shops • Paint shops	• General industrial • Automotive repair shops
Working Temperature	-40 °C to 82 °C	-40 °C to 100 °C	-40 °C to 100 °C	-40 °C to 100 °C

S70 TO 78
FLEXIBLE HOSES

AIR HOSE SELECTION GUIDE



SERIES 70 FLEXhybrid®	SERIES 70 ECOFLEX®	SERIES 72 THERMOFLEX®	SERIES 72 EASYflex® PREMIUM	SERIES 73 NYFLEX®	SERIES 74 FLEXAIR®	SERIES 78 TOPMAX®
TECHNOPOLYMER				PVC	POLYURETHANE	
					Ester	Ester
Red	Orange	Blue	Yellow / Red / Blue	Clear	Orange	Yellow
✔✔✔✔	✔✔✔✔	✔✔✔	✔✔✔✔✔	✔✔✔	✔✔✔✔	✔✔✔✔
❄❄	❄❄❄❄	❄❄❄	❄❄❄❄❄	❄	❄❄❄❄	❄❄❄❄
♦♦♦♦	♦♦	♦♦♦	♦♦	♦♦	♦♦♦	♦♦♦
✚✚	✚✚	✚✚✚	✚✚✚	✚✚✚	✚✚✚✚	✚✚✚✚
300 PSI	**300 PSI**	**Up to 300 PSI**	**300 PSI**	**Up to 250 PSI**	**200 PSI**	**250 PSI**
1/4 - 3/8 - 1/2	**1/4 - 3/8**	**1/4 - 3/8 1/2 - 3/4**	**1/4 - 3/8 - 1/2**	**1/4-3/8-1/2-5/8 3/4-1-1-1/4-1-1/2**	**1/4 - 3/8**	**1/4**
• Economical • Excellent flexibility • Lightweight • Oil resistant	• Flexible at low temperature • Easy to handle • Economical • RoHS • No silicone	• Excellent abrasion resistant • Lightweight • RoHS • No silicone	• The most flexible at low temperature • Extremely easy to handle • Lightweight • RoHS • No silicone	• Crystal clear • NSF-51 certified material • Lightweight • RoHS • No silicone	• Very flexible and lightweight • Excellent resistance to abrasion • Reusable swivel fittings • RoHS • No silicone	• Very flexible and lightweight • Excellent resistance to abrasion • Reusable swivel fittings • RoHS • No silicone
Air	Air	Air, water	Air, water	Air, water	Air	Air
• Ideal for in-plant applications • Excellent for air tools	• Construction • General industrial	• In-plant and outdoor applications • Excellent for air tools • Excellent for paint spray systems	• Outdoor usage in extreme cold • Construction • General industrial	• Air and water lines • Food and beverage lines	• Indoor and outdoor applications • Construction • General industrial	• Indoor and outdoor applications • Construction
-10 °C to 60 °C	-40 °C to 65 °C	-26 °C to 65 °C	-54 °C to 65 °C	-5 °C to 65 °C	-40 °C to 60 °C	-40 °C to 74 °C

S70

FLEXhybrid®

FLEXIBLE TECHNOPOLYMER AIR HOSES

Features and benefits

- Engineered hybrid polymer combining best features from PVC and rubber
- Excellent flexibility
- Lightweight
- Good resistance to oils, heat, ozone and abrasion
- Easy to unroll and rewind
- Economical

Applications

General industrial, automotive, repair shops

Materials

Cover and Tube: Synthetic polymer

Reinforcement: High tensile polyester yarns

Fittings: Brass

Specifications

Maximum WOrking Pressure: 300 PSI

Working Temperature: -10 to 60 °C



Hose available with various hose reels: TopReel, FlexReel, MAXREEL and Rolair

See Series 79 page 295 for more details





Hose length **Product No**		Hose I.D. in	Fittings (M) NPT
25 ft	50 ft		
70.115	**70.119**	1/4	1/4
70.316	**70.318**	3/8	1/4
70.415	**70.419**	1/2	3/8

WARNING

Prevent dangerous hose whips by adding a HOSEGUARD® safety valve on the air hose.

See details on page 251



S70

ECOFLEX®

FLEXIBLE TECHNOPOLYMER AIR HOSES

Features and benefits

- High quality technopolymer air hose with excellent flexibility
- Very good performance in cold weather (-40°C)
- 35% lighter than rubber air hoses
- Non-marking outer cover
- Excellent abrasion resistance
- Pin pricked cover allows venting of air to prevent ballooning and eventual bursting
- Cover with medium/high resistance to oil (RMA-Class B)
- Easily recoiled / No memory
- Guard bend restrictor at both ends to extend the life of the air hose
- RoHS compliant
- Silicone-free

COMPLIANT RoHS Restrictions of Hazardous Substances

Applications

Construction, general industrial

Materials

Cover and Tube: Technopolymer

Reinforcement: High tensile polyester yarns

Fittings: Brass

Specifications

Maximum Working Pressure: 300 PSI

Working Temperature: -40 to 65 °C



Hose available with MAXREEL hose reel

See Series 79 page 294 for more details







Product No	Length ft	Hose I.D. in	Fittings (M) NPT
70.136	25	1/4	1/4
70.132	35	1/4	1/4
70.138	50	1/4	1/4
70.140	100	1/4	1/4
70.332	35	3/8	1/4
70.336	25	3/8	1/4
70.338	50	3/8	1/4
70.340	100	3/8	1/4

Hose assemblies with 1/4 INDUSTRIAL coupler and plug

Product No	Length ft	Hose I.D. in	Fittings (M) NPT
70.137	25	1/4	1/4
70.139	50	1/4	1/4
70.141	100	1/4	1/4
70.337	25	3/8	1/4
70.339	50	3/8	1/4
70.341	100	3/8	1/4

WARNING

Prevent dangerous hose whips by adding a HOSEGUARD® safety valve on the air hose.

See details on page 251



S71
MAXPRO®
RUBBER AIR HOSES

Features and benefits

- Heavy duty for professional use
- High tensile polyester yarns reinforcement reduce elongation under pressure
- Cover with medium oil resistance (RMS-Class C)
- Ozone and abrasion resistant
- Guard bend restrictor at both ends to extend the life of the air hose
- Good flexibility
- Economical
- Compatible with water

Applications

General use in garages, workshops, plant and agricultural applications

Materials

Cover and Tube: NR/Neoprene

Reinforcement: High tensile polyester yarns

Fittings: Brass

Specifications

Maximum Working Pressure: 300 PSI

Working Temperature: -40 to 82 °C





Product No	Length ft	Hose I.D. in	Fittings (M) NPT
71.375	25	3/8	1/4
71.379	50	3/8	1/4

WARNING

Prevent dangerous hose whips by adding a HOSEGUARD® safety valve on the air hose.

See details on page 251



S71

AIRFLEX® Premium
RUBBER AIR HOSES

Features and benefits

- Quality general purpose flexible rubber air hose
- Cover with medium oil resistance (RMA-Class C)
- Tube resistant to oil mist contained in compressed air
- Excellent resistance to abrasion
- Good resistance to cold, heat and ozone
- Guard bend restrictor at both ends on 3/8 in inside diameter hoses to extend the life of the air hose
- Long lasting
- Compatible with water

Applications

Excellent for air tools. General industrial, construction and agricultural applications

Materials

Cover and Tube: EPDM

Reinforcement: High tensile polyester yarns

Fittings: Brass

Specifications

Maximum Working Pressure: 250 PSI

Working Temperature: -40 to 100 °C



Hose available with various hose reels: SteelPro, TopReel and TopReel HD / See Series 79 for more details





Hose length **Product No**					Hose I.D. in	Fittings (M) NPT
15 ft	25 ft	35 ft	50 ft	100 ft		
71.111	**71.114**	**71.116**	**71.118**	**71.150**	1/4	1/4
71.311•	**71.314•**	**71.316•**	**71.318•**	**71.350•**	3/8	3/8
71.312•	**71.315•**	**71.317•**	**71.319•**	**71.355•**	3/8	1/4
71.411	**71.414**	**71.416**	**71.418**	**71.450**	1/2	1/2
71.412	**71.415**	**71.417**	**71.419**	**71.453**	1/2	3/8

• With guard bend restrictors

WARNING

Prevent dangerous hose whips by adding a HOSEGUARD® safety valve on the air hose.

See details on page 251





Reels

Product No	Hose Length ft	Hose I.D. in	Hose O.D. in	Weight kg/100 ft
71.113	800	1/4	0.508	4.5
71.313	700	3/8	0.656	6.3
71.410	500	1/2	0.844	10.0

S72

THERMOFLEX®
TECHNOPOLYMER AIR HOSES

COMPLIANT RoHS Restrictions of Hazardous Substances

Features and benefits

- High quality flexible PVC compound keeps its flexibility even in cold weather (an alternative to rubber)
- Ideal for applications in contact with paints and solvents
- Lightweight and flexible for easy handling
- Easily recoils after use / No memory
- Excellent abrasion resistance
- Non-marking pin pricked cover allows venting of air to prevent ballooning and eventual bursting
- Guard bend restrictor at both ends on 1/4 in and 3/8 in inside diameter hoses to extend the life of the air hose
- Resistant to climatic conditions, UV rays and chemicals
- Cover with medium/high resistance to oil (RMA – Class B)
- Water compatible
- Silicone-free
- RoHS compliant

Applications

Ideal for factory applications

Excellent for air tools and spray paint systems

Materials

Cover and Tube: PVC compound

Reinforcement: High tensile polyester yarns

Fittings: Brass

Specifications

Maximum Working Pressure:
300 PSI • 3/4 : 250 PSI

Working Temperature: -26 to 60 °C



Hose available TopReel HD hose reel / See Series 79 page 291 fo more details





Hose length **Product No**				Hose I.D. in	Fittings (M) NPT
25 ft	35 ft	50 ft	100 ft		
72.114•	**72.116•**	**72.118•**	**72.150•**	1/4	1/4
72.314•	**72.316•**	**72.318•**	**72.350•**	3/8	3/8
72.315•	**72.317•**	**72.319•**	**72.355•**	3/8	1/4
72.414	**72.416**	**72.418**	**72.450**	1/2	1/2
72.415	**72.417**	**72.419**	**72.455**	1/2	3/8
72.520	--	**72.560**	**72.580**	3/4	3/4

• With guard bend restrictors

WARNING

Prevent dangerous hose whips by adding a HOSEGUARD® safety valve on the air hose.

See details on page 251





Reels

Product No	Hose Length ft	Hose I.D. in	Hose O.D. in	Weight kg/100 ft
72.100	500	1/4	0.475	3.2
72.310	500	3/8	0.600	4.3
72.410	500	1/2	0.750	6.3
72.610	300	3/4	1.125	13.6

S72

EASYflex® *PREMIUM* FLEXIBLE TECHNOPOLYMER AIR HOSES

COMPLIANT RoHS Restrictions of Hazardous Substances

Features and benefits

- Engineered to be tough and ultra-flexible at extremely low temperatures
- The physical properties and unique design of this hose make it more efficient than other general PVC and rubber hoses in cold weather
- Easily recoils after use, no memory
- 35 % lighter than rubber for easy handling
- Non-marking pin pricked cover allows venting of air to prevent ballooning and eventual bursting
- Guard bend restrictor at both ends to extend the life of the air hose
- Excellent abrasion resistance
- Cover with medium/high resistance to oil (RMA – Class B)
- Water compatible
- Silicone-free
- RoHS compliant

Applications

In industrial, automotive and especially on construction sites where flexibility is required at very cold temperatures

In plants where the presence of toxic materials is undesirable and where controlled refrigeration or freezing temperatures are required

Materials

Cover: Technopolymer compound

Reinforcement: : High tensile strength polyester yarns to reduce elongation under pressure

Tube: High grade technopolymer compound

Fittings: Brass

Specifications

Maximum Working Pressure: 300 PSI

Working Temperature: -54 to 65 °C



Hose available with PolyReel hose reel
See Series 79 page 302 for more details





Hose Length **Product No**				Hose Color		Hose I.D. in	Fittings (M) NPT
25 ft	35 ft	50 ft	100 ft				
72.164	**72.166**	**72.168**	**72.170**	Yellow		1/4	1/4
72.364	**72.366**	**72.368**	**72.370**	Yellow		3/8	1/4
72.324	**72.326**	**72.328**	**72.330**	Red		3/8	1/4
72.384	**72.386**	**72.388**	**72.390**	Blue		3/8	1/4
72.464*	**72.466***	**72.468***	**72.470***	Yellow		1/2	1/2
72.465*	**72.467***	**72.469***	**72.471***	Yellow		1/2	3/8

*Without guard



Hose assemblies with 1/4 INDUSTRIAL coupler and plug

Hose Length **Product No**		Hose Color		Hose I.D. in
25 ft	50 ft			
72.165	**72.169**	Yellow		1/4
72.365	**72.369**	Yellow		3/8
72.325	**72.329**	Red		3/8
72.385	**72.389**	Blue		3/8



Reels

Hose Length **Product No**		Hose Color		Hose I.D. in	Hose O.D. in	Weight kg/100 ft
72.160	700	Yellow		1/4	0.500	3.6
72.360	700	Yellow		3/8	0.625	4.5
72.320	700	Red		3/8	0.625	4.5
72.380	700	Blue		3/8	0.625	4.5
72.460	500	Yellow		1/2	0.781	6.8

S73

NYFLEX®
GENERAL PURPOSE PVC AIR HOSE

Food Grade NSF Certified under NSF-51 Standard

COMPLIANT RoHS Restrictions of Hazardous Substances



Features and benefits

- General purpose PVC air and water hose
- Lightweight and flexible with non-marking cover
- Ozone and climatic conditions resistance
- Chemical resistance
- Clear and smooth inner tube
- Certified under NSF-51 Standard (food equipment materials)
- Silicone-free
- RoHS compliant

Applications

Air and water lines, glue lines, lubrication lines, packaging machines, food and beverages

Material

Cover and Tube: Clear PVC compound

Reinforcement : Spiral polyester yarn with additional longitudinal yarn to reduce elongation under pressure

Fittings: Brass

Specifications

Maximum Working Pressure:
1/4 : 250 PSI • 3/8 : 225 PSI • 1/2 and 5/8 : 200 PSI
3/4 : 150 PSI • 1 : 125 PSI • 1-1/4 and 1-1/2 : 100 PSI

Working Temperature: -4 to 65 °C





Hose Length Product No			Hose I.D. in	Fittings (M) NPT
25 ft	50 ft	100 ft		
73.114	**73.118**	**73.150**	1/4	1/4
73.314	**73.318**	**73.350**	3/8	3/8
73.315	**73.319**	**73.355**	3/8	1/4
73.414	**73.418**	**73.450**	1/2	1/2

Coils

Product No	Hose Length ft	Hose I.D. in	Hose O.D. in	Weight kg/100 ft
73.100	300	1/4	0.438	2.7
73.300	300	3/8	0.594	4.0
73.400	300	1/2	0.750	5.9
73.500	300	5/8	0.891	8.1
73.600	200	3/4	1.031	9.9
73.700	200	1	1.300	13.6
73.800	100	1-1/4	1.620	20.4
73.900	100	1-1/2	1.938	29.0



Reels

Product No	Hose Length ft	Hose I.D. in	Hose O.D. in	Weight kg/100 ft
73.110	500	1/4	0.438	2.7
73.310	500	3/8	0.594	4.0
73.410	500	1/2	0.750	5.9

S74

FLEXAIR®
POLYURETHANE AIR HOSES

COMPLIANT RoHS
Restrictions of Hazardous Substances

Features and benefits

- Excellent ageing properties last up to 10 times longer than conventional rubber hose
- Lightweight and flexible hose; contributes to the prevention of work-related injuries
- 50% lighter than rubber air hoses
- Excellent resistance to oils, grease, solvents and abrasion
- Excellent resistance to cold, weathering, sunlight and ozone
- Superior resistance to cuts and punctures
- Non-marking cover
- Highly kink resistant
- Guard bend restrictor at both ends to extend the life of the air hose
- Silicone-free
- RoHS compliant

Applications

Ideal for outdoor and indoor applications

Excellent for air tools such as nailers and staplers

Material

Cover and tube: Ester base polyurethane

Reinforcement: High tensile polyester yarns

Fittings: Nickel plated brass

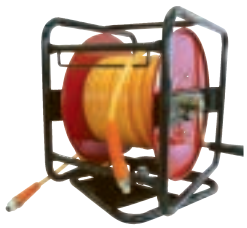
Specifications

Maximum Working Pressure: 200 PSI

Working Temperature: -40 to 60 °C

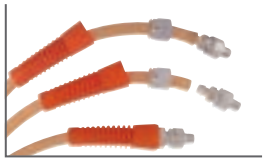


Hose available with PolyReel hose reel / See Series 79 page 303 for more details





Hose Length **Product No**			Hose I.D. in	Hose O.D. in	Fittings (M) NPT	Fittings type
25 ft	50 ft	100 ft				
74.163	**74.167**	**74.169**	1/4	0.375	1/4	Non-swivel
74.364	---	---	3/8	0.562	1/4	Swivel



Replacement swivel fitting with guard bend restrictor

360°

Product No	Hose I.D. in	Fitting (M) NPT
74.830	1/4	1/4

S75

SUPERFLEX®
HIGH OIL RESISTANCE RUBBER HOSES

Features and benefits

- High quality hose offering maximum resistance to oils, gasoline, kerosene, fuel oils, lubricating oils and other petroleum based products
- Good resistance to paint and solvents; ideal for paint shop applications
- Good flexibility
- Tube with high resistance to oils (RMA-Class A)
- Cover with medium/high resistance to oil (RMA – Class B)
- Ozone and climatic conditions resistance
- Excellent abrasion resistance
- Performs well at both high and low temperatures
- Dielectric
- Water compatible

Applications

Excellent for air tools

Ideal in environments where oils, gasoline and solvents are present

General industrial and automotive repair shops

Material

Cover: Nitrile (type C2)

Reinforcement : High tensile textile cord

Tube: Nitrile (type C)

Fittings: Brass

Specifications

Maximum Working Pressure: 250 PSI

Working Temperature: -40 to 100 °C

Electrical Conductivity: Non-conductive at 1000 volts D.C.



Hose available with various hose reels: SteelPro, TopReel and TopReel HD / See Series 79 for more details





Hose Length **Product No**				Hose I.D. in	Fittings (M) NPT
25 ft	35 ft	50 ft	100 ft		
75.314	--	**75.318**	**75.350**	3/8	3/8
75.315	**75.317**	**75.319**	**75.355**	3/8	1/4
75.414	--	**75.418**	**75.450**	1/2	1/2
75.415	--	**75.419**	**75.453**	1/2	3/8
75.525	**75.535**	**75.560**	**75.600**	3/4	3/4
75.625	--	**75.660**	**75.680**	1	1

WARNING

Prevent dangerous hose whips by adding a HOSEGUARD® safety valve on the air hose.

See details on page 251





Reels

Product No	Hose Length ft	Hose I.D. in	Hose O.D. in	Weight kg/100 ft
75.210	500 to 750	5/16	0.62	4.5
75.310	500 to 700	3/8	0.66	6.3
75.410	500 to 700	1/2	0.85	9.9
75.610	500 to 700	3/4	1.09	16.3
75.710	300 to 525	1	1.38	24.5

S77

TOPFLEX®
« LOCK-ON »
RUBBER AIR HOSES

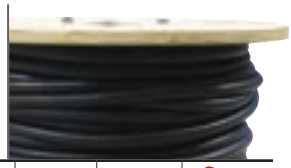
Features and benefits

- Lightweight and flexible « LOCK-ON » hoses simplify maintenance
- Flame retardant cover protects hose in presence of hot chips and sparks
- Cover with medium oil resistance (RMA-Class B)
- Tube extremely resistant to oils and heat (RMA-Class A)
- Excellent abrasion resistance
- Performs well at both high and low temperatures
- Dielectric
- Water compatible



Hose length **Product No**					Hose I.D. in	Fittings (M) NPT
15 ft	25 ft	35 ft	50 ft	100 ft		
77.121	**77.125**	**77.126**	**77.128**	**77.130**	1/4	1/4
77.331	**77.335**	**77.336**	**77.338**	**77.340**	3/8	3/8
77.341	**77.345**	**77.346**	**77.348**	**77.350**	3/8	1/4
77.431	**77.435**	**77.436**	**77.438**	**77.440**	1/2	1/2
77.441	**77.445**	**77.446**	**77.448**	**77.450**	1/2	3/8

Reels



Product No	Length ft	Hose I.D. in	Hose O.D. in	Weight kg/100 ft
77.110	600	1/4	0.47	3.6
77.310	600	3/8	0.63	4.9
77.410	600	1/2	0.77	6.8

Applications

Excellent hose for air tools in factories and automotive repair shops

Other applications in presence of petroleum-base hydraulic oils, glycol and lubricating oils

Material

Cover: Neoprene (type C2)

Reinforcement: Braided high tensile textile cord

Tube: Synthetic rubber (nitrile - type C)

Fittings: Brass

Specifications

Maximum Working Pressure: 250 PSI

Working Temperature: -40 to 100 °C

Electrical Conductivity: Non-conductive at 1000 volts D.C.



Hose available with various hose reels: SteelPro, TopReel and TopReel HD / See Series 79 for more details



RECOMMENDED FITTINGS



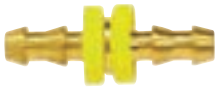
Hose barb to male pipe
Brass

Product No	Hose I.D. in	Thread (M) NPT
41.860	1/4	1/8
41.861	1/4	1/4
41.877	1/4	3/8
41.862	3/8	1/4
41.863	3/8	3/8
41.864	3/8	1/2
41.866	1/2	3/8
41.867	1/2	1/2



Hose barb to female pipe
Brass

Product No	Hose I.D. in	Thread (F) NPT
41.871	1/4	1/4
41.872	3/8	1/4
41.873	3/8	3/8
41.874	1/2	3/8
41.875	1/2	1/2



Splicer
Brass

Product No	Hose I.D. in
41.880	1/4
41.881	3/8
41.882	1/2



1/4 INDUSTRIAL plug
Zinc plated steel

Product No	Hose Barb (lock-on)
20.345	1/4
20.365	3/8



To replace a « LOCK-ON » fitting, simply cut the hose straight and insert the « LOCK-ON » fitting

S78

TOPMAX®
POLYURETHANE AIR HOSES

ERGONOMICS

COMPLIANT RoHS Restrictions of Hazardous Substances

Features and benefits

- Excellent flexibility
- Lighter, more durable and more chemical resistant than any other air hoses material
- Ergonomically designed to contribute to the prevention of work-related injuries
- 75% lighter than rubber air hoses and 50% lighter than PVC air hoses
- Excellent resistance to lubricating oils, grease and solvents
- Excellent resistance to UV rays, weathering and ozone
- High abrasion resistance
- Superior resistance to cuts
- Reusable full flow swivel fittings for maximum directional flexibility
- Flexible guard bend restrictor at both ends to extend the life of the air hose
- Non-marking cover
- Silicone-free
- RoHS compliant

Applications

Excellent for air tools such as nailers and staplers, assembly line using compressed air, painting equipment

Material

Cover and Tube: Ester base polyurethane

Reinforcement: Synthetic polyester yarns

Fittings: Brass

Specifications

Maximum Working Pressure: 250 PSI

Working Temperature: -40 to 74°C



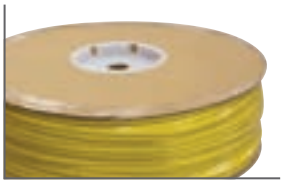
Swivel fitting at both ends

Product No Hose length			Hose I.D. in	Fittings (M) NPT
25 ft	50 ft	100 ft		
78.114	**78.118**	**78.150**	1/4	1/4



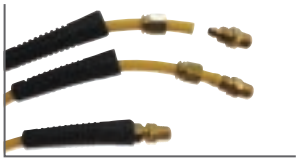
Hose assemblies with 1/4 INDUSTRIAL coupler and plug

Product No	Hose Length ft	Hose I.D. in	Fittings (M) NPT
78.119	50	1/4	1/4



Reel

Product No	Hose Length ft	Hose I.D. in	Hose O.D. in	Weight kg/100 ft
78.110	300	1/4	0.385	1.6



Replacement swivel fitting with guard bend restrictor

Product No	Hose I.D. in	Fittings (M) NPT
78.825	1/4	1/4

The **HOSEGUARD®** safety valves offer a simple and efficient protection for the users

When a pressurized hose is ruptured, the hose blows compressed air in an uncontrollable manner. Like a whip, it can damage production or cause serious injuries to users.



The **HOSEGUARD®** safety valve offers a simple and efficient protection in the event of a breakage in thecompressed air system, a disconnection or a rupture of a pressurised air hose.



SAFETY

General features

- Safe, reliable and tamperproof
- Easy to install and maintenance free
- Meet OSHA Regulation Standard 29CFR 1926.302 (Partial)
- Meet ISO Standard 4414-11 (5.4.5.11.1)

See pages 251 to 254 for more details on the **HOSEGUARD®** safety valves

See the video « **HOSEGUARD®** » on **TOPRING**.com

S79
HOSE REELS



S79
HOSE REELS

WHY USE A HOSE REEL ?

Hose reels increase the safety and efficiency of using a hose. Whether for use in a manufacturing plant, automotive maintenance shop or on a construction site, all users benefit from using a reel.

How to recognize the loss of efficiency?

- Do users regularly trip over hoses lying on the floor?
- Are users annoyed by poorly positioned fixed hoses?
- Are hoses long enough to answer users' needs?
- Do worn hoses represent high expenses?
- Is there leakage in the hoses used?
- Could there be a better way to store hoses than rolled up on the floor or on a bench?

PROBLEMS



Stumbles due to hoses lying on the ground often occur in the workshop. They increase the risk of injury and equipment damage.

HOSE REELS OFFER A MORE CONVENIENT AND SAFER METHOD OF HANDLING AND STORING HOSES

Reduction of hose wear

- Hoses are kept out of the way when not in use
- Only the needed length is pulled out of the reel when working
- Hoses stay cleaner
- Hoses, couplers and tools last longer reducing maintenance costs

Improved accessibility for users

Hose reels can be attached to the ceiling, wall, floor or under the work table. The tools are easy to access thanks to the adjustable length of the hoses. Users lose less time in untangling.

Safer for users

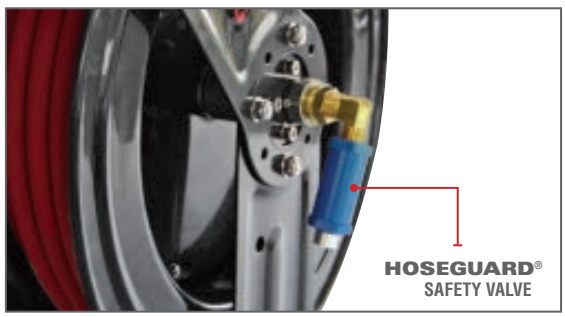
In addition to being an ergonomic solution, having fewer hoses dragging on the ground reduces the risk of stumbling to users. Hose reels also reduce the risk of tools falling on the ground and increase their service life.

For maximum safety, it is recommended to use a hose reel with **HOSEGUARD®** anti-hose whip safety valve. In the event of a hose breakage, the valve cuts the air flow in a way that is safe for the user. See TopReel HD with **HOSEGUARD®** page 292

SOLUTION



Hose reels prevent kinking and tangling, increase efficiency for users and make the use of hoses safer.



S79

POINTS TO CONSIDER TO CHOOSE AN HOSE REEL

Frequency of use

- Intensive use – Choose a heavy-duty model
- Regular use – Choose an industrial model
- Occasional use – Choose a professional model

Retraction mode

- **Automatic rewind - Spring driven requires no effort**
  The user guides the hose as it retracts itself around the hose reel drum. Automatic rewind easily wraps and stores the hose.
- **Manual rewind - Hand crank**
  The user must manually crank the reel and guide the hose evenly as it wraps around the hose reel drum.

Open or closed model

An open reel model provides better visibility and ease of access for cleaning, while a closed reel protects the hose and internal components better.

The choice of a closed or open model is purely a matter of the user's preference.

Hose and hose reel material

The type of industry in which the hose reel will be used will influence the choice of the reel material. For example, in a food manufacturing industry, a stainless steel reel should be chosen.

Installation height of the hose reel

To avoid unnecessary maintenance costs, it is preferable to choose a quality hose reel, especially if it is installed in a location that is more difficult to access (e.g. in height). Its hose must be of quality, suitable for the application and be the least elastic possible.

SELECTION CRITERIA FOR HOSES

Length of the hose

The distance between the hose and the compressor must always be as short as possible to avoid pressure losses. When considering the overall length of the hose, the distance between the mounting location of the hose reel and the working station and the length of use required to perform the movements must be taken into account.

Inside diameter of the hose

The required air flow (cubic foot or SCFM) at the outlet of the reel must be large enough to operate the tools and equipment. The amount of air is determined by the length of the hose and its inside diameter. It is preferable to choose the largest diameter possible.

Maximum working pressure

The maximum working pressure of the hose must be greater than the working pressure of the tool or equipment.

Material of the hose

The fluids transported or in contact with the hose must be compatible with its material (air, water, acids, oils, steam, etc.). In some environments this may be a critical element (e.g., food manufacturing, petroleum products, etc.). The hose selection table on pages 268-269 illustrates the differences between the hoses and their degree of resistance to the elements that can contribute to their deterioration.

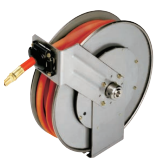


Why should someone settle for a low cost hose reel?

It can be a good choice if…

- Price is the only decision criterion
- Use is very occasional
- Energy costs are not considered
- Repair costs of the tools are not considered
- Availability of replacement parts is not considered

S79 SELECTION GUIDE FOR INDUSTRIAL AND PROFESSIONAL HOSE REELS

	SteelPro	SteelPro	SteelPro	SteelPro	SteelPro INOX	SteelPro	TopReel HD	TopReel	MAXREEL	FLEXReel
										
Type	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Professional	Professional
Duty	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★	★★	★★
Winding	Manual	Manual	Automatic							
Material	Steel	Steel	Steel	Steel	Stainless steel	Steel	Steel	Steel	Steel	Steel/Polymer
Hose	Without hose	Without hose	Superflex, without hose	Airflex, Superflex, Topflex, without hose	Airflex, Superflex, without hose	Airflex, Superflex, Topflex, without hose	Thermoflex Airflex, Superflex Topflex, Flexhybrid	Flexhybrid, Airflex, Superflex, Topflex, without hose	Flexhybrid, Ecoflex,Topflex	Flexhybrid
Max. PSI.	500	500	250 / 300	250 / 300	250	250 / 300	250 / 300	250 / 300	300	300
I.D. in and length ft	3/8 : 150 1/2 : 100	3/8 : 100 • 250 • 350 1/2 : 75 • 175 • 275 3/4 : 75 • 100 1 : 50 • 75	1/2 : 50 • 100 3/4 : 50 • 70 1 : 45	1/2 : 100 3/4 : 50	3/8 : 50 • 70 1/2 : 50	1/4 : 35 • 50 3/8 : 25 • 35 • 50 1/2 : 35 • 50	3/8 : 33 • 50 1/2 : 33 • 50	1/4 : 25 • 33 3/8 : 25 • 33 • 50 • 65 1/2 : 35 • 50 • 65	3/8 : 25 • 33 • 50 1/2 : 50	3/8 : 50
Fluid	Air • Water	Air • Water	Air • Water	Air • Water	Air • Water	Air • Water	Air • Water	Air	Air	Air
Arms	2	2	2	2	1	1	2	1	1	1

	Retracto	RolAir	PolyReel	EzReel	Retracto
					
Type	Industrial	Professional	Professional	Professional	Professional
Duty	★★★★	★★	★★★	★★★	★★★
Winding	Automatic		Manual		Automatic
Material	Polymer	Polymer	Steel	Steel	Polymer
Hose	Polyurethane	Flexhybrid, PVC	Flexair, Easyflex, Ecoflex	Without hose	PVC
Max. PSI.	145 / 215	200 / 300	200 / 300	300	140
I.D. in and length ft	1/4 : 20 5/16 : 30 • 40 • 50 3/8 : 25 • 50 • 65 1/2 : 50	1/4 : 27 • 33 3/8 : 30 • 50	1/4 : 100	1/4 : 100 • 200 3/8 : 50 • 100 1/2 : 30 • 60	5/8 : 65
Fluid	Air	Air	Air	Air • Water	Water

See the other selection guide on page 297

S79
SteelPro
INDUSTRIAL HEAVY-DUTY HOSE REEL
FOR 3/8 AND 1/2 HOSE DIAMETER

Features and benefits

- Manual rewind with removable handle
- Beaded edges on spool prevent hose damage or injury to users
- Heavy-duty steel base
- Only 14.5 in tall
- Heavy-duty ABS bearings require no lubrication for years of dependable service
- Super swivel for longer life
- External swivel o-rings can be changed by simply removing one retaining ring
- Fully adjustable brake - tension is adjustable with hand knob
- Flow-through shaft allows for left or right hand mounting positions
- Hose not included
- Inlet hose not included. Refer to page 296 to order the proper inlet hose



Specifications

Fluid: Compressed air, water

Maximum Working Pressure: 500 PSI

Reel Color: Black

Hose reel without hose

Product No	Hose capacity with in I.D.		Inlet/Outlet (F) NPT
	3/8	1/2	
79.705	150 ft	100 ft	1/2

INDUSTRIAL HEAVY-DUTY HOSE REELS
FOR 3/8, 1/2, 3/4 AND 1 HOSE DIAMETER

Features and benefits

- Manual rewind
- Flow-through shaft allows for left or right hand mounting positions
- Self-lubricating bearings
- External swivel
- Standardized quad rings can be changed by simply removing one retaining ring
- Fully adjustable nylon brake, tension is adjustable with hand knob
- Light and strong mounting base
- Brass swivel reduces potential for corrosion
- Durable powder-coated finish
- Hose not included
- Inlet hose not included. Refer to page 296 to order the proper inlet hose



Specifications

Fluid: Compressed air, water

Maximum Working Pressure: 500 PSI

Reel Color: Black

Hose reels without hose

Product No	Hose capacity with in I.D.				Inlet	Outlet
	3/8	1/2	3/4	1		
79.100	100 ft	75 ft	---	---	1/2 (F) NPT	1/2 (M) NPT
79.101	250 ft	175 ft	---	---	1/2 (F) NPT	1/2 (M) NPT
79.102	350 ft	275 ft	---	---	1/2 (F) NPT	1/2 (M) NPT
79.105	---	---	75 ft	50 ft	1 (F) NPT	1 (F) NPT
79.106	---	---	100 ft	75 ft	1 (F) NPT	1 (F) NPT

S79
SteelPro
INDUSTRIAL HEAVY-DUTY BOX-STYLE FRAME HOSE REELS
FOR 1/2, 3/4 AND 1 IN HOSE DIAMETER

Features and benefits

- Automatic rewind
- Heavy-duty steel construction
- Safety banded spring in sealed springcase
- Full 1 in flow path
- Compact design
- Guide rollers allow frictionless retrieval of hose
- Heavy-duty spool and frame design
- Durable powder-coated finish
- Multi-position ratchet lock
- Inlet hose not included. Refer to page 296 to order the proper inlet hose

Specifications

Fluid: Compressed air, water

Maximum Working Pressure: 300 PSI (SUPERFLEX: 250 PSI)

Reel Color: Black





Hose reels without hose

Product No	Hose capacity with in I.D.			Inlet/Outlet (F) NPT
	1/2	3/4	1	
79.200	100 ft	---	---	1/2
79.201	---	70 ft	---	1*
79.202	---	---	45 ft	1

*Includes: 3/4 (F) NPT reducer

Hose reels with SUPERFLEX rubber hose

Product No	Hose I.D. in	Hose Length ft	Inlet (F) NPT	Outlet (M) NPT
79.257	1/2	50	1/2	1/2
79.259	1/2	100	1/2	1/2
79.258	3/4	50	1	3/4

S79
SteelPro
INDUSTRIAL HEAVY-DUTY HOSE REELS
WITH RUBBER HOSE

Features and benefits

- Automatic rewind
- Heavy-duty steel construction
- Ribbed Steel plate to ensure strong support
- Corrosion-resistant epoxy powder coat finish
- Wide profile base with grooved reinforcement supported on each side
- Adjustable double guide arm for handling up to 3 positions
- Wall, ceiling or floor mounting possible
- 4-direction non-snag rollers to reduce hose wear
- Multi-position ratchet lock and easy tension adjustment
- Full flow swivel mechanism, ball bearing mounted, largely reducing the friction
- Fully enclosed, lubricated and centered spring to ensure stability of the reel
- Inlet hose not included. Refer to page 296 to order the proper inlet hose

Specifications

Fluid: Compressed air, water

Maximum Working Pressure: 250 PSI

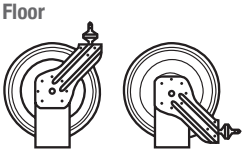
Inlet: 1/2 (F) NPT

Reel Color: Light Grey

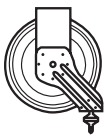


INSTALLATION OPTIONS

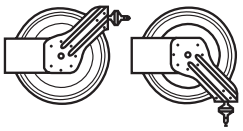
Floor



Ceiling



Wall



Hose reels with hose

Product No						
Rubber AIRFLEX 250 PSI	Rubber SUPERFLEX 250 PSI	Rubber TOPFLEX 250 PSI	Hose I.D. in	Hose Length ft	Inlet (F) NPT	Outlet (M) NPT
79.721	**79.761**	**79.781**	1/2	100	1/2	1/2
---	**79.762**	---	3/4	50	1/2	1/2

Hose reel without hose

Product No	Hose Capacity with I.D.		Inlet/Outlet (F) NPT
	1/2	3/4	
79.704	100 ft	50 ft	1/2 *

*Includes: 3/4 (F) NPT reducer

S79
SteelPro INOX
INDUSTRIAL HEAVY-DUTY HOSE REELS
WITH RUBBER HOSE

304 STAINLESS STEEL





Features and benefits

- Automatic rewind
- 8 position guide arm
- Heavy gauge base with no welds
- Fully committed, non-jamming latch pawl
- Nickel plated swivel reduces corrosion potential
- Constructed of heavy gauge 304 stainless steel
- Single set screw to access latch area and spring case
- Drive spring mechanism lubricated for life
- One piece combination latch, spring arbor, main bearing and spool support for fewer moving parts
- Beaded edges on spool prevent hose damage or injury to users
- Non-sparking latch mechanism in the event flammable gases or liquids are present
- Narrow compact design permits installation where space is a factor
- **Available on request:** Reel with white washdown hose
- Inlet hose not included. Refer to page 296 to order the proper inlet hose

Applications

Ideal for harsh environments such as chemical clean up or when an exceptionally clean area has to be maintained for food or beverage process

Specifications

Fluid: Compressed air, water

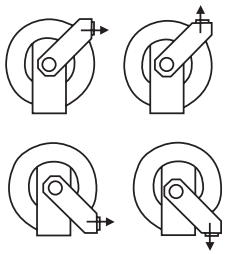
Maximum Working Pressure: 250 PSI

Reel Color: Stainless steel



INSTALLATION OPTIONS

the guide arm can be easily rotated to any of the positions shown



Hose reels with hose

Product No					
Rubber AIRFLEX 250 PSI	Rubber SUPERFLEX 250 PSI	Hose I.D. in	Hose Length ft	Inlet (F) NPT	Outlet (M) NPT
79.837*	79.847	3/8	50	1/2	3/8
79.838*	79.848	3/8	70	1/2	3/8
79.839	79.849	1/2	50	1/2	3/8

* With guard bend restrictor

Hose reels without hose

Product No	Hose Capacity with I.D.		Inlet/Outlet (F) NPT
	3/8	1/2	
79.833	70 ft	---	1/2
79.834	---	50 ft	1/2

S79
SteelPro
INDUSTRIAL HEAVY-DUTY HOSE REELS
WITH RUBBER HOSE

Features and benefits

- Automatic rewind
- All steel, bolted construction
- Heavy-duty mounting bracket
- Permanently lubricated drive-spring mechanism to ensure many years of dependable service
- One-piece combination latch, spring arbor, main bearing, and spool support for fewer moving parts
- All brass shaft and swivel reduce potential for corrosion
- Single set screw to access spring casing
- Fully closed bead on spool to prevent hose cutting
- Hidden latch mechanism to prevent grime buildup
- Adjustable drag brake/spool lock
- Durable powder coat finish
- Inlet hose not included. Refer to page 296 to order the proper inlet hose

Specifications

Fluid: Compressed air, water

Maximum Working Pressure: 250 PSI

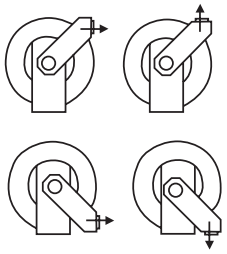
Inlet:
Standard model: 3/8 (F) NPT
Large model: 1/2 (F) NPT

Reel Color: Black



INSTALLATION OPTIONS

The guide arm can be easily rotated to any of the positions shown



See the video « Spring tension adjustment » on **TOPRING**.com



Hose reels with hose

Product No							
Rubber AIRFLEX 250 PSI	Rubber SUPERFLEX 250 PSI	Rubber TOPFLEX 250 PSI	Hose I.D. in	Hose Length ft	Inlet (F) NPT	Outlet (M) NPT	Model
79.711	---	**79.771**	1/4	35	3/8	1/4	Standard
79.712	---	**79.772**	1/4	50	3/8	1/4	Standard
79.713*	**79.753**	**79.773**	3/8	25	3/8	1/4	Standard
79.714*	**79.754**	**79.774**	3/8	35	3/8	1/4	Standard
79.715*	**79.755**	**79.775**	3/8	50	1/2	1/4	Large
79.716*	**79.756**	**79.776**	3/8	50	1/2	3/8	Large
79.718	**79.758**	**79.778**	1/2	35	1/2	3/8	Large
79.717	**79.757**	**79.777**	1/2	50	1/2	3/8	Large

* With guard bend restrictor

Hose reels without hose

Product No	Hose Capacity with I.D.			Inlet/Outlet (F) NPT	Model
	1/4	3/8	1/2		
79.700	50 ft	35 ft	---	3/8	Standard
79.702	---	50 ft	35 ft	1/2	Large
79.703	---	---	50 ft	1/2	Large

S79

TopReel HD

INDUSTRIAL HEAVY-DUTY HOSE REELS

WITH TECHNOPOLYMER AND RUBBER HOSE

Features and benefits

- Automatic rewind
- Heavy-duty steel construction for durable use
- Heavy ribbed steel plate to ensure strong support
- Corrosion-resistant epoxy powder coat finish
- Wide profile base with grooved reinforcement supported on each side
- Adjustable double-guide arm for handling up to 3 positions
- Wall, ceiling or floor mounting possible
- 4-direction non-snag rollers to reduce hose wear
- Multi-position ratchet lock and easy tension adjustment
- Full flow swivel mechanism
- Fully enclosed and lubricated spring
- Inlet hose not included. Refer to page 296 to order the proper inlet hose

Specifications

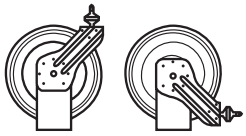
Fluid: Compressed air, water

Maximum Working Pressure:
AIRFLEX, **SUPERFLEX** and **TOPFLEX**: 250 PSI
THERMOFLEX and **FLEX***hybrid*: 300 PSI

Reel Color: Black

INSTALLATION OPTIONS

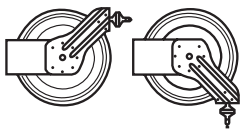
Floor



Ceiling



Wall







Double-guide arm

See the video « Spring tension adjustment » on **TOPRING**.com



Hose reels with hose

Product No									
Technopolymer THERMOFLEX 300 PSI	**Technopolymer FLEX***hybrid* 300 PSI	**Rubber AIRFLEX** 250 PSI	**Rubber SUPERFLEX** 250 PSI	**Rubber TOPFLEX** 250 PSI	Hose I.D. in	Hose Length ft	Inlet (F) NPT	Outlet (M) NPT	Model
79.513**	---	**79.503****	**79.523**	**79.533****	3/8	33	1/2*	1/4	Large
79.514**	**79.484**	**79.504****	**79.524**	**79.534****	3/8	50	1/2*	1/4	Large
79.518	---	**79.508**	**79.528**	**79.538**	1/2	33	1/2*	3/8	Large
79.519	**79.489**	**79.509**	**79.529**	**79.539**	1/2	50	1/2*	3/8	X-Large

*Includes: 3/8 (F) NPT reducer for inlet

* With guard bend restrictor

S79
TopReel HD
INDUSTRIAL HEAVY-DUTY HOSE REELS WITH HOSEGUARD®
ANTI HOSE WHIP SAFETY VALVE
WITH RUBBER AIR HOSE

SAFETY

Features and benefits

- Hose reel with a safety device which protects against dangerous hose whip caused by air hose or rigid tube ruptured
- Reliable, termperproof and maintenance-free safety valve
- Complies with OSHA Regulation Standard 29CFR 1926.302 (Partial)
- Complies with 2009 ISO Standard 4414 (5.4.5.11.1)
- Heavy-duty steel construction
- Automatic rewind
- Adjustable double-guide arm for handling up to 3 positions
- 4-way non-snag rollers
- Multi-position ratchet lock and easy tension adjustment
- Full flow swivel mechanism
- Inlet hose not included. Refer to page 296 to order the proper inlet hose

Specifications

Fluid: Compressed air

Maximum Working Pressure: 250 PSI

Reel Color: Black



HOSEGUARD®
SAFETY VALVE



TopReel HD Hose Reel with **HOSEGUARD®** Safety Valve offers simple and efficient protection for users.

Should the air consumption exceed the set value of the **HOSEGUARD®** Safety Valve, the air supply of the hose reel is immediately shut off by the internal piston of the safety valve.

Once the breakage is repaired, a built-in bleed hole leaks a certain amount of airflow, which automatically resets the **HOSEGUARD®** Safety Valve.

See Series 58 for more details.

See the video « HOSEGUARD: safety valve » on **TOPRING**.com



Hose reels with hose and HOSEGUARD

Product No AIRFLEX 250 PSI	Hose I.D. in	Hose Length ft	Inlet (F) NPT	Outlet (M) NPT	Model
79.503.01*	3/8	33	3/8	1/4	Large
79.504.01*	3/8	50	3/8	1/4	Large
79.508.01	1/2	33	3/8	3/8	Large
79.509.01	1/2	50	3/8	3/8	X-Large

* With guard bend restrictor

S79
TopReel
INDUSTRIAL MEDIUM-DUTY HOSE REELS
WITH TECHNOPOLYMER AND RUBBER HOSE

Features and benefits

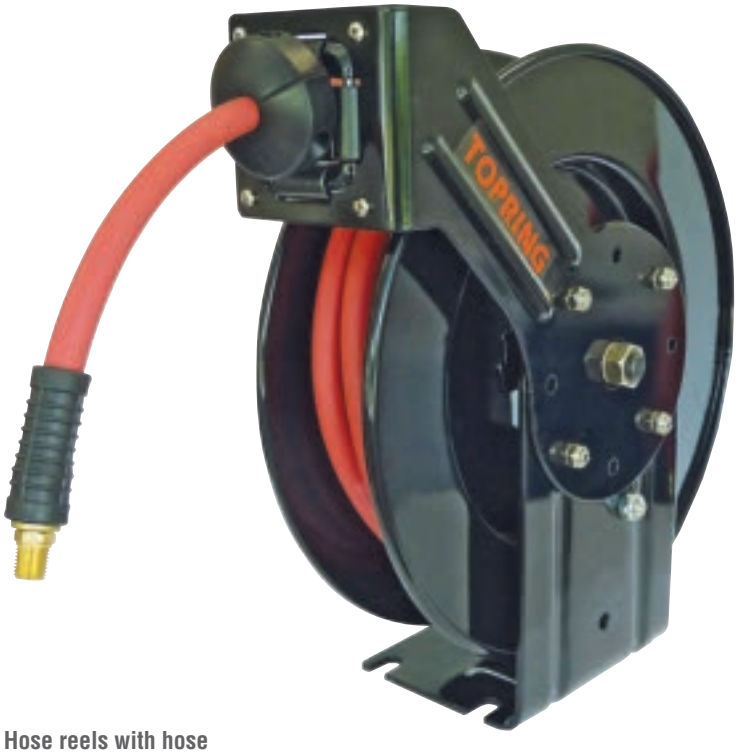
- Automatic rewind
- Heavy-duty steel construction
- Corrosion-resistant epoxy powder coat finish
- Wide L-shaped base with grooved reinforcement
- Adjustable guide arm for handling up to 9 positions
- Wall, ceiling or floor mounting possible
- 4-direction non-snag rollers to reduce hose wear
- Multi-position ratchet lock and easy tension adjustment
- Full flow swivel mechanism
- Fully enclosed and lubricated spring
- Inlet hose not included. Refer to page 296 to order the proper inlet hose

Specifications

Fluid: Compressed air

Maximum Working Pressure:
AIRFLEX, **SUPERFLEX** and **TOPFLEX**: 250 PSI
FLEX*hybrid*: 300 PSI

Reel Color: Black



Hose reels with hose

Product no				Hose I.D.in	Hose Length ft	Inlet (F) NPT	Outlet (M) NPT	Model
Technopolymer **FLEX***hybrid* 300 PSI	Rubber **AIRFLEX** 250 PSI	Rubber **SUPERFLEX** 250 PSI	Rubber **TOPFLEX** 250 PSI					
79.890	---	---	---	1/4	25	1/4	1/4	Standard
79.891	---	---	---	1/4	33	1/4	1/4	Standard
---	**79.990**	---	**79.970**	1/4	25	3/8	1/4	Standard
---	**79.991**	---	**79.972**	1/4	33	3/8	1/4	Standard
79.893	**79.993***	**79.924**	**79.974**	3/8	25	3/8	1/4	Standard
79.894	**79.994***	**79.926**	**79.976**	3/8	33	3/8	1/4	Standard
79.895	---	---	---	3/8	50	3/8	1/4	X-Large
---	**79.995***	**79.928**	**79.978**	3/8	50	1/2	1/4	X-Large
79.896	**79.996***	**79.929**	**79.980**	3/8	65	1/2	1/4	X-Large
79.897	**79.997**	**79.933**	**79.982**	1/2	33	1/2	3/8	X-Large
79.898	**79.998**	**79.934**	**79.984**	1/2	50	1/2	3/8	X-Large
79.899	**79.999**	**79.936**	**79.986**	1/2	65	1/2	3/8	X-Large

* With guard bend restrictor

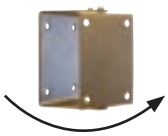
MOUNTING ACCESSORIES

Heavy-duty steel construction. Allow the hose reel to line up with the direction of the hose.



Swivel 340° floor mounting base

Product No	For model
79.942	Standard and X-Large



Swivel 140º wall bracket

Product No	For model
79.940	Standard
79.941	X-Large

Hose reels without hose

Product No	Hose Capacity with I.D.		Inlet (F) NPT	Outlet (M) NPT	Model
	3/8	1/2			
79.930	33 ft	---	1/4	1/4	Standard
79.932	---	50 ft	1/2	3/8	X-Large

S79
MAXREEL
PROFESSIONAL HOSE REELS
WITH TECHNOPOLYMER AND RUBBER HOSE

Features and benefits

- Automatic rewind
- Steel construction
- Corrosion-resistant epoxy powder coat finish
- Wide L-shaped base
- Adjustable guide arm for wall, ceiling or floor mounting
- 4-direction non-snag rollers to reduce hose wear
- Multi-position ratchet lock and easy tension adjustment
- Fully enclosed spring
- Inlet hose not included. Refer to page 296 to order the proper inlet hose

Applications

Economical reels for indoor shops and professional applications

Specifications

Fluid: Compressed air, water

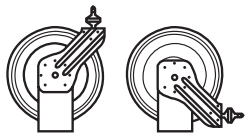
Maximum Working Pressure:
TOPFLEX: 250 PSI
FLEX*hybrid* and **ECOFLEX**: 300 PSI

Reel Colors:
TOPFLEX and **ECOFLEX**: Grey
FLEX*hybrid*: Black

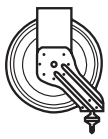


INSTALLATION OPTIONS

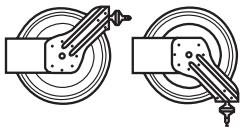
Floor



Ceiling



Wall / Service truck



Hose reels with hose

Product No							
Rubber **TOPFLEX** 250 PSI	Technopolymer **FLEX***hybrid* 300 PSI	Technopolymer **ECOFLEX** 300 PSI	Hose I.D. in	Hose Length ft	Inlet (F) NPT	Oulet (M) NPT	Model
79.322	**----**	**79.332***	3/8	25	1/4	1/4	Standard
79.323	**----**	**79.333***	3/8	33	1/4	1/4	Standard
79.324	**79.334**	**79.335***	3/8	50	3/8	1/4	Large
79.326	**79.336**	**----**	1/2	50	1/2	3/8	X-Large

* With guard bend restrictor

S79
flexReel
PROFESSIONAL COMPACT HOSE REEL
WITH TECHNOPOLYMER HOSE

Features and benefits

- Automatic rewind
- Light and compact design
- High quality, impact-resistant polymer drum for durable use
- Sturdy steel frame with corrosion-resistant powder coating
- Adjustable hose stopper
- Technopolymer flexhybrid hose combines all the qualities of PVC and rubber
- Good oil, heat, abrasion and ozone resistance
- Base designed for stable wall, ceiling and floor mounting
- Inlet hose included (91 cm)

Applications

Economical reel ideal for workshops

Specifications

Fluid: Compressed air

Maximum Working Pressure: 300 PSI

Reel Colors: Dark grey and black

INSTALLATION OPTIONS

Floor



Ceiling



Wall





Hose reel with hose

Product No Technopolymer flexhybrid 300 PSI	Hose I.D. in	Hose Length ft	Inlet/Outlet (M) NPT
79.805	3/8	50	1/4

S79
INLET RUBBER HOSES FOR HOSE REELS



Product No	Hose I.D. in	Hose Length ft	Thread (M) NPT
79.011	3/8	5	1/4
79.012	3/8	5	3/8
79.013	1/2	5	3/8
79.014	1/2	5	1/2
79.015	1	5	1

Features and benefits

- Allows simple and easy connection of air hose reels to compressed air networks
- 5 ft length rubber hose assemblies, ideal for most reel connections

Materials

Cover: Rubber EPDM (Red)

Reinforcement: Spiral polyester cords

Tube: Black EPDM

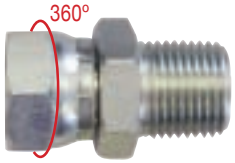
Specifications

Maximum Working Pressure: 250 PSI

Working Temperature: -40 to 100 °C

SWIVEL CONNECTORS

Allows quick and simple inlet hose connection



NICKEL PLATED STEEL	
Product No	Thread (M/F) NPT
41.704	1/2
41.705	3/4
41.706	1
41.707	1-1/2
41.708	2
41.709	2-1/2

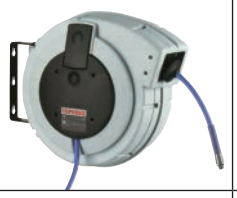
INLET HOSE SELECTION GUIDE

For Hose Reel No	Inlet Hose Product No	Inlet Hose Thread (M) NPT
79.100	79.014	1/2
79.101	79.014	1/2
79.102	79.014	1/2
79.105	79.015	1
79.106	79.015	1
79.200	79.015	1
79.201	79.015	1
79.202	79.015	1
79.257	79.014	1/2
79.258	79.015	1
79.259	79.014	1/2
79.322	79.011	1/4
79.323	79.011	1/4
79.324	79.012	3/8
79.326	79.014	1/2
79.332	79.011	1/4
79.333	79.011	1/4
79.334	79.011	1/4
79.336	79.014	1/2
79.483	79.012	3/8
79.484	79.012	3/8
79.488	79.013	3/8
79.489	79.013	3/8
79.500	79.012	3/8
79.501	79.014	1/2
79.503	79.013	3/8
79.504	79.013	3/8
79.504.01	79.012	3/8
79.508	79.014	1/2
79.509	79.014	1/2
79.509.01	79.013	3/8
79.513	79.013	3/8
79.514	79.013	3/8
79.518	79.014	1/2
79.519	79.014	1/2
79.523	79.013	3/8
79.524	79.013	3/8
79.528	79.014	1/2
79.529	79.014	1/2
79.533	79.013	3/8
79.534	79.013	3/8

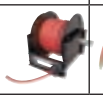
For Hose Reel No	Inlet Hose Product No	Inlet Hose Thread (M) NPT
79.538	79.014	1/2
79.539	79.014	1/2
79.554	79.012	3/8
79.700	79.012	3/8
79.702	79.014	1/2
79.703	79.014	1/2
79.704	79.014	1/2
79.705	79.014	1/2
79.711	79.012	3/8
79.712	79.012	3/8
79.713	79.012	3/8
79.714	79.012	3/8
79.715	79.014	1/2
79.716	79.014	1/2
79.717	79.014	1/2
79.718	79.014	1/2
79.721	79.014	1/2
79.753	79.012	3/8
79.754	79.012	3/8
79.755	79.014	1/2
79.756	79.014	1/2
79.757	79.014	1/2
79.758	79.014	1/2
79.761	79.014	1/2
79.762	79.015	1
79.771	79.012	3/8
79.772	79.012	3/8
79.773	79.012	3/8
79.774	79.012	3/8
79.775	79.014	1/2
79.776	79.014	1/2
79.777	79.014	1/2
79.778	79.014	1/2
79.781	79.014	1/2
79.820	79.011	1/4
79.825	79.012	3/8
79.833	79.012	3/8
79.834	79.014	1/2
79.837	79.014	1/2
79.838	79.014	1/2

For Hose Reel No	Inlet Hose Product No	Inlet Hose Thread (M) NPT
79.839	79.014	1/2
79.847	79.014	1/2
79.848	79.014	1/2
79.849	79.014	1/2
79.890	79.011	1/4
79.891	79.011	1/4
79.893	79.012	3/8
79.894	79.012	3/8
79.895	79.012	3/8
79.896	79.012	3/8
79.897	79.014	1/2
79.898	79.014	1/2
79.899	79.014	1/2
79.924	79.012	3/8
79.926	79.012	3/8
79.928	79.014	1/2
79.929	79.014	1/2
79.930	79.012	3/8
79.932	79.014	1/2
79.933	79.014	1/2
79.934	79.014	1/2
79.936	79.014	1/2
79.970	79.012	3/8
79.972	79.012	3/8
79.974	79.012	3/8
79.976	79.012	3/8
79.978	79.014	1/2
79.980	79.014	1/2
79.982	79.014	1/2
79.984	79.014	1/2
79.986	79.014	1/2
79.990	79.012	3/8
79.991	79.012	3/8
79.993	79.012	3/8
79.994	79.012	3/8
79.995	79.014	1/2
79.996	79.014	1/2
79.997	79.014	1/2
79.998	79.014	1/2
79.999	79.014	1/2

S79 SELECTION GUIDE FOR INDUSTRIAL AND PROFESSIONAL HOSE REELS

	Retracto	RolAir	PolyReel	EzReel	Retracto
					
Type	Industrial	Professional	Professional	Professional	Professional
Duty	★★★★	★★	★★★	★★★	★★★
Winding	Automatic		Manual		Automatic
Material	Polymer	Polymer	Steel	Steel	Polymer
Hose	Polyurethane	Flexhybrid, PVC	Flexair, Easyflex, Ecoflex	Without hose	PVC
Max. PSI.	145 / 215	200 / 300	200 / 300	300	140
I.D. in and length ft	1/4 : 20 5/16 : 30 • 40 • 50 3/8 : 25 • 50 • 65 1/2 : 50	1/4 : 27 • 33 3/8 : 30 • 50	1/4 : 100	1/4 : 100 • 200 3/8 : 50 • 100 1/2 : 30 • 60	5/8 : 65
Fluid	Air, water	Air	Air	Air • Water	Water

See the other selection guide on page 285

	SteelPro	SteelPro	SteelPro	SteelPro	SteelPro INOX	SteelPro	Top Reel HD	Top Reel	MAXREEL	FLEXReel
										
Type	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Professional	Professional
Duty	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★	★★	★★
Winding	Manual	Manual	Automatic							
Material	Steel	Steel	Steel	Steel	Stainless steel	Steel	Steel	Steel	Steel	Steel/Polymer
Hose	Without hose	Without hose	Superflex, without hose	Airflex, Superflex, Topflex, without hose	Airflex, Superflex, without hose	Airflex, Superflex, Topflex	Thermoflex Airflex, Superflex Topflex, Flexhybrid	Flexhybrid, Airflex, Superflex, Topflex, without hose	Flexhybrid, Ecoflex,Topflex	Flexhybrid
Max. PSI.	500	500	250 / 300	250 / 300	250	250 / 300	250 / 300	250 / 300	300	300
I.D. in and length ft	3/8 : 150 1/2 : 100	3/8 : 100 • 250 • 350 1/2 : 75 • 175 • 275 3/4 : 75 • 100 1 : 50 • 75	1/2 : 50 • 100 3/4 : 50 • 70 1 : 45	1/2 : 100 3/4 : 50	3/8 : 50 • 70 1/2 : 50	1/4 : 35 • 50 3/8 : 25 • 35 • 50 1/2 : 35 • 50	3/8 : 33 • 50 1/2 : 33 • 50	1/4 : 25 • 33 3/8 : 25 • 33 • 50 • 65 1/2 : 35 • 50 • 65	3/8 : 25 • 33 • 50 1/2 : 50	3/8 : 50
Fluid	Air • Water	Air • Water	Air • Water	Air • Water	Air • Water	Air • Water	Air • Water	Air	Air	Air
Arms	2	2	2	2	1	1	2	1	1	1

S79
Retracto
INDUSTRIAL MEDIUM-DUTY HOSE REELS
WITH POLYURETHANE HOSE

Features and benefits
- Automatic spring rewinding
- Compact design
- High-impact polymer case
- Enclosed case to prolong hose life
- Hose locking system to desired length
- Heavy-duty spring rewind mechanism for long, problem-free life
- Flexible, long-lasting reinforced polyurethane air hose
- Steel swiveling wall bracket
- Inlet hose included

Applications
Ideal for indoor use and for industrial and automotive applications

Materials
Reel Mechanism: Steel
Case: High impact polymer
Mounting Bracket: Steel
Hose: Reinforced polyurethane

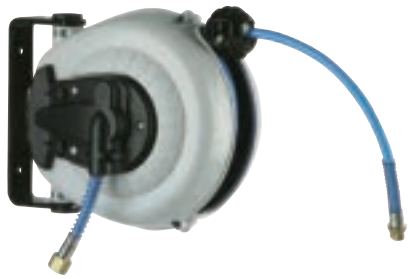
Specifications
Fluid: Compressed air and water
Models 79.405, 79.408, 79.409 and 79.419: Compressed air only
Maximum Working Pressure: 215 PSI
Models 79.405 and 79.408: 145 PSI
Reel Color: Grey

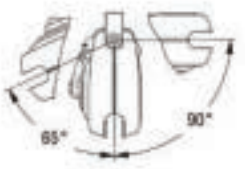
CE

SAFETY MECHANISM
Slow Motion
Allows the hose to be retracted slowly and evenly to prevent dangerous hose whips. This ensures better safety and productivity in the workplace.

See the video «Slow Motion» on **TOPRING**.com

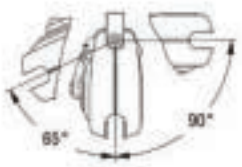






Product No	Hose I.D. in	Hose Length ft	Inlet (F) NPT	Outlet (M) NPT
79.405	1/4	20	1/4	1/4





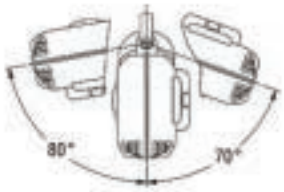
	With Slow Motion Mechanism				
Product No	Product No	Hose I.D. in	Hose Length ft	Inlet (F) NPT	Outlet (M) NPT
79.408	79.408.01	8 mm (5/16)	30	1/4	1/4

S79
Retracto
INDUSTRIAL MEDIUM-DUTY HOSE REELS
WITH POLYURETHANE HOSE



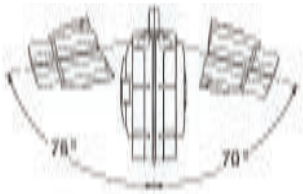
Product No	Hose I.D. in	Hose Length ft	Inlet (F) NPT	Outlet (M) NPT
79.409	8 mm (5/16)	40	1/4	1/4
79.419	3/8	25	3/8	3/8





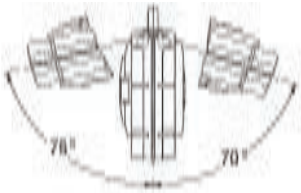
	With Slow Motion Mechanism				
Product No	Product No	Hose I.D. in	Hose Length ft	Inlet (F) NPT	Outlet (M) NPT
79.410	79.410.01	8 mm (5/16)	40	1/4	1/4
79.420	79.420.01	3/8	25	3/8	3/8





	With Slow Motion Mechanism				
Product No	Product No	Hose I.D. in	Hose Length ft	Inlet (F) NPT	Outlet (M) NPT
79.415	79.415.01	8 mm (5/16)	50	1/4	1/4
79.425	79.425.01	3/8	50	3/8	3/8





Product No	Hose I.D. in	Hose Length ft	Inlet (F) NPT	Outlet (M) NPT
79.435	3/8	65	3/8	3/8
79.440	1/2	50	1/2	1/2

S79
RolAir
PROFESSIONAL HOSE REELS
WITH PVC AND TECHNOPOLYMER HOSE

Features and benefits
- Automatic rewind
- Durable construction - made from high-impact resistant polypropylene
- Compact design
- Double adjustment action to lock hose at desired length
- Sealed connection points at swivel and hose inlet to prevent leaks
- Integrated wall/overhead swivel bracket
- Non-snag hose rollers reduce hose wear
- Adjustable hose stopper
- 61 cm inlet hose included (model 79.365)
- 91 cm inlet hose included (all other models)

Applications
Economical hose reel ideal for workshops

Materials
Hose: PVC
Model 79.365 with technopolymer FLEXhybrid hose
Case: Polypropylene

Specifications
Fluid: Compressed air
Maximum Working Pressure: 300 PSI
Reel color: Red



Hose reels with hose

Product No	Hose I.D. in	Hose Length ft	Inlet/Outlet (M) NPT	Model	Hose
79.365	1/4	27	1/4	Compact	FLEXhybrid
79.370	1/4	33	1/4	Standard	PVC
79.375	3/8	30	1/4	Standard	PVC
79.380	3/8	50	1/4	Large	PVC



S79
PolyReel
PROFESSIONAL PORTABLE HOSE REELS
WITH TECHNOPOLYMER HOSE



Features and benefits

- Manual rewind
- Lightweight and easy to carry
- Great hose storage
- Handle folds in to avoid snags
- 360° swivel base with ball bearing to extend service life of reel
- Rugged Steel construction for durability
- Inlet hose included (91 cm) (79.050: 100 cm)
- Technopolymer air hose is 35 % ligther than rubber air hoses
- Guard bend restrictor at both ends of air hose

Applications

Ideal for outdoor and indoor construction applications

Specifications

Fluid: Compressed air

Maximum Working Pressure: 300 PSI



79.060

With EASYflex *PREMIUM* technopolymer hose

- **Engineered to be tough and ultra-flexible even at -54 °C**
- **Abrasion and oil resistant**
- **Kink resistant under pressure**



79.050

With ECOFLEX technopolymer hose

- **Engineered to be tough and ultra-flexible at extreme temperatures -40 to 65 °C**
- **Full flow 360 ° swivel fittings 1/4 (M) NPT**
- **Abrasion and oil resistant**
- **Non-marking outer cover**
- **Kink resistant under pressure**

Hose reel with EASYflex *PREMIUM* hose

Product No	Hose I.D. in	Hose Length ft	Inlet/Outlet (M) NPT
79.060	1/4	100	1/4

Hose reel with ECOFLEX hose

Product No	Hose I.D. in	Hose Length ft	Inlet/Outlet (M) NPT
79.050	1/4	100	1/4

S79
PolyReel
PROFESSIONAL PORTABLE HOSE REEL
WITH POLYURETHANE HOSE



Features and benefits

- Manual rewind
- Lightweight and easy to carry
- Great hose storage
- Handle folds in to avoid snags
- 360° swivel base with ball bearing to extend service life of reel
- Rugged steel construction for durability
- Inlet hose included (91 cm)

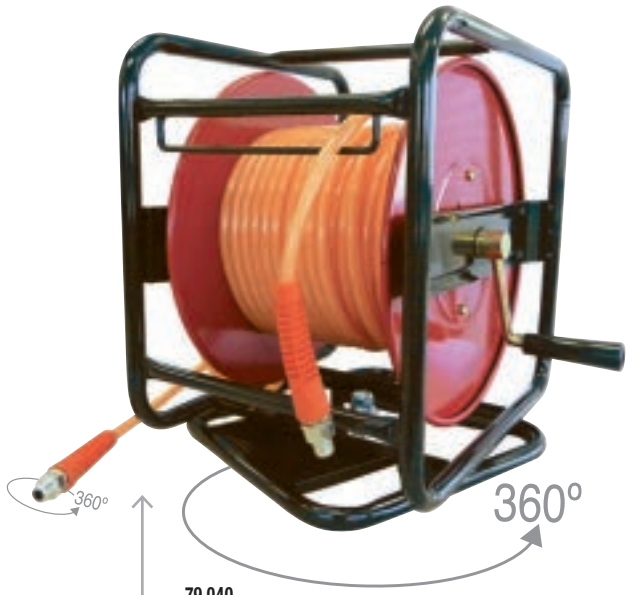
Applications

Ideal for outdoor and indoor construction applications

Specifications

Fluid: Compressed air

Maximum Working Pressure: 200 PSI



79.040

With FLEXAIR polyurethane hose

- **Engineered to be tough and ultra-flexible at extreme temperatures -40 °C**
- **Flexible and lightweight**
- **Excellent resistance to kinking, abrasion, lubricating oils, grease and solvents**
- **Excellent weather resistance**
- **Reusable full flow swivel fittings with flexible strain relief guard**

Hose reel with FLEXAIR hose

Product No	Hose I.D. in	Hose Length ft	Inlet/Outlet (M) NPT
79.040	1/4	100	1/4

S79
EzReel
PROFESSIONAL HOSE REELS
FOR 1/4, 3/8 AND 1/2 HOSE DIAMETER

Features and benefits

- Manual rewind
- Heavy-duty steel construction
- Corrosion-resistant powder-coated finish
- Full flow solid Brass 90° swivel
- Beveled flanges makes it easier to rewind the hose without kinking it
- Maintenance-free bushings allows reel to spin smoothly
- Sealed swivel and hose inlet connection
- Built-in base plate makes installation to walls or workbenches quick and easy
- Eliminates hose storage and handling problems
- Extends hose life
- Makes shop, garage and work area safer
- Easy to carry
- Hose not included
- Inlet hose not included. Refer to page 296 to order the proper inlet hose

Applications

Construction sites, mobile units and garages

Specifications

Fluid: Compressed air, water

Maximum Working Pressure: 300 PSI





Hose reels without hose

Product No	Hose Capacity with I.D. 1/4	3/8	1/2	Inlet (F) NPT	Outlet (M) NPT	Model
79.820	100 ft	50 ft	30 ft	1/4	3/8	Standard
79.825	200 ft	100 ft	60 ft	3/8	3/8	Large

S79
Retracto
PROFESSIONAL WATER HOSE REEL
WITH PVC WATER HOSE

Features and benefits

- Automatic rewind
- Lightweight and durable
- High-impact plastic case
- Enclosed case to prolong hose and reel life
- Locking auto-rewind mechanism
- Non-snag hose rollers
- Flexible, long-lasting PVC water hose
- Easily dismountable from its base for moving or storage
- Swivel base mounts to any surface
- Unit dismounts from base easily to become portable with built-in handle
- Quick disconnect water hose couplers included
- Convenient spray nozzle included
- Inlet hose included

Materials

Hose: PVC

Case: High impact polymer

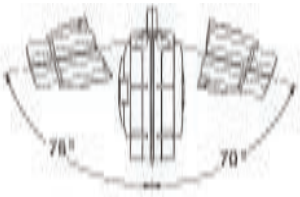
Specifications

Fluid: Water

Maximum Working Pressure: 140 PSI

Reel Color: Grey





Hose reel with hose

Product No	Hose I.D. in	Hose Length ft	Inlet/Outlet Garden Hose Thread
79.155	5/8	65	3/4

BRASS FITTINGS FOR GARDEN HOSE
NPT - GHT

Features and benefits

- Brass fittings for water type hose connectors
- Perfect for compressed air hose reels compatible with water

Applications

Allows some air hose reel models to be converted into water hose reels

MALE CONNECTOR ① ②



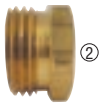
Product No	GHT (M) ①	Thread (M) NPT ②
41.211	3/4	3/8
41.212	3/4	1/2

MALE SWIVEL CONNECTOR ① ②



Product No	GHT (F) ①	Thread (M) NPT ②
41.207	3/4	3/8
41.209	3/4	1/2

FEMALE CONNECTOR ① ②



Product No	GHT (M) ①	Thread (F) NPT ②
41.216	3/4	3/8
41.217	3/4	1/2

FEMALE SWIVEL CONNECTOR ① ②



Product No	GHT (F) ①	Thread (F) NPT ②
41.201	3/4	1/2

HOSE REELS WARRANTY • SERIES 79

HOSE REELS

Hose Reel Model	Repair Warranty
STEELPRO STEELPRO INOX	3 years (R3)
TOPREEL HD RETRACTO (air)	2 years (R2)
TOPREEL MAXREEL FLEXREEL ROLAIR POLYREEL RETRACTO (water) EZREEL	1 year (R1)

AIR HOSES

Hose	Hose Warranty
TOPFLEX SUPERFLEX	1 year (G1)
FLEXHYBRID EASYFLEX FLEXAIR AIRFLEX THERMOFLEX ECOFLEX PVC HOSE	3 months (G03)

DETAILS OF WARRANTY (REPAIR)

Warranty against manufacturing defects, including parts and labour.

Repair Warranty applies on the mechanism only (spring). All air hoses included in the reels have a 3 month replacement warranty (G03). If the reel is assembled with a TOPFLEX or SUPERFLEX air hose, the replacement warranty on the hose is 1 year (G1).

General exclusions: contamination, damaged threads, inappropriate tightening, attempted repair, disassembly or modification, improper usage, accidental damage, normal wear and tear, non-compliance with maintenance instructions, failure to comply with technical specifications, misuse, improper installation, assembly with other non compatible products.

Limited warranty: If the product contains one or more parts with the limited warranty codification, the parts with the limited warranty will be excluded from the warranty.

To validate the warranty on* TOPRING *products, visit* TOPRING*.com / Return and Warranty section. Enter the product code and see the applicable warranty details.

S20•21•22•23•24•25•26•27•30•31
QUICK COUPLERS

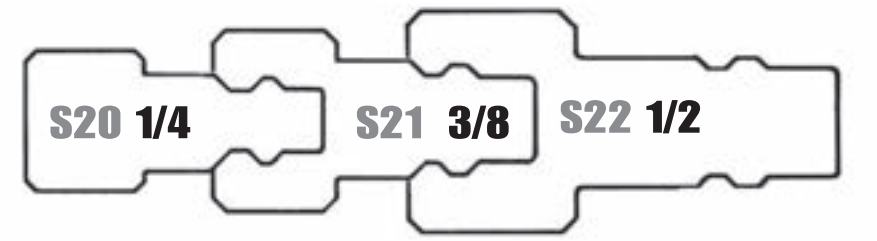


TOPRING PLUG PROFILES

Profile type / Series

INDUSTRIAL
ISO 6150-B (AA-A-59439)

I/M 1/4 | I/M 3/8 | I/M 1/2



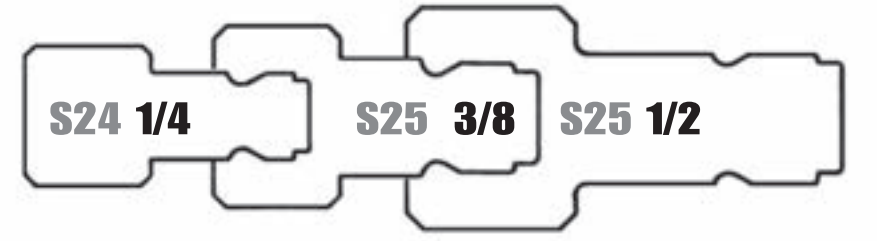
ARO 210

A 1/4



TRUFLATE

T 1/4 | T 3/8 | T 1/2



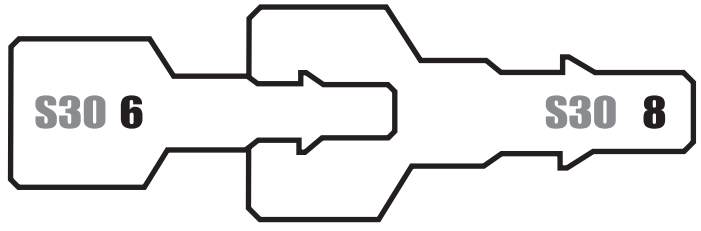
LINCOLN

L 1/4



STÄUBLI
ISO 6150-C

S 6 | S 8



NITTO
JAPANESE STANDARD

N 7.8



ULTRAFLO
EUROPEAN STANDARD

E 7.8



Tool to easily identify plug profiles and threads



Product No: 96.030

TOPRING QUICK COUPLERS SELECTION GUIDE SERIES 20-31

					INDUSTRIAL			ULTRAFLO	ARO 210	TRUFLATE			LINCOLN	NITTO	STÄUBLI	
MODEL	SAFE DISCONNECTION	CONNECTION	UNIVERSAL CONNECTION Accept 3 or 5 types of plugs	MATERIAL	I/M 1/4	I/M 3/8	I/M 1/2	E 7.8	A 1/4	T 1/4	T 3/8	T 1/2	L 1/4	N 7.8	S 6	S 8
					S 20	S 21	S 22	S 31	S 23	S 24	S 25	S 25	S 26	S 27	S 30	S 30
TOPQUIK S1	✓	Automatic		Composite	34 SCFM 174 PSI	81 SCFM 174 PSI		73 SCFM 174 PSI								
TOPQUIK SC	✓	Manual		Steel	38 SCFM 360 PSI	75 SCFM 360 PSI	175 SCFM 360 PSI	70 SCFM 360 PSI								
TOPQUIK	✓	Automatic		Composite	36 SCFM 225 PSI	72 SCFM 225 PSI	169 SCFM 225 PSI	60 SCFM 225 PSI						78 SCFM 175 PSI		
QUIKSILVER		Automatic		Steel	44 SCFM 500 PSI	72 SCFM 435 PSI	145 SCFM 500 PSI	80 SCFM 500 PSI	44 SCFM 500 PSI							
AUTOMAX		Automatic		Brass	37 SCFM 250 PSI	62 SCFM 250 PSI	99 SCFM 250 PSI	50 SCFM 200 PSI	34 SCFM 250 PSI				32 SCFM 250 PSI			
AUTOMAX SLIM		Automatic		Brass	45 SCFM 150 PSI			60 SCFM 150 PSI	40 SCFM 150 PSI							
MAXQUIK		Manual		Steel	24 SCFM 250 PSI	56 SCFM 250 PSI	75 SCFM 250 PSI		28 SCFM 250 PSI	24 SCFM 250 PSI	67 SCFM 250 PSI	92 SCFM 250 PSI				
MAXQUIK PLUS		Manual		Brass Stainless Steel	37 SCFM 250 PSI											
UNISAFE	✓	Automatic	S 20•31 23•24•26	Steel	34 SCFM 200 PSI			34 SCFM 200 PSI	34 SCFM 200 PSI	34 SCFM 200 PSI			34 SCFM 200 PSI			
UNIQUIK		Automatic	S 20•23•24	Brass NP Brass	35 SCFM 150 PSI				35 SCFM 150 PSI	35 SCFM 150 PSI						
UNIQUIK SLIM		Automatic		Brass	44 SCFM 150 PSI			60 SCFM 150 PSI	44 SCFM 150 PSI							
UNIMAX		Automatic	S 20•31 23•24•26	Steel	37 SCFM 200 PSI			37 SCFM 200 PSI	37 SCFM 200 PSI	37 SCFM 200 PSI			37 SCFM 200 PSI			
ISOSAFE	✓	Automatic		Aluminium											45 SCFM 175 PSI	100 SCFM 145 PSI

QUICK COUPLERS S20 TO S31

HOW TO CHOOSE THE IDEAL QUICK COUPLER?

Points to consider in order to choose the quick coupler for the application

ACCIDENT PREVENTION

AVOIDING DANGEROUS HOSE WHIPS

ZERO PRESSURE DISCONNECT COUPLERS

These couplers prevent dangerous hose whips with their two-stage disconnection system. The first stage allows the downstream pressure to be evacuated, while the second releases the plug completely and safely.

The possibility of a hose whip is therefore eliminated.



TOPQUIK S1 TOPQUIK ISOSAFE

ZERO PRESSURE CONNECT/DISCONNECT COUPLERS

These couplers allow connection and disconnection at zero pressure making it very easy to connect/disconnect. The plug is connected and secured before the air supply is released, providing a safe and easy connection.

Upon disconnection, the downstream pressure is released before the plug can be disconnected, thus eliminating the possibility of hose whips.



UNISAFE TOPQUIK SC

PREVENTING ACCIDENTAL DISCONNECTIONS

COUPLERS WITH DRAG GUARDS

These couplers have an integrated drag guard preventing accidental disconnections when they are dragged on the floor.

The drag guard protects the coupler sleeve from releasing the plug under pressure.



QUIKSILVER MAXQUIK

PRESSURE AND FLOW REQUIREMENTS FOR THE APPLICATION (PSI & SCFM)

Air tools operate at variable air flow rates and pressures (specified by the manufacturers). **TOPRING** offers a quick reference table of the SCFM required for the frequently used tools on page 263.

Quick coupler can be selected once the required SCFM is determined. The table on page 308 summarizes the technical specifications of all **TOPRING** couplers.

Note that the inside diameter of the air hose used can be matched to the size of the coupler (e.g. ¼ I.D. hose, ¼ coupler). However, pressure and air volume restrictions such as a 1/2 I.D. hose with a 1/4 coupler must be avoided.

Finally, the maximum operating pressure of the selected connection must be equal to or greater than the maximum pressure of the compressed air system.

WARNING

Over-pressurization could result in a sudden failure of the coupler causing severe bodily injury or death.

Be sure to select the proper coupler for your application and use only within the specified service pressure range.

TECH TIP

Refer to the pneumatic tools flow reference guide page 263



QUICK COUPLERS S20 TO S31

PLUG PROFILE USED

The plug profile determines the type of coupler to be used.
Most couplers are associated with a single plug profile (except for the «Universal» type coupler that accepts multiple plug profiles).

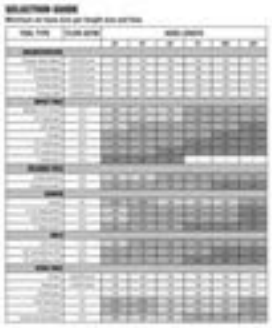
TOPRING offers a reference guide for plug types on page 307 (illustrations are to scale).

The opening of the plug determines the quantity of air (SCFM).
The ULTRAFLO S31 plug has an opening of 7.8 mm and offers flow rates from 50 to 80 SCFM.

TECH TIP

Refer to the pneumatic tools flow reference guide page 263





FREQUENCY OF CONNECTION/DISCONNECTION

AUTOMATIC OR MANUAL COUPLERS ?

If the coupler must be disconnected several times a day, the automatic coupler is a better option. The connection is made by inserting the plug into the coupler without having to activate the sliding sleeve manually (but must be activated for disconnection).
To use the manual coupling, the sleeve must be manually retracted to connect or disconnect the plug.

AUTOMATIC COUPLERS



TOPQUIK S1 | TOPQUIK | QUIKSILVER | AUTOMAX | AUTOMAX SLIM | UNISAFE | ISOSAFE | UNIQUIK | UNIMAX

MANUAL COUPLERS



TOPQUIK SC | MAXQUIK | MAXQUIK PLUS

CONDITIONS OF USE

QUIKSILVER couplers offer greater resistance to harsh environments. They are also more resistant to applications where there are frequent impacts and high operating pressures.

Environmental conditions including moisture, water, chemicals and air pollutants can also cause premature deterioration of the couplers.

For this type of environment, a stainless steel coupler is preferred.



QUIKSILVER



MAXQUIK
STAINLESS STEEL

QUICK COUPLERS S20 TO S31

FLUIDS AND TEMPERATURES

The material of the coupler body and seal must be compatible with the fluids present and the operating temperature. The limits of the coupler must never be exceeded in order to increase their service life.



DELICATE SURFACES TO PROTECT

In specific industries and applications, the risk of scratches on finished products is not acceptable (car body, furniture manufacturing, etc.).

Composite couplers protect delicate surfaces against scratches effectively.



ERGONOMICS FOR THE USER

TOPQUIK couplers are very light compared to metal couplers offering better ergonomics for the user.

Free-angle fittings also offer improved tool handling and help reduce fatigue at the wrist (see Series 62).



ANTI-HOSE WHIP

Using a short anti-hose whip between the tool and the coupler will isolate the vibration on the coupler and extend its life while reducing the hazard of whipping.



WARNING

Anti-hose whip air hoses are highly recommended for all impact tools, or when strong vibrations are present. See Series 62 for more details.

S20

U 1/4

UNISAFE

SAFETY QUICK COUPLERS
UNIVERSAL INTERCHANGE
(AUTOMATIC)

200 PSI | 34 SCFM | SAFETY

Features and benefits

- Accept ULTRAFLO, 1/4 INDUSTRIAL, ARO 210, 1/4 TRUFLATE, and LINCOLN type plugs
- Safety coupler minimizes the possibility of hazardous hose whip by exhausting air pressure prior to disconnection
- Valve sleeve is operated independently of locking sleeve. When the valve sleeve is moved to shut off airflow downstream pressure is automatically vented
- Disconnection and connection are performed easily at zero pressure
- Automatic push-to-connect operation
- Proven six-ball locking mechanism evenly distributes load to resist wear and to provide positive connections. It also provides accurate alignment and allows a swivelling action to reduce hose torque
- Knurling and grooves on the sleeves provide a good gripping surface for ease of operation
- Also act as a slide valve for shutting down air to applications

Applications

Any air tool or automated equipment connection where safety is of utmost concern (hose whip, accidental disconnection)

Materials

Body: Nickel plated steel

Sleeve: Nickel plated steel

Valve: Nickel plated steel

Valve Spring: Zinc plated steel

Locking Mechanism:
Hardened and nickel plated steel balls

Seals: Nitrile rubber

Specifications

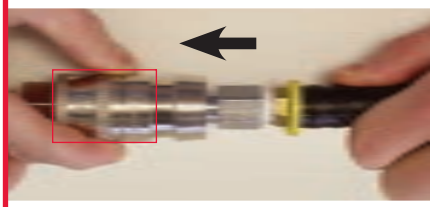
Maximum Working Pressure: 200 PSI

Working Temperature: -20 to 93 °C

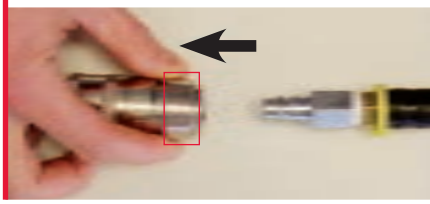
Airflow: 34 SCFM at 100 PSIG inlet with 10 PSIG pressure drop

SAFETY SOLUTION WITH A 2-STEP DISCONNECTION

Slide the large sleeve to release downstream pressure **1**



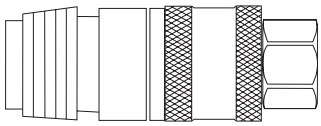
Slide the small sleeve to release the plug **2**



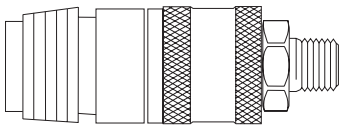


Accept 5 types of plugs: ULTRAFLO, 1/4 INDUSTRIAL, ARO 210, 1/4 TRUFLATE, and LINCOLN

THE SOLUTION to coupler confusion



Product No	Female Thread
20.448	1/4 (F) NPT



Product No	Male Thread
20.648	1/4 (M) NPT

S20 U 1/4 UNIQUIK
QUICK COUPLERS UNIVERSAL INTERCHANGE (AUTOMATIC)

150 PSI | 35 SCFM

Features and benefits

- Accept 1/4 INDUSTRIAL, 1/4 TRUFLATE, and ARO 210 type plugs
- Automatic push-to-connect operation
- Sleeve guard protects against accidental disconnection when the coupler is dragged on the floor or over obstructions
- Deep knurled socket sleeve for positive gripping
- Ball locking mechanism insuring on effective and secure connection



Nickel plated brass



Accept 3 types of plugs: 1/4 INDUSTRIAL, ARO 210 and 1/4 TRUFLATE



THE SOLUTION to coupler confusion

Applications

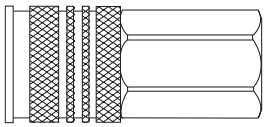
Compressed air distribution systems
Air tools

Materials

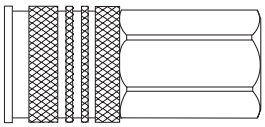
Body: Brass or nickel plated brass
Sleeve: Zinc plated steel / Nickel plated steel
Valve: Zinc plated brass
Valve Spring: Stainless steel
Locking Mechanism: Nickel plated steel balls
Seals: Nitrile rubber

Specifications

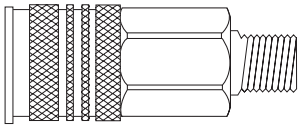
Maximum Working Pressure: 150 PSI
Working Temperature: -40 to 71 °C
Airflow: 35 SCFM at 100 PSIG inlet with 10 PSIG pressure drop



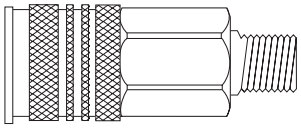
Brass **Product No**	Female Thread
20.440	1/4 (F) NPT
20.460	3/8 (F) NPT



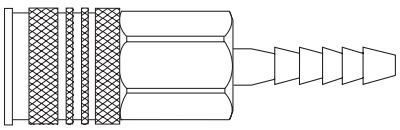
Nickel Plated Brass **Product No**	Female Thread
20.442	1/4 (F) NPT



Brass **Product No**	Male Thread
20.640	1/4 (M) NPT
20.660	3/8 (M) NPT



Nickel Plated Brass **Product No**	Male Thread
20.642	1/4 (M) NPT



Brass **Product No**	Hose Barb
20.740	1/4 I.D.
20.760	3/8 I.D.

S20

U 1/4

UNIMAX
QUICK COUPLERS
UNIVERSAL INTERCHANGE
(AUTOMATIC)

200 PSI

37 SCFM

Features and benefits

- Accept ULTRAFLO, 1/4 INDUSTRIAL, ARO 210, 1/4 TRUFLATE, and LINCOLN type plugs
- Proven six-ball locking mechanism evenly distributes load to resist wear for longer service life
- Automatic push-to-connect operation
- Sleeve guard protects against accidental disconnection when the coupler is dragged on the floor or over obstructions
- Deep knurled socket sleeve for positive gripping

Applications

Compressed air distribution systems
Air tools

Materials

Body Nickel plated steel

Sleeve: Nickel plated steel

Valve: Nickel plated steel

Valve Spring: Zinc plated steel

Locking Mechanism:
Hardened and nickel plated steel balls

Seals: Nitrile rubber

Specifications

Maximum Working Pressure: 200 PSI

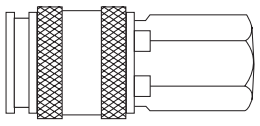
Working Temperature: -40 to 100 °C

Airflow: 37 SCFM at 100 PSIG inlet with 10 PSIG pressure drop

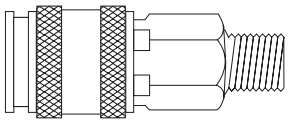


Accept ULTRAFLO, 1/4 INDUSTRIAL, ARO 210, 1/4 TRUFLATE, and LINCOLN type plugs

THE SOLUTION to coupler confusion



Product No	Female Thread
20.441	1/4 (F) NPT



Product No	Male Thread
20.641	1/4 (M) NPT

S20

I/M 1/4 PLUGS INDUSTRIAL INTERCHANGE

Features and benefits

- Compatible with 1/4 INDUSTRIAL couplers
- Compatible with ISO standards 6150 B-12 and A-A59439
- Zinc plated or stainless steel 304 for strength
- Corrosion-resistant for long service life
- Manufactured with high quality standards to ensure compatibility
- Threads sealant coating for airtight connections (20.246 and 20.248)

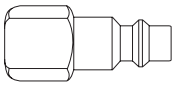
30°/ 45° / 75°
FREE ANGLE PLUGS

Free angle plugs are designed to allow a rotation of 360 ° and an angle up to 30 °, 45 ° or 75 ° for better ergonomics (see Series 62).

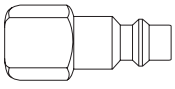


62.321 62.360 62.430 62.385



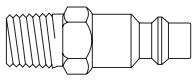


Zinc Plated Steel **Product No**	Female Thread
20.122	1/8 (F) NPT
20.142	1/4 (F) NPT
20.162	3/8 (F) NPT

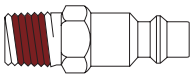


Stainless Steel **Product No**	Female Thread
20.146	1/4 (F) NPT

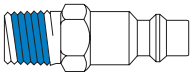




Zinc Plated Steel **Product No**	Male Thread
20.222	1/8 (M) NPT
20.242	1/4 (M) NPT
20.262	3/8 (M) NPT

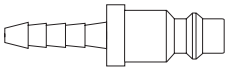


Zinc Plated Steel with sealant coating **Product No**	Male Thread
20.248	1/4 (M) NPT

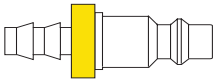


Stainless Steel with sealant coating **Product No**	Male Thread
20.246	1/4 (M) NPT





Zinc Plated Steel **Product No**	Hose Barb
20.342	1/4 I.D.
20.352	5/16 I.D.
20.362	3/8 I.D.



Zinc Plated Steel **Product No**	Hose Barb (Lock-On)
20.345	1/4 I.D.
20.365	3/8 I.D.

S20

I/M 1/4

TOPQUIK S1
SAFETY QUICK COUPLERS
INDUSTRIAL INTERCHANGE
(AUTOMATIC)

174 PSI | 34 SCFM | SAFETY | ERGONOMICS

Features and benefits

- Accept 1/4 INDUSTRIAL type plugs (A-A59439)
- Prevent the risk of dangerous hose whip or accidental disconnection
- Resistant to abrasion, vibrations, corrosion, impacts and crushing
- Non-marring coupler body prevents scratching of delicate surfaces
- Swivel body allows quick installation and optimal positioning
- 1 push safe disconnection
- Dowstream pressure is automatically vented and disconnection is easily performed at zero pressure
- Comply with the safety requirement of ISO 4414 standard
- Disconnection noise level of only 80 dB
- Leak-free design reduces energy costs
- Silicone-free construction to avoid the risk of compressed air contamination during the application of painted or varnish

Applications

Compressed air distribution systems
Air tools

Materials

Body: Anti-static polyester composite

Weight: 73 g

Locking Mecanism: Steel balls

Other components: Steel with anti-corrosion treatment or aluminum

Seals: Nitrile rubber

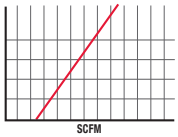
Specifications

Maximum Working Pressure: 174 PSI

Working Temperature: -15 to 70 °C

Airflow: 34 SCFM at 100 PSIG inlet with 10 PSIG pressure drop

Performance:
Pressure drop chart (PSI/SCFM) available on TOPRING.com



SAFE DISCONNECTION
IN 1 SINGLE PUSH

With a single push on the button, the plug is disconnected but held within the coupler



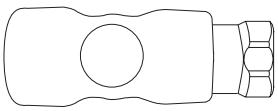
The plug can be removed safely



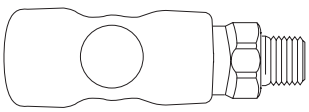


Compatible plugs page 315

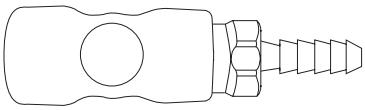
BLUE BUTTON indicates INDUSTRIAL interchange coupler



Product No	Female Thread
20.415	1/4 (F) NPT
20.435	3/8 (F) NPT
20.475	1/2 (F) NPT



Product No	Male Thread
20.615	1/4 (M) NPT
20.635	3/8 (M) NPT
20.675	1/2 (M) NPT



Product No	Hose Barb
20.715	1/4 I.D.
20.735	3/8 I.D.

MANIFOLD WITH TOPQUIK S1 QUICK COUPLERS



Product No	Description
20.705	2 x 20.675 • coupler 1/2 (M) NPT
	1 x 47.130 • manifold

S20

I/M 1/4

TOPQUIK SC
SAFETY QUICK COUPLERS INDUSTRIAL INTERCHANGE (MANUAL)

360 PSI | 38 SCFM | SAFETY

Features and benefits

- Accept 1/4 INDUSTRIAL type plugs (A-A59439)
- Prevent dangerous hose whip through a 2-step disconnection making it safe
- Meet ISO 4414 safety standards
- Full-flow: tools work at maximal performance without having to increase the supply pressure
- Zero load pressure
  - connects with no effort because no pressure resistance
  - safe disconnection because downstream pressure is automatically vented
- Low disconnection noise reduces workplace noise pollution
- Reliability and durability

Applications

Assembly lines and air tools and where hose whip and disconnection must be avoided

Materials

Black part: Steel, tenifer treated

Sleeve: Zinc diecast, nickel plated, orange rubber coating

Housing: Steel nickel plated

Cylinder: Surface hardened steel, nickel plated

Valve Spring: Stainless steel

Seal: Nitrile rubber

Specifications

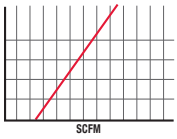
Maximum Working Pressure: 360 PSI

Connection/disconnection Pressure: 200 PSI

Working Temperature: -20 to 100 °C

Airflow: 38 SCFM at 1100 PSIG inlet with 10 PSIG pressure drop

Performance: Pressure drop chart (PSI/SCFM) available on TOPRING.com

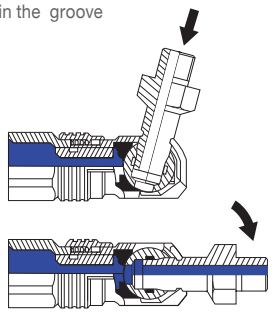


SAFETY SOLUTION WITH A 2-STEP DISCONNECTION

CONNECTION

Push compatible plug into coupling and swing approximately 90 ° until the orange ring engages in the groove

1

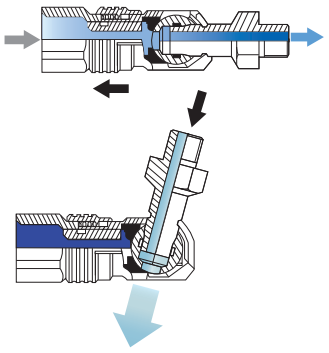


Pressure is in motion

DISCONNECTION

Pull back orange ring and swing plug to stop

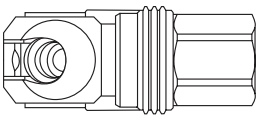
2



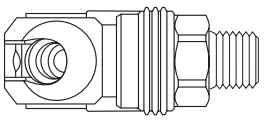
In order to prevent the hose from ejecting dangerously, the plug must be held in the hand until the hose is completely ventilated



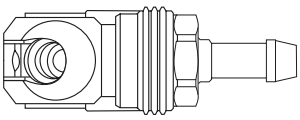
Compatible plugs page 315



Product No	Female Thread
20.847	1/4 (F) NPT
20.867	3/8 (F) NPT
20.887	1/2 (F) NPT



Product No	Male Thread
20.947	1/4 (M) NPT
20.967	3/8 (M) NPT
20.987	1/2 (M) NPT



Product No	Hose Barb
20.547	1/4 I. D.
20.557	5/16 I.D.
20.567	3/8 I.D.



Unbreakable polyamide cover

Product No	
20.007	For TOPQUIK SC 1/4

The polyamide cover is slipped over the housing of the TOPQUIK SC to protect the work piece, e.g. for work on car body parts, furniture, etc.



Vinyl guard

Product No	
20.017	For TOPQUIK SC 1/4

Slides over airline coupling installation. Provides complete protective coverage of coupler and plug.

S20

I/M 1/4 TOPQUIK SAFETY QUICK COUPLERS INDUSTRIAL INTERCHANGE (AUTOMATIC)

225 PSI | 36 SCFM | SAFETY

Features and benefits

- Accept 1/4 INDUSTRIAL type plugs (A-A-59439)
- Prevent dangerous hose whip through a two-step disconnection
- Shock and crush resistant coupler provide exceptionally long service life
- Non-marring coupler body prevents scratching of delicate surfaces
- Super lightweight composite body contributes to ergonomics and safety
- Automatic push-to-connect operation
- Downstream pressure is automatically vented and disconnection is performed easily at zero pressure
- Meet ISO 4414 safety standards
- Disconnection noise level of only 80 dB
- Leak-proof reliability

Applications

Any pneumatic connection where safety is of utmost concern (hose whip, accidental disconnection)

Materials

Body: High-impact fiberglass composite

Backnut: Nickel plated brass

Seals: Nitrile rubber

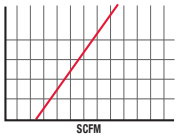
Specifications

Maximum Working Pressure: 225 PSI

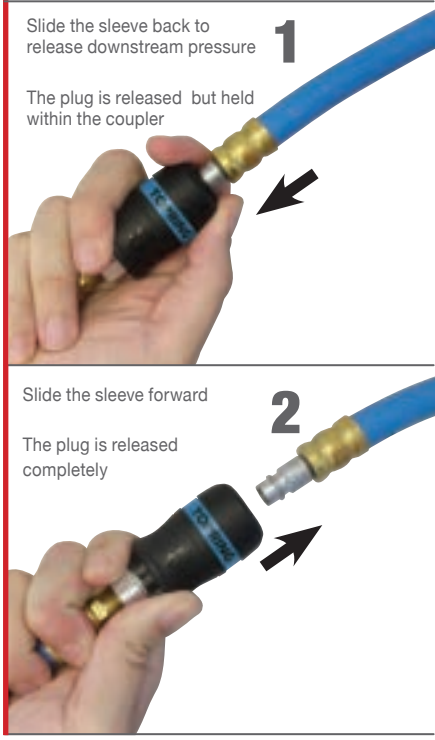
Working Temperature: -15 to 70 °C

Airflow: 36 SCFM at 100 PSIG inlet with 10 PSIG pressure drop

Performance: Pressure drop chart (PSI/SCFM) available on TOPRING.com



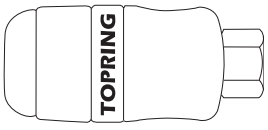
SAFETY SOLUTION WITH A 2-STEP DISCONNECTION





Compatible plugs page 315

BLUE RING indicates INDUSTRIAL interchange coupler



Product No	Female Thread
20.449	1/4 (F) NPT
20.469	3/8 (F) NPT



Product No	Male Thread
20.649	1/4 (M) NPT
20.669	3/8 (M) NPT

S20
I/M 1/4 QUIKSILVER QUICK COUPLERS INDUSTRIAL INTERCHANGE (AUTOMATIC)

500 PSI

44 SCFM

Features and benefits

- Accept 1/4 INDUSTRIAL type plugs (A-A-59439)
- High performance, corrosion-resistant coupler for long service life
- Deliver high air volume with low pressure drop for better tool performance
- Drag guard protects against accidental disconnection
- Automatic push-to-connect operation
- Easy to connect, even under pressure
- Deep knurled socket sleeve for positive gripping
- Proven and positive connection using ball locking mechanism

Applications

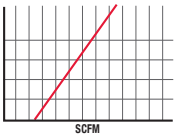
Compressed air distribution systems
Air tools

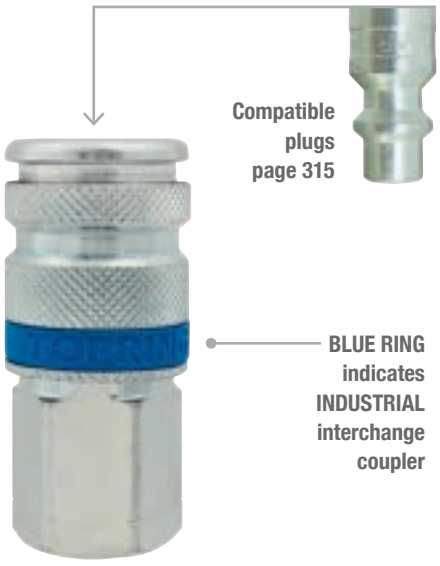
Materials

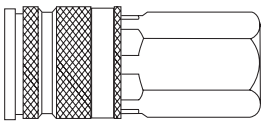
Body: Zinc plated steel
Drag Guard: Zinc plated steel
Valve: Acetal
Sleeve: Zinc plated steel
Valve Spring: Stainless steel
Locking Mechanism: Hardened steel balls

Specifications

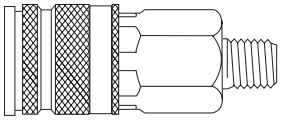
Maximum Working Pressure: 500 PSI
Working Temperature: -20 to 60 °C
Airflow: 44 SCFM at 100 PSIG inlet with 10 PSIG pressure drop
Performance: Pressure drop chart (PSI/SCFM) available on TOPRING.com







Product No	Female Thread
20.446	1/4 (F) NPT
20.466	3/8 (F) NPT
20.486	1/2 (F) NPT



Product No	Male Thread
20.646	1/4 (M) NPT
20.666	3/8 (M) NPT
20.686	1/2 (M) NPT

S20

I/M 1/4

AUTOMAX QUICK COUPLERS INDUSTRIAL INTERCHANGE (AUTOMATIC)

250 PSI

37 SCFM

Features and benefits

- Accept 1/4 INDUSTRIAL type plugs (A-A-59439)
- Automatic push-to-connect operation
- Proven and positive connection using pin lock mechanism

Applications

Compressed air distribution systems
Air tools

Materials

Body: Brass

Backnut: Zinc plated steel

Sleeve: Zinc plated steel

Springs: Stainless steel

Valve: Brass

Locking Mechanism:
Hardened steel and zinc plated pins

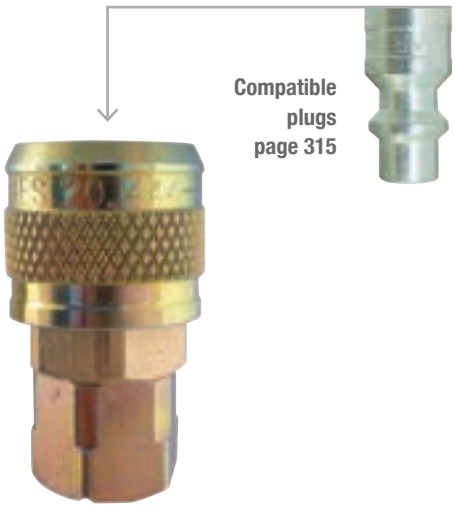
Seals: Nitrile rubber

Specifications

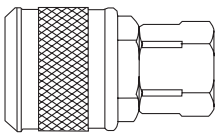
Maximum Working Pressure: 250 PSI

Working Temperature: -40 to 107 °C

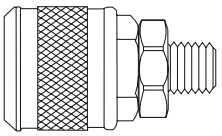
Airflow: 37 SCFM at 100 PSIG inlet with 10 PSIG pressure drop



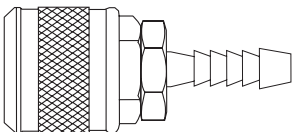
Compatible plugs page 315



Product No	Female Thread
20.444	1/4 (F) NPT
20.464	3/8 (F) NPT



Product No	Male Thread
20.644	1/4 (M) NPT
20.664	3/8 (M) NPT



Product No	Hose Barb
20.744	1/4 I.D.
20.764	3/8 I.D.

S20

I/M 1/4

AUTOMAX SLIM
QUICK COUPLERS
INDUSTRIAL INTERCHANGE
(AUTOMATIC)

150 PSI

45 SCFM

Features and benefits

- Accept 1/4 INDUSTRIAL type plugs (A-A-59439)
- Automatic push-to-connect operation
- High airflow
- 33% lighter than a regular coupler
- Compact design prevents accidental disconnection
- One hand disconnection
- Corrosion-resistant brass
- Deep knurled socket sleeve for positive gripping
- Proven and positive connection using six-ball locking mechanism

Applications

Ideal for the furniture and textile industries
Air tools

Materials

Body: Brass
Sleeve: Brass
Valve: Brass
Valve Spring: Steel
Locking Mechanism: Steel balls
Seals: Nitrile rubber
Sealant: Sealant coating for airtight connection (20.643)

Specifications

Maximum Working Pressure: 150 PSI
Working Temperature: -20 to 80 °C
Airflow: 45 SCFM to 100 PSIG inlet with 10 PSIG pressure drop

ONE HAND DISCONNECTION

Hold coupler with 3 fingers
Remove sleeve with thumb and index





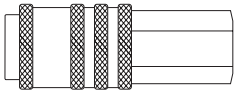
Comparative size between regular AUTOMAX and AUTOMAX SLIM



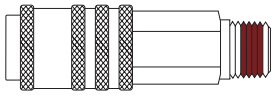
Compatible plugs page 315



Male thread with sealant coating



Product No	Female Thread
20.443	1/4 (F) NPT



Product No	Male Thread
20.643	1/4 (M) NPT

WARNING

It is not recommended to use SLIM couplers with air impact tools unless an anti-hose whip air hose is installed between the tool and the coupler.
For more information, see series 62.

S20

I/M 1/4

MAXQUIK PLUS

250 PSI

37 SCFM

QUICK COUPLERS
INDUSTRIAL INTERCHANGE
(MANUAL)

Features and benefits

- Accept 1/4 INDUSTRIAL type plugs (A-A-59439)
- Rugged and reliable
- Ball locking mechanism
- Sleeve must be manually retracted to connect or disconnect the plug

Applications

General pneumatic applications, air tools

Food and pharmaceutical industries (stainless steel)

Materials

Body: Brass/stainless steel 304

Sleeve: Nickel plated steel/stainless steel

Valve: Zinc plated steel/stainless steel

Locking Mechanism: Stainless steel balls

Valve Spring: Stainless steel

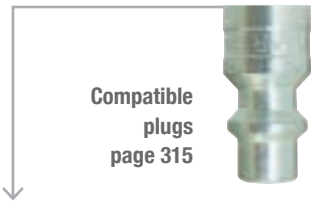
Seals: Nitrile rubber

Specifications

Maximum Working Pressure: 250 PSI

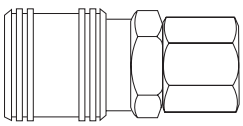
Working Temperature: -40 to 107 °C

Airflow: 37 SCFM at 100 PSIG inlet with 10 PSIG pressure drop

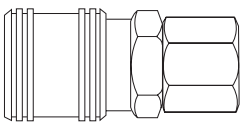




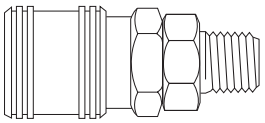
Brass Stainless Steel 304



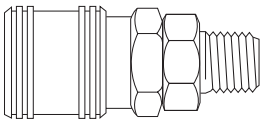
Brass **Product No**	Female Thread
20.844	1/4 (F) NPT



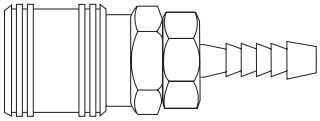
Stainless Steel **Product No**	Female Thread
20.846	1/4 (F) NPT



Brass **Product No**	Male Thread
20.944	1/4 (M) NPT



Stainless Steel with Sealant Coating **Product No**	Male Thread
20.946	1/4 (M) NPT



Brass **Product No**	Hose Barb
20.544	1/4 I.D.
20.564	3/8 I.D.

S20

I/M 1/4

MAXQUIK QUICK COUPLERS INDUSTRIAL INTERCHANGE (MANUAL)

250 PSI

24 SCFM

Features and benefits

- Accept 1/4 INDUSTRIAL type plugs (A-A-59439)
- Sleeve must be manually retracted to connect or disconnect the plug
- Compact and economic design
- Four-ball locking mechanism allows for a tight and long-lasting connection
- Sleeve guard prevents accidental disconnection
- Deep knurled socket sleeve for positive gripping

Applications

Air tools (staplers, nailers, screwdrivers, etc.)

Materials

Body: Zinc plated steel

Backnut: Zinc plated steel

Sleeve: Zinc plated steel

Valve: Zinc plated steel

Valve Spring: Nickel plated steel

Locking Mechanism: Nickel plated steel balls

Seals: Nitrile rubber

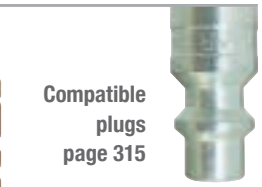
Specifications

Maximum Working Pressure: 250 PSI

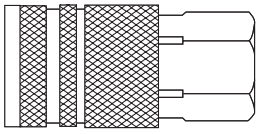
Working Temperature: -40 to 107 °C

Airflow: 24 SCFM at 100 PSIG inlet with 10 PSIG pressure drop

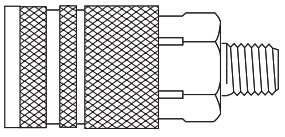




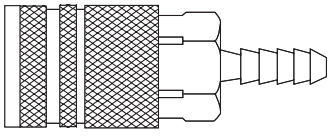
Compatible plugs page 315



Product No	Female Thread
20.842	1/4 (F) NPT
20.862	3/8 (F) NPT



Product No	Male Thread
20.942	1/4 (M) NPT
20.962	3/8 (M) NPT



Product No	Hose Barb
20.542	1/4 I.D.
20.562	3/8 I.D.

S20
I/M 1/4 MAXQUIK INDUSTRIAL INTERCHANGE COUPLER KITS

HOSE CONNECTION (MANUAL)

Connections to the tool or the air supply



Product No	Description
20.704C	1 x 20.842 • coupler 1/4 (F) NPT
	1 x 20.142 • plug 1/4 (F) NPT
	1 x 20.242 • plug 1/4 (M) NPT
	1 x 41.105 • union 1/4 (M) NPT

AIR TOOL CONNECTION (MANUAL)

Ideal for connecting a tool to an air hose



Product No	Description
20.711C	1 x 20.842 • coupler 1/4 (F) NPT
	1 x 20.242 • plug 1/4 (M) NPT

AIR TOOL CONNECTION (MANUAL)

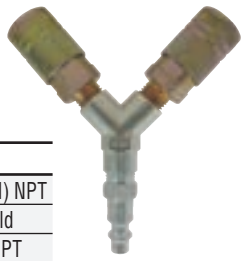
Allows easily interchange 3 tools to an air hose



Product No	Description
20.712C	1 x 20.842 • coupler 1/4 (F) NPT
	1 x 20.142 • plug 1/4 (F) NPT
	3 x 20.242 • plug 1/4 (M) NPT

MANIFOLD WITH COUPLERS AND PLUG (MANUAL)

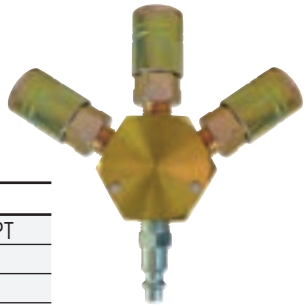
Connections of 2 tools to a single air hose



Product No	Description
20.702C	2 x 20.942 • coupler 1/4 (M) NPT
	1 x 62.850 • double manifold
	1 x 20.242 • plug 1/4 (M) NPT

MANIFOLD WITH COUPLERS AND PLUG (MANUAL)

Connections of 3 tools to a single air hose



Product No	Description
20.703C	3 x 20.942 • coupler 1/4 (M) NPT
	1 x 62.810 • triple manifold
	1 x 20.242 • plug 1/4 (M) NPT

QUIKSILVER I/M 1/4 INDUSTRIAL INTERCHANGE KIT

ROTATIVE MANIFOLD WITH COUPLERS (AUTOMATIC)

Allows connection of 3 tools to a single air hose or air supply



Product No	Description
20.708	3 x 20.446 • coupler 1/4 (F) NPT
	1 x 62.750 • triple rotative manifold

AUTOMAX SLIM I/M 1/4 INDUSTRIAL INTERCHANGE KIT

AIR TOOL CONNECTION (AUTOMATIC)

Ideal for connecting a tool to an air hose



Product No	Description
20.713C	1 x 20.443 • coupler 1/4 (F) NPT
	1 x 20.248 • plug 1/4 (M) NPT

S21

I/M 3/8 PLUGS INDUSTRIAL INTERCHANGE

Features and benefits

- Compatible with 3/8 INDUSTRIAL couplers
- Hardened steel construction for strength and corrosion resistant zinc plating for long service life
- Compatible with ISO standards 6150 B-15 and A-A 59439

45° / 75° FREE ANGLE PLUGS

Free angle plugs are designed to allow a rotation of 360 ° and an angle up to 45 ° or 75 ° for better ergonomics (see Series 62).

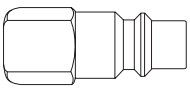


62.324 62.387



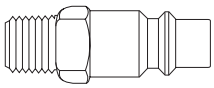
For airtight connection, it is recommended to use PTFE tape on male threads





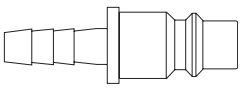
Product No	Female Thread
21.142	1/4 (F) NPT
21.162	3/8 (F) NPT
21.182	1/2 (F) NPT





Product No	Male Thread
21.242	1/4 (M) NPT
21.262	3/8 (M) NPT
21.282	1/2 (M) NPT





Product No	Hose Barb
21.342	1/4 I.D.
21.362	3/8 I.D.
21.382	1/2 I.D.

S21

I/M 3/8

TOPQUIK S1
SAFETY QUICK COUPLERS INDUSTRIAL INTERCHANGE (AUTOMATIC)

174 PSI | 81 SCFM | SAFETY | ERGONOMICS

Features and benefits

- Accept 3/8 INDUSTRIAL type plugs (A-A59439)
- Prevent the risk of dangerous hose whip or accidental disconnection
- Resistant to abrasion, vibrations, corrosion, impacts and crushing
- Non-marring coupler body prevents scratching of delicate surfaces
- Swivel body allows quick installation and optimal positioning
- 1 push safe disconnection
- Dowstream pressure is automatically vented and disconnection is easily performed at zero pressure
- Comply with the safety requirement of ISO 4414 standard
- Disconnection noise level of only 80 dB
- Leak-free design reduces energy costs
- Silicone-free construction to avoid the risk of compressed air contamination during the application of painted or varnish

Applications

Compressed air distribution systems
Air tools

Materials

Body: Anti-static polyester composite

Weight: 113 g

Locking Mecanism: Steel balls

Other components: Steel with anti-corrosion treatment or aluminum

Seals: Nitrile rubber

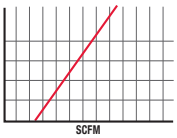
Specifications

Maximum WorkingPressure: 174 PSI

Working Temperature: -15 to 70 °C

Airflow: 81 SCFM at 100 PSIG inlet with 10 PSIG pressure drop

Performance:
Pressure drop chart (PSI/SCFM) available on TOPRING.com



SAFE DISCONNECTION IN 1 SINGLE PUSH

With a single push on the button, the plug is disconnected but held within the coupler



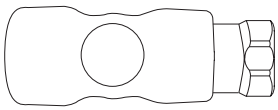
The plug can be removed safely



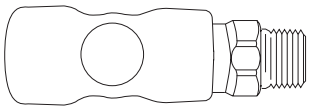


Compatible plugs page 325

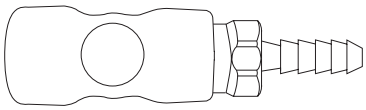
BLUE BUTTON indicates INDUSTRIAL interchange coupler



Product No	Female Thread
21.415	1/4 (F) NPT
21.435	3/8 (F) NPT
21.475	1/2 (F) NPT



Product No	Male Thread
21.615	1/4 (M) NPT
21.635	3/8 (M) NPT
21.675	1/2 (M) NPT



Product No	Hose Barb
21.735	3/8 I.D.
21.775	1/2 I.D.

MANIFOLD WITH TOPQUIK S1 QUICK COUPLERS



Product No	Description
21.705	2 x 21.675 • coupler 1/2 (M) NPT
	1 x 47.130 • manifold

S21

I/M 3/8

TOPQUIK SC
SAFETY QUICK COUPLERS
INDUSTRIAL INTERCHANGE
(MANUAL)

360 PSI | 75 SCFM | SAFETY

Features and benefits

- Accept 3/8 INDUSTRIAL type plugs (A-A59439)
- Prevent dangerous hose whip through a 2-step disconnection making it safe
- Meet ISO 4414 safety standards
- Full-flow: tools work at maximal performance without having to increase the supply pressure
- Zero load pressure
  - connects with no effort because no pressure resistance
  - safe disconnection because downstream pressure is automatically vented
- Low disconnection noise reduces workplace noise pollution
- Reliability and durability

Applications

Assembly lines and air tools and where hose whip and disconnection must be avoided

Materials

Black part: Steel, tenifer treated

Sleeve: Zinc diecast, nickel plated, orange rubber coating

Housing: Steel nickel plated

Cylinder: Surface hardened steel, nickel plated

Valve Spring: Stainless steel

Seal: Nitrile rubber

Specifications

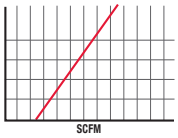
Maximum Working Pressure: 360 PSI

Connection/disconnection Pressure: Maximum 200 PSI

Working Temperature: -20 to 100 °C

Airflow: 75 SCFM at 100 PSIG inlet with 10 PSIG pressure drop

Performance: Pressure drop chart (PSI/SCFM) available on TOPRING.com

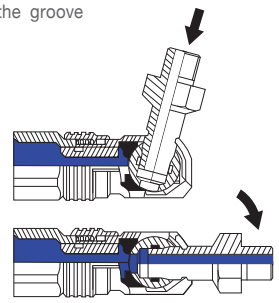


SAFETY SOLUTION WITH A 2-STEP DISCONNECTION

CONNECTION

Push compatible plug into coupling and swing approximately 90 ° until the orange ring engages in the groove

1

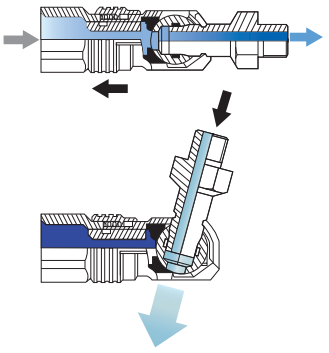


Pressure is in motion

DISCONNECTION

Pull back orange ring and swing plug to stop

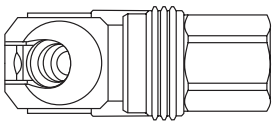
2



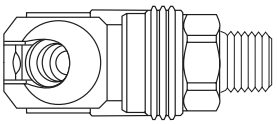
In order to prevent the hose from ejecting dangerously, the plug must be held in the hand until the hose is completely ventilated



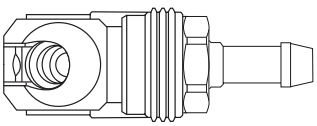
Compatible plugs page 325



Product No	Female Thread
21.847	1/4 (F) NPT
21.867	3/8 (F) NPT
21.887	1/2 (F) NPT



Product No	Male Thread
21.947	1/4 (M) NPT
21.967	3/8 (M) NPT
21.987	1/2 (M) NPT



Product No	Hose Barb
21.557	5/16 I.D.
21.567	3/8 I.D.
21.587	1/2 I.D.



Unbreakable polyamide cover

Product No	
21.007	For TOPQUIK SC 3/8

The polyamide cover is slipped over the housing of the TOPQUIK SC to protect the work piece, e.g. for work on car body parts, furniture, etc.



Vinyl guard

Product No	
21.017	For TOPQUIK SC 3/8

Slides over airline coupling installation. Provides complete protective coverage of coupler and plug

S21

I/M 3/8

TOPQUIK
SAFETY QUICK COUPLERS INDUSTRIAL INTERCHANGE (AUTOMATIC)

225 PSI | 72 SCFM | SAFETY

Features and benefits

- Accept 3/8 INDUSTRIAL type plugs (A-A-59439)
- Prevent dangerous hose whip through a two-step disconnection
- Shock and crush resistant coupler provide exceptionally long service life
- Non-marring coupler body prevents scratching of delicate surfaces
- Super lightweight composite body contributes to ergonomics and safety
- Automatic push-to-connect operation
- Downstream pressure is automatically vented and disconnection is performed easily at zero pressure
- Meet ISO 4414 safety standards
- Disconnection noise level of only 80 dB
- Leak-proof reliability

Applications

Any air tools or automated equipment connections where safety is of utmost concern (hose whip, accidental disconnection)

Materials

Body: High-impact composite

Backnut: Nickel plated brass

Seals: Nitrile rubber

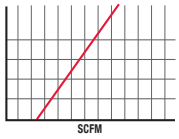
Specifications

Maximum Working Pressure: 225 PSI

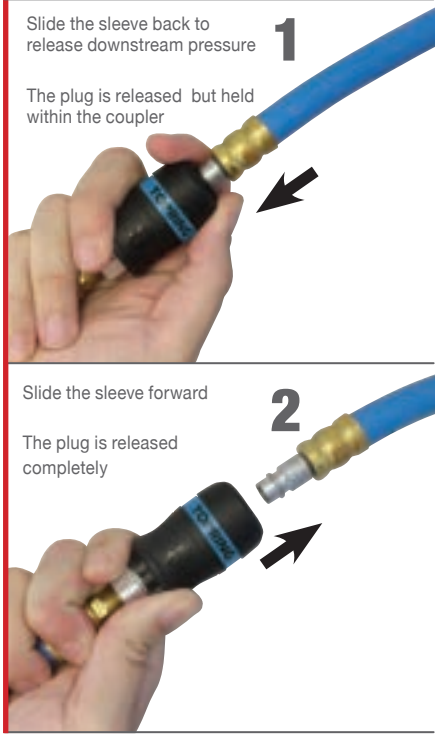
Working Temperature: -15 to 70 °C

Airflow: 72 SCFM at 100 PSIG inlet

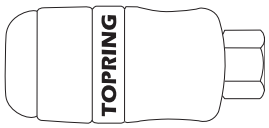
Performance: Pressure drop chart (PSI/SCFM) available on TOPRING.com



SAFETY SOLUTION WITH A 2-STEP DISCONNECTION







Product No	Female Thread
21.449	1/4 (F) NPT
21.469	3/8 (F) NPT
21.489	1/2 (F) NPT



Product No	Male Thread
21.649	1/4 (M) NPT
21.669	3/8 (M) NPT
21.689	1/2 (M) NPT

S21

I/M 3/8

QUIKSILVER
QUICK COUPLERS
INDUSTRIAL INTERCHANGE
(AUTOMATIC)

435 PSI | 72 SCFM

Features and benefits

- Accept 3/8 INDUSTRIAL type plugs (A-A-59439)
- High performance, corrosion-resistant coupler for long service life
- Deliver high air volume with low pressure drop for better tool performance
- Drag guard protects against accidental disconnection
- Automatic push-to-connect operation
- Easy to connect, even under pressure
- Deep knurled socket sleeve for positive gripping
- Proven and positive connection using ball locking mechanism

Applications

Compressed air distribution systems
Air tools

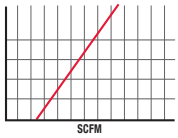
Materials

Body: Nickel plated brass
Drag Guard: Nickel plated brass
Valve: Zinc
Sleeve: Nickel plated brass
Valve Spring: Stainless steel
Locking Mechanism: Steel balls
Seals: Nitrile rubber

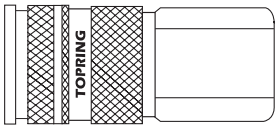
Specifications

Maximum Working Pressure: 435 PSI
Working Temperature: -20 to 100 °C
Airflow: 72 SCFM at 100 PSIG inlet with 10 PSIG pressure drop

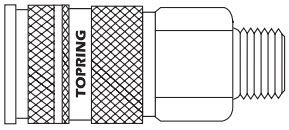
Performance:
Pressure drop chart (PSI/SCFM) available on TOPRING.com



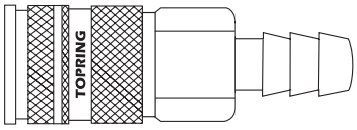




Product No	Female Thread
21.446	1/4 (F) NPT
21.466	3/8 (F) NPT
21.486	1/2 (F) NPT



Product No	Male Thread
21.666	3/8 (M) NPT
21.686	1/2 (M) NPT



Product No	Hose Barb
21.786	1/2 I.D.

S21

I/M 3/8 AUTOMAX QUICK COUPLERS INDUSTRIAL INTERCHANGE (AUTOMATIC)

250 PSI

62 SCFM

Features and benefits

- Accept 3/8 INDUSTRIAL type plugs (A-A-59439)
- Automatic push-to-connect operation
- Easy to connect, even under pressure
- Proven and positive connection using pin locking mechanism
- Designed for rigid mounting that allows a simple push-to-connect operation
- High-flow capability

Applications

Air tools

Compressed air distribution systems

Materials

Body: Brass

Backnut: Brass

Sleeve: Brass

Valve: Zinc plated steel

Valve Spring: Stainless steel

Locking Mechanism: Stainless steel pins

Seals: Nitrile rubber

Specifications

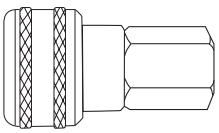
Maximum Working Pressure: 250 PSI

Working Temperature: -40 to 107 °C

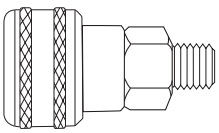
Airflow: 62 SCFM at 100 PSIG inlet with 10 PSIG pressure drop



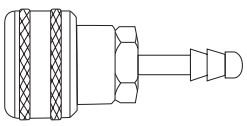
Compatible plugs page 325



Product No	Female Thread
21.442	1/4 (F) NPT
21.462	3/8 (F) NPT
21.482	1/2 (F) NPT



Product No	Male Thread
21.642	1/4 (M) NPT
21.662	3/8 (M) NPT
21.682	1/2 (M) NPT



Product No	Hose Barb
21.762	3/8 I.D.
21.782	1/2 I.D.

These couplers are designed for rigid wall mounting. They allow a simple push-to-connect operation if couplers are directly fixed to the wall or plugged into a fixed manifold.



S21

I/M 3/8 MAXQUIK QUICK COUPLERS INDUSTRIAL INTERCHANGE (MANUAL)

250 PSI

56 SCFM

Features and benefits

- Accept 3/8 INDUSTRIAL type plugs (A-A-59439)
- Heavy-duty, high-quality design
- Sleeve must be manually retracted to connect or disconnect the plug
- Proven and positive connection using a ball locking mechanism
- High-flow capability
- Drag guard protects against accidental disconnection

Applications

Air tools

Compressed air distribution systems

Materials

Body: Zinc plated steel

Backnut: Zinc plated steel

Sleeve: Zinc plated steel

Valve: Nickel plated steel

Valve Spring: Zinc plated steel

Locking Mechanism:
Hardened and nickel plated steel balls

Seals: Nitrile rubber

Specifications

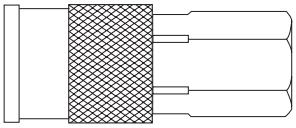
Maximum Working Pressure: 250 PSI

Working Temperature: -40 to 107 °C

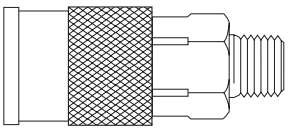
Airflow: 56 SCFM at 100 PSIG inlet with 10 PSIG pressure drop



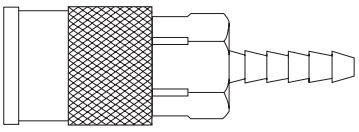
Compatible plugs page 325



Product No	Female Thread
21.842	1/4 (F) NPT
21.862	3/8 (F) NPT
21.882	1/2 (F) NPT



Product No	Male Thread
21.942	1/4 (M) NPT
21.962	3/8 (M) NPT
21.982	1/2 (M) NPT



Product No	Hose Barb
21.562	3/8 I.D.
21.582	1/2 I.D.

S22

I/M 1/2 PLUGS INDUSTRIAL INTERCHANGE

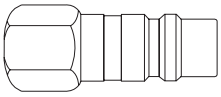
Features and benefits

- Compatible with 1/2 INDUSTRIAL type couplers
- Hardened steel construction for strength and corrosion-resistant zinc plating for long service life
- Made precisely to standards to ensure compatibility
- Compatible with ISO standards 6150 B-17 and A-A 59439



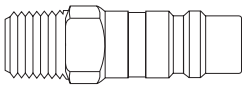
For airtight connection, it is recommended to use PTFE tape on male threads



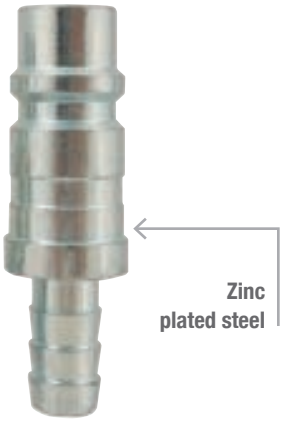


Product No	Female Thread
22.162	3/8 (F) NPT
22.182	1/2 (F) NPT
22.192	3/4 (F) NPT

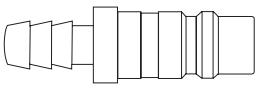




Product No	Male Thread
22.242	1/4 (M) NPT
22.262	3/8 (M) NPT
22.282	1/2 (M) NPT
22.292	3/4 (M) NPT



Zinc plated steel



Product No	Hose Barb
22.362	3/8 I.D.
22.382	1/2 I.D.

S22

I/M 1/2

TOPQUIK SC
SAFETY QUICK COUPLERS INDUSTRIAL INTERCHANGE (MANUAL)

360 PSI | 175 SCFM | SAFETY

Features and benefits

- Accept 1/2 INDUSTRIAL type plugs (A-A59439)
- Prevent dangerous hose whip through a 2-step disconnection making it safe
- Meet ISO 4414 safety standards
- Full-flow: tools work at maximal performance without having to increase the supply pressure
- Zero load pressure
  - connect with no effort because no pressure resistance
  - safe disconnection because downstream pressure is automatically vented
- Low disconnection noise reduces workplace noise pollution
- Reliability and durability

Applications

Assembly lines and air tools and where hose whip and disconnection must be avoided

Materials

Black part: Steel, tenifer treated

Sleeve: Zinc diecast, nickel plated, orange rubber coating

Housing: Steel nickel plated

Cylinder: Surface hardened steel, nickel plated

Valve Spring: Stainless steel

Seal: Nitrile rubber

Specifications

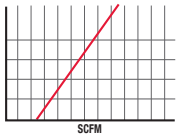
Maximum Working Pressure: 360 PSI

Connection/disconnection Pressure: Maximum 200 PSI

Working Temperature: -20 to 100 °C

Airflow: 175 SCFM at 100 PSIG inlet with 10 PSIG pressure drop

Performance: Pressure drop chart (PSI/SCFM) available on TOPRING.com

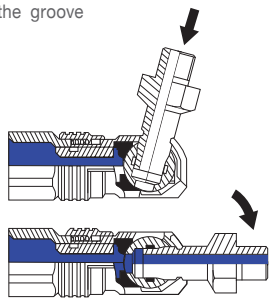


SAFETY SOLUTION WITH A 2-STEP DISCONNECTION

CONNECTION

Push compatible plug into coupling and swing approximately 90 ° until the orange ring engages in the groove

1

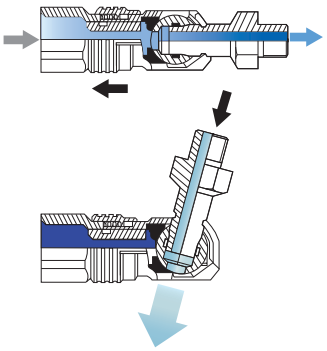


Pressure is in motion

DISCONNECTION

Pull back orange ring and swing plug to stop

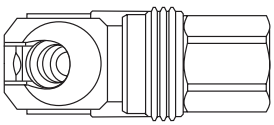
2



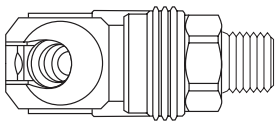
In order to prevent the hose from ejecting dangerously, the plug must be held in the hand until the hose is completely ventilated



Compatible plugs page 332



Product No	Female Thread
22.887	1/2 (F) NPT
22.897	3/4 (F) NPT



Product No	Male Thread
22.987	1/2 (M) NPT
22.997	3/4 (M) NPT



Unbreakable polyamide cover

Product No	
22.007	For TOPQUIK SC 1/2

The polyamide cover is slipped over the housing of the TOPQUIK SC to protect the work piece, e.g. for work on car body parts, furniture, etc.



Vinyl guard

Product No	
22.017	For TOPQUIK SC 1/2

Slides over airline coupling installation. Provides complete protective coverage of coupler and plug

S22

I/M 1/2

TOPQUIK
SAFETY QUICK COUPLERS INDUSTRIAL INTERCHANGE (AUTOMATIC)

225 PSI | 169 SCFM | SAFETY SOLUTION

Features and benefits

- Accept 1/2 INDUSTRIAL type plugs (A-A-59439)
- Prevent dangerous hose whip through a two-step disconnection
- Shock and crush resistant coupler provide exceptionally long service life
- Non-marring coupler body prevents scratching of delicate surfaces
- Super lightweight composite body contributes to ergonomics and safety
- Automatic push-to-connect operation
- Downstream pressure is automatically vented and disconnection is performed easily at zero pressure
- Disconnection noise level of only 80 dB
- Meet ISO 4414 safety standards
- Leak-proof reliability

Applications

Any pneumatic connection where safety is of utmost concern (hose whip, accidental disconnection)

Materials

Body: High-impact composite

Backnut: Nickel plated brass

Seals: Nitrile rubber

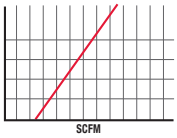
Specifications

Maximum WorkingPressure: 225 PSI

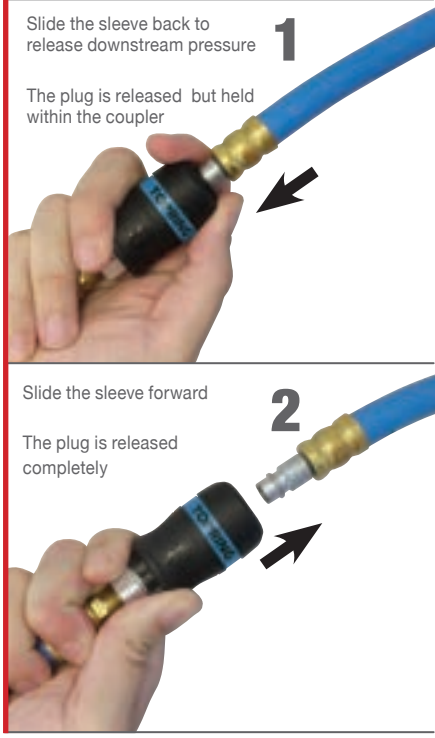
Working Temperature: -15 to 70 °C

Airflow: 169 SCFM at 100 PSIG inlet with 10 PSIG pressure drop

Performance: Pressure drop chart (PSI/SCFM) available on TOPRING.com



SAFETY SOLUTION WITH A 2-STEP DISCONNECTION

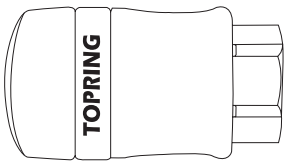




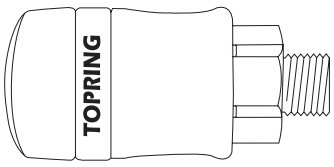
Compatible plugs page 332



BLUE RING indicates INDUSTRIAL interchange coupler



Product No	Female Thread
22.469	3/8 (F) NPT
22.489	1/2 (F) NPT



Product No	Male Thread
22.669	3/8 (M) NPT
22.689	1/2 (M) NPT

S22
I/M 1/2 QUIKSILVER QUICK COUPLERS INDUSTRIAL INTERCHANGE (AUTOMATIC)

500 PSI

145 SCFM

Features and benefits

- Accept 1/2 INDUSTRIAL type plugs (A-A-59439)
- High performance, corrosion-resistant coupler for long service life
- Delivers high air volume with low pressure drop for better tool performance
- Drag guard protects against accidental disconnection
- Automatic push-to-connect operation
- Easy to connect, even under pressure
- Deep knurled socket sleeve for positive gripping
- Proven and positive connection using ball locking mechanism

Applications

Compressed air distribution systems
Air tools

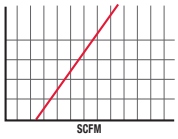
Materials

Body: Nickel plated brass
Drag Guard: Nickel plated brass
Valve: Brass
Sleeve: Nickel plated steel
Valve Spring: Stainless steel
Locking Balls: Stainless steel
Seals: Nitrile rubber

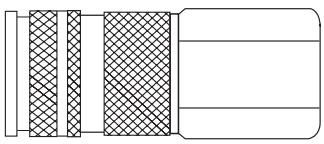
Specifications

Maximum Working Pressure: 500 PSI
Working Temperature: -20 to 100 °C
Airflow: 145 SCFM at 100 PSIG inlet with 10 PSIG pressure drop

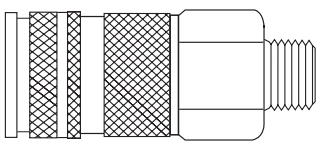
Performance:
Pressure drop chart (PSI/SCFM) available on TOPRING.com







Product No	Female Thread
22.466	3/8 (F) NPT
22.486	1/2 (F) NPT



Product No	Male Thread
22.686	1/2 (M) NPT

S22

I/M 1/2 AUTOMAX QUICK COUPLERS INDUSTRIAL INTERCHANGE (AUTOMATIC)

250 PSI

99 SCFM

Features and benefits

- Accept 1/2 INDUSTRIAL type plugs (A-A-59439)
- Automatic push-to-connect operation
- Heavy-duty, high-quality design
- Designed for rigid mounting that allows a simple push-to-connect operation
- High-flow capability

Applications

Compressed air distribution systems
Air tools

Materials

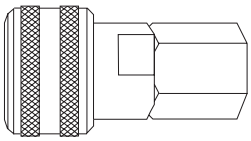
Body: Brass
Backnut: Brass
Sleeve: Brass
Valve: Zinc plated steel
Valve Spring: Stainless steel
Locking Mechanism: Stainless steel pins
Seals: Nitrile rubber

Specifications

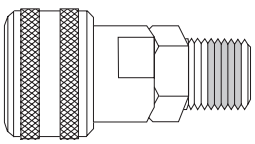
Maximum Working Pressure: 250 PSI
Working Temperature: -40 to 107 °C
Airflow: 99 SCFM at 100 PSIG inlet with 10 PSIG pressure drop



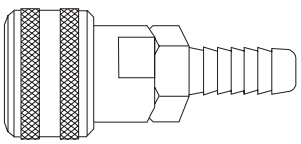
Compatible plugs page 332



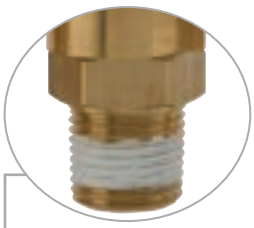
Product No	Female Thread
22.482	1/2 (F) NPT



Product No	Male Thread
22.682	1/2 (M) NPT



Product No	Hose Barb
22.782	1/2 I.D.



Male Thread with sealant coating

These couplers are designed for rigid wall mounting. They allow a simple push-to-connect operation if couplers are directly fixed to the wall or plugged into a fixed manifold.



S22

I/M 1/2

MAXQUIK QUICK COUPLERS INDUSTRIAL INTERCHANGE (MANUAL)

250 PSI | 75 SCFM

Features and benefits

- Accept 1/2 INDUSTRIAL type plugs (A-A-59439)
- High-flow capability
- Drag guard protects against accidental disconnection

Applications

Compressed air distribution systems
Air tools

Materials

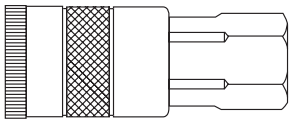
Body: Zinc plated steel
Backnut: Zinc plated steel
Sleeve: Zinc plated steel
Valve: Nickel plated steel
Valve Spring: Zinc plated steel
Locking Mechanism: Hardened and nickel plated steel
Seals: Nitrile rubber

Specifications

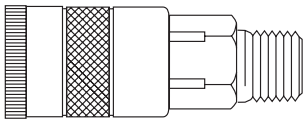
Maximum Working Pressure: 250 PSI
Working Temperature: -40 to 107 °C
Airflow: 75 SCFM at 100 PSIG inlet with 10 PSIG pressure drop



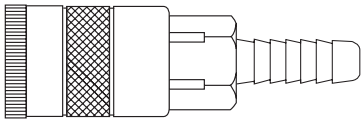
Compatible plugs page 332



Product No	Female Thread
22.862	3/8 (F) NPT
22.882	1/2 (F) NPT
22.892	3/4 (F) NPT



Product No	Male Thread
22.982	1/2 (M) NPT
22.992	3/4 (M) NPT



Product No	Hose Barb
22.582	1/2 I.D.

S23

A 1/4 ARO 210 TYPE PLUGS

Features and benefits

- Compatible with ARO 210 type couplers
- Hardened steel construction for strength and corrosion-resistant zinc plating for long service life
- Made precisely to standards to ensure compatibility
- Sealant coating for airtight connections (23.248)

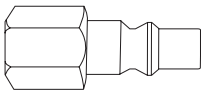
MAXPRO
30° FREE ANGLE FITTINGS

MAXPRO free angle fittings are designed to allow a rotation of 360 ° and an angle of up to 30 °for air tool and air hose supply lines (see Series 62)



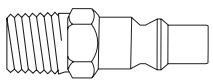
62.365



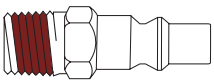


Product No	Female Thread
23.142	1/4 (F) NPT



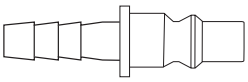


Product No	Male Thread
23.222	1/8 (M) NPT
23.242	1/4 (M) NPT



With Sealant Product No	Male Thread
23.248	1/4 (M) NPT





Product No	Hose Barb
23.342	1/4 I.D.
23.362	3/8 I.D.



For airtight connection, it is recommended to use PTFE tape on male threads

S23
A 1/4 QUIKSILVER QUICK COUPLERS ARO 210 INTERCHANGE (AUTOMATIC)

500 PSI

44 SCFM

Features and benefits

- Accept ARO 210 type plugs
- High performance, corrosion-resistant couplers
- Automatic push-to-connect operation
- Easy to connect, even under pressure
- Sleeve guard protects against accidental disconnection
- High-quality design
- Deep knurled socket sleeve for positive gripping
- Secure and efficient connection using a ball locking mechanism

Applications

Compressed air distribution systems
Air tools

Materials

Body: Zinc plated steel

Ball Retainer and Drag Guard: Zinc plated steel

Valve: Brass

Sleeve: Zinc plated steel

Valve Spring: Stainless steel

Locking Mechanism: Hardened steel balls

Seals: Nitrile rubber

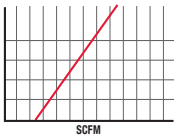
Specifications

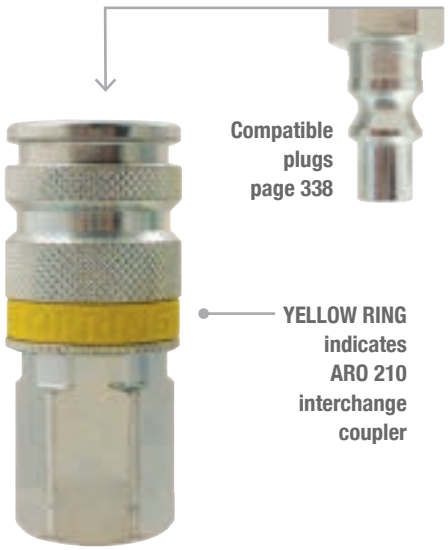
Maximum Working Pressure: 500 PSI

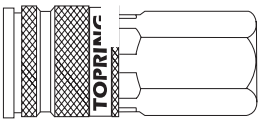
Working Temperature: -20 to 60 °C

Airflow: 44 SCFM at 100 PSIG inlet with 10 PSIG pressure drop

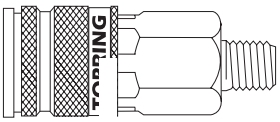
Performance:
Pressure drop chart (PSI/SCFM) available on TOPRING.com







Product No	Female Thread
23.446	1/4 (F) NPT



Product No	Male Thread
23.646	1/4 (M) NPT

S23

A 1/4

AUTOMAX
QUICK COUPLERS
ARO 210 INTERCHANGE
(AUTOMATIC)

250 PSI

34 SCFM

Features and benefits

- Accept ARO 210 type plugs
- Automatic push-to-connect operation
- Deep knurled socket sleeve offers an excellent grip

Applications

Compressed air distribution systems
Air tools

Materials

Body: Brass

Backnut: Zinc plated steel

Sleeve: Zinc plated steel

Valve: Brass

Valve Spring: Stainless steel

Locking Mechanism: Hardened steel and zinc plated pins

Seals: Nitrile rubber

Specifications

Maximum Working Pressure: 250 PSI

Working Temperature: -40 to 107 °C

Airflow: 34 SCFM at 100 PSIG inlet with 10 PSIG pressure drop

MAXPRO 30°
FREE ANGLE PLUGS

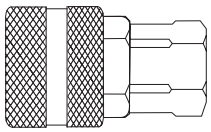
Free angle plugs are designed to provide 360° rotation and up to 30° of angle for air tool and air hose supply lines
(see Series 62)



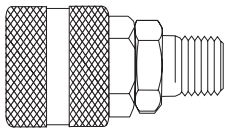
62.365



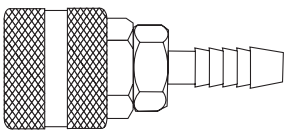
Compatible plugs page 338



Product No	Female Thread
23.444	1/4 (F) NPT
23.464	3/8 (F) NPT



Product No	Male Thread
23.644	1/4 (M) NPT
23.664	3/8 (M) NPT



Product No	Hose Barb
23.744	1/4 I.D.
23.764	3/8 I.D.

S23

A 1/4

AUTOMAX SLIM
QUICK COUPLER
ARO 210 INTERCHANGE
(AUTOMATIC)

150 PSI **40 SCFM**

Features and benefits

- Accepts ARO 210 type plugs
- Automatic push-to-connect operation
- High airflow
- 33% lighter than a regular quick coupler
- Compact design prevents accidental disconnection
- One hand disconnection
- Corrosion-resistant brass
- Deep knurled socket sleeve for positive gripping
- Secure and efficient connection using six-ball locking mechanism

Applications

Compressed air distribution systems
Air tools

Materials

Body: Brass
Sleeve: Brass
Valve: Brass
Valve Spring: Steel
Locking Mechanism: Steel balls
Seals: Nitrile rubber

Specifications

Maximum Working Pressure: 150 PSI
Working Temperature: -20 to 80 °C
Airflow: 40 SCFM to 100 PSIG inlet with 10 PSIG pressure drop

ONE HAND
DISCONNECTION

Hold coupler with 3 fingers
Remove sleeve with thumb and index





Comparative size between regular AUTOMAX and AUTOMAX SLIM

Compatible plugs page 338







Product No	Female Thread
23.443	1/4 (F) NPT

WARNING

It is not recommended to use SLIM quick couplers with impact air tools unless an anti-hose whip is installed between the tool and the coupler.
For more information, see series 62.

S23

A 1/4

MAXQUIK
QUICK COUPLERS
ARO 210 INTERCHANGE
(MANUAL)

250 PSI

28 SCFM

Features and benefits

- Accept ARO 210 type plugs
- Compact and economic design
- Four-ball locking mechanism allows for a tight and long-lasting connection
- Sleeve guard prevents accidental disconnection
- Sleeve must be manually retracted to connect or disconnect the plug

Applications

Air tools (staplers, nailers, screwdrivers, etc.)

Materials

Body: Zinc plated steel

Backnut: Zinc plated steel

Sleeve: Zinc plated steel

Valve: Zinc plated steel

Valve Spring: Nickel plated steel

Locking Mechanism: Nickel plated steel balls

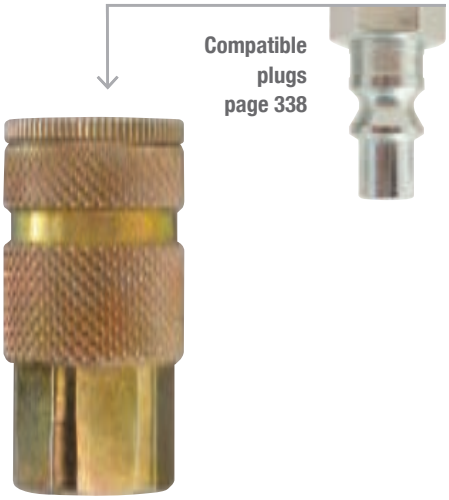
Seals: Nitrile rubber

Specifications

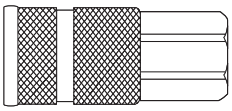
Maximum Working Pressure: 250 PSI

Working Temperature: -40 to 107 °C

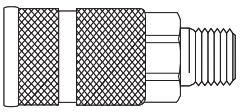
Airflow: 28 SCFM at 100 PSIG inlet with 10 PSIG pressure drop



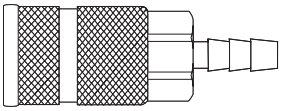
Compatible plugs page 338



Product No	Female Thread
23.842	1/4 (F) NPT



Product No	Male Thread
23.942	1/4 (M) NPT



Product No	Hose Barb
23.742	1/4 I.D.
23.762	3/8 I.D.

S23

A 1/4 MAXQUIK
ARO 210 INTERCHANGE KITS

AIR TOOL AND HOSE CONNECTIONS (MANUAL)

Connections to the tool or the air supply



Product No	Description
23.704C	1 x 23.842 • coupler 1/4 (F) NPT
	1 x 23.142 • plug 1/4 (F) NPT
	1 x 23.242 • plug 1/4 (M) NPT
	1 x 41.105 • union 1/4 (M) NPT

AIR TOOL CONNECTION (MANUAL)

Connections to the tool or the air supply



Product No	Description
23.712C	1 x 23.842 • coupler 1/4 (F) NPT
	3 x 23.242 • plug 1/4 (M) NPT
	1 x 23.142 • plug 1/4 (F) NPT

AIR TOOL CONNECTION (MANUAL)

Ideal for connecting a tool to an air hose



Product No	Description
23.711C	1 x 23.842 • coupler 1/4 (F) NPT
	1 x 23.242 • plug 1/4 (M) NPT

A 1/4 AUTOMAX SLIM
ARO 210 INTERCHANGE KITS

AIR TOOL CONNECTION (AUTOMATIC)

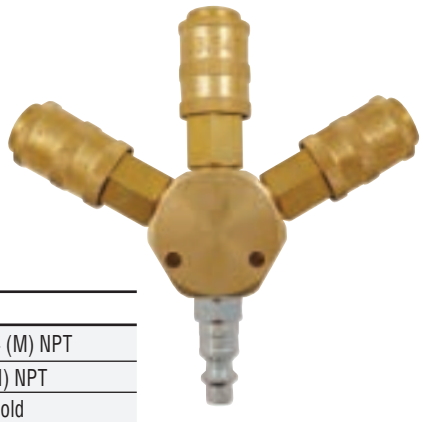
Ideal for connecting a tool to an air hose



Product No	Description
23.713C	1 x 23.443 • coupler 1/4 (F) NPT
	1 x 23.248 • plug 1/4 (M) NPT

MANIFOLD WITH COUPLERS AND PLUG (AUTOMATIC)

Allows connection of 3 tools to a single air hose



Product No	Description
23.714C	3 x 23.643 • coupler 1/4 (M) NPT
	1 x 23.248 • plug 1/4 (M) NPT
	1 x 62.810 • triple manifold

S24

T 1/4

MAXQUIK QUICK COUPLERS TRUFLATE INTERCHANGE (MANUAL)

250 PSI

24 SCFM

Features and benefits

- Accept 1/4 TRUFLATE type plugs
- Sleeve must be manually retracted to connect or disconnect the plug
- Compact and economical design
- Four-ball locking mechanism allows for a tight and long-lasting connection
- Sleeve guard prevents accidental disconnection
- Deep knurled socket sleeve for positive gripping

Applications

Air tools (staplers, nailers, screwdrivers, etc.)

Materials

Body: Zinc plated steel

Backnut: Zinc plated steel

Sleeve: Zinc plated steel

Valve: Nickel plated steel

Locking Mechanism: Hardened and nickel plated steel

Seals: Nitrile rubber

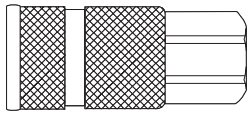
Specifications

Maximum Working Pressure: 250 PSI

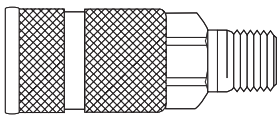
Working Temperature: -40 to 107 °C

Airflow: 24 SCFM at 100 PSIG inlet with 10 PSIG pressure drop



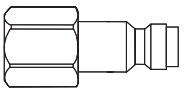


Product No	Female Thread
24.844	1/4 (F) NPT

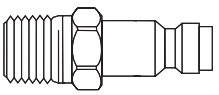


Product No	Male Thread
24.944	1/4 (M) NPT





Product No	Female Thread
24.142	1/4 (F) NPT



Product No	Male Thread
24.242	1/4 (M) NPT

S25

T 3/8

MAXQUIK QUICK COUPLERS TRUFLATE INTERCHANGE (MANUEL)

250 PSI

67 SCFM

Features and benefits

- Accept 3/8 TRUFLATE type plugs
- Heavy-duty, high-quality design
- Deep knurled socket sleeve for positive gripping
- Proven and positive connection using ball locking mechanism
- Sleeve guard prevents accidental disconnection

Applications

Air tools and general pneumatic applications

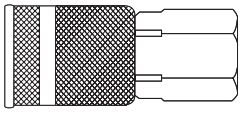
Materials

Body: Zinc plated steel
Backnut: Zinc plated steel
Sleeve: Zinc plated steel
Valve: Nickel plated steel
Valve spring: Zinc plated steel
Locking Mechanism: Hardened and nickel plated steel
Seals: Nitrile rubber

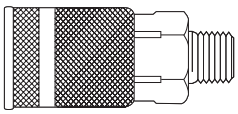
Specifications

Maximum Working Pressure: 250 PSI
Working Temperature: -40 to 107 °C
Airflow: 67 SCFM at 100 PSIG inlet with 10 PSIG pressure drop

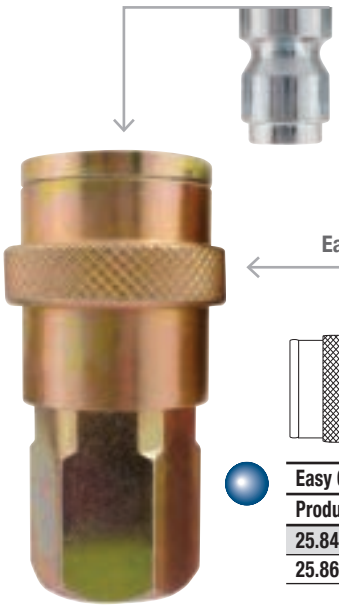




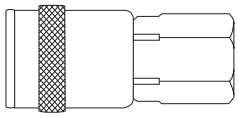
Product No	Female Thread
25.842	1/4 (F) NPT
25.862	3/8 (F) NPT
25.882	1/2 (F) NPT



Product No	Male Thread
25.942	1/4 (M) NPT
25.962	3/8 (M) NPT
25.982	1/2 (M) NPT

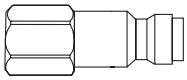


Easy grip coupler

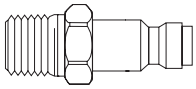


Easy Grip Coupler	
Product No	Female Thread
25.844	1/4 (F) NPT
25.864	3/8 (F) NPT





Product No	Female Thread
25.142	1/4 (F) NPT
25.162	3/8 (F) NPT



Product No	Male Thread
25.242	1/4 (M) NPT
25.262	3/8 (M) NPT

S25

T 1/2

MAXQUIK QUICK COUPLERS TRUFLATE INTERCHANGE (MANUAL)

250 PSI

92 SCFM

Features and benefits

- Accept 1/2 TRUFLATE type plugs
- Heavy-duty, high-quality design
- Deep knurled socket sleeve for positive gripping
- Proven and positive connection using ball locking mechanism
- Sleeve guard prevents accidental disconnection

Applications

Air tools and general pneumatic applications

Materials

Body: Zinc plated steel

Backnut: Zinc plated steel

Sleeve: Zinc plated steel

Valve: Nickel plated steel

Valve Spring: Zinc plated steel

Locking Mechanism: Hardened and nickel plated steel

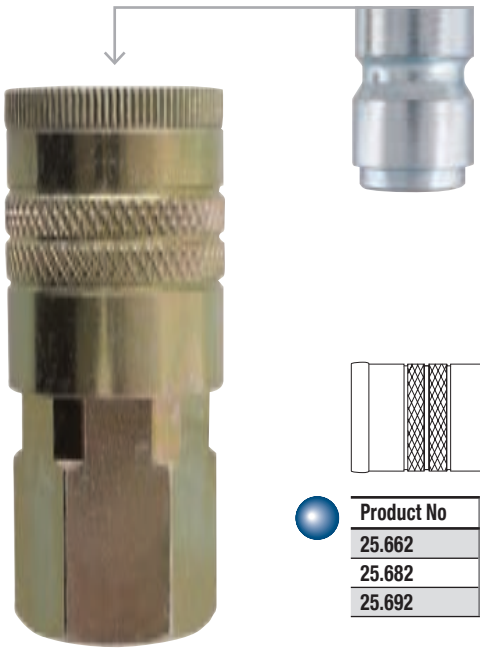
Seals: Nitrile rubber

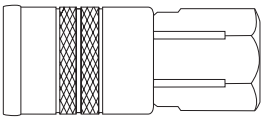
Specifications

Maximum Working Pressure: 250 PSI

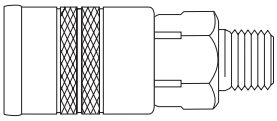
Working Temperature: -40 to 107 °C

Airflow: 92 SCFM at 100 PSIG inlet with 10 PSIG pressure drop



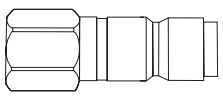


Product No	Female Thread
25.662	3/8 (F) NPT
25.682	1/2 (F) NPT
25.692	3/4 (F) NPT

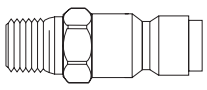


Product No	Male Thread
25.762	3/8 (M) NPT
25.782	1/2 (M) NPT
25.792	3/4 (M) NPT





Product No	Female Thread
25.362	3/8 (F) NPT
25.382	1/2 (F) NPT
25.392	3/4 (F) NPT



Product No	Male Thread
25.462	3/8 (M) NPT
25.482	1/2 (M) NPT
25.492	3/4 (M) NPT

S26

L 1/4

AUTOMAX
QUICK COUPLERS
LINCOLN INTERCHANGE
(AUTOMATIC)

250 PSI **32 SCFM**

Features and benefits

- Accept LINCOLN type plugs
- Automatic push-to-connect operation
- Heavy-duty, high-quality design
- Deep knurled socket sleeve for positive gripping
- Secure and efficient connection using pin lock mechanism

Applications

Air tools and general pneumatic applications

Materials

COUPLER

Body: Brass

Sleeve and Backnut: Zinc plated steel

Valve: Brass

Valve Spring: Stainless steel

Locking Mechanism: Hardened steel and zinc plated pins

Seals: Nitrile rubber

PLUG

Body: Zinc plated steel

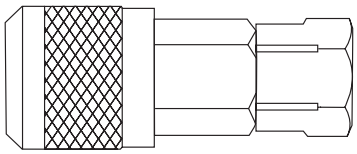
Specifications

Maximum Working Pressure: 250 PSI

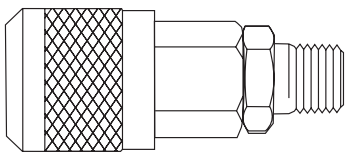
Working Temperature: -40 to 107 °C

Airflow: 32 SCFM at 100 PSIG inlet with 10 PSIG pressure drop



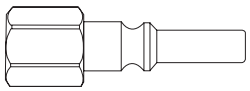


Product No	Female Thread
26.442	1/4 (F) NPT

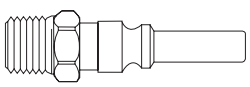


Product No	Male Thread
26.642	1/4 (M) NPT





Product No	Female Thread
26.142	1/4 (F) NPT



Product No	Male Thread
26.242	1/4 (M) NPT

S27

N 7.8

TOPQUIK
SAFETY QUICK COUPLERS
NITTO INTERCHANGE
(AUTOMATIC)

175 PSI | 78 SCFM | SAFETY

Features and benefits

- Accept Japanese type plugs (Nitto 20, 30, 40)
- High flow design provides superior air tool performance
- Prevent dangerous hose whip through a two-step disconnection
- Shock and crush resistant coupler provide exceptionally long service life
- Non-marring coupler body prevents scratching of delicate surfaces
- Super lightweight contributes to ergonomics and safety
- Automatic push-to-connect operation
- Downstream pressure is automatically vented and disconnection is performed easily at zero pressure
- Meet ISO 4414 safety standards
- Disconnection noise level of only 80 dB
- Leak-proof reliability

Applications

Any air tool connection where hose whip and accidental disconnection must be avoided

Materials

COUPLER

Body: High-impact composite

Backnut: Nickel plated brass

Seals: Nitrile rubber

PLUG

Body: Steel

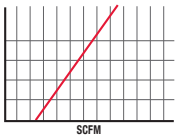
Specifications

Maximum WorkingPressure: 175 PSI

Working Temperature: -15 to 80 °C

Airflow: 78 SCFM at 100 PSIG inlet with 10 PSIG pressure drop

Performance:
Pressure drop chart (PSI/SCFM) available on TOPRING.com



SAFETY SOLUTION WITH A 2-STEP DISCONNECTION

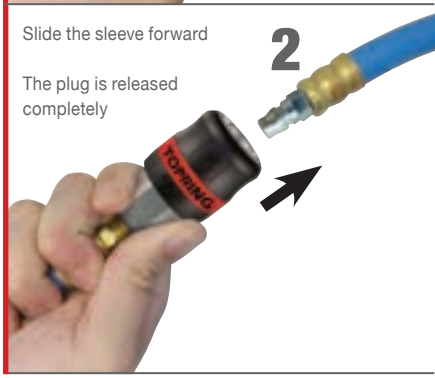
Slide the sleeve back to release downstream pressure **1**

The plug is released but held within the coupler



Slide the sleeve forward **2**

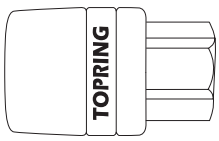
The plug is released completely



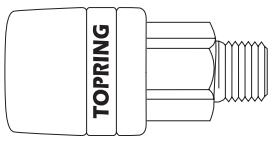


RED RING indicates NITTO interchange coupler

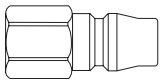




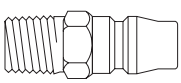
Product No	Female Thread
27.449	1/4 (F) NPT
27.469	3/8 (F) NPT
27.489	1/2 (F) NPT



Product No	Male Thread
27.649	1/4 (M) NPT
27.669	3/8 (M) NPT



Product No	Female Thread
27.142	1/4 (F) NPT
27.162	3/8 (F) NPT



Product No	Male Thread
27.242	1/4 (M) NPT
27.262	3/8 (M) NPT

S30

S 6 | S 8

ISOSAFE

SAFETY QUICK COUPLERS ISO 6150-C INTERCHANGE (AUTOMATIC)

175 PSI | 45 SCFM

145 PSI | 100 SCFM

SAFETY

Features and benefits

- S6 couplers accept 6mm ISO 6150-C (STÄUBLI) type plugs
- S8 couplers accept 8mm ISO 6150-C (STÄUBLI) type plugs
- Prevent dangerous hose whip through a 2-step disconnection
- When the button is pressed, downstream pressure is automatically vented and disconnection is performed easily when pressing the button a second time
- Meet ISO 4414 safety standards
- Automatic push-to-connect operation
- Shock and crush resistant coupler for a long service life
- Leak-proof reliability

Applications

Compressed air distribution systems
Air tools

Materials

COUPLER

Body: Aluminium (stainless steel available on request)

Backnut: Steel

Push Button: Stainless steel

Socket Valve: Brass

Seals: Nitrile rubber

Spring: Stainless steel

PLUG

Body: Stainless steel AISI 420

Specifications

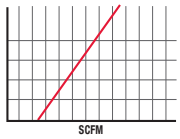
Maximum Working Pressure:

S6: 175 PSI / **S8:** 145 PSI

Working Temperature: -20 to 90 °C

Airflow: S6: 45 SCFM / **S8:** 100 SCFM
at 100 PSIG inlet with 10 PSIG pressure drop

Performance:
Pressure drop chart (PSI/SCFM) available on TOPRING.com



SAFETY SOLUTION WITH A 2-STEP DISCONNECTION

Press the button to secure the release of pressure / plug remains inside the coupler **1**



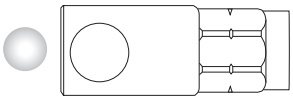


Press the button a second time for a safe disconnection **2**

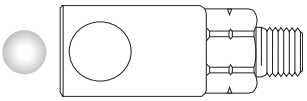




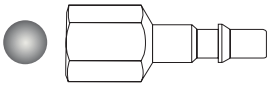




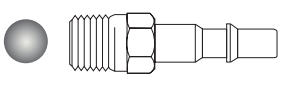
Dimension	Product No	Female Thread
S6	30.547	1/4 (F) NPT
S8	30.557	1/4 (F) NPT
	30.558	3/8 (F) NPT



Dimension	Product No	Male Thread
S6	30.877	1/4 (M) NPT
S8	--	1/4 (M) NPT
	30.888	3/8 (M) NPT



Dimension	Product No	Female Thread
S6	30.043	1/4 (F) NPT
S8	30.053	1/4 (F) NPT
	30.055	3/8 (F) NPT



Dimension	Product No	Male Thread
S6	30.073	1/4 (M) NPT
S8	30.083	1/4 (M) NPT
	30.085	3/8 (M) NPT

S31

E 7.8 ULTRAFLO TYPE PLUGS

Features and benefits

- Accept European type couplers (CEJN 320)
- Hardened steel construction for strength
- Corrosion resistant zinc plating for long service life
- Manufactured to high quality standards to ensure compatibility
- High flow for better tool performance
- Threads sealant coating for airtight connections (31.648)

30°/ 45° FREE ANGLE PLUGS

Free angle plugs are designed to provide 360° of rotation and up to 30° or 45° of angle for air tool and air hose

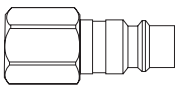


62.326
AIRPRO 45°



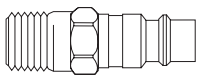
62.370
MAXPRO 30°



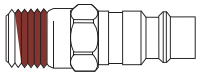


Product No	Female Thread
31.542	1/4 (F) NPT
31.562	3/8 (F) NPT



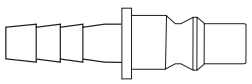


Product No	Male Thread
31.642	1/4 (M) NPT
31.662	3/8 (M) NPT



With Sealant Product No	Male Thread
31.648	1/4 (M) NPT





Product No	Hose Barb
31.962	3/8 I.D.

S31

E
7.8

TOPQUIK S1
SAFETY QUICK COUPLERS ULTRAFLO (AUTOMATIC)

174 PSI | 73 SCFM | SAFETY | ERGONOMICS

Features and benefits

- Accept European type plugs (CEJN 320)
- Prevent the risk of dangerous hose whip or accidental disconnection
- Resistant to abrasion, vibrations, corrosion, impacts and crushing
- Non-marring coupler body prevents scratching of delicate surfaces
- Swivel body allows quick installation and optimal positioning
- 1 push safe disconnection
- Dowstream pressure is automatically vented and disconnection is easily performed at zero pressure
- Comply with the safety requirement of ISO 4414 standard
- Disconnection noise level of only 80 dB
- Leak-free design reduces energy costs
- Silicone-free construction to avoid the risk of compressed air contamination during the application of painted or varnish

Applications

Compressed air distribution systems
Air tools

Materials

Body: Anti-static polyester composite

Weight: 85 g

Locking Mecanism: Steel balls

Others components: Steel with anti-corrosion treatment or aluminum

Seals: Nitrile rubber

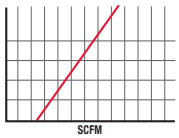
Specifications

Maximum WorkingPressure: 174 PSI

Working Temperature: -15 to 70 °C

Airflow: 73 SCFM at 100 PSIG inlet with 10 PSIG pressure drop

Performance:
Pressure drop chart (PSI/SCFM) available on TOPRING.com



SAFE DISCONNECTION IN 1 SINGLE PUSH

With a single push on the button, the plug is disconnected but held within the coupler



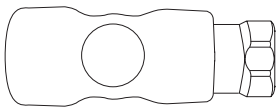
The plug can be removed safely



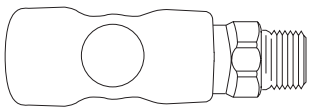


Compatible plugs page 350

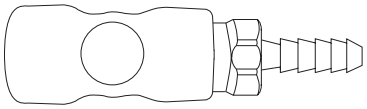
GREEN BUTTON indicates ULTRAFLO interchange coupler



Product No	Female Thread
31.715	1/4 (F) NPT
31.735	3/8 (F) NPT



Product No	Male Thread
31.815	1/4 (M) NPT
31.835	3/8 (M) NPT
31.875	1/2 (M) NPT



Product No	Hose barb
31.915	1/4 I.D.
31.935	3/8 I.D.
31.975	1/2 I.D.

MANIFOLD WITH TOPQUIK S1 QUICK COUPLERS



Product No	Description
31.705	2 x 31.875 • coupler 1/2 (M) NPT
	1 x 47.130 • double manifold

S31

E 7.8

TOPQUIK SC
SAFETY QUICK COUPLERS ULTRAFLO (MANUAL)

360 PSI | 70 SCFM | SAFETY

Features and benefits

- Accept European type plugs (CEJN 320)
- Prevent dangerous hose whip through a 2-step disconnection making it safe
- Meet ISO 4414 safety standards
- Full-flow: tools work at maximal performance without having to increase the supply pressure
- Zero load pressure
  - connects with no effort because no pressure resistance
  - safe disconnection because downstream pressure is automatically vented
- Low disconnection noise reduces workplace noise pollution
- Reliability and durability

Applications

Assembly lines and air tools and where hose whip and disconnection must be avoided

Materials

Black part: Steel, tenifer treated

Sleeve: Zinc diecast, nickel plated, orange rubber coating

Housing: Steel nickel plated

Cylinder: Surface hardened steel, nickel plated

Valve Spring: Stainless steel

Seal: Nitrile rubber

Specifications

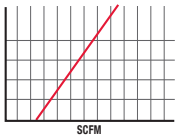
Maximum Working Pressure: 360 PSI

Connection/disconnection Pressure: Maximum 200 PSI

Working Temperature: -20 to 100 °C

Airflow: 70 SCFM at 100 PSIG inlet with 10 PSIG pressure drop

Performance: Pressure drop chart (PSI/SCFM) available on TOPRING.com

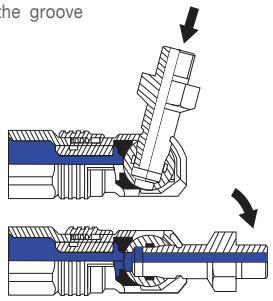


SAFETY SOLUTION WITH A 2-STEP DISCONNECTION

CONNECTION

Push compatible plug into coupling and swing approximately 90 ° until the orange ring engages in the groove

1

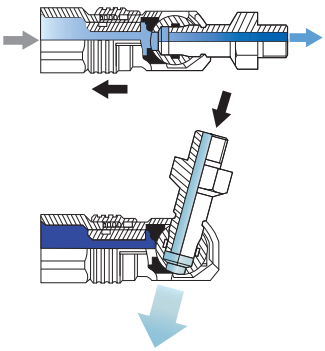


Pressure is in motion

DISCONNECTION

Pull back orange ring and swing plug to stop

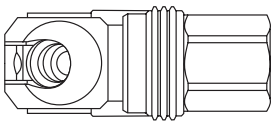
2



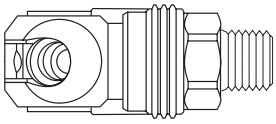
In order to prevent the hose from ejecting dangerously, the plug must be held in the hand until the hose is completely ventilated



Compatible plugs page 350



Product No	Female Thread
31.447	1/4 (F) NPT
31.467	3/8 (F) NPT
31.487	1/2 (F) NPT



Product No	Male Thread
31.347	1/4 (M) NPT
31.367	3/8 (M) NPT
31.387	1/2 (M) NPT



Unbreakable polyamide cover

Product No	
31.007	TOPQUIK SC ULTRAFLO

The polyamide cover is slipped over the housing of the TOPQUIK SC to protect the work piece, e.g. for work on car body parts, furniture, etc.



Vinyl guard

Product No	
31.017	TOPQUIK SC ULTRAFLO

Slides over airline coupling installation. Provides complete protective coverage of coupler and plug.

S31

E 7.8

TOPQUIK
SAFETY QUICK COUPLERS ULTRAFLO (AUTOMATIC)

225 PSI | 60 SCFM | SAFETY

Features and benefits

- Accept European type plugs (CEJN 320)
- High flow ULTRAFLO design provides superior tool performance
- Prevent dangerous hose whip through a two-step disconnection
- Shock and crush resistant coupler provide exceptionally long service life
- Non-marring coupler body prevents scratching of delicate surfaces
- Super lightweight contributes to ergonomics and safety
- Automatic push-to-connect operation
- Downstream pressure is automatically vented and disconnection is performed easily at zero pressure
- Meet ISO 4414 safety standards
- Disconnection noise level of only 80 dB
- Leak-proof reliability

Applications

Any pneumatic connection where safety is of utmost concern (hose whip, accidental disconnection)

Materials

Body: High-impact composite

Backnut: Nickel plated brass

Seals: Nitrile rubber

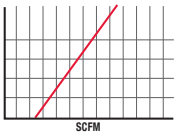
Specifications

Maximum Working Pressure: 225 PSI

Working Temperature: -15 to 70 °C

Airflow: 60 SCFM at 100 PSIG inlet with 10 PSIG pressure drop

Performance: Pressure drop chart (PSI/SCFM) available on TOPRING.com



SAFETY SOLUTION WITH A 2-STEP DISCONNECTION

Slide the sleeve back to release downstream pressure **1**

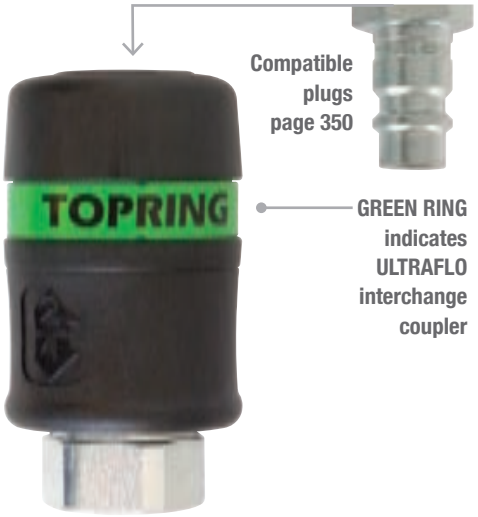
The plug is released but held within the coupler



Slide the sleeve forward **2**

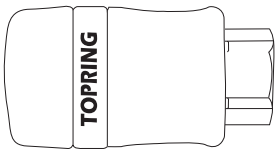
The plug is released completely



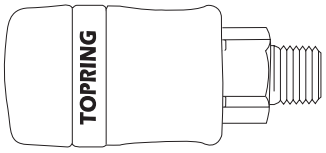


Compatible plugs page 350

GREEN RING indicates ULTRAFLO interchange coupler



Product No	Female Thread
31.749	1/4 (F) NPT
31.769	3/8 (F) NPT
31.789	1/2 (F) NPT



Product No	Male Thread
31.849	1/4 (F) NPT
31.869	3/8 (F) NPT
31.889	1/2 (F) NPT

S31

E 7.8

QUIKSILVER QUICK COUPLERS ULTRAFLO (AUTOMATIC)

500 PSI

80 SCFM

Features and benefits

- Accept European type plugs (CEJN 320)
- High-flow ULTRAFLO design provides superior tool performance
- Light and compact with performance similar to 3/8 couplers
- High-flow valve eliminates pressure drop and choking, offering more air than most comparable couplers
- Provides energy savings, increased productivity and superior tool efficiency
- Sleeve guard prevents accidental disconnection
- Automatic push-to-connect operation
- Easy to connect, even under pressure
- Proven and positive connection using ball locking mechanism

Applications

All high-flow tool applications, general pneumatic applications

Automotive service shops, tire shops and paint shops (HVLP)

Materials

Body: Zinc plated steel

Drag Guard: Zinc plated steel

Valve: Acetal

Sleeve: Zinc plated steel

Valve Spring: Stainless steel

Locking Mechanism: Hardened steel balls

Seals: Nitrile rubber

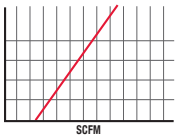
Specifications

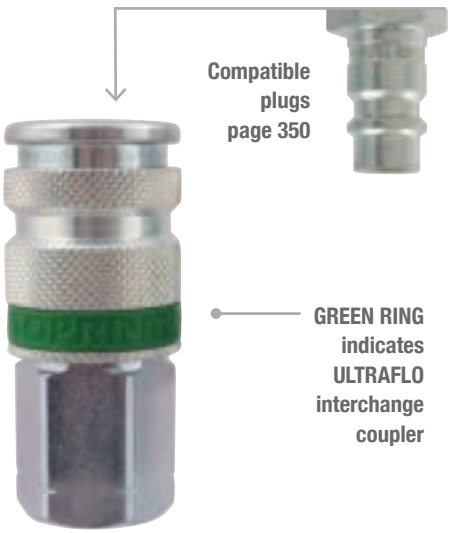
Maximum Working Pressure: 500 PSI

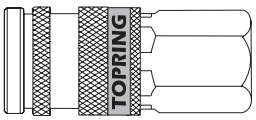
Working Temperature: -20 to 60 °C

Airflow: 80 SCFM at 100 PSIG inlet with 10 PSIG pressure drop

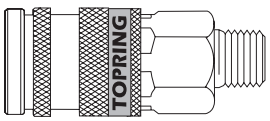
Performance: Pressure drop chart (PSI/SCFM) available on TOPRING.com



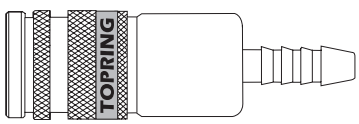




Product No	Female Thread
31.744	1/4 (F) NPT
31.764	3/8 (F) NPT
31.784	1/2 (F) NPT



Product No	Male Thread
31.844	1/4 (M) NPT
31.864	3/8 (M) NPT
31.884	1/2 (M) NPT



Product No	Hose Barb
31.944	1/4 I.D.
31.964	3/8 I.D.

TECH TIP

ULTRAFLO couplers offer as much flow as many 3/8 plug-coupler combinations but in a more compact, economical size. Use of **ULTRAFLO** plugs and their corresponding couplers will improve tool performance over standard 1/4 size plug-coupler combinations.

S20 • 1/4 INDUSTRIAL
S23 • ARO 210
S24 • 1/4 TRUFLATE
S26 • LINCOLN
5.5 mm
24-37 SCFM

S21 • 3/8 INDUSTRIAL
S25 • 3/8 TRUFLATE
7 mm
60-70 SCFM

S31 • ULTRAFLO
7.8 mm
50-80 SCFM

S31

E 7.8

AUTOMAX QUICK COUPLERS ULTRAFLO (AUTOMATIC)

200 PSI

50 SCFM

Features and benefits

- Accept European type plugs (CEJN 320)
- High-flow ULTRAFLO design provides superior tool performance
- Provides energy savings, increased productivity and superior tool efficiency
- Sleeve guard protects against accidental disconnection when the coupler is dragged across the floor or over obstructions
- Automatic push-to-connect operation
- Easy to connect, even under pressure
- Proven and positive connection using ball locking mechanism

Applications

All high-flow tool applications

Automotive service shops, tire shops and paint shops (HVLP)

Fastening and roofing industries

Materials

Body: Nickel plated steel

Sleeve: Nickel plated steel

Valve: Nickel plated steel

Valve Spring: Zinc plated steel

Locking Mechanism: Hardened and nickel pleated steel

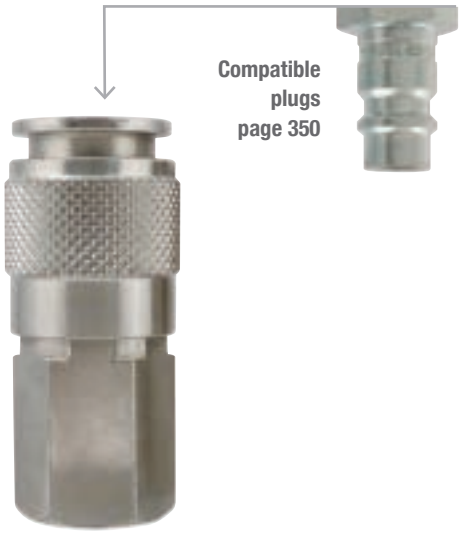
Seals: Nitrile rubber

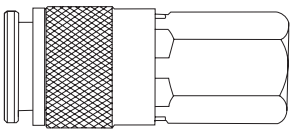
Specifications

Maximum Working Pressure: 200 PSI

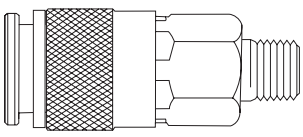
Working Temperature: -40 to 100 °C

Airflow: 50 SCFM at 100 PSIG inlet with 10 PSIG pressure drop





Product No	Female Thread
31.742	1/4 (F) NPT



Product No	Male Thread
31.842	1/4 (M) NPT

TECH TIP

ULTRAFLO couplers offer as much flow as many 3/8 plug-coupler combinations but in a more compact, economical size. Use of **ULTRAFLO** plugs and their corresponding couplers will improve tool performance over standard 1/4 size plug-coupler combinations.

S20 • 1/4 INDUSTRIAL
S23 • ARO 210
S24 • 1/4 TRUFLATE
S26 • LINCOLN
5.5 mm
24-37 SCFM

S21 • 3/8 INDUSTRIAL
S25 • 3/8 TRUFLATE
7 mm
60-70 SCFM

S31 • ULTRAFLO
7.8 mm
50-80 SCFM

S31

E 7.8

AUTOMAX SLIM QUICK COUPLERS ULTRAFLO (AUTOMATIC)

150 PSI

60 SCFM

Features and benefits

- Accept European type plugs (CEJN 320)
- Provides energy savings, increased productivity and superior toll efficiency
- Automatic push-to-connect operation
- High airflow
- 33% lighter than a regular coupler
- Compact design prevents accidental disconnection
- One hand disconnection
- Corrosion-resistant brass
- Deep knurled socket sleeve for positive gripping
- Proven and positive connection using six-ball locking mechanism

Applications

Air tools

Ideal for the pharmaceutical, furniture and textile industries

Materials

Body: Brass

Sleeve: Brass

Valve: Brass

Valve Spring: Steel

Locking Mechanism: Steel balls

Sealant: Pre-applied sealant coating for airtight connection (31.843)

Specifications

Maximum Working Pressure: 150 PSI

Working Temperature: -20 to 80 °C

Airflow: 60 SCFM to 100 PSIG inlet with 10 PSIG pressure drop

ONE HAND DISCONNECTION

Hold coupler with 3 fingers
Remove sleeve with thumb and index

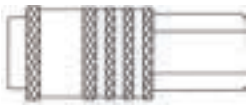




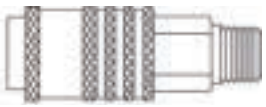
Comparative size between regular AUTOMAX and AUTOMAX SLIM



Compatible plugs page 350



Product No	Female Thread
31.743	1/4 (F) NPT



Product No	Male Thread
31.843	1/4 (M) NPT

WARNING

It is not recommended to use SLIM quick couplers with impact air tools unless an anti-hose whip is installed between the tool and the coupler.
For more information, see series 62.

S31
E 7.8 QUIKSILVER ULTRAFLO KITS

AIR TOOL CONNECTION (AUTOMATIC)

Ideal for both tool and supply connection to an air hose and tool



Product No	Description
31.704C	1 x 31.744 • coupler 1/4 (F) NPT
	1 x 31.542 • plug 1/4 (F) NPT
	1 x 31.642 • plug 1/4 (M) NPT

AIR TOOL CONNECTION (AUTOMATIC)

Ideal for connecting a tool to an air hose



Product No	Description
31.711C	1 x 31.744 • coupler 1/4 (F) NPT
	1 x 31.642 • plug 1/4 (M) NPT

ROTATIVE MANIFOLD WITH COUPLERS (AUTOMATIC)

Allows connection of 3 tools to a single air hose or air supply



Product No	Description
31.708	3 x 31.744 • coupler 1/4 (F) NPT
	1 x 62.750 • triple rotative manifold

AUTOMAX ULTRAFLO KIT E 7.8

AIR TOOL CONNECTION (AUTOMATIC)

Ideal for connecting a tool to an air hose



Product No	Description
31.731C	1 x 31.742 • coupler 1/4 (F) NPT
	1 x 31.642 • plug 1/4 (M) NPT

AUTOMAX SLIM ULTRAFLO KIT E 7.8

AIR TOOL CONNECTION (AUTOMATIC)

Ideal for connecting a tool to an air hose



Product No	Description
31.713C	1 x 31.743 • coupler 1/4 (F) NPT
	1 x 31.648 • plug 1/4 (M) NPT

WARNING

It is not recommended to use SLIM couplers with pneumatic impact tools unless a hose whip is installed between the tool and the coupler.

For more information, see series 62.

ULTRAFLO DEMO KIT



Glass beads run through the connection to demonstrate the superior airflow offered by **ULTRAFLO** quick couplers compared to **1/4 INDUSTRIAL** couplers.

Product No
96.150

S20 • 1/4 INDUSTRIAL
S23 • ARO 210
S24 • 1/4 TRUFLATE
S26 • LINCOLN
5.5 mm
24-37 SCFM

S21 • 3/8 INDUSTRIAL
S25 • 3/8 TRUFLATE
7 mm
60-70 SCFM

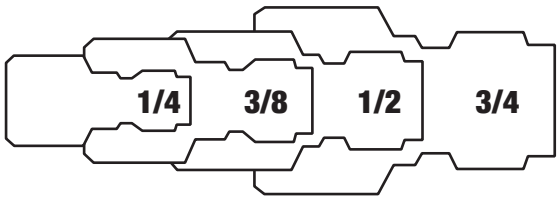
S31 • ULTRAFLO
ULTRAFLO couplers increase tool performance
7.8 mm
50-80 SCFM

S28 STRAIGHT THROUGH COUPLERS
S29 HYDRAULIC COUPLERS

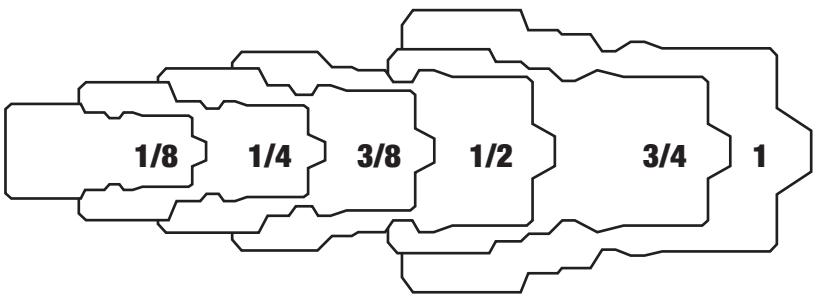


S28 STRAIGHT THROUGH COUPLERS
S29 HYDRAULIC COUPLERS

SERIES 28
STRAIGHT THROUGH COUPLERS
(ACTUAL SIZE)



SERIES 29
HYDRAULIC COUPLERS
(ACTUAL SIZE)



S28

STRAIGHT THROUGH COUPLERS (MANUAL)

1/4 NPT **3/8 NPT** **1/2 NPT** **3/4 NPT**

Features and benefits

- Straight-through couplers without valve are designed for fluid distribution systems requiring maximum flow with no restrictions

Applications

Pressure washers, carpet cleaners, plastic mold coolant lines, water distribution systems, high-pressure steam washers, other liquid handling applications

Materials

Body: Brass or 303 stainless steel

Sleeve: Brass or 303 stainless steel

Locking Balls: Stainless steel

Seals: Rubber nitrile

Specifications

Working Temperature: -40 to 107 °C



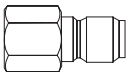
PERFORMANCE SPECIFICATIONS

I.D. in	Maximum Working Pressure PSI		Cv Factor
	Brass	Stainless Steel	
1/4	5200	6700	2.5
3/8	2700	5500	6.6
1/2	2200	3000	9.7
3/4	1700	3000	29.6



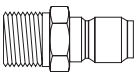
WARNING

These couplers and plugs should never be disconnected under pressure



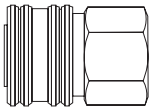
Female Plug

Product No		
Brass	Stainless Steel	Thread (F) NPT
28.143	28.144	1/4
28.163	28.164	3/8
28.183	28.184	1/2
28.193	28.194	3/4



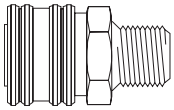
Male Plug

Product No		
Brass	Stainless Steel	Thread (M) NPT
28.243	28.244	1/4
28.263	28.264	3/8
28.283	28.284	1/2
28.293	28.294	3/4



Female Coupler

Product No		
Brass	Stainless Steel	Thread (F) NPT
28.843	28.844	1/4
28.863	28.864	3/8
28.883	28.884	1/2
28.893	28.894	3/4



Male Coupler

Product No		
Brass	Stainless Steel	Thread (M) NPT
28.943	28.944	1/4
28.963	28.964	3/8
28.983	--	1/2
28.993	--	3/4

S29

HYDRAULIC COUPLERS (MANUAL)

1/8 NPT **1/4 NPT** **3/8 NPT** **1/2 NPT** **3/4 NPT** **1 NPT**

Features and benefits

- Accepts all «ISO-B» interchange type plugs (7241)
- High flow-rate with low pressure drop
- Long, service-free performance
- Hardened at all points of extra stress and wear
- All interior components are corrosion-resistant
- Ball-locking mechanism is engineered for even load distribution assuring positive alignment and allowing hose-protecting swivel action



Applications

Hydraulic fluids, compressed air and water

All installations where fluid loss during connection or disconnection is unwanted

Materials

Seals: Rubber nitrile

Brass: Brass
Stainless steel springs
Stainless steel locking balls

Steel: Zinc plated steel
Stainless steel springs
Chrome-steel locking balls

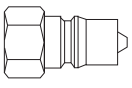
303 Stainless Steel: All components

Specifications

Working Temperature: -20 to 80 °C

PERFORMANCE SPECIFICATIONS

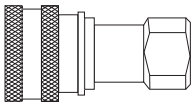
I.D. in	Maximum Working Pressure PSI			GPM Max. Flow	Cv Factor	SCFM
	Steel	Brass	Stainless steel			
1/8	5000	1000	--	1.5	0.5	17
1/4	5000	1000	2000	3.5	1.1	35
3/8	4000	1000	1450	6.0	1.9	60
1/2	4000	1000	1450	12.0	3.2	100
3/4	3500	1000	1450	28.0	7.2	275
1	2900	1000	1000	38.0	10.3	375



Female Plug

Product No			
Steel	Brass	Stainless Steel	Thread (F) NPT
29.122	29.123	---	1/8
29.142	29.143	29.144	1/4
29.162	29.163	29.164	3/8
29.182	29.183	29.184	1/2
29.192	29.193	29.194	3/4
29.195	29.196	---	1

Other sizes available upon request



Female Coupler

Product No			
Steel	Brass	Stainless Steel	Thread (F) NPT
29.922	29.923	---	1/8
29.942	29.943	29.944	1/4
29.962	29.963	29.964	3/8
29.982	29.983	29.984	1/2
29.992	29.993	29.994	3/4
29.995	29.996	---	1

Other sizes available upon request

S41
BRASS FITTINGS



S41
BRASS FITTINGS

Features and benefits

- One-piece construction
- Manufactured with threads that conform to the American Standard Taper Size Thread
- Good resistance to vibration
- Corrosion resistant

Applications
Compressed air, vacuum, water

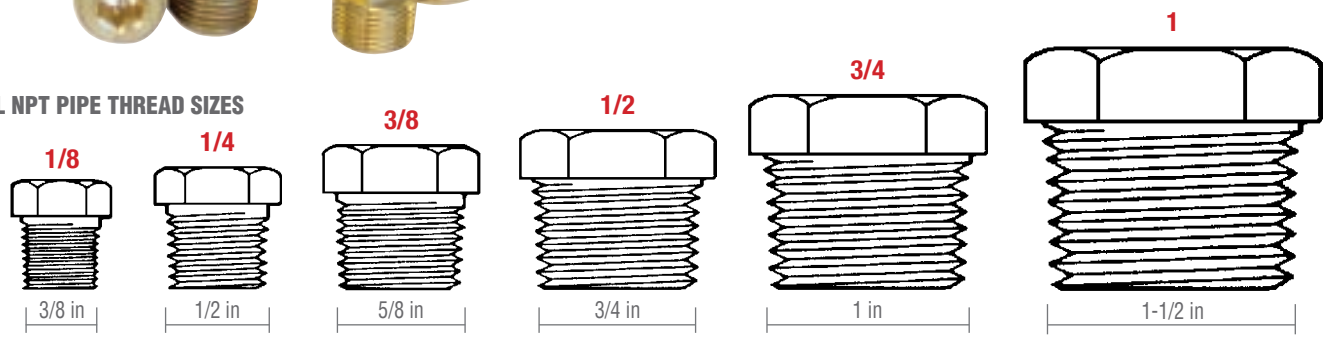
Material
Brass (metric sizes: nickel plated brass)

Specifications
Maximum Working Pressure:
Threaded fittings: 1000 PSI
Hose barb fittings: 150 PSI
Bleed valves: 125 PSI

Working Temperature:
Threaded fittings: -54 °C to 121 °C
Hose barb fittings: -40 °C to 71 °C
Bleed valves: -29 °C to 71 °C

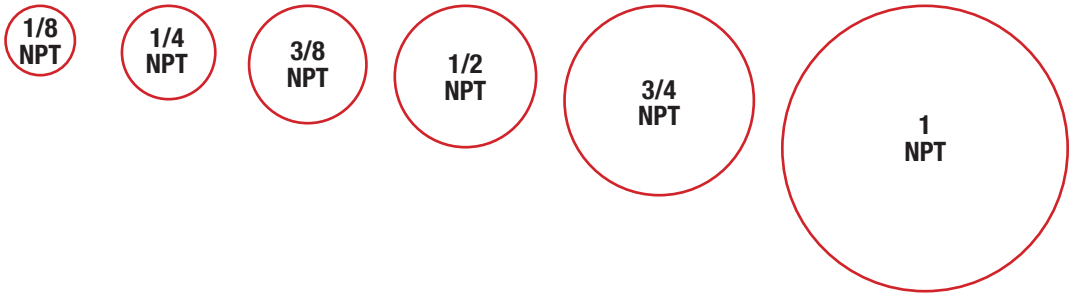


ACTUAL NPT PIPE THREAD SIZES



T.P.I.: THREADS PER INCH

ACTUAL OUTSIDE DIAMETERS OF PIPE THREADS



S41

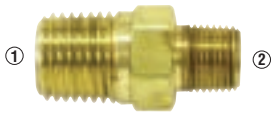
BRASS FITTINGS | IN | NPT

MALE HEXAGONAL NIPPLE



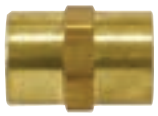
Product No	Thread (M) NPT
41.100	1/8
41.105	1/4
41.115	3/8
41.125	1/2
41.130	3/4
41.135	1
41.127 (steel)	1-1/4
41.128 (steel)	1-1/2
41.129 (steel)	2

MALE HEXAGONAL NIPPLE REDUCER



Product No	① Thread (M) NPT	② Thread (M) NPT
41.110	1/4	1/8
41.120	3/8	1/4
41.123	3/8	1/8
41.124	1/2	1/4
41.126	1/2	3/8
41.133	3/4	1/2

FEMALE HEXAGONAL COUPLING



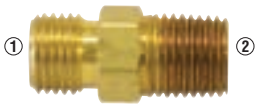
Product No	Thread (F) NPT
41.190	1/8
41.195	1/4
41.200	3/8
41.205	1/2
41.208	3/4

CLOSE NIPPLE



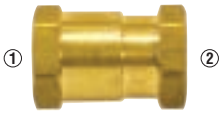
Product No	Thread (M) NPT
41.500	1/8
41.501	1/4
41.502	3/8
41.503	1/2
41.504	3/4
41.496	1
41.497	1-1/4
41.498	1-1/2
41.499	2

MALE ADAPTER NPS/NPT



Product No	① Thread (M) NPS	② Thread (M) NPT
41.854	1/4	1/8
41.855	1/4	1/4
41.857	3/8	1/4

FEMALE HEXAGONAL ADAPTER



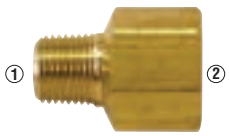
Product No	① Thread (F) NPT	② Thread (F) NPT
41.193	1/4	1/8
41.198	3/8	1/8
41.202	3/8	1/4
41.203	1/2	1/4
41.204	1/2	3/8

REDUCING BUSHING



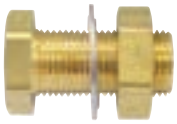
Product No	① Thread (F) NPT	② Thread (M) NPT
41.170	1/8	1/4
41.172	1/8	3/8
41.175	1/4	3/8
41.178	1/8	1/2
41.180	1/4	1/2
41.183	1/4	3/4
41.184 (steel)	3/4	2
41.185	3/8	1/2
41.186	1/2	3/4
41.187	3/4	1
41.188	1	2
41.189	1-1/2	2

HEXAGONAL ADAPTER



Product No	① Thread (M) NPT	② Thread (F) NPT
41.137	1/8	1/8
41.140	1/8	1/4
41.143	1/8	3/8
41.145	1/4	1/4
41.150	1/4	3/8
41.153	1/4	1/2
41.155	3/8	3/8
41.160	3/8	1/2
41.165	1/2	1/2
41.168	1/2	3/4

ANCHOR COUPLING



Product No	Thread (F) NPT	Straight Thread (M)
41.465	1/8	5/8 -18
41.466	1/4	3/4 -16
41.467	3/8	1 - 14
41.468	1/2	1-1/8 -14

S41

BRASS FITTINGS | IN | NPT

MALE BRANCH TEE



Product No	① Thread (F) NPT	② Thread (M) NPT
41.281	1/8	1/8
41.282	1/4	1/4
41.340	3/8	3/8

FEMALE TEE



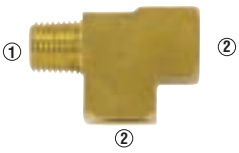
Product No	Thread (F) NPT
41.265	1/8
41.270	1/4
41.275	3/8
41.280	1/2
41.279	3/4

FEMALE CROSS



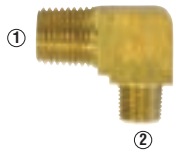
Product No	Thread (F) NPT
41.285	1/8
41.290	1/4
41.295	3/8
41.300	1/2

STREET TEE



Product No	① Thread (M) NPT	② Thread (F) NPT
41.283	1/8	1/8
41.284	1/4	1/4
41.342	3/8	3/8
41.343	1/2	1/2

90° MALE ELBOW



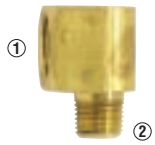
Product No	① Thread (M) NPT	② Thread (M) NPT
41.305	1/8	1/8
41.310	1/4	1/8
41.315	1/4	1/4
41.320	3/8	1/4
41.325	3/8	3/8
41.335	1/2	1/2

90° FEMALE UNION ELBOW



Product No	Thread (F) NPT
41.245	1/8
41.250	1/4
41.255	3/8
41.260	1/2
41.262	3/4
41.263	1
41.264	1-1/4
41.267	2

90° MALE/FEMALE STREET ELBOW



Product No	① Thread (F) NPT	② Thread (M) NPT
41.230	1/8	1/8
41.233	1/4	1/8
41.235	1/4	1/4
41.240	3/8	3/8
41.242	1/2	1/2
41.243	3/4	3/4

45° MALE/FEMALE STREET ELBOW



Product No	① Thread (M) NPT	② Thread (F) NPT
41.505	1/8	1/8
41.506	1/4	1/4
41.507	3/8	3/8
41.508	1/2	1/2

DRAIN COCK



Product No	Thread (M) NPT
41.792	1/8
41.794	1/4
41.796	3/8

BLEED VALVE



- Allows 100 in³ of compressed air to be released in 4 seconds
- By activating the button, the air escapes through the unthreaded orifice

Product No	Thread (M) NPT
41.786	1/8
41.788	1/4

FEMALE UNION (3 PIECES)



Product No	Thread (F) NPT	150 PSI
41.368	1/2	
41.369	3/4	
41.370	1	
41.371	1-1/4	
41.373	2	

S41

BRASS FITTINGS | IN | NPT

PIPE PLUG (COUNTERSUNKHEAD)



Product No	Thread (M) NPT
41.210	1/8
41.215	1/4
41.220	3/8
41.225	1/2

PIPE PLUG (HEXAGONAL HEAD)



Product No	Thread (M) NPT
41.226	1/8
41.227	1/4
41.228	3/8
41.229	1/2

MALE TEE



Product No	Thread (M) NPT
41.350	1/8
41.355	1/4
41.360	3/8
41.365	1/2

LONG NIPPLE



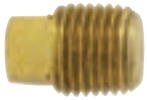
Product No	Thread (M) NPT	Length in
41.400	1/8	1.5
41.401	1/8	2
41.402	1/8	2.5
41.403	1/8	3
41.404	1/8	3.5
41.405	1/8	4
41.406	1/4	1.5
41.407	1/4	2
41.408	1/4	2.5
41.409	1/4	3
41.410	1/4	3.5
41.411	1/4	4
41.412	3/8	1.5
41.413	3/8	2
41.414	3/8	2.5
41.415	3/8	3
41.416	3/8	3.5
41.418	1/2	1.5
41.419	1/2	2
41.420	1/2	2.5
41.421	1/2	3
41.422	1/2	3.5

PIPE PLUG (SLOTTED HEAD)



Product No	Thread (M) NPT
41.450	1/8
41.455	1/4
41.460	3/8

PIPE PLUG (SQUARE HEAD)



Product No	Thread (M) NPT
41.670	1/8
41.675	1/4
41.680	3/8
41.685	1/2
41.690	3/4
41.695	1

CAP



Product No	Thread (F) NPT
41.461	1/8
41.462	1/4
41.463	3/8
41.464	1/2

STEEL FITTINGS

SWIVEL FITTING



Product No	Thread (M/F) NPT
41.704	1/2
41.705	3/4
41.706	1
41.707	1-1/2
41.708	2
41.709	2-1/2

FITTINGS KIT



Product No	Thread (M) NPT
41.772	1/4
41.773	3/8

Y CONNECTOR



Product No	① Thread NPT	② Thread NPT
62.850	1/4 (F)	1/4 (F)
62.860	1/4 (M)	1/4 (F)

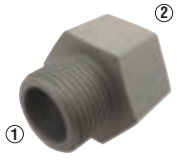
ALUMINIUM ADAPTERS

NPT-BSPP



Product No	① Thread (M) NPT	② Thread (F) BSPP
41.920	1/2	1/2
41.921	3/4	3/4
41.922	1	1
41.923	1-1/4	1-1/4
41.924	1-1/2	1-1/2
41.925	2	2

BSPT-NPT



Product No	① Thread (M) BSPT	② Thread (F) NPT
41.930	1/2	1/2
41.931	3/4	3/4
41.932	1	1
41.933	1-1/4	1-1/4
41.934	1-1/2	1-1/2
41.935	2	2

S41

NICKEL PLATED BRASS FITTINGS | MM | BSPT - BSPP

MALE HEXAGONAL NIPPLE BSPT



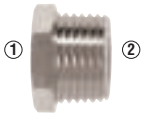
Product No	① Thread (M) BSPT	② Thread (M) BSPT
41.021	1/8	1/8
41.022	1/4	1/4
41.023	3/8	3/8
41.024	1/2	1/2

MALE HEXAGONAL REDUCER BSPT



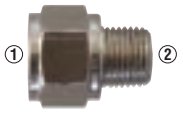
Product No	① Thread (M) BSPT	② Thread (M) BSPT
41.025	1/8	1/4
41.028	1/4	3/8
41.029	3/8	1/2
41.030	1/2	3/4
41.031	3/4	1

REDUCER MALE/FEMALE BSPP/BSPT



Product No	① Thread (F) BSPP	② Thread (M) BSPT
41.038	1/8	1/4
41.040	1/4	3/8
41.041	3/8	1/2
41.042	1/4	1/2
41.043	1/2	3/4

HEXAGONAL REDUCER BSPP/BSPT



Product No	① Thread (F) BSPP	② Thread (M) BSPT
41.046	1/4	1/8
41.050	3/8	1/4
41.053	1/2	3/8

FEMALE HEXAGONAL COUPLING BSPP



Product No	Thread (F) BSPP
41.056	1/8
41.057	1/4
41.058	3/8
41.059	1/2

90° FEMALE ELBOW BSPP



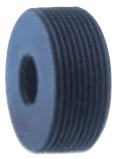
Product No	Thread (F) BSPP
41.074	1/8
41.075	1/4
41.076	3/8
41.077	1/2

PIPE PLUG (HEXAGONAL HEAD)



Product No	Thread (M)
41.065	1/8 **BSPT**
41.066	1/4 **BSPT**
41.067	3/8 **BSPT**
41.068	1/2 **BSPP**
41.069	3/4 **BSPP**
41.070	1 **BSPP**
41.071	1-1/4 **BSPP**
41.072	1-1/2 **BSPT**
41.073	2 **BSPP**

ALUMINIUM THREADED REDUCERS BSPT/BSPP



Product No	Thread (M) BSPT	Thread (F) BSPP
06.900	3/4	1/2
06.901	1	1/2
06.903	1-1/4	1/2
06.906	1-1/2	1/2
06.908	1-1/2	1
06.910	2	1/2
06.912	2	1
06.914	2	1-1/2
06.904	1-1/4	3/4
06.907	1-1/2	3/4
06.911	2	3/4

S41

BRASS FITTINGS | IN | NPT

HOSE BARB TO MALE PIPE



Product No	Hose I.D. in	Thread (M) NPT
41.546	1/8	1/8
41.547	3/16	1/8
41.548	1/4	1/8
41.550	1/4	1/4
41.554	1/4	3/8
41.560	5/16	1/4
41.561	5/16	3/8
41.562	5/16	1/2
41.565	3/8	1/8
41.570	3/8	1/4
41.580	3/8	3/8
41.584	3/8	1/2
41.586	1/2	1/4
41.590	1/2	3/8
41.600	1/2	1/2
41.603	1/2	3/4
41.556	5/8	3/8
41.557	5/8	1/2
41.558	5/8	3/4
41.604	3/4	1/2
41.605	3/4	3/4
41.606	1	3/4
41.607	1	1

HOSE BARB SPLICER



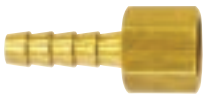
Product No	Hose I.D. in
41.510	1/4
41.520	5/16
41.530	3/8
41.540	1/2
41.542	5/8
41.543	3/4

SWIVEL HOSE BARB TO MALE PIPE



Product No	Hose I.D. in	Thread (M) NPT
41.552	1/4	1/4
41.572	3/8	1/4
41.582	3/8	3/8
41.602	1/2	1/2

HOSE BARB TO FEMALE PIPE



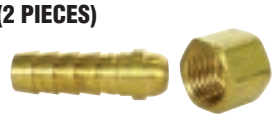
Product No	Hose I.D. in	Thread (F) NPT
41.609	1/4	1/8
41.610	1/4	1/4
41.620	5/16	1/4
41.630	3/8	1/4
41.640	3/8	3/8
41.650	1/2	3/8
41.660	1/2	1/2

HOSE BARB TO FEMALE STRAIGHT (WITH GASKET)



Product No	Hose I.D. in	Thread (F) NPT
41.720	1/4	1/4
41.730	5/16	1/4
41.740	3/8	1/4
41.750	3/8	3/8
41.760	1/2	1/2

HOSE BARB TO FEMALE BALL END (2 PIECES)



Product No	Hose I.D. in	Thread (F) NPS
41.843	1/4	1/8
41.844	1/4	1/4
41.845	1/4	3/8
41.846	5/16	1/4
41.847	3/8	1/4
41.848	3/8	3/8

HOSE REPAIR KITS



Product No	Description
41.511C For 1/4 I.D. Hose	(1) 41.510 Hose barb splicer (2) 48.314 2-Ear hose clamps
41.531C For 3/8 I.D. Hose	(1) 41.530 Hose barb splicer (2) 48.320 2-Ear hose clamps



Product No	Description
41.514C For 1/4 I.D. Hose	(1) 41.550 1/4 I.D. x 1/4 (M) Hose barb to male pipe (1) 48.314 2- Ear hose clamps
41.534C For 3/8 I.D. Hose	(1) 41.570 3/8 I.D. x 1/4 (M) Hose barb to male pipe (1) 48.320 2-Ear hose clamps

MAXPRO FREE ANGLE HOSE BARB FITTING



Product No	Hose I.D. in	Thread (M) NPT
62.421	1/4	1/4

Nickel plated steel

S41

BRASS HOSE BARB FITTINGS FOR « LOCK-ON » AIR HOSE | IN | NPT

Features and benefits

- No crimping required
- « Lock-on » hose barb fittings simplify maintenance
- For hose repairs, simply cut hose square and insert « Lock-on » fitting
- Eliminate need for crimping or skiving

Material

Brass

Specifications

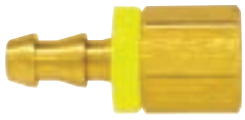
Maximum Working Pressure: 300 PSI

HOSE BARB TO MALE PIPE



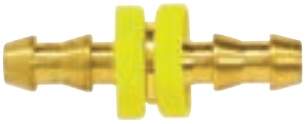
Product No	Hose I.D. in	Thread (M) NPT
41.860	1/4	1/8
41.861	1/4	1/4
41.877	1/4	3/8
41.862	3/8	1/4
41.863	3/8	3/8
41.864	3/8	1/2
41.866	1/2	3/8
41.867	1/2	1/2
41.868	5/8	1/2
41.869	3/4	3/4

HOSE BARB TO FEMALE PIPE



Product No	Hose I.D. in	Thread (F) NPT
41.871	1/4	1/4
41.872	3/8	1/4
41.873	3/8	3/8
41.874	1/2	3/8
41.875	1/2	1/2

HOSE BARB SPLICER



Product No	Hose I.D. in
41.880	1/4
41.881	3/8
41.882	1/2
41.883	5/8
41.884	3/4

WARNING

« Lock-on » fittings should only be used with « Lock-on » type hose. Use of « Lock-on » type fittings with the wrong hose type can lead to hose and fitting failures.

For more details on « Lock-on » hoses see Series 77

THE PROBLEM



THE SOLUTION



THE PROBLEM



THE SOLUTION





S41

BRASS REUSABLE HOSE FITTINGS FOR RUBBER AIR HOSES

IN | NPT

Features and benefits

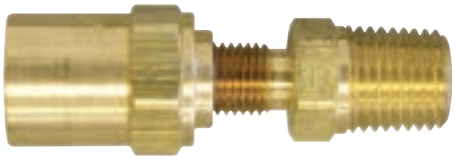
- For easy and foolproof replacement of hose fittings
- Eliminate need for crimping or skiving
- Available for most popular hose sizes

Material

Brass

Specifications

Maximum Working Pressure: 250 PSI
Working Temperature: -40 °C to 107 °C



Product No	Hose I.D. in	Hose O.D. in	Thread (M) NPT
41.800	1/4	1/2	1/4
41.802	1/4	9/16	1/4
41.804	1/4	5/8	1/4
41.810	5/16	9/16	1/4
41.812	5/16	5/8	1/4
41.817	3/8	5/8	1/4
41.818	3/8	5/8	3/8
41.819	3/8	11/16	1/4
41.820	3/8	11/16	3/8
41.821	3/8	3/4	1/4
41.830	1/2	7/8	1/2

WARNING

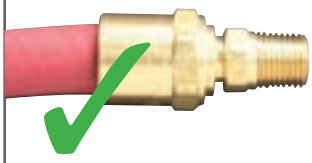
Reusable hose fittings are not recommended for use with thermoplastic hoses.

THE PROBLEM



Standard fittings used with hose clamps often lead to hose deterioration.

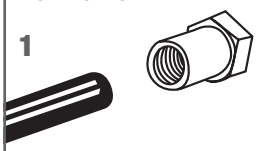
THE SOLUTION



Reusable hose fittings make for neat, long-lasting conne ctions.

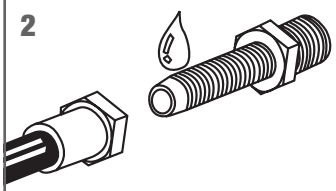
HOW TO INSTALL

1



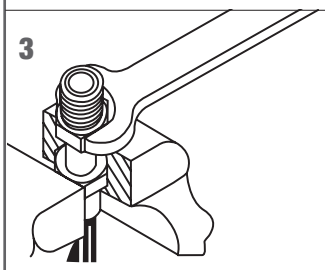
Simply slip and twist ferrule on the end of hose which has been trimmed flush. No skiving necessary.

2



Apply a drop or two of lubricant to fitting before inserting into the ferrule.

3



Turn reusable fitting into the ferrule. Hose is expanded inside ferrule for perfect fit.

S41

BRASS FITTINGS FOR WATER HOSE

IN | NPT | GHT

Features and benefits

- Brass fittings for water hose connectors
- Can be assembled on certain hose reels (see Series 79) **Steelpro, Steelpro inox, Topreel HD, Retracto, Ezreel**

Applications

For most industrial plant requirements or shops

MALE CONNECTOR



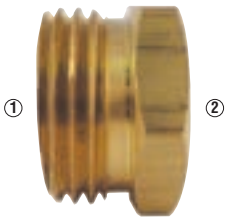
Product No	Hose Thread (M) GHT ①	Thread (M) NPT ②
41.211	3/4	3/8
41.212	3/4	1/2

MALE SWIVEL CONNECTOR



Product No	Hose Thread (F) GHT ①	Thread (M) NPT ②
41.207	3/4	3/8
41.209	3/4	1/2

FEMALE CONNECTOR



Product No	Hose Thread (M) GHT ①	Thread (F) NPT ②
41.216	3/4	3/8
41.217	3/4	1/2

FEMALE SWIVEL CONNECTOR



Product No	Hose Thread (F) GHT ①	Thread (F) NPT ②
41.201	3/4	1/2

REUSABLE HOSE FITTINGS FOR POLYURETHANE HOSES

IN | NPT

Features and benefits

- Dependable, leak-tight seal and resistant to loosening caused by vibrations
- Full flow
- Compatible with Series 14, 17, 74 and 78



Product No	Hose I.D. in	Hose O.D. in
41.835	1/4	3/8

PTFE SEALING TAPE

Features and benefits

- To be used on all male threaded connections to prevent air leaks
- Comes in a plastic spool dispenser
- Industrial quality



Product No	Dimensions
41.005	1.27 cm x 12.19 m

S48
HOSE CLAMPS



S48

STAINLESS STEEL HOSE CLAMPS

Features and benefits

- Used for tightening rubber and PVC air hoses
- Ideal for maintenance applications
- Easy to install
- Can be removed and reused
- Offer maximum resistance to corrosion

Applications

For air hoses repair

Ideal for applications requiring extra reinforcement

Material

301 Stainless Steel



Product No	Tightening Range / in	Band Width / in	Tightening Range / mm	Band Width / mm
48.200	1/4 - 5/8	5/16	6 - 16	8
48.202	5/16 - 7/8	5/16	8 - 22	8
48.204	3/8 - 7/8	1/2	9.5 - 22	12.7
48.206	7/16 - 1	1/2	11 - 25	12.7
48.208	5/8 - 1 1/16	1/2	16 - 27	12.7
48.210	1/2 - 1 1/4	1/2	13 - 32	12.7
48.212	13/16 - 1 1/2	1/2	21 - 38	12.7
48.220	13/16 - 1 3/4	1/2	21 - 44	12.7
48.222	1 1/16 - 2	1/2	27 - 51	12.7
48.224	1 5/16 - 2 1/4	1/2	33 - 57	12.7
48.226	1 9/16 - 2 1/2	1/2	40 - 64	12.7
48.228	1 13/16 - 2 3/4	1/2	46 - 70	12.7
48.230	2 -3	1/2	51 - 76	12.7

TECH TIP

Select a hose clamp diameter larger than the outside diameter (O.D.) of the air hose on which the hose clamp will be used

S48

TWO-EAR HOSE CLAMPS

Features and benefits

- One-piece design offers strong clamping action without damage to air hose or tubing
- Rubber and PVC air hoses are easily clamped
- Quick assembly using a crimping pincer

Applications

Widely used with compressed air, liquid and gas lines

Material

Zinc plated steel

INSTALLATION

One ear must be clamped completely.

When the second ear is closed, the first ear will open slightly.

This creates a springlike action which prevents against vibrations, pressure and air hose shrinking caused by temperature changes or wear.





TECH TIP

Select a hose clamp diameter larger than the outside diameter (O.D.) of the air hose on which the hose clamp will be used

Product No	Tightening Range / in	Tightening Range / mm	Band Width / mm
48.304	0.12 - 0.20	3 - 5	6
48.306	0.20 - 0.28	5 - 7	6
48.308	0.28 - 0.35	7 - 9	7
48.310	0.35 - 0.43	9 - 11	7
48.314	0.43 - 0.51	11 - 13	7
48.316	0.51 - 0.59	13 - 15	7.5
48.320	0.59 - 0.71	15 - 18	7.5
48.322	0.67 - 0.79	17 - 20	7.5
48.326	0.79 - 0.91	20 - 23	9
48.328	0.87 - 0.98	22 - 25	9
48.330	0.91 - 1.06	23 - 27	9
48.332	0.98 - 1.10	25 - 28	9
48.334	1.10 - 1.22	28 - 31	9.5
48.338	1.22 - 1.34	31 - 34	9.5
48.340	1.34 - 1.46	34 - 37	9.5
48.342	1.46 - 1.57	37 - 40	10
48.344	1.57 - 1.69	40 - 43	10
48.346	1.69 - 1.81	43 - 46	10

S48

TWO-EAR HOSE CLAMP KIT



Features and benefits

- Ideal for regular service or emergency use
- Most commonly used sizes of two-ear hose clamps with crimping pincer in a plastic case

KIT CONTAINS:

10 x 48.308 (7-9 mm)
10 x 48.310 (9-11 mm)
10 x 48.314 (11-13 mm)
10 x 48.316 (13-15 mm)
10 x 48.320 (15-18 mm)
10 x 48.322 (17-20 mm)
10 x 48.326 (20-23 mm)
10 x 48.330 (23-27 mm)
1 x 48.600 crimping pincer

Product No	Description
48.900	Two ear hose clamp kit with crimping pincer

PIPE CUTTER

Features and benefits

- Used to cut hose and rigid polyamide piping up to 30 mm diameter
- Allows straight, precise and even cutting
- Hook keeps cutter closed after use
- Safe way to cut a pipe or air hose





Product No	Description
36.100	Hose cutter
36.105	Replacement blades (x2)

CRIMPING PINCER

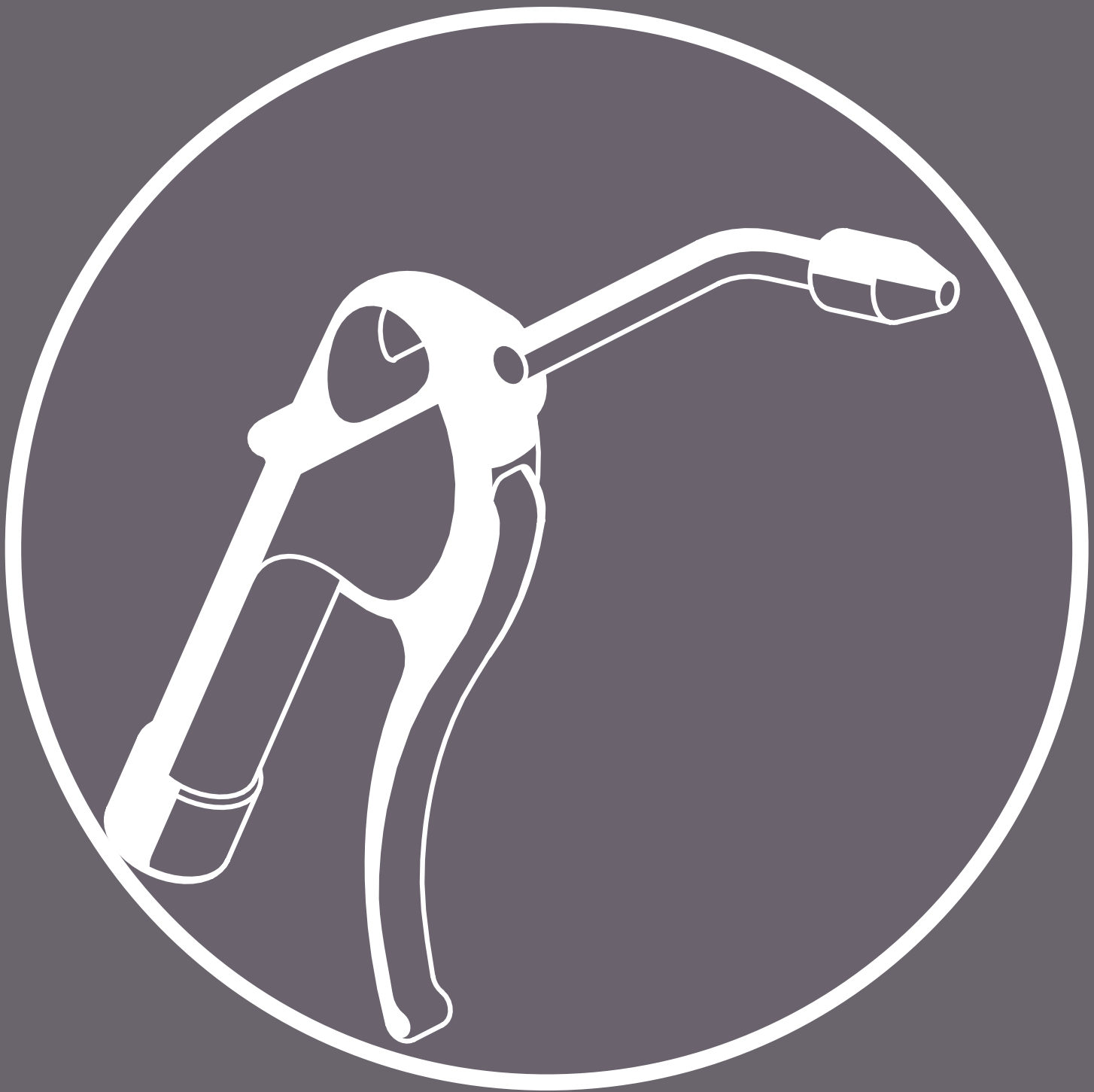
Features and benefits

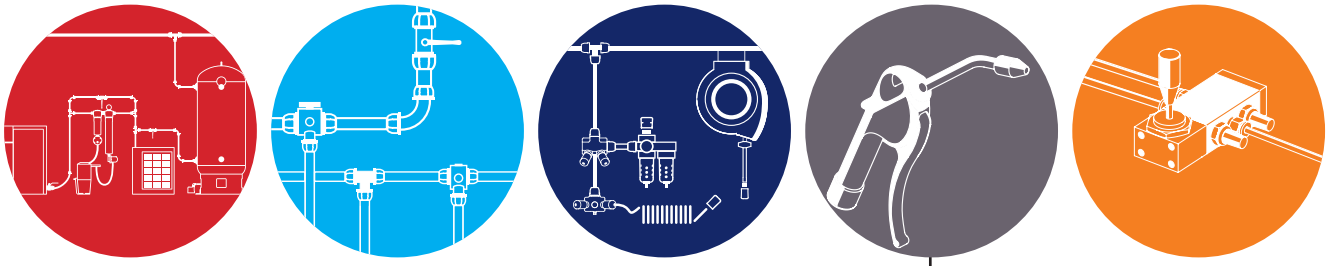
- For pinching and removal of two-ear hose clamps





Product No	Description
48.600	Crimping pincer





Group 4
Compressed Air Tools

S60 • Blow Guns 378
S61 • Specialized Compressed Air Guns 418
S63 • Tire inflation tools 424
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S60
BLOW GUNS



ERGONOMIC BLOW GUNS
- AIRPRO 381
- TOP PRO 389
- MAXJET 390

HIGH PERFORMANCE BLOW GUNS
- TOPGUN 392
- MAXPRO 400
- MAGNUM 406

COMPACT BLOW GUNS
- TOPQUIK 407
- COMPACT 410
- MAXJET 414
- LAZER 415

AIR GUNS
- TYPHOON 416
- INFORCER 417

S60

BLOW GUNS

THINGS TO CONSIDER BEFORE SELECTING A BLOW GUN

Blow guns blow compressed air and are used for several tasks such as:

- Cleaning
- Drying and dusting on workpieces and work surfaces
- Drying parts or scraps in a manufacturing process

There is a large array of models with different features and benefits. Here are some guidelines for choosing the ideal model for each type of application.

1. COMPLIANCE WITH SAFETY STANDARDS

Most blow guns, require working pressures between 80 and 120 PSI for optimum performance. Blow guns are to be used with caution. They can cause serious injury and blown debris can damage the equipment. This is why the OSHA and other safety organizations have issued rules regarding outlet pressure, shields and noise when using compressed air blow guns. User should never use these accessories to « clean » themselves.

Risks associated with the exit pressure

Section 326 of the Occupational Health and Safety Regulations states that the air pressure used for cleaning must be less than 30 PSI. In fact, a blow gun is said to be "safe" when the air pressure measured at the nozzle, when it is blocked, does not exceed 30 PSI. This pressure limit reduces the risk of particles or air entering the skin.

See also the general guidelines from OSHA 29CFR article 1910.242 (b) Hand tools and portable equipment, STD 1-13.1 (OSHA No. 100-1)

TOPRING offers 2 types of safety blow guns:

1) Side openings on the nozzle: allow the air to escape to the sides in case of obstruction of the head of the nozzle
2) Ultra-safe models with shut-off valve: a valve located inside the blow gun mechanism will automaticaly block any air flow in case of obstruction

To meet these standards, a safe blow gun must be used. All safety models are identified with the safety logo in the catalogue.

There is an alternative to blow guns for user cleaning: **safety personal cleaning units**. In accordance with OSHA requirements, they clean quickly and efficiently with a vacuum brush equipped with an air stirrer. In addition to being safe for users, these units are without an electric motor and do not represent any risk of sparks **(see Series 66)**.

The risks associated with blown debris

When using blow guns in restricted areas, users may get debris in their face which can cause serious injuries.

For such operations, OSHA and other Health and Safety Agencies require users to be properly protected.

Several **TOPRING** safety blow gun have an air cone nozzle to protect against debris. Vacuum cleaners remain the safest option for debris pick-up **(see Series 67)**.

Exposure to excessive noise

Excessive noise in the workplace is a health hazard. To address this issue, OSHA and other Health and Safety Agencies have established standards for acceptable limits for daily exposure to noise. See general instructions OSHA 29CFR 1910.95 (A) Exposure to noise at work.

Since the blow guns can produce high noise levels, the use of low sound level blow guns is recommended. **TOPRING** blow guns with low noise levels are identified by a logo with the mention « NOISE REDUCTION ».

2. THE TYPE OF USE

Depending on the nature of the work to be carried out, a blow gun nozzle can be prefered to another.

- Venturi nozzle: for a powerful air jet
- Flat nozzle: propels a jet of air to a precise area
- Silent nozzle: maximum noise reduction and energy saving
- Anti-scratch nozzle: to protect delicate surfaces
- Nozzle with protective screen: protects against flying debris
- Startip nozzle: for a concentrated air jet
- Long nozzle: for hard to reach areas
- Needle nozzle: for inflation

3. THE REQUIRED AIR THRUST

The output thrust is indicated in pounds. The greater the thrust force is needed, the greater the SCFM consumption (air flow) is required. For applications requiring high thrust, it is recommended to use TOPRING's "High Performance" blow guns. These blow guns can push up to 3.3 pounds and air guns (**TYPHOON** and **INFORCER** models) up to 13.5 lbs.

S60
OSHA REGULATIONS

29CFR Part 1910.242 (b)

"Hand and portable powered tools and equipment, general. Compressed air used for cleaning. Compressed air shall not be used for cleaning =purposes except where reduced to less than 30 PSI and then only with effective chips guarding and personal protective equipment."

OSHA Instruction STD 1-13.1
October 30, 1978
Office of Program Operations
February 14, 1972
OSHA PROGRAM DIRECTIVE N° 100-1

To: National and Field Offices
Subject: Reduction of Air Pressure Below 30 PSI for Cleaning Purposes
Attachment: Acceptable Methods for Complying with 41 CFR 50-204.8 and 29 CFR 1910.242(b)

1. Purpose

To provide guidance and examples of what alternate systems will meet the requirements of this section, and to clarify its intent.

2. Background

A number of inquiries have been received requesting a clarification of the meaning of 1910.242(b) also known as 41 CFR 50-2048 under the Walsh-Healey Act.

3. Interpretation

The phrase ”reduce to less than 30 PSI” means that the downstream pressure of the air at the nozzle (nozzle pressure) or opening of a gun, pipe, cleaning lance, etc., used for cleaning purposes will remain at a pressure level below 30 PSI for all static conditions. The requirements for dynamic flow are such that in the case when dead ending occurs a static pressure at the main orifice shall not exceed 30 PSI. This requirement is necessary in order to prevent a back pressure buildup in case the nozzle is obstructed or dead ended. See enclosure (1) for two acceptable methods of meeting this requirement. Also, there is no intent to restrict the diameter of the nozzle orifice or the volume (CFM) flowing from it.

"Effective chips guarding" means any method or equipment which will prevent a chip or particle (of whatever size) from being blown into the eyes or unbroken skin of the operator or other users. Effective chip guarding may be separate from the air nozzle as in the case where screens or barriers are used. The use of protective cone air nozzles are acceptable in general for protection of the operator but barriers, baffles or screens may be required to protect other users if they are exposed to flying chips or particles.

4. Action

Inquiries about the subject section should be handled in accordance with this instruction.

5. Effective Date

This instruction is effective immediately, and will remain in effect until canceled or superseded.

Director, of Program Operations

29CFR Section 1910.95 (a)
Occupational noise exposure.

Protection against the effects of noise exposure shall be provided when the sound levels exceed those shown in Table G-16 when measured on the A scale of a standard sound levels meter at slow response.

Table G-16 Permissible Noise Exposures

Duration per day, hours	8.0	6.0	4.0	3.0	2.0	1.5	1.0	0.5	0.25
Sound level dBAslow response	90	92	95	97	100	102	105	110	115

S60
AIRPRO
BLOW GUNS

General features and benefits

AIRFLOW ADJUSTMENT

- Control mechanism allows progressive and smooth adjustment of compressed airflow
- Airflow can be regulated simply by squeezing and releasing the lever hand

HIGH AIRFLOW

- High flow for maximum blowing power

SAFETY BLOW GUNS

- Safety models are designed to meet OSHA and other Health and Safety Agencies' requirements

HIGH RESISTANCE, HIGH STRENGTH

- Polymer material construction provides maximum durability
- High impact resistance and chemically inert

EASY CLEANING

- Highly resistant surface can be easily cleaned of oil and greases without solvents

EASY TO HANG

- Convenient built-in ring
- Inside of handle may be also used to hang up gun

ERGONOMIC DESIGN

- Nozzle and lever are ergonomically designed to reduce hand fatigue and help minimize carpal tunnel syndrome
- Air jet direction is aligned with forearm to avoid unnecessary strain
- Long lever for quick, comfortable grip, easy to squeeze even during prolonged use
- Lightweight body fits perfectly into the palm of the hand
- Comfortable slip-free hand grip with soft spring action
- Extended gap between lever and nozzle provides efficient safety guard for user's fingers
- Bent tube allows access to difficult-to-reach places
- Body material insulator prevents cold hands

General applications

Clearing away chips and shavings, cleaning of parts and machines, blowing, drying and dust removal from parts and work areas.

For machine and woodworking shops, construction, lumber mills, paper mills, textile mills, foundries, transportation, bakeries and food processing, rubber and plastic manufacturing plants, general cleanup and maintenance



Materials

Body: Hostaform C®

Nozzle: Plated steel/stainless steel/Aluminium

Valve: Hostaform C®

Springs : Stainless steel

Seals: Nitrile rubber

Specifications

Working Temperature: -40 to 65 °C

Connection: 1/4 (F) NPT

WARNING

Users should never use blow guns to clean themselves. A vacuum or a safety cleaning unit should be used instead.

S60 AIRPRO
MAXIMUM SAFETY BLOW GUNS



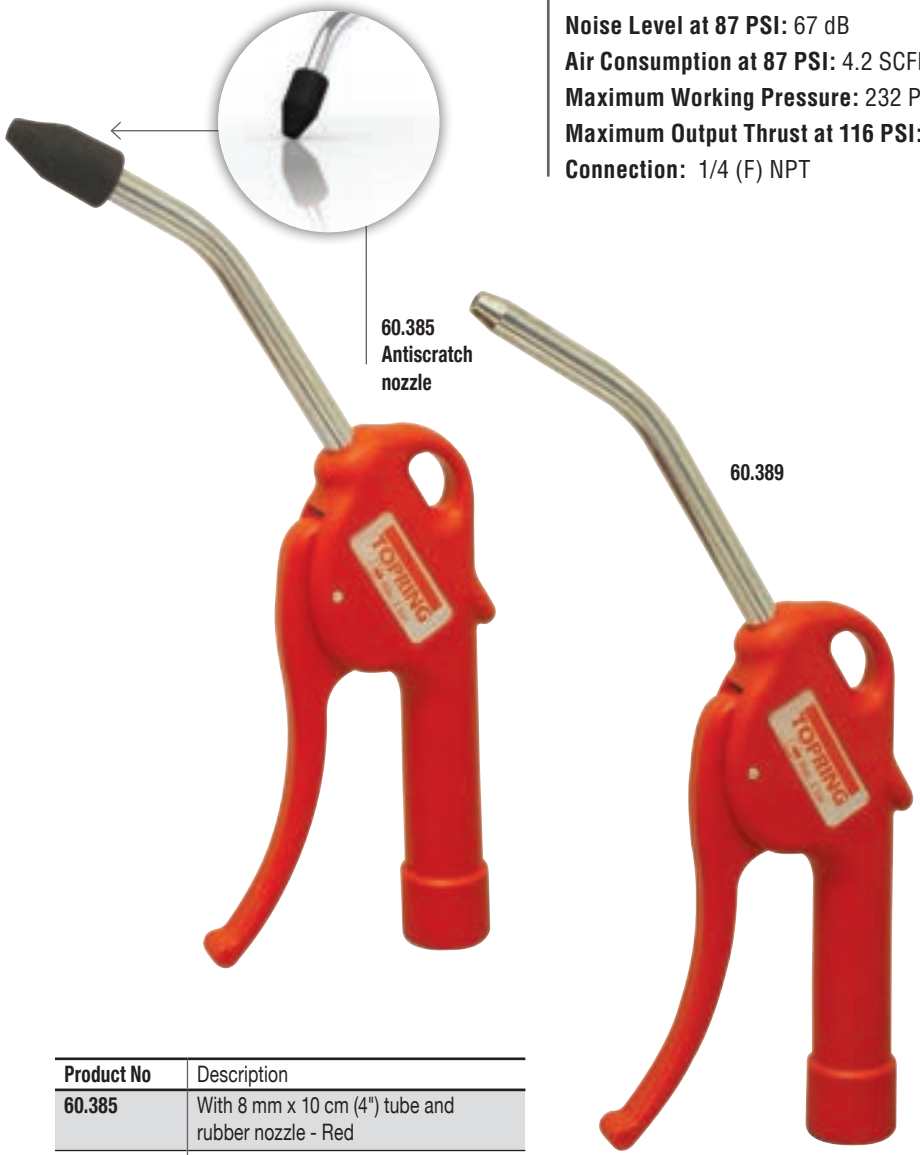
TOPRING maximum safety blow guns exceed OSHA and other Health and Safety Agencies' standards. If the tip of the blow gun is blocked, a safety check valve located inside the blow gun mechanism will immediately shut off the airflow. Thus the user will never be exposed to a dangerous airflow on his skin. When the nozzle is free of any obstruction, the valve re-engages to release air.

Features and benefits

- **The safest blow gun available on the market**
- Powerful airflow and low noise level
- Built-in tamper-proof valve automatically shuts off the airflow in case of nozzle obstruction
- Model available with a rubber nozzle eliminating the risk of scratches on delicate surfaces (60.385)

Specifications

Noise Level at 87 PSI: 67 dB
Air Consumption at 87 PSI: 4.2 SCFM
Maximum Working Pressure: 232 PSI
Maximum Output Thrust at 116 PSI: 0.24 lb
Connection: 1/4 (F) NPT



Product No	Description
60.385	With 8 mm x 10 cm (4") tube and rubber nozzle - Red
60.389	With 8 mm x 10 cm (4") tube - Red

For applications, materials and specifications, see page 381

MAXIMUM SAFETY, A UNIQUE CONCEPT

If the tip of the blow gun is blocked, a safety check valve located inside the blow gun mechanism shuts off the airflow immediately.



See video at **TOPRING**.com

CHIP GUARD SHIELD

Protects the user against the return of particles.

Fits easily on many **AIRPRO** blow guns.



Product No	Description
60.296	Chip guard shield

S60
AIRPRO
SAFETY BLOW GUNS WITH StarTip NOZZLE



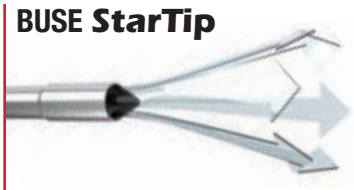
Features and benefits

- Powerful safety blow gun
- Noise reduction of nearly 20 decibels from conventional blow guns
- If the tip of the nozzle is blocked, the airflow escapes through the holes around the nozzle and the static pressure remains under 30 PSI
- Slim design allows access to narrow spaces
- Corrosion-resistant stainless steel tube

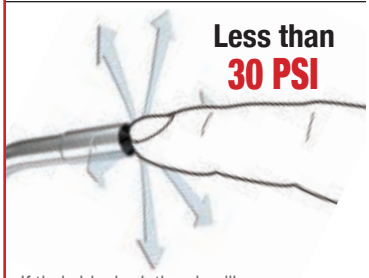
Specifications

Noise Level at 87 PSI: 76.8 dB
Air Consumption at 87 PSI: 8.6 SCFM
Maximum Working Pressure: 174 PSI
Maximum Output Thrust at 116 PSI: 0.66 lb
Connection: 1/4 (F) NPT

BUSE StarTip



StarTip nozzle offers a concentrated airflow for maximum efficiency.



If tip is blocked, the air will escape through radial holes and the static pressure will remain below 30 PSI.



Product No	Description
60.357	With 6 mm tube x 10 cm (4") - Blue
60.377	With 8 mm tube x 10 cm (4") - Red

For applications, materials and specifications, see page 381

S60
AIRPRO
SAFETY HIGH FLOW VENTURI NOZZLE BLOW GUNS



Features and benefits

- Powerful safety blow guns
- Venturi nozzle increases the available thrust
- If the tip of the nozzle is blocked, the airflow will escape through side holes and the static pressure will remain under 30 PSI

Specifications

Noise Level at 87 PSI:
83.7 dB (60.350 : 79.7 dB)

Air Consumption at 87 PSI:
8.3 SCFM (60.350 : 7.5 SCFM)

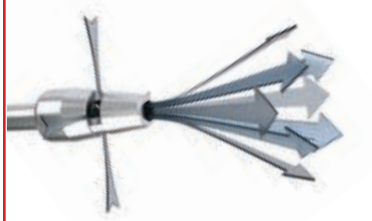
Maximum Working Pressure: 232 PSI

Maximum Output Thrust at 116 PSI:
0.72 lb (60.350: 0.63 lb)

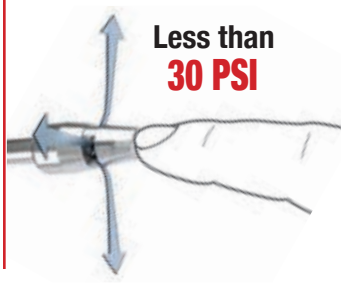
Connection: 1/4 (F) NPT

VENTURI NOZZLE

Airflow speeds up as it passes through the nozzle, drawing in ambient air through two side holes. The increased velocity and increased volume of air exiting the nozzle amplify thrust.

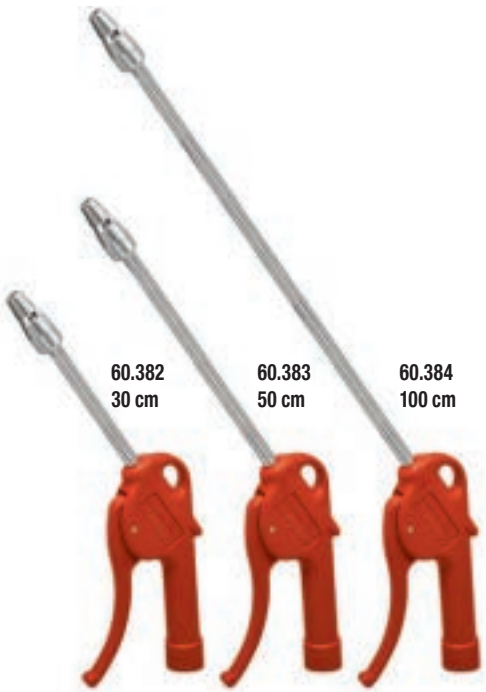


If the tip of the nozzle is blocked, the airflow escapes through the side holes and the static pressure remains under 30 PSI.





Product No	Description
60.350	With 6 mm tube x 10 cm (4") - Blue
60.386	With 8 mm tube x 10 cm (4") - Red



Product No	Description
60.382	With 8 mm tube x 30 cm (12") - Red
60.383	With 8 mm tube x 50 cm (20") - Red
60.384	With 8 mm tube x 100 cm (40") - Red

For applications, materials and specifications, see page 381

S60
AIRPRO
SAFETY FLAT NOZZLE BLOW GUN

OSHA · SAFETY · NOISE REDUCTION · ERGONOMICS



Features and benefits

- Flat nozzle specially designed to propel a powerful jet of air to a precise area
- Ideal for cleaning bench tops, machinery and equipment for low noise areas
- If the tip of the flat nozzle is blocked, the airflow escapes through the other holes of the nozzle and the static pressure remains under 30 PSI

Specifications

Noise Level at 87 PSI: 78 dB
Air Consumption at 87 PSI: 15.6 SCFM
Maximum Working Pressure: 116 PSI
Maximum Output Thrust at 116 PSI: 1.14 lb
Connection: 1/4 (F) NPT

Product No	Description
60.381	Flat nozzle - Red

For applications, materials and specifications, see page 381

FLAT NOZZLE

Concentrated flat stream of powerful air.



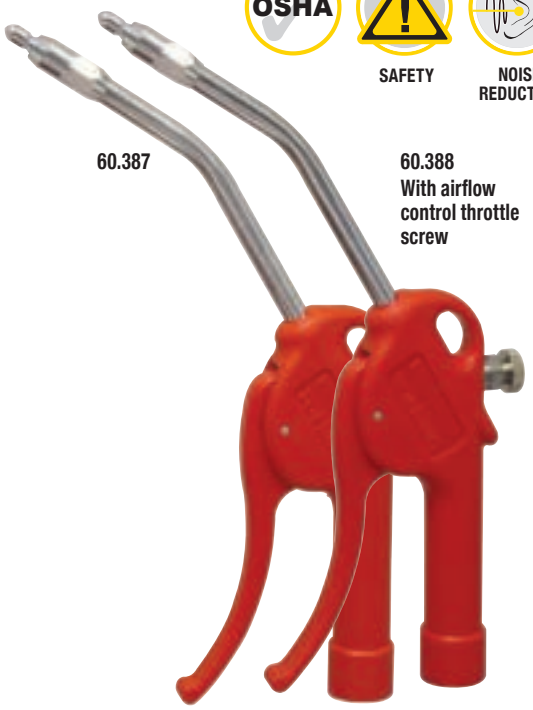
If the tip of the nozzle is blocked, the airflow escapes through holes and the static pressure remains under 30 PSI.

Less than 30 PSI



AIRPRO
SILENT SAFETY BLOW GUNS

OSHA · SAFETY · NOISE REDUCTION



60.387

60.388
With airflow control throttle screw

Features and benefits

- Specially designed nozzle reduces noise from 6 to 20 dB over conventional blow guns
- Energy efficient
- If the tip of the nozzle is blocked, the airflow escapes through holes and the static pressure remains under 30 PSI
- Airflow control throttle screw model provides lower independent airflow for delicate jobs (60.388)

Specifications

Noise Level at 87 PSI: 71.6 dB
Air Consumption at 87 PSI: 6.9 SCFM
Maximum Working Pressure: 232 PSI
Maximum Output Thrust at 116 PSI: 0.39 lb
Connection: 1/4 (F) NPT

Product No	Description
60.387	With 8 mm tube x 13 cm (5") - Red
60.388	With 8 mm tube x 13 cm (5") with airflow control - Red

For applications, materials and specifications, see page 381

QUIET NOZZLE

Quiet airflow.



If the tip of the nozzle is blocked, the airflow escapes through radial holes and the static pressure remains under 30 PSI

Less than 30 PSI



S60
AIRPRO
HIGH PERFORMANCE NON-RESTRICTED BLOW GUNS



ERGONOMICS

Features and benefits

- Provides a narrow and concentrated airflow
- Ergonomic design reduces hand fatigue and minimizes carpal tunnel syndrome
- Airflow control throttle screw model provides lower independent airflow for delicate jobs (60.392)
- Corrosion-resistant stainless steel tube model for harsh or aggressive environments (60.399)

Specifications

Noise Level at 87 PSI:
84 dB (60.320 : 80 dB)

Air Consumption at 87 PSI:
10.2 SCFM (60.320 : 9.2 SCFM)

Maximum Working Pressure: 232 PSI

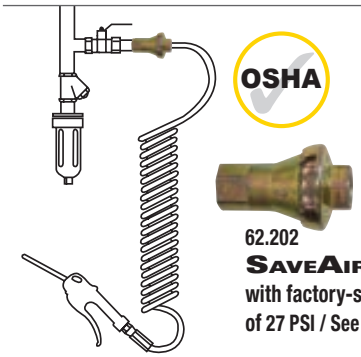
Maximum Output Thrust at 116 PSI:
0.88 lb (60.320 : 0.77 lb)

Connection: 1/4 (F) NPT

WARNING

TOPRING non-restricted blow guns are not provided with lateral holes to evacuate the excess of air in case of nozzle obstruction, neither a check valve inside the blow gun mechanism.

For safe use, it is highly recommended to install an in-line preset regulator between the air system and the air hose.

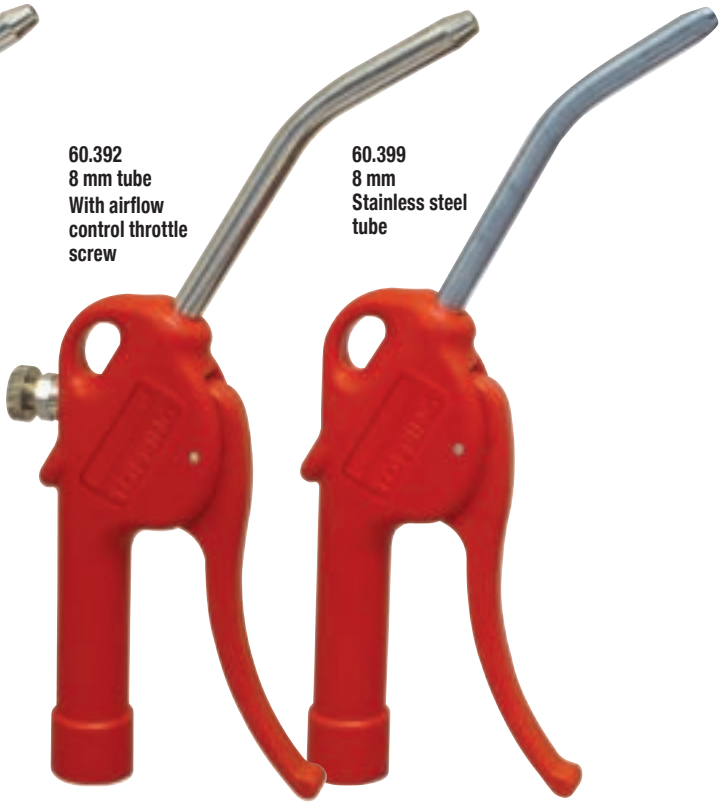


62.202
SAVEAIR® regulator with factory-set pressure of 27 PSI / See Series 62



60.320
6 mm tube

60.390
8 mm tube



60.392
8 mm tube
With airflow control throttle screw

60.399
8 mm
Stainless steel tube

Product No	Description
60.320	With 6 mm tube x 10 cm (4") - Blue
60.390	With 8 mm tube x 10 cm (4") - Red

Product No	Description
60.392	With 8 mm tube x 10 cm (4") with airflow control - Red
60.399	With 8 mm stainless steel tube x 10 cm (4") - Red

For applications, materials and specifications, see page 381

S60 AIRPRO
HIGH PERFORMANCE NON-RESTRICTED BLOW GUNS

ERGONOMICS

Features and benefits

- Provides a narrow and concentrated airflow
- Ergonomic design reduces hand fatigue and minimizes carpal tunnel syndrome
- Long tubes for hard-to-reach areas

Specifications

Noise Level at 87 PSI:
84 dB (60.325 : 80 dB)

Air Consumption at 87 PSI:
10.2 SCFM (60.325 : 9.2 SCFM)

Maximum Working Pressure: 232 PSI

Maximum Output Thrust at 116 PSI:
0.88 lb (60.325 : 0.77 lb)

Connection: 1/4 (F) NPT

WARNING

TOPRING non-restricted blow guns are not provided with lateral holes to evacuate the excess of air in case of nozzle obstruction, neither a check valve inside the blow gun mechanism.

For safe use, it is highly recommended to install an in-line preset regulator between the air system and the air hose.



Product No	Description
60.325	With 6 mm tube x 30 cm (12") - Blue
60.393	With 8 mm tube x 30 cm (12") - Red
60.395	With 8 mm tube x 50 cm (20") - Red
60.396	With 8 mm tube x 100 cm (40") - Red

For applications, materials and specifications, see page 381

CHIP GUARD SHIELDS

Protects the user against the return of particles.

Fits easily on many AIRPRO blow guns.

Product No	Chip guard shield
60.295	For 6 mm tube
60.296	For 8 mm tube

S60
AIRPRO
NON-RESTRICTED BLOW GUNS WITH RUBBER NOZZLE

ERGONOMICS

Features and benefits

- High airflow ensures powerful and concentrated blowing
- Rubber nozzle eliminates the risk of scratches on delicate surfaces

Specifications

Noise Level at 87 PSI:
80 dB (60.397 : 84 dB)

Air Consumption at 87 PSI:
9.2 SCFM (60.397 : 10.2 SCFM)

Maximum Working Pressure: 232 PSI

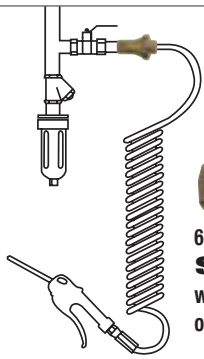
Maximum Output Thrust at 116 PSI:
0.72 lb (60.397 : 0.88 lb)

Connection: 1/4 (F) NPT

WARNING

TOPRING non-restricted blow guns are not provided with lateral holes to evacuate the excess of air in case of nozzle obstruction, neither a check valve inside the blow gun mechanism.

For safe use, it is highly recommended to install an in-line preset regulator between the air system and the air hose.





62.202
SAVEAIR® regulator with factory-set pressure of 27 PSI / See Series 62



60.330
6 mm tube

60.397
8 mm tube

Product No	Description
60.330	With 6 mm tube x 10 cm (4") - Blue
60.397	With 8 mm tube x 10 cm (4") - Red

For applications, materials and specifications, see page 381



Replacement nozzles

Product No	Description
60.280	Rubber nozzle for 6 mm tube
60.292	Rubber nozzle for 8 mm tube

S60
TOP PRO
SAFETY BLOW GUNS



SAFETY | NOISE REDUCTION | ERGONOMICS

Features and benefits

- Airflow can be precisely regulated simply by squeezing and releasing the handle
- Convenient built-in ring for easy storage
- Ergonomically designed non-slip grip to ensure complete safety and handling
- Superior durability thanks to the materials used in the manufacturing
- Laboratory tested mechanism to resist to more than 100 000 operation cycles

Materials

Body: Reinforced antishock polyamide
Nozzle: Reinforced antiscratch polyamide
Valve: Reinforced polyamide
Springs: Galvanized steel
Seals: NBR
Inlet Connection: Brass

Specifications

Working Temperature : -15 to 70°C
Noise Level at 116 PSI: See table below
Air Consumption: See table below
Maximum Working Pressure: 145 PSI
Connection: 1/4 (F) NPT



Brass inlet connection



Product No	Description	Consumption SCFM*	Decibels*
60.302	With 10 cm (4") tube	6.4	86
60.303	With 30 cm (12") long tube	11.7	103
60.304	With 50 cm (20") long tube	10.4	101
60.315	With Quiet nozzle	7.2	73
60.316	With Venturi nozzle	18.4	108

* At 116 PSI

S60
MAXJET
NON-RESTRICTED BLOW GUNS

Features and benefits

- Powerful airflow provides a narrow and concentrated airflow
- Progressive and precise adjustment of the airflow regulated simply by squeezing and releasing the handle
- Ergonomic design reduces hand fatigue and minimizes carpal tunnel syndrome
- High quality manufacturing materials
- Rubber nozzle model eliminates the risk of scratches on delicate surfaces (60.332)
- Long tube model for hard-to-reach areas (60.324)

Specifications

Maximum Working Pressure: 150 PSI
Connection: 1/4 (F) NPT



60.322
10 cm



60.332
With
anti-srcatch
nozzle



60.324
51 cm

Product No	Description
60.322	With 10 cm (4 in) tube
60.324	With 51 cm (20 in) long tube
60.332	With anti-scratch nozzle • 10 cm (4 in) tube

WARNING

MAXJET non-restricted blow guns are not provided with lateral holes to evacuate the excess of air in case of nozzle obstruction, neither a check valve inside the blow gun mechanism.

For safe use, it is highly recommended to install an in-line preset regulator between the air system and the air hose.

S60
MAXJET
INTERCHANGEABLE BLOW GUN AND TIP KIT

Features and benefits

- Choice of 2 different blow gun bodies (ergonomic and compact) and 9 nozzles for maximum versatility
- Each nozzle fits both blow gun bodies with a convenient quick coupler style connection

Specifications

Maximum Working Pressure: 150 PSI
Connection: 1/4 (F) NPT



INCLUDED IN THE KIT:

- Plastic body ergonomic blow gun with quick coupler style connection for nozzles
- Compact metal blow gun with quick coupler style connection for nozzle
- 1/4 INDUSTRIAL 1/4 (M) NPT plug
- Plastic safety nozzle
- Safety booster nozzle
- Rubber tip
- Inflating needle
- Aerosol spray nozzle
- Siphon nozzle
- 8 cm needle extension nozzle
- 10 cm extension nozzle
- 15 cm safety extension nozzle

Product No	Description
60.550	Blow gun and tip kit

S60
TOPGUN
SAFETY BLOW GUNS

General features and benefits

AIRFLOW ADJUSTMENT
- Control mechanism allows progressive and smooth adjustment of compressed airflow
- Airflow can be regulated by the simple pressure exerted on the lever

HIGH OUTPUT PERFORMANCE
- High flow for maximum blowing power

SAFETY BLOW GUNS
- Manufactured to meet OSHA and other Health and Safety Agencies' Standards, ensuring output pressure less than 30 PSI even with complete obstruction (inlet pressure of 120 PSI)

ROBUST AND POWERFUL
- Superior durability due to the blow gun manufacturing materials.
- Highly resistant aluminium body

FACILITATE STORAGE
- Convenient built-in hook to facilitate storage
- Magnetic hook option for easy storage (see page 398)

LONG TUBE MODELS
- Several models are available with different tube lengths for hard-to-reach areas

ERGONOMIC
- Ergonomic design with a functional lever handle for quick and comfortable grip. Easy to squeeze even with prolonged use; reduces exerted tension on the hand

General applications

Machine and woodworking shops

Industries and shops: construction, transportation, food, paper mills, textile, foundries, rubber and plastic manufacturing

General cleaning and maintenance

Materials

Body: Cast aluminium

Nozzle: Aluminium alloy, brass or stainless steel

Tube: Durable cast aluminium or stainless steel

Valve: Brass

Springs: Stainless steel

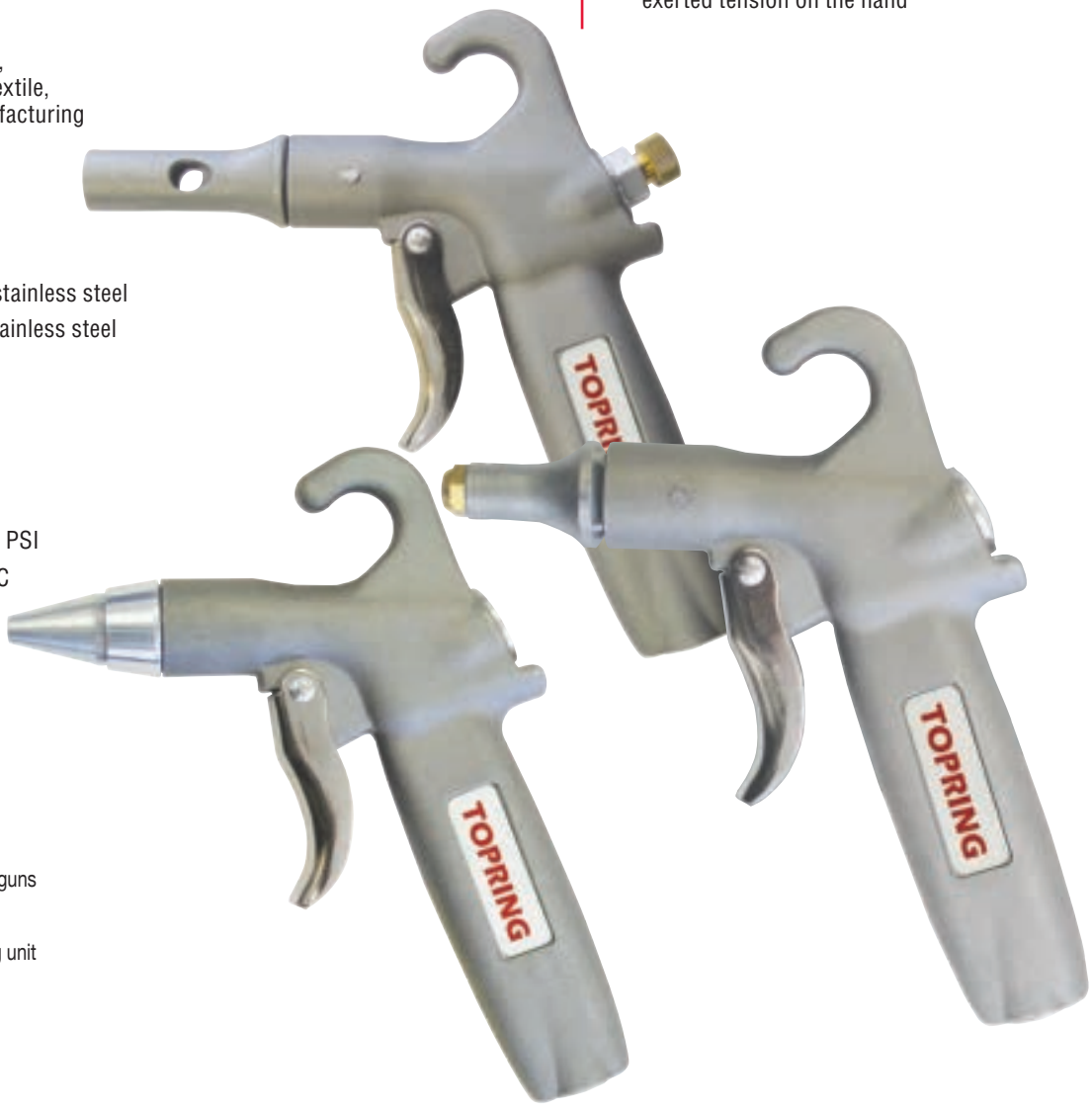
Seals: Nitrile rubber

General specifications

Maximum Working Pressure : 120 PSI

Working Temperature: -40 to 65 °C

Connection: 1/4 (F) NPT



WARNING

Users should never use blow guns to clean themselves.

A vacuum or a safety cleaning unit should be used instead.

S60
TOPGUN
PROTECTIVE AIR SCREEN SAFETY BLOW GUNS



Features and benefits

- Deliver high thrust with pinpoint accuracy
- Protective air screen protects users against dangerous "chip fly back"
- Should the tip be blocked, the entire airflow is diverted through the slots so the static pressure remains under 30 PSI (meeting OSHA standards)
- Airflow control throttle screw model provides lower independent airflow for delicate jobs (60.405)
- Model with 15 cm brass tube (with 1/8 in O.D. flexible tube at the tip) for blind holes (60.475)
- Magnetic hook option for easy storage (see page 398)

Applications

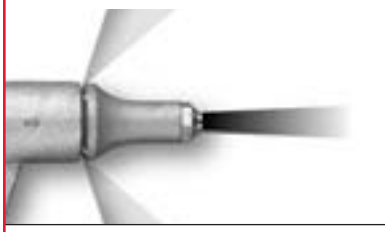
Cleaning of machine tools, woodworking tools, textile and other production equipment

Specifications

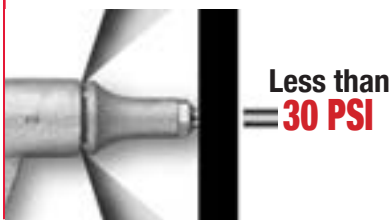
Maximum Output Thrust:
60.400 and 60.405: 0.4 lb / 60.475: 0.1 lb
Noise Level: 60.400 and 60.405: 102 dB
60.475: 103 dB
Air Consumption: 35 SCFM
Maximum Working Pressure: 120 PSI

PROTECTIVE AIR SCREEN

While the main airflow exits through the tip to move and dislodge debris, a small portion of the main airflow is diverted through slots around the periphery of the tip to form a protective air screen. This protective air screen prevents chips and other debris from blowing back towards the user.



Should the tip of the nozzle be blocked, the entire airflow is diverted through the side slots so the static pressure remains under 30 PSI (meeting OSHA standards).

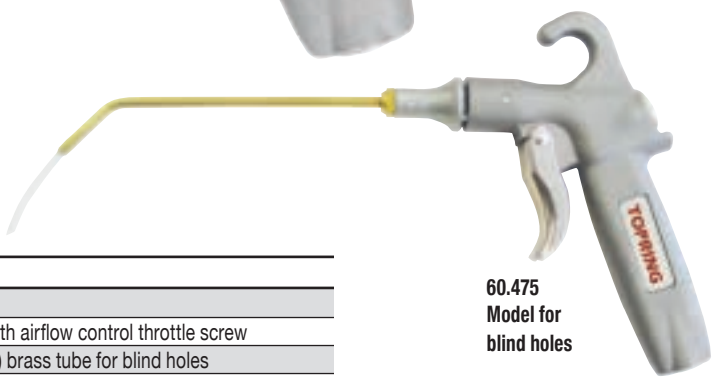




60.400



60.405
With airflow control throttle screw



60.475
Model for blind holes

Product No	Description
60.400	Short nozzle
60.405	Short nozzle with airflow control throttle screw
60.475	With 15 cm (4") brass tube for blind holes



Designed to blow metal, wood and plastic particles from deep cracks and blind holes.

S60
TOPGUN
MAXIMUM THRUST SAFETY BLOW GUN WITH VENTURI NOZZLE



Features and benefits

- Designed to move a large volume of debris through the venturi nozzle increasing the available air thrust
- Protective air screen protects user from dangerous particles, chips and debris
- Airflow control throttle screw provides lower independent airflow for delicate jobs
- If the tip of the nozzle is blocked, the airflow escapes through radial holes and the static pressure remains under 30 PSI (meeting OSHA standards)
- Magnetic hook option for easy storage (see page 398)

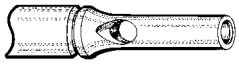
Applications

Cleaning equipment in paper and textile mills, metal cutting and woodworking equipment and other production equipment

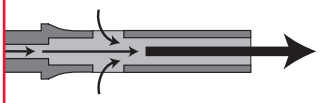
Specifications

Maximum Output Thrust: 1 lb
Noise Level: 104 dB
Air Consumption: 36 SCFM
Maximum Working Pressure: 120 PSI

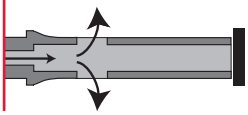
VENTURI NOZZLE



Airflow speeds up as it passes through the nozzle, drawing in ambient air through two side ports. The increased velocity and increased volume of air exiting the nozzle amplifly thrust.



Should the tip of the nozzle be blocked, the entire airflow is diverted through the side openings so the static pressure remains under 30 PSI (meeting OSHA standards).





With airflow control throttle screw

Product No	Description
60.410	Venturi nozzle with airflow throttle screw

For applications, materials and specifications, see page 392

S60
TOPGUN
MAXIMUM THRUST LONG SAFETY BLOW GUNS WITH VENTURI NOZZLE



Features and benefits

- Designed to move a large volume of debris through the VENTURI type nozzle that increases the available air thrust
- Long tubes to clean hard-to-reach areas
- Stainless steel nozzle and tube available for lengths of 30, 90 and 120 cm
- If tip is blocked, static pressure will remain at less than 30 PSI to meet OSHA and other Health and Safety Agencies' standards
- Magnetic hook option for easy storage (see page 398)

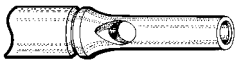
Applications

Blow guns with long tubes for hard-to-reach areas: for blowing floor debris, cleaning masonry forms, tanks, ovens, large molds, machinery and storage areas

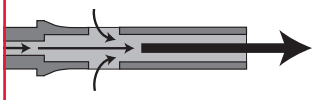
Specifications

Maximum Output Thrust: 2 lb
Noise Level: 109 dB
Air Consumption: 34 SCFM
Maximum Working Pressure: 120 PSI

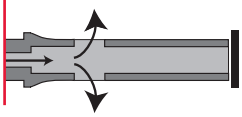
VENTURI NOZZLE

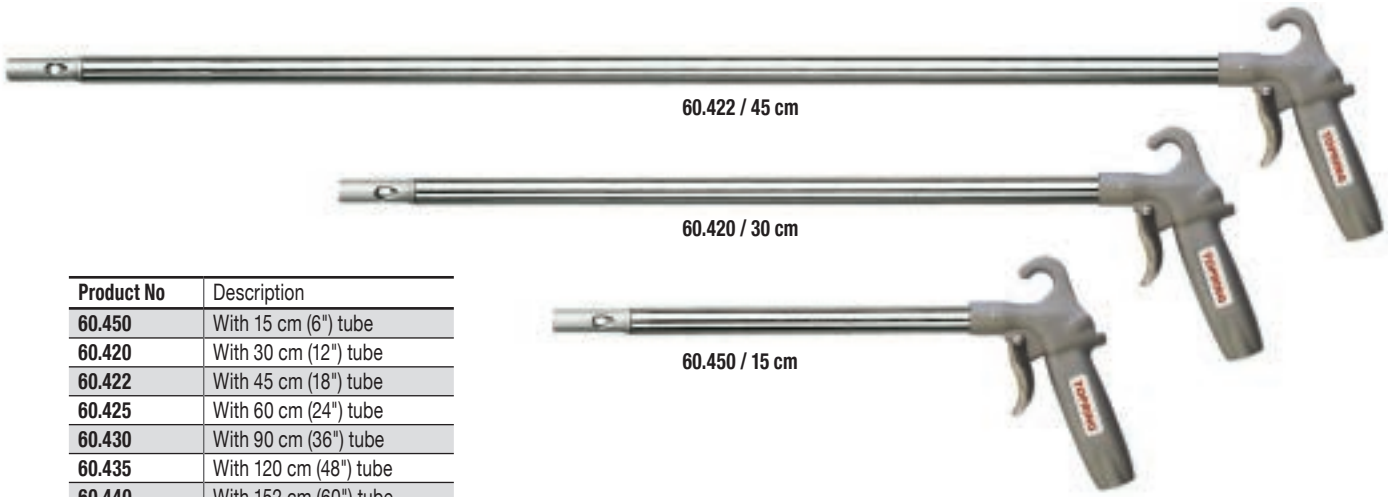


Airflow speeds up as it passes through the nozzle, drawing in ambient air through two side ports. The increased velocity and increased volume of air exiting the nozzle amplifly thrust.



Should the tip of the nozzle be blocked, the entire airflow is diverted through the slots so the static pressure remains under 30 PSI (meeting OSHA standards).





Product No	Description
60.450	With 15 cm (6") tube
60.420	With 30 cm (12") tube
60.422	With 45 cm (18") tube
60.425	With 60 cm (24") tube
60.430	With 90 cm (36") tube
60.435	With 120 cm (48") tube
60.440	With 152 cm (60") tube
60.442	With 182 cm (72") tube

With stainless steel nozzle and tube

Product No	Description
60.420.01	With 30 cm (12") tube
60.430.01	With 90 cm (36") tube
60.435.01	With 120 cm (48") tube

For applications, materials and specifications, see page 392



Long tube for hard to reach areas

S60
TOPGUN
EXTRA THRUST SAFETY BLOW GUNS WITH VENTURI NOZZLE



Features and benefits

- Designed to move a large volume of debris through the venturi nozzle increasing the available air thrust by 40% compared to conventional blow guns
- Should the tip of the nozzle be blocked, the entire airflow is diverted through the side openings so the static pressure remains under 30 PSI (meeting OSHA standards)
- Long tubes for hard-to-reach areas
- Magnetic hook option for easy storage (see page 398)

Applications

For the cleaning of equipment requiring a powerful air jet: paper mills, textile and wood industries, metal cutting, foundries and heavy equipments

Specifications

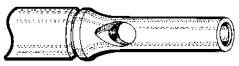
Maximum Output Thrust:
60.460: 2.5 lb / other models: 2.8 lb

Noise Level: 108 dB

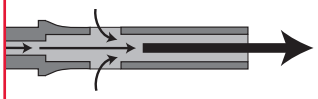
Air Consumption: 54 SCFM

Maximum Working Pressure: 120 PSI

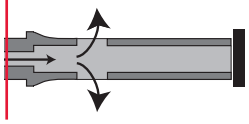
VENTURI NOZZLE



Airflow speeds up as it passes through the nozzle, drawing in ambient air through two side ports. The increased velocity and increased volume of air exiting the nozzle amplifly thrust.

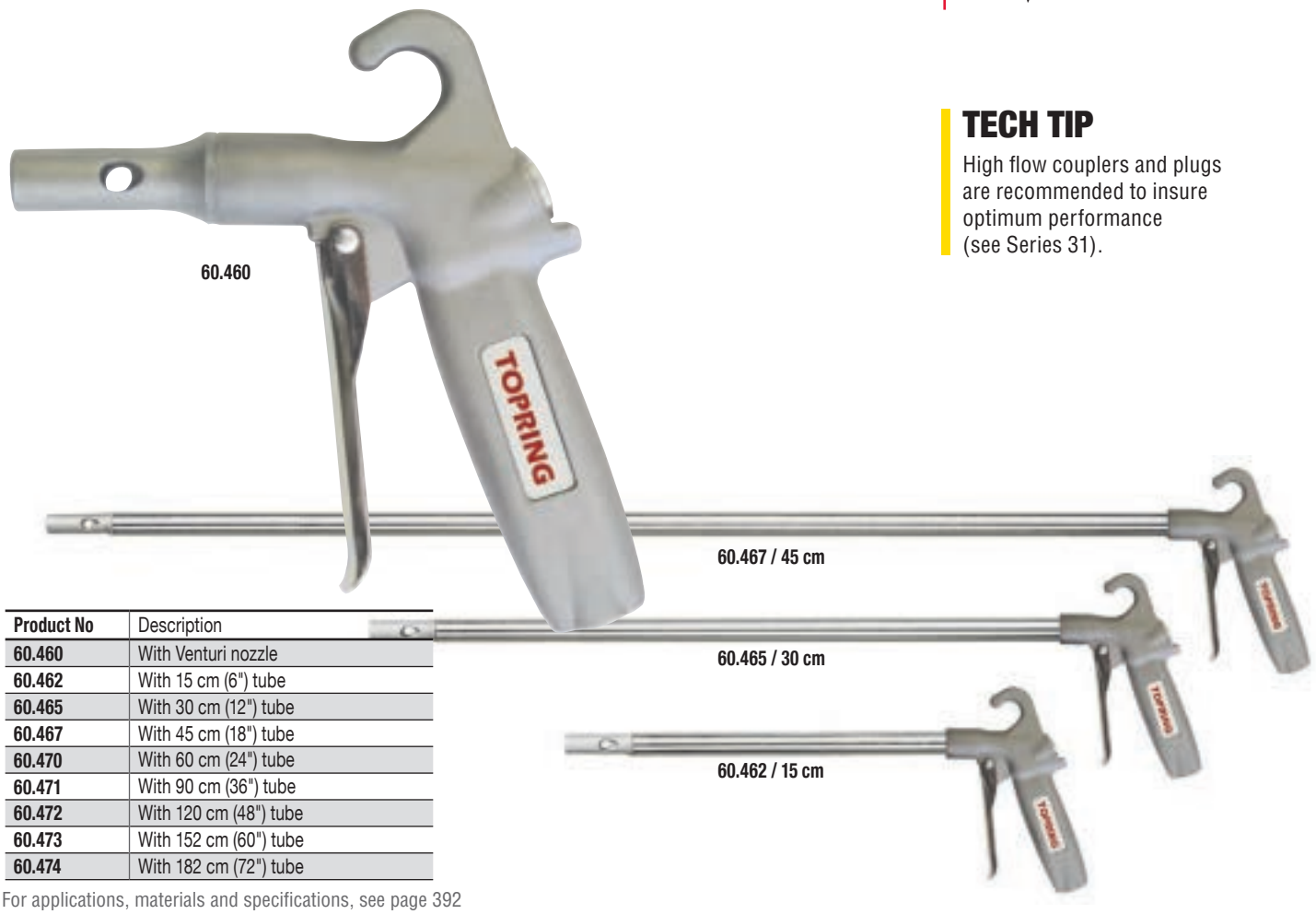


Should the tip of the nozzle be blocked, the entire airflow is diverted through the side openings so the static pressure remains under 30 PSI (meeting OSHA standards).



TECH TIP

High flow couplers and plugs are recommended to insure optimum performance (see Series 31).



Product No	Description
60.460	With Venturi nozzle
60.462	With 15 cm (6") tube
60.465	With 30 cm (12") tube
60.467	With 45 cm (18") tube
60.470	With 60 cm (24") tube
60.471	With 90 cm (36") tube
60.472	With 120 cm (48") tube
60.473	With 152 cm (60") tube
60.474	With 182 cm (72") tube

For applications, materials and specifications, see page 392

S60
TOPGUN
WHIPSER JET SAFETY BLOW GUNS WITH COANDA NOZZLE



Features and benefits

- Provides extra high thrust with reduced air consumption
- Unique coanda nozzle design reduces noise by up to 6 to 20 dB over conventional blow guns
- Should the tip of the nozzle be blocked, the entire airflow is diverted through the narrow openings around the nozzle so the static pressure remains under 30 PSI (meeting OSHA standards)
- Long tube models for hard-to-reach areas
- Magnetic hook option for easy storage (see page 398)

Applications

Cleaning equipment in paper and textile mills, metal cutting and woodworking equipment for blowing floor debris into piles, cleaning masonry forms, tanks, ovens, large molds, as well as machinery and storage areas

Specifications

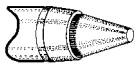
Maximum Output Thrust:
60.415: 1.1 lb / other models: 1.5 lb

Noise Level:
60.415: 93 dB / other models: 99 dB

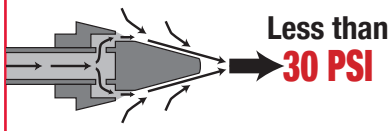
Air Consumption:
60.415: 21 SCFM / other models: 29 SCFM

Maximum Working Pressure: 120 PSI

COANDA NOZZLE

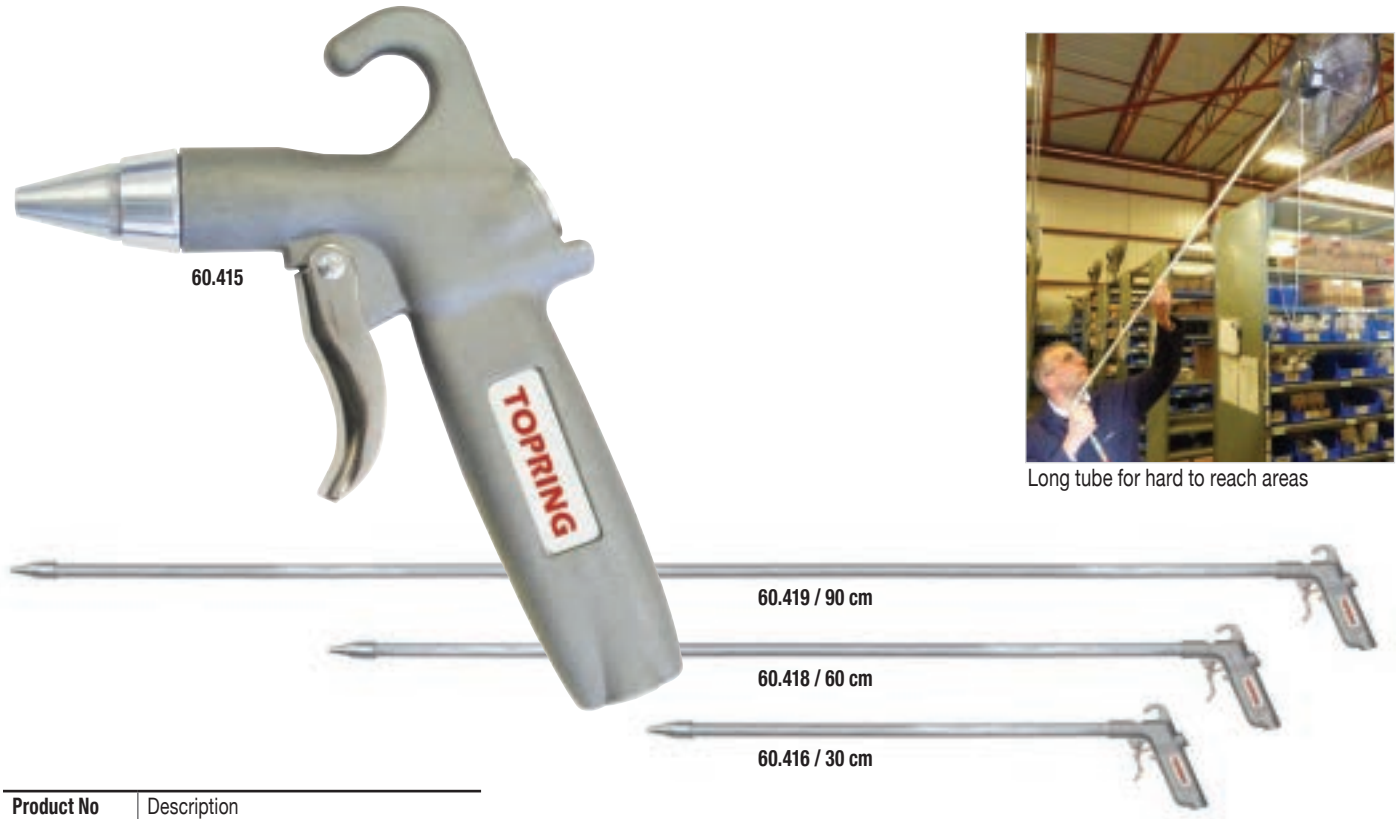


High-speed air jets exit from narrow openings around the nozzle, adhering to the conical face of the nozzle. The drive of the ambiant air allows an increased air thrust with a low noise level.



Should the tip of the nozzle be blocked, the entire airflow is diverted through the openings of the conical tip so the static pressure remains under 30 PSI (meeting OSHA standards).

In addition, whisper jet blow gun also meets OSHA standards for noise level.



Long tube for hard to reach areas

Product No	Description
60.415	With Coanda nozzle
60.416	With 30 cm (12") tube
60.418	With 60 cm (24") tube
60.419	With 90 cm (36") tube

For applications, materials and specifications, see page 392

S60
REPLACEMENT PARTS FOR TOPGUN SAFETY BLOW GUNS



TOPGUN safety blow guns are repairable.
Both valve repair kits and replacement nozzles are available for most models.

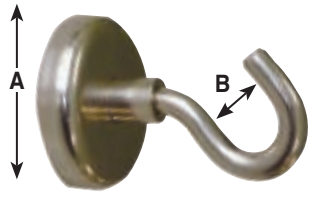
VENTURI replacement nozzle	Valve repair kit
	

Product No	Product No	Product No / Blow gun description	
-	60.498	60.400	Protective air screen gun
-	60.499	60.405	Protective air screen gun / with airflow control
-	60.498	60.475	Blind hole air gun
-	60.499	60.410	Venturi tip booster air gun
60.490	60.498	60.450	Venturi tip booster air gun, 15 cm tube (6")
60.490	60.498	60.420	Venturi tip booster air gun, 30 cm tube (12")
60.490	60.498	60.422	Venturi tip booster air gun, 45 cm tube (18")
60.490	60.498	60.425	Venturi tip booster air gun, 60 cm tube (24")
60.490	60.498	60.430	Venturi tip booster air gun, 90 cm tube (36")
60.490	60.498	60.435	Venturi tip booster air gun, 120 cm tube (48")
60.490	60.498	60.440	Venturi tip booster air gun, 152 cm tube (60")
60.490	60.498	60.442	Venturi tip booster air gun, 182 cm tube (72")
-	60.498	60.415	Whisper jet air gun
-	60.498	60.416	Whisper jet air gun, 30 cm tube (12")
-	60.498	60.418	Whisper jet air gun, 60 cm tube (24")
-	60.498	60.419	Whisper jet air gun, 90 cm tube (36")
60.491	60.498	60.460	Extra thrust venturi tip air gun
60.491	60.498	60.462	Extra thrust venturi tip air gun, 15 cm tube (6")
60.491	60.498	60.465	Extra thrust venturi tip air gun, 30 cm tube (12")
60.491	60.498	60.467	Extra thrust venturi tip air gun, 45 cm tube (18")
60.491	60.498	60.470	Extra thrust venturi tip air gun, 60 cm tube (24")
60.491	60.498	60.471	Extra thrust venturi tip air gun, 90 cm tube (36")
60.491	60.498	60.472	Extra thrust venturi tip air gun, 120 cm tube (48")
60.491	60.498	60.473	Extra thrust venturi tip air gun, 152 cm tube (60")
60.491	60.498	60.474	Extra thrust venturi tip air gun, 182 cm tube (72")

STORAGE ACCESSORIES FOR BLOW GUNS

Magnetic Hooks for Blow Guns

- Rugged metal
- Axial holding force of 95 lbs



	Dimension	
Product No	A	B
60.487	48 mm	11 mm
60.489	42 mm	10 mm

Magnetic Gunslinger



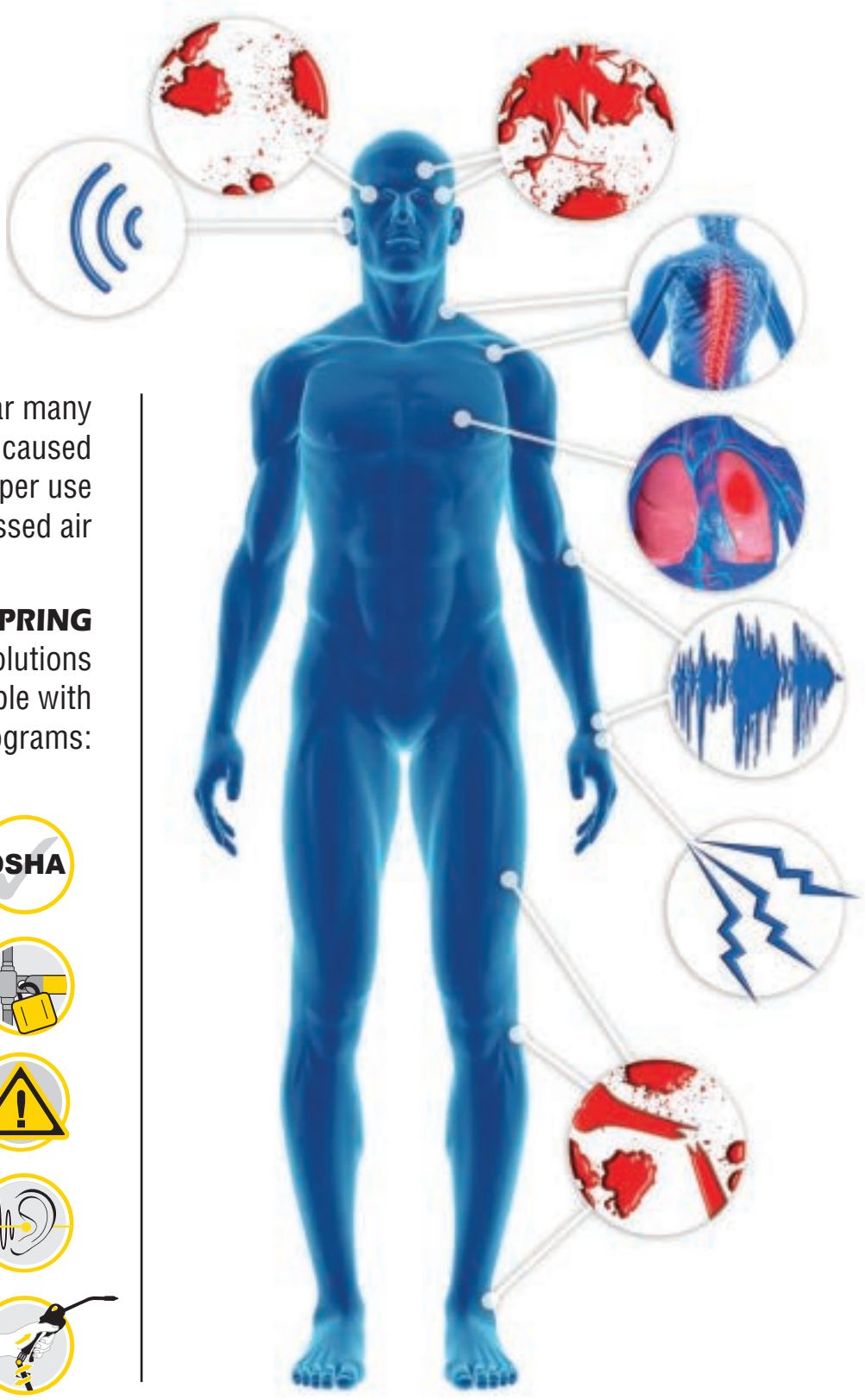
- Sturdy polyethylene
- Dimensions
  Tube: 12 in x 1¼ in I.D.
  Magnets (2x): 83 mm diameter
- Up to 190 lbs of combined holding strength



Product No	Description
60.488	Holster with magnets for blow guns

DANGER

Compressed air can hurt!



Each year many accidents are caused by improper use of compressed air

TOPRING offers safety solutions identifiable with these pictograms:

MEETING OSHA STANDARDS

LOCKOUT

SAFETY

NOISE REDUCTION

ERGONOMICS

S60 MAXPRO
SAFETY BLOW GUNS

General features and benefits

AIRFLOW ADJUSTMENT
- Control mechanism allows progressive and smooth adjustment of compressed airflow
- Airflow can be regulated by the simple pressure exerted on the lever

HIGH OUTPUT PERFORMANCE
- High flow for maximum blowing power

SAFETY BLOW GUNS
- Manufactured to meet OSHA and other Health and Safety Agencies'Standards, ensuring output pressure less than 30 PSI even with complete obstruction of nozzle (inlet pressure of 120 PSI)

ROBUST AND POWERFUL
- Superior durability due to the blow gun manufacturing materials
- Highly resistant aluminium body

FACILITATE STORAGE
- Convenient built-in hook to facilitate storage
- Magnetic hook option for easy storage (see page 398)

LONG TUBE MODELS
- Several models are available with different tube lengths for hard-to-reach areas

ERGONOMIC
- Ergonomic design with a functional lever handle for quick and comfortable grip
- Easy to squeeze even with prolonged use; reduces exerted tension on the hand
- Polymer handle for more comfort

General applications
Machine and woodworking shops

Industries and shops: construction, transportation, food, paper mills, textile, foundries, rubber and plastic manufacturing

General cleaning and maintenance

Materials
Body and nozzle: Aluminium

Tube: Aluminium

Springs: Stainless steel

Seals: EPDM and nitrile rubber

Handle cover: Polymer

General specifications
Noise level : 88 dB

Working temperature : -20 to 100°C



WARNING
Users should never use blow guns to clean themselves.

A vacuum or a safety cleaning unit should be used instead.

S60 MAXPRO
SAFETY HIGH FLOW BLOW GUNS WITH VENTURI NOZZLE



Features and benefits

- Designed to move a large volume of debris through the venturi nozzle increasing the available air thrust by 40% compared to conventional blow guns
- Should the tip of the nozzle be blocked, the entire airflow is diverted through the side openings so the static pressure remains under 30 PSI (meeting OSHA standards)
- Long tubes for hard-to-reach areas
- Magnetic hook option for easy storage (see page 398)

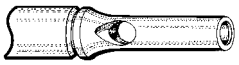
Applications

Machine and woodworking shops, construction, lumber mills, paper and textile mills, foundries, transportation, bakeries and food processing, rubber and plastic manufacturing plants, general clean-up and maintenance

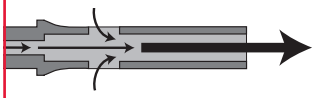
Specifications

Maximum Output Thrust: 3.2 lb
Noise Level: 97 dB
Air Consumption: 32 SCFM
Maximum Working Pressure: 120 PSI

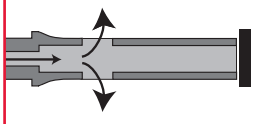
VENTURI NOZZLE



Airflow speeds up as it passes through the nozzle, drawing in ambient air through two side ports. Increased velocity and volume of air exiting the nozzle boosts available air thrust.



Should the tip of the nozzle be blocked, the entire airflow is diverted through the slots so the static pressure remains under 30 PSI (meeting OSHA standards).





Product No	Description
60.561	With venturi nozzle
60.563	With 30 cm (12") tube
60.564	With 60 cm (24") tube
60.565	With 90 cm (36") tube
60.566	With 120 cm (48") tube

S60 MAXPRO
SAFETY HIGH FLOW BLOW GUNS WITH AIRFLOW CONTROL NOZZLE

SAFETY ERGONOMICS

Features and benefits

- Sturdy and powerful blow guns with adjustable nozzle for precise control of airflow
- Extended thin tube for hard-to-reach areas (60.576)
- Should the tip of the nozzle be blocked, the entire airflow is diverted through the side holes so the static pressure remains under 30 PSI (meeting OSHA standards)
- Magnetic hook option for easy storage (see page 398)

Applications

Machine and woodworking shops, construction, lumber mills, paper and textile mills, foundries, transportation, bakeries and food processing, rubber and plastic manufacturing plants, general clean-up and maintenance

Specifications

Maximum Output Thrust: 3.2 lb
Noise Level: 92 dB
Air Consumption: 32 SCFM
Maximum Working Pressure: 120 PSI

AIRFLOW CONTROL NOZZLE

Adjustable nozzle for accurate control of airflow by simple rotation of the tip



Should the tip of the nozzle be blocked, the entire airflow is diverted through the side holes so the static pressure remains under 30 PSI (meeting OSHA standards)



60.575



60.576



Product No	Description
60.575	Safety high flow with standard nozzle
60.576	Safety high flow with 5.4 mm x 10 cm (4") nozzle

For applications, materials and specifications, see page 400

S60 MAXPRO
SAFETY HIGH FLOW BLOW GUNS WITH NARROW NOZZLE



Features and benefits

- Powerful blow gun with narrow nozzle for hard-to-reach areas
- Should the tip of the nozzle be blocked, the entire airflow is diverted through the side holes so the static pressure remains under 30 PSI (meeting OSHA standards)
- Magnetic hook option for easy storage (see page 398)

Applications

Machine and woodworking shops, construction, lumber mills, paper and textile mills, foundries, transportation, bakeries and food processing, rubber and plastic manufacturing plants, general clean-up and maintenance

Specifications

Maximum Output Thrust: 3.2 lb

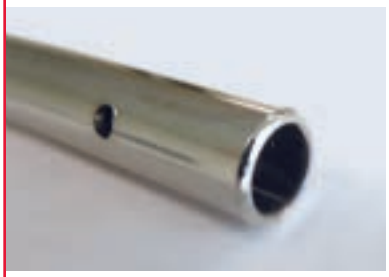
Noise Level: 97 dB

Air Consumption: 32 SCFM

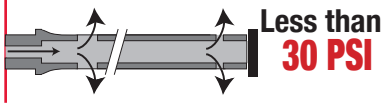
Maximum Working Pressure: 120 PSI

NARROW NOZZLE

Nozzle designed to access hard-to-reach areas



Should the tip of the nozzle be blocked, the entire airflow is diverted through the side holes so the static pressure remains under 30 PSI (meeting OSHA standards)





Product No	Description
60.577	With 15 cm (6") tube
60.578	With 25 cm (10") tube

For applications, materials and specifications, see page 400

S60 MAXPRO
SAFETY HIGH FLOW EXTRA THRUST BLOW GUN WITH *StarTip* NOZZLE



Features and benefits

- Rugged and powerful blow gun with narrow nozzle for hard-to-reach areas
- Lightly bent tube
- Should the tip of the nozzle be blocked, the entire airflow is diverted through the side holes so the static pressure remains under 30 PSI (meeting OSHA standards)
- Magnetic hook option for easy storage (see page 398)

Applications

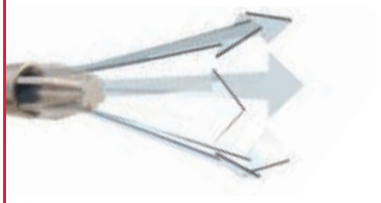
Machine and woodworking shops, construction, lumber mills, paper and textile mills, foundries, transportation, bakeries and food processing, rubber and plastic manufacturing plants, general clean-up and maintenance

Specifications

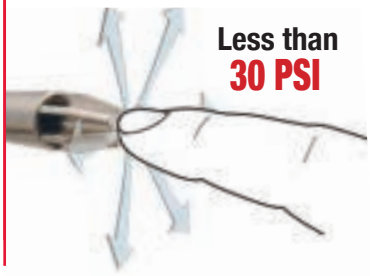
Maximum Output Thrust: 3.2 lb
Noise Level: 88 dB
Air Consumption: 32 SCFM
Maximum Working Pressure: 120 PSI

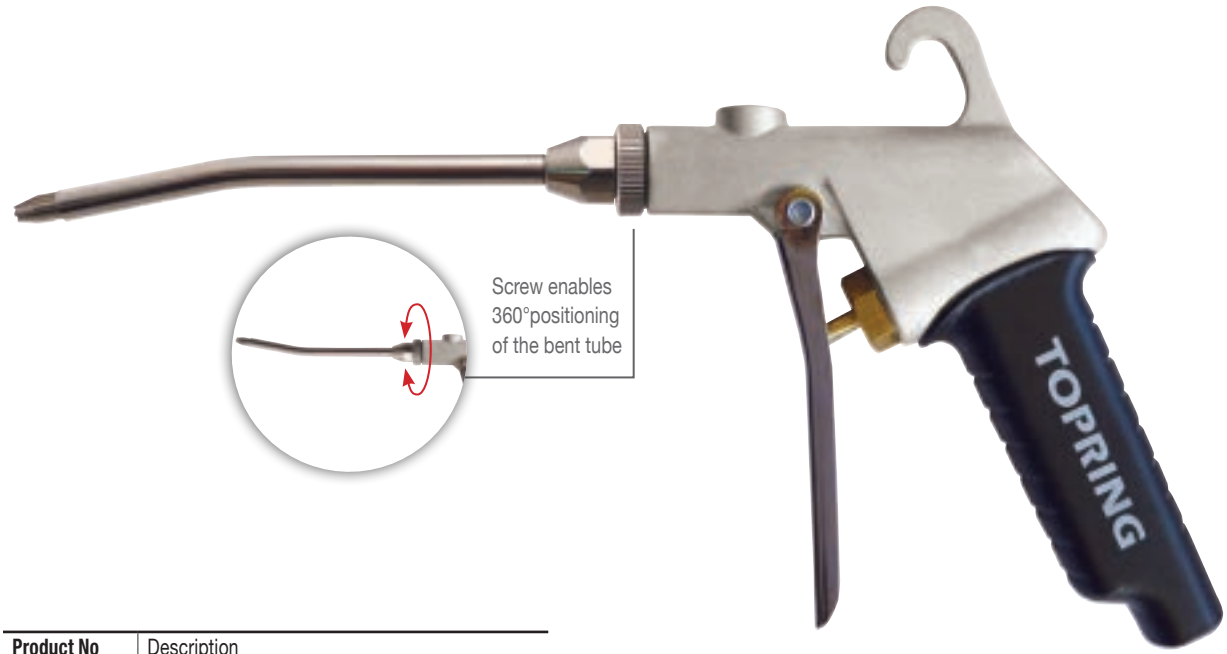
StarTip NOZZLE

StarTip nozzle offers a concentrated airflow for maximum efficiency



Should the tip of the nozzle be blocked, the entire airflow is diverted through the side holes so the static pressure remains under 30 PSI (meeting OSHA standards)





Product No	Description
60.589	With Startip nozzle

For applications, materials and specifications, see page 400

S60 MAXPRO
SAFETY HIGH FLOW BLOW GUN WITH AIR SCREEN NOZZLE

OSHA

SAFETY ERGONOMICS

Features and benefits

- Powerful blow gun with protective air screen protects users against dangerous "chip fly back."
- Delivers high thrust with pinpoint accuracy
- Should the tip of the nozzle be blocked, the entire airflow is diverted through small holes around the nozzle so the static pressure remains under 30 PSI (meeting OSHA standards)
- Magnetic hook option for easy storage (see page398)

Applications

Machine and woodworking shops, construction, lumber mills, paper and textile mills, foundries, transportation, bakeries and food processing, rubber and plastic manufacturing plants, general clean-up and maintenance

Specifications

Maximum Output Thrust: 3.2 lb

Noise Level: 88 dB

Air Consumption: 32 SCFM

Maximum Working Pressure: 120 PSI



Product No	Description
60.571	With air screen nozzle

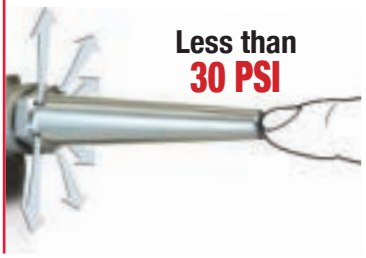
For applications, materials and specifications, see page 400

PROTECTIVE AIR SCREEN

During normal operation, the main flow of air exits through the nozzle tip and full air pressure is available to move and dislodge debris. In addition, a small portion of the main flow is diverted through holes around the periphery of the nozzle to form a protective air screen preventing chips and other debris from blowing back toward the user.



Should the tip of the nozzle be blocked, the entire airflow is diverted through the holes around the nozzle so the static pressure remains under 30 PSI (meeting OSHA standards)



S60
MAGNUM
EXTRA THRUST LONG SAFETY BLOW GUNS WITH VENTURI NOZZLE



Features and benefits

- Long extra powerful blow guns with venturi nozzle to move a very large volume of debris
- Wide trigger for smoother actuation of airflow regulated simply by squeezing and releasing the lever
- Ergonomic design
- Lightweight and strong aluminum body for superior durability
- Large adjustable hook for convenient storage
- Should the tip of the nozzle be blocked, the entire airflow is diverted through the side openings so the static pressure remains under 30 PSI (meeting OSHA standards)
- Magnetic hook option for easy storage (see page 398)

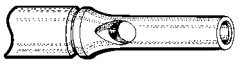
Applications

Cleaning equipment in paper and textile mills, metal cutting and woodworking equipment, blowing floor debris into piles, cleaning masonry forms, tanks, ovens, large moulds, cleaning machinery, cleaning storage areas, all applications where maximum blow gun thrust is required

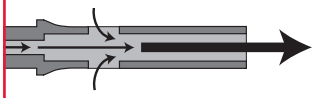
Specifications

Maximum Output Thrust: 3.3 lb
Noise Level: 101 dB
Air Consumption: 66 SCFM
Maximum Working Pressure: 120 PSI
Working Temperature: -40 to 65 ºC
Connection: 3/8 (F) NPT

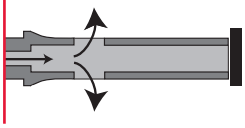
VENTURI NOZZLE



Airflow speeds up as it passes through the nozzle, drawing in ambient air through two side ports. The increased velocity and increased volume of air exiting the nozzle amplifly thrust.



Should the tip of the nozzle be blocked, the entire airflow is diverted through the side openings so the static pressure remains under 30 PSI (meeting OSHA standards).



Less than 30 PSI





Product No	Description
60.620	With 30 cm (12") tube
60.625	With 60 cm (24") tube
60.630	With 90 cm (36") tube
60.632	With 120 cm (48") tube
60.634	With 152 cm (60") tube
60.635	With 182 cm (72") tube

S60
TOPQUIK®
COMPACT AND ERGONOMIC SAFETY BLOW GUNS WITH INTEGRATED PLUG

OSHA

SAFETY ERGONOMICS



1/4 INDUSTRIAL PLUG TYPE



ULTRAFLO PLUG TYPE

General features and benefits

- The **TOPQUIK** blow guns are equiped with their own plug directly mounted on the body, avoiding the assembly time for the user and the risk of leakage.



- The connected blower-connector assembly is a blowing tool that is perfectly suited to the operator's hand but for a more pleasant and easier use.



- Trigger respecting the color code of the profiles (BLUE-**1/4 INDUSTRIAL**), (GREEN-**ULTRAFLO**) allowing a quick identification of the product.

I/M 1/4



E 7.8



- Designed to allow extremely precise blowing for use in any application.



- Designed so that the operator can keep it close to him in his pocket which always makes him at hand.



- The **TOPQUIK** blow gun is equipped with a progressive trigger which brings economy and precision during use.



- The **TOPQUIK** gussets respond positively to the constraints of the standard OSHA: pressure on the skin, touching tip cannot exceed 30 PSI. The lateral openings allow the excess pressure to escape.

  The openings also allow an increase in the blowing rate in normal use (Venturi effect).

  This effect is appreciable when blowing dust on large surfaces.



- No silicone is used during the manufacturing process. There is therefore no risk of silicone pollution when using this body blower before painting.



- The combination of a **TOPQUIK** blow gun and a **TOPQUIK** quick coupler forms a totally scratch-free assembly particularly appreciated in fragile or sensitive environments.



S60
TOPQUIK®
COMPACT AND ERGONOMIC SAFETY BLOW GUNS WITH 1/4 INDUSTRIAL INTEGRATED PLUG

I/M 1/4

OSHA

SAFETY

ERGONOMICS



Features

Metal nozzle for powerful blowing

Anti-scratch polyamide nozzle for delicate work

Specifications

Maximum Output Thrust: 3.2 lb

Noise Level (at 87 PSI):
Steel nozzle: 85 dB
Polyamide nozzle: 87 dB

Air Consumption: 7.7 SCFM

Maximum Working Pressure: 174 PSI

Materials

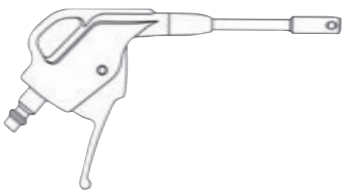
Body and Lever: Polyamide composite

Nozzle: Galvanised steel or polyamide composite

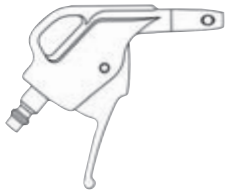
Plug: Zinc plated steel resistant to scratch and corrosion

Seals: Nitrile

Valve : Polyacetal (POM)



Product No	Description
60.090	Steel nozzle blow gun with **1/4 INDUSTRIAL** integrated plug



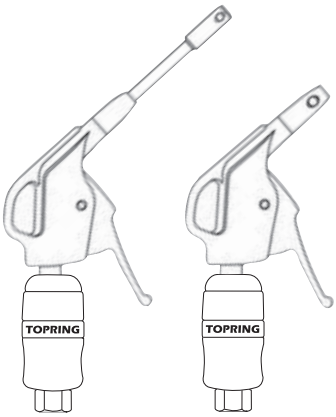
Product No	Description
60.092	Polyamide nozzle blow gun with **1/4 INDUSTRIAL** integrated plug





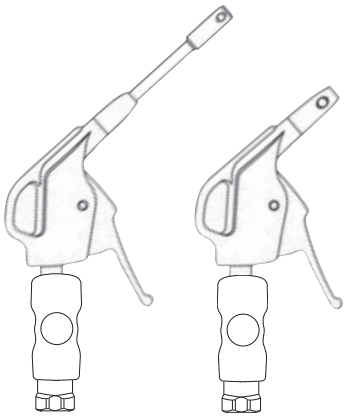
Blow gun wall mounting bracket

Product No	Description
60.098	Wall mounting bracket for **TOPQUIK** blow guns



Blow Gun with **TOPQUIK** Coupler

Coupler Thread	With Steel Nozzle	With Polyamide Nozzle
	Product No	**Product No**
1/4 (F) NPT	**60.090.01**	**60.092.01**



Blow Gun with **TOPQUIK S1** Coupler

Filetage du raccord	With Steel Nozzle	With Polyamide Nozzle
	Product No	**Product No**
1/4 (F) NPT	**60.090.07**	**60.092.07**

S60
TOPQUIK®
COMPACT AND ERGONOMIC SAFETY BLOW GUNS WITH ULTRAFLO INTEGRATED PLUG

E 7.8 | OSHA | SAFETY | ERGONOMICS



Features

Metal nozzle with for powerful blowing

Anti-scratch polyamide nozzle for delicate work

Specifications

Maximum Output Thrust: 3.2 lb

Noise Level (at 87 PSI):
Steel nozzle: 85 dB
Polyamide nozzle: 87 dB

Air Consumption: 7.7 SCFM

Maximum Working Pressure: 174 PSI

Materials

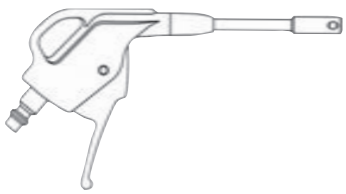
Body and Lever: Polyamide composite

Nozzle: Galvanised steel or polyamide composite

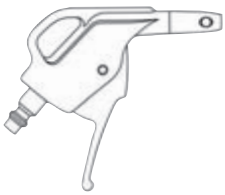
Plug: Zinc plated steel resistant to scratch and corrosion

Seals: Nitrile

Valve : Polyacetal (POM)



Product No	Description
60.080	Steel nozzle blow gun with **ULTRAFLO** integrated plug

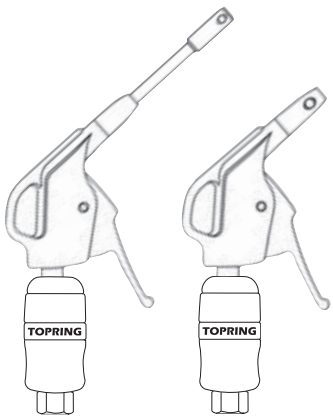


Product No	Description
60.082	Polyamide nozzle blow gun with **ULTRAFLO** integrated plug



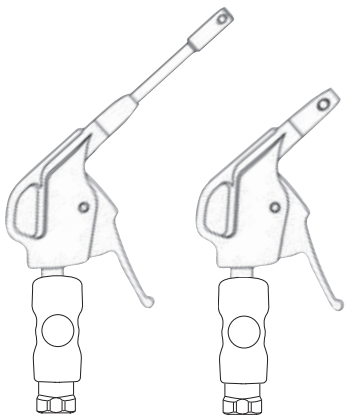
Blow gun wall mounting bracket

Product No	Description
60.098	Wall mounting bracket for **TOPQUIK** blow guns



Blow Gun with **TOPQUIK** Coupler

Coupler Thread	With Steel Nozzle	With Polyamide Nozzle
	Product No	**Product No**
1/4 (F) NPT	**60.080.01**	**60.082.01**
3/8 (F) NPT	**60.080.02**	**60.082.02**



Blow Gun with **TOPQUIK S1** Coupler

Coupler Thread	With Steel Nozzle	With Polyamide Nozzle
	Product No	**Product No**
1/4 (F) NPT	**60.080.07**	**60.092.07**
3/8 (F) NPT	**60.082.08**	**60.092.08**

S60
COMPACT
SAFETY BLOW GUNS



General Features and benefits

- Designed for extended heavy-duty service
- Flow stabilizer valve for precise air control
- Contoured design comfortably fits user's hand
- Cushioned thumb lever
- Hanging hook
- Rugged and lightweight one-piece body
- Safety blow gun (yellow color for safety)

Materials

Body : Zinc
Handle: Steel
Nozzle and Valve: Brass

General Specifications

Maximum Working Pressure: 150 PSI
Working Temperature: 0 to 80 °C
Connection: 1/4 (F) NPT

COMPACT
Permatip
SAFETY BLOW GUN



Tamper-proof side vent holes increase total airflow

Case-hardened steel restrictor inside the blow gun provides a concentrated air stream

Applications

Industrial and automotive shops

General purpose safety blow gun for blowing dust, metal chips, wood chips, etc.

Product No	Noise level *	Air consumption
60.100	90 dB	9 SCFM

* At 100 PSI air line pressure

COMPACT
AIR SCREEN
SAFETY BLOW GUN



Brass nozzle produces a 30° protective air screen

Applications

To clean machinery, tools and dies

Product No	Noise level *	Air consumption
60.102	90 dB	15 SCFM

* At 100 PSI air line pressure

S60 COMPACT
SAFETY BLOW GUN WITH VENTURI BOOSTER TIP





Brass venturi booster tip

Provides extra thrust with reduced air consumption

Applications

Industrial and automotive shops

Product No	Noise level *	Air consumption
60.103	90 dB	9.5 SCFM

* At 100 PSI air line pressure

COMPACT
LONG TUBE SAFETY BLOW GUN

Applications

For removal of chips or filings and other applications in hard-to-reach areas



No de produit	Description	Noise level *	Air consumption
60.114	With 8 cm tube (3")	90 dB	10.5 SCFM
60.116	With 15 cm tube (6")	90 dB	10.5 SCFM
60.118	With 30 cm tube (12")	90 dB	10.5 SCFM

* At 100 PSI air line pressure

S60 COMPACT NON-RESTRICTED BLOW GUNS

WARNING

COMPACT non-restricted blow guns are not provided with lateral holes to evacuate the excess of air in case of nozzle obstruction, neither a check valve inside the blow gun mechanism.

For safe use, it is highly recommended to install an in-line preset regulator between the air system and the air hose.

OSHA



62.202
SAVEAIR® Regulator
Factory-set pressure
of 27 PSI / See Series 62

COMPACT WITH RUBBER NOZZLE



Rubber anti-scratch tapered nozzle for leakproof connection

Applications

Automotive and industrial applications

Ideal for blowing out passages such as automatic-transmissions lines, carburetor lines, molds and dies

Also excellent for blowing out cavities or surfaces that could be damaged or scratched by metal tips

Product No	Noise level *	Air consumption
60.110	90 dB	9 SCFM

* At 100 PSI air line pressure

COMPACT WITH TAPERED NOZZLE



Concentrates air stream for efficient removal of dust, metal chips and wood chips

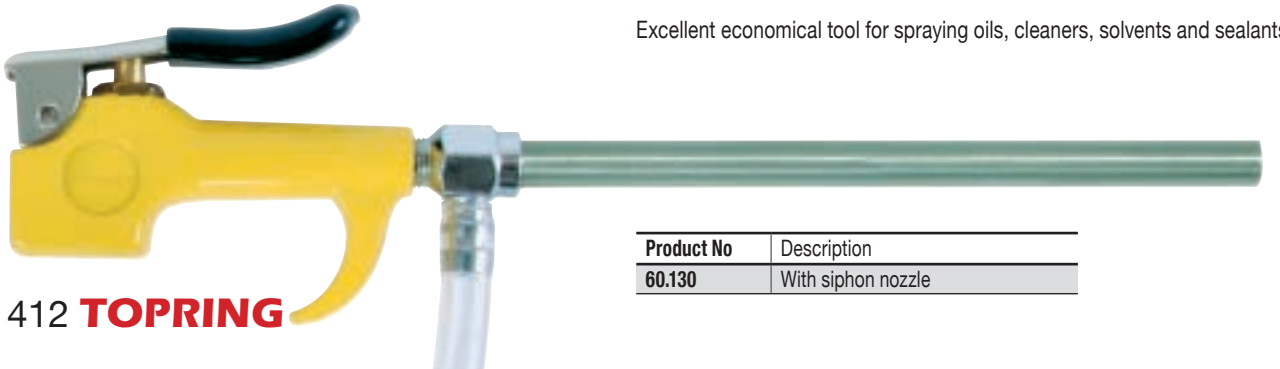
Applications

Ideal for large variety of industrial applications

Product No	Noise level *	Air consumption
60.112	90 dB	8 SCFM

* At 100 PSI air line pressure

COMPACT WITH SIPHON



Compact siphon spray gun

Nozzle with 15 cm (6") rigid tube including a 2.4 m suction tube

Applications

Excellent economical tool for spraying oils, cleaners, solvents and sealants

Product No	Description
60.130	With siphon nozzle

S60 COMPACT
BASIC BLOW GUN WITHOUT NOZZLE



The threaded end allows the use of several different nozzles



Applications

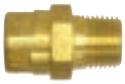
Automotive and industrial applications

Product No	Description
60.120	Blow gun without nozzle

NOZZLES FOR BASIC BLOW GUN BODY



Product No	Description
60.200	Tapered nozzle



Product No	Description
60.215	Spray nozzle



Product No	Description
60.245	Safety nozzle



Product No	Description
60.205	Air screen safety nozzle



Product No	Description
60.220	8 cm (3") safety tube
60.230	15 cm (6") safety tube
60.235	30 cm (12") safety tube



Product No	Description
60.250	Needle nozzle



Product No	Description
60.210	Rubber nozzle



Product No	Description
60.240	Safety booster nozzle



Product No	Description
60.255	Long needle nozzle

S60
MAXJET
COMPACT BLOW GUNS

General features and benefits

- Designed for light-duty applications
- Lightweight with contoured design fits comfortably in user's hand
- Cushioned thumb lever
- Brass valve with only one moving part for long-lasting maintenance-free operation
- Large hanging hook

General applications

Drying, cleaning of parts, cleaning surfaces before painting

Material

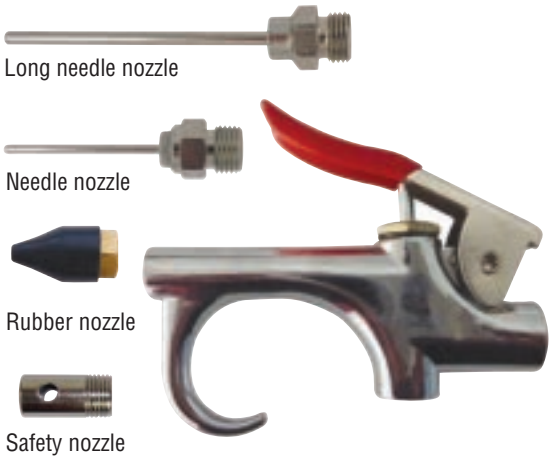
Body: Zinc

General specifications

Maximum Working Pressure: 150 PSI

Connection: 1/4 (F) NPT

WITH 4 NOZZLES



Product No	Description
60.070	With 4 interchangeable nozzles

MAXJET KIT





Includes:
- 1 compact **MAXJET** blow gun
- 4 interchangeable nozzles
- 1 female quick coupler
- 3 male plugs
- 1 female plug
- 1 PTFE tape
- 1 tire gauge
- 1 extended dual foot air chuck
- 1 male hexagonal nipple

Product No	Description
60.065	Blow gun kit

WITH SAFETY NOZZLE

Safety nozzle prevents blockage

Should the tip become blocked, the airflow is diverted through the side ports keeping the static pressure below 30 PSI to meet OSHA and other Health and Safety Agencie's Standards



Product No	Description
60.050	With safety nozzle

MAXJET
PENCIL STYLE BLOW GUNS

Features and benefits

- Provide a narrow, high velocity jet of air
- Compact and light, fit into a shirt pocket like a pen
- Twist to adjust flow

Material

Body: Aluminium

Specifications

Maximum Working Pressure: 150 PSI

Working Temperature: 0 to 80 ºC

60.005



60.010



Product No	Description
60.005	1/4 INDUSTRIAL plug
60.010	ARO 210 plug

S60
LAZER
HIGH PERFORMANCE COMPACT SAFETY BLOW GUNS WITH VENTURI NOZZLE



Features and benefits

- Designed to move large volumes of debris using standard shop pressures
- Ergonomically designed to reduce hand fatigue and help minimize carpal tunnel syndrome
- Safe unique patented design
- Lightweight, rugged cast aluminium body with rubber over-moulded trigger
- Venturi tip increases thrust
- If tip is blocked, static pressure will remain at less than 30 PSI to meet OSHA and other Health and Safety Agencies' standards
- Long tubes for hard-to-reach areas

Applications

Clearing away chips and shavings, cleaning of parts and machines, blowing, drying and dust removal from parts and work areas and general clean-up and maintenance

Long tubes for blowing floor debris into piles, cleaning masonry forms, tanks, ovens, large molds, as well as machinery and storage areas

Materials

Body: Aluminium

Nozzle: Brass

Specifications

Maximum Output Thrust:
60.150: 0.6 lb / other models: 0.9 lb

Noise Level:
60.150: 100 dB / other models: 101 dB

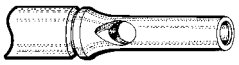
Air Consumption:
60.150: 8 SCFM / other models: 13 SCFM

Maximum Working Pressure: 120 PSI

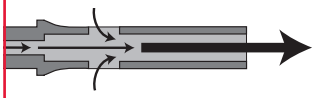
Working Temperature: -40 to 65 °C

Connection: 1/4 (F) NPT

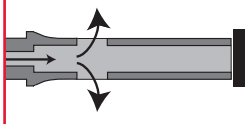
VENTURI NOZZLE



Airflow speeds up as it passes through the nozzle, drawing in ambient air through two side ports. Increased velocity and volume of air exiting the nozzle boosts available air thrust.



Should the tip of the nozzle be blocked, the entire airflow is diverted through the slots so the static pressure remains under 30 PSI (meeting OSHA standards).







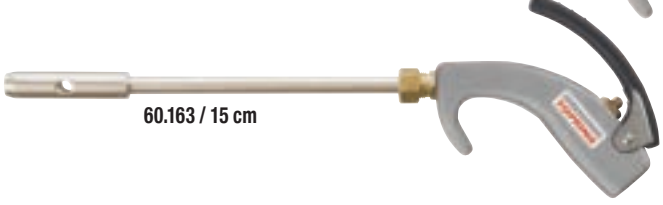
60.150



60.163 / 45 cm



60.162 / 30 cm



60.163 / 15 cm

Product No	Description
60.150	With venturi nozzle
60.160	With 15 cm tube (6")
60.162	With 30 cm tube (12")
60.163	With 45 cm tube (18")
60.164	With 60 cm tube (24")
60.166	With 90 cm tube (36")

S60
TYPHOON
EXTREME PERFORMANCE AIR GUNS WITH VENTURI NOZZLE



TYPHOON blow guns are designed to provide 100% of compressor power. In order to do this, airflow must be sufficient from the compressor to the gun.

A minimum 3/4 I.D. air hose and 3/4 safety quick coupler are recommended to ensure maximum performance and safety.

Features and benefits

- Extremely powerful
- Designed specifically for heavy-duty industrial and construction applications
- Quickly move large volumes of debris by delivering 100% of the power provided by the air compressor
- Rugged all metal construction
- Adjustable auxiliary handle for two-handed operation
- Ergonomic handle also protects trigger from wear and abuse
- Extended trigger allows full hand operations
- If tip is blocked, static pressure will remain at less than 30 PSI to meet OSHA and other Health and Safety Agencies' standards

Applications

Paper, textile and steel mills, construction sites, all applications where maximum thrust is required

Material

Body: Aluminium

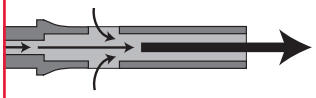
Specifications

Maximum Output Thrust: 13.5 lb
Noise Level: 121 dB
Air Consumption: 185 SCFM
Maximum Working Pressure: 120 PSI
Working Temperature: -40 to 65 °C
Connection: 3/4 (F) NPT

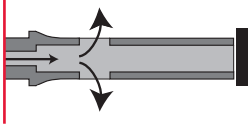
VENTURI NOZZLE



Airflow speeds up as it passes through the nozzle, drawing in ambient air through two side ports. Increased velocity and volume of air exiting the nozzle boosts available air thrust.



Should the tip of the nozzle be blocked, the entire airflow is diverted through the side openings so the static pressure remains under 30 PSI (meeting OSHA standards).





Product No	Description
60.702	With 60 cm (24") tube
60.703	With 90 cm (36") tube
60.700	With 120 cm (48") tube
60.705	With 182 cm (72") tube



WARNING

It is recommended to use a safety coupler to prevent accidental disconnections



SAFETY COUPLER
No 22.498: 3/4 INDUSTRIAL • 3/4 (F) NPT

COMPATIBLE PLUG
No 22.298: 3/4 INDUSTRIAL • 3/4 (M) NPT

S60
INFORCER
ERGONOMIC EXTREME PERFORMANCE AIR GUNS WITH VENTURI TIP



INFORCER blow guns are designed to provide 100% of compressor power. In order to do this, airflow must be sufficient from the compressor to the gun.

A minimum 3/4 I.D. air hose and 3/4 safety quick coupler are recommended to ensure maximum performance and safety.

Features and benefits

- Extremely powerful
- Designed specifically for heavy-duty industrial and construction applications
- Quickly move large volumes of debris by delivering 100% of the power provided by the air compressor
- Rugged all metal construction
- Adjustable auxiliary handle for two-handed operation
- Ergonomic handle also protects trigger from wear and abuse
- Extended trigger allows full hand operations
- If tip is blocked, static pressure will remain at less than 30 PSI to meet OSHA and other Health and Safety Agencies' standards

Applications

Paper, textile and steel mills, construction sites, all applications where maximum thrust is required

Material

Body: Aluminium

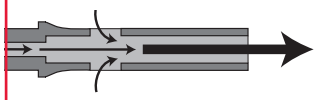
Specifications

Maximum Output Thrust: 12 lb
Noise Level: 121 dB
Air Consumption: 185 SCFM
Maximum Working Pressure: 120 PSI
Working Temperature: -40 to 65 °C
Connection: 3/4 (F) NPT

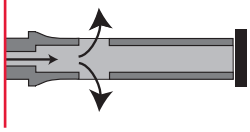
VENTURI NOZZLE



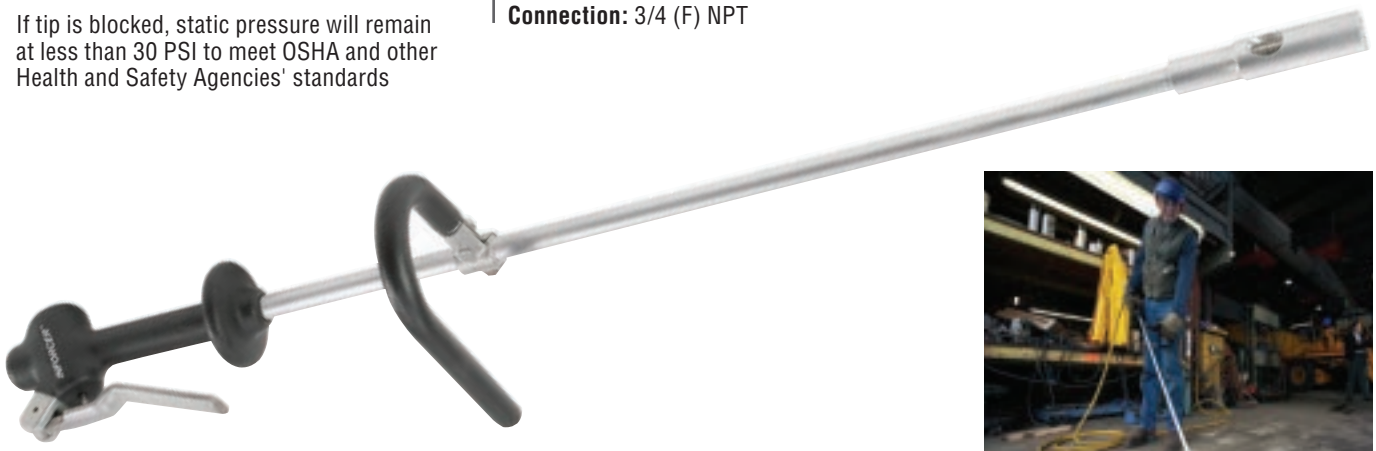
Airflow speeds up as it passes through the nozzle, drawing in ambient air through two side ports. Increased velocity and volume of air exiting the nozzle boosts available air thrust.



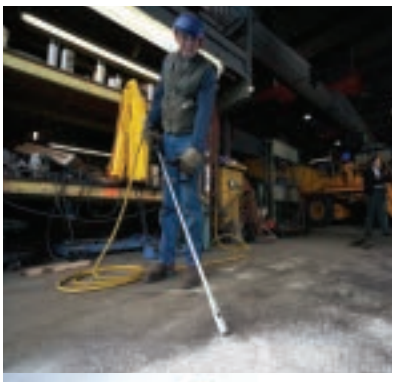
Should the tip of the nozzle be blocked, the entire airflow is diverted through the side openings so the static pressure remains under 30 PSI (meeting OSHA standards).



Less than 30 PSI



Product No	Description
60.750	With 120 cm (48") tube
60.760	With 182 cm (72") tube





WARNING

It is recommended to use a safety coupler to prevent accidental disconnections



SAFETY COUPLER
No 22.498: 3/4 INDUSTRIAL • 3/4 (F) NPT

COMPATIBLE PLUG
No 22.298: 3/4 INDUSTRIAL • 3/4 (F) NPT

S61
SPECIALIZED COMPRESSED AIR GUNS



S61

AIRPRO
COMPRESSED AIR BRAKE BLEEDER



Features and benefits

- Brake bleeder operated by one person allowing labor and cost savings
- Compact size fits easily in the wheel area
- Automatic shutoff prevents overfill
- Clear drain tubing provides visible inspection of the old fluid during bleeding
- Universal type rubber nozzle

Applications

AIRPRO brake bleeders are used for bleeding and refilling the brake system of all types of vehicles.

Specifications

Working Pressure: 90 to 175 PSI

Airflow: 6 SCFM at 115 PSI

Air inlet: 1/4 (F) NPT

See the video on TOPRING.com



Product No	Description
61.115	1.2 L Brake Bleeder with replenishment system

REPLACEMENT PARTS

Product No	Description
61.105	1.2 L Brake Bleeder
61.102	Replacement rubber Nozzle

S61

AIRPRO
UNDERSEAL GUN



Features and benefits

- Specially designed for rustproofing auto bodies
- Works with most types of anti-rust fluids and undersealers available on the market
- Complete with adjustable nozzle which can be set depending on viscosity of liquid in use
- Nozzle can be replaced by an extension probe (61.135) for use when applying anti-rust liquids of low viscosity to the inside of doors and panels

Applications

The anti-rust spray gun is used for the treatment and maintenance of cars and other vehicles that are subject to corrosion and stone-chipping

Specifications

Working Pressure Range: 87 to 230 PSI

Airflow Consumption:
13.5 SCFM with standard nozzle
6.5 SCFM with flexible extension probe

Air inlet: 1/4 (F) NPT



61.109

61.120

Flexible extension probe
61.135

Product No	Description
61.120	Underseal gun with 1.2 L plastic container
61.121	Underseal gun with 1.2 L plastic container and 90 cm flexible extension probe

REPLACEMENT PARTS

Product No	Description
61.135	90 cm Flexible extension probe
61.109	Replacement rubber nozzle

TECH TIP

The flexible extension probe should never be used for high viscosity fluids

S61
MAXPRO
ENGINE CLEANER GUN



Features and benefits

- High vacuum siphon for delivering liquid
- Includes 152 cm siphon hose with weighted strainer
- Screw adjustment to control liquid flow
- Pistol grip spray gun
- Pulverizes up to 50 liters of liquid per hour
- 30 cm (12 in) extension reaches inaccessible locations

Applications

Spraying cleaners into engine compartments

Specifications

Maximum Inlet pressure: 150 PSI

Working Pressure Range: 70 to 100 PSI

Airflow Consumption: 4 SCFM at 100 PSI

Air inlet: 1/4 (F) NPT



Product No	Description
61.165	Engine Cleaner Gun

TOPGUN
PISTOL GRIP OIL SPRAY GUN



Features and benefits

- Heavy-duty air operated gun
- Rugged and durable cast aluminium construction
- Pistol grip reduces hand fatigue
- Rugged, 1 L steel screw-on container
- Trigger and adjustable nozzle tip control spray volume and pattern
- Delivers up to 56 L per hour at line pressure of 100 PSI

Applications

To lubricate trucks, automobiles, construction equipment and machinery

Specifications

Working Pressure Range: 80 to 150 PSI

Airflow Consumption: 8 SCFM at 115 PSI

Reservoir Capacity: 1 L

Air inlet: 1/4 (F) NPT



Product No	Description
61.485	Oil Spray Gun

S61
WATER JET PRESSURE WASHER GUNS

These water jet guns turn any standard air compressor into a handy pressure washer by simply adding a water feed to the compressed air stream.

They are ideal for all types of cleaning and washing jobs, and they eliminate the need for a separate pressure washer and air compressor, saving money. Inexpensive to own and operate also.

- Powerful air/water flow for various washing and blasting applications
- As easy to use as any pressure washer, just point and shoot
- Works with any standard shop air supply and garden hose water supply
- Also works without water as a blow gun for drying and blowing applications

TOPJET
WATER JET GUN



Features and benefits

- Applies a high-pressure jet of water, detergent or degreaser to the toughest cleaning jobs
- Equipped with an adjustable trigger to control air volume and an adjustable spigot to direct the mixture of liquid and air, liquid only or air only
- Up to 145 L per hour at 100 PSI pressure
- Durable cast aluminium body with hanging hook and aluminium safety tip nozzle

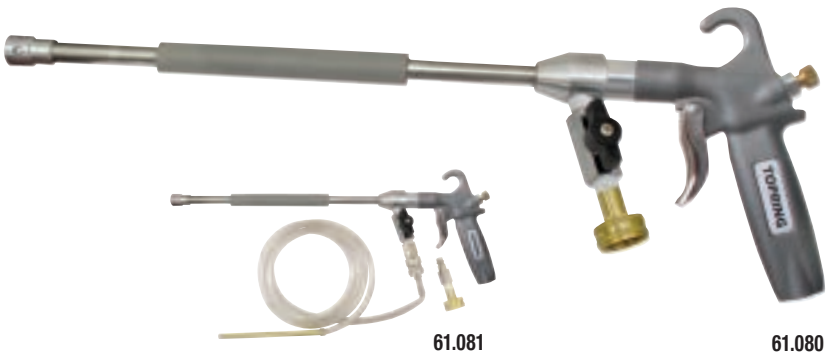
Specifications

Maximum Water Working Temperature : 93˚C

Air Connection : 1/4 (F) NPT

Liquid Connection : 3/4 (F) GHT

Product No	Description
61.080	Water Jet Gun
61.081	Water Jet Gun with 1.8 m flexible siphon hose



61.081 61.080

TOPGUN
SIPHON SPRAY GUN



Features and benefits

- High vacuum siphon which can deliver up to 60 L per hour at line pressure of 100 PSI
- Designed for heavy-duty use
- Durable cast aluminium body with hanging hook
- Trigger and adjustable brass nozzle tip control the volume and spray pattern
- Pistol grip reduces hand fatigue
- Air inlet: 1/4 (F) NPT

Applications

May be used with oils, solvents, insecticides and coatings that are compatible with aluminium, zinc, brass, PVC and nitrile rubber

Product No	Description
61.480	Spray Gun with 1.8 m siphon hose with brass sinker



Includes a 1.8 m siphon hose and sinker and a 30 cm extension for hard-to-reach locations

S61
MAXPRO
SANDBLASTER
WITH SPOT BLAST AND SAND RECOVERY SYSTEM

Features and benefits

- High pressure blasting force for powerful cleaning
- Gravity fed
- Material control valve meters sand flow precisely
- Ergonomically designed for comfortable operation
- Well balanced for minimum operator fatigue
- No tank or material supply hose required
- Easy sand loading and easy to use
- Consistent sand flow

Specifications

Working Pressure: 70 to 80 PSI
Maximum Pressure: 200 PSI
Air inlet: 1/4 (F) NPT
Air Consumption: 10-12 SCFM
Minimum Air Compressor: 3 Cv
Working Temperature: -30 to 60 °C
Container Capacity: 0.8 L
Gun Material: Aluminium
Tank Material: High impact plastic
Maximum Particle Size (Sand): 14 Grit







Product No	Description
61.040	Sand Blaster with Spot Blast and Sand Recovery System
61.045	Replacement Ceramic Nozzle

TECH TIP

Most sand blasting applications require that a very specific area is cleaned, be it on a flat surface or a corner.

When this occurs, it can be very useful to limit the sand impact area by adding a blast cone to the ceramic nozzle. This also allows the sand to be recovered for future use, as it can be gathered in a bag after it rebounds from the surface, inside the blast cone.

Included :

(A) Primary Blast Cone
(B) Inside Angle Cone
(C) Small Spot Cone
(D) Outside Angle Cone
(E) Recovery Bag
(F) Recovery Unit

S63
TIRE INFLATION TOOLS



S63
TIRE INFLATION TOOLS

THE IMPORTANCE OF ADEQUATE TIRE PRESSURE

The rim and tire form an air reservoir that, when inflated to the proper pressure, carries the weight of a vehicle. Since air pressure supports 95% of the weight of the vehicle, inflation plays a crucial role in tire efficiency.

When inflated according to the manufacturer's specifications, the tires will offer optimal performance; However, improper tire pressure will lead to poor perfomance and pre-mature wear not to mention increase fuel consumption.

The recommended pressure for the front wheels, rear wheels and spare tire of a vehicle should be respected. It is indicated on the tire information sheet that is usually located on the driver's door edge, door post, glove compartment, fuel door or owner's manual.

INFLATION AND TIRE WEAR

UNDER-INFLATION

Under-inflation of a tire increases rolling resistance, which reduces its lifespan. Driving a vehicle with a single underinflated tire of 8 PSI will also increase fuel consumption by 4%. For your own safety, avoid driving a vehicle when the tires are significantly underinflated as it may blow-out.

OVER-INFLATION

If a tire is over-inflated, only the center of the tread contacts the roadway. A smaller area in contact with the road means less adhesion, resulting in bumpy driving, poor handling (such as steering or braking problems) and tire and suspension wear.

TECH TIP

For safety reasons and to reduce tire wear as well as fuel consumption, it is recommended to check the tire pressure once a month and before any long distance drive.

The pressure should be checked when the tires are cold (vehicle has been stationary for at least three hours or when driving less than 2 km).

CONTACT OF THE TIRE WITH THE PAVEMENT



The dial gauges make it easy to maintain the right pressure and provide a much more accurate reading than the pressure reader available at gas stations.

TOPRING offers several types of tools to check tire pressure: pressure gauges, indicators with dial gauge or digital gauge and inflator gauges.

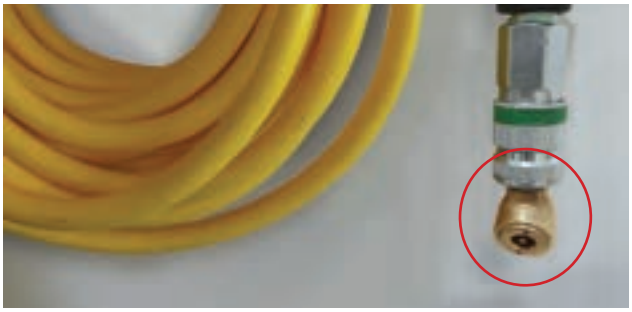
They are all compatible with nitrogen.

S63

CLOSED AIR CHUCKS

Features and benefits

- Mounts directly to an air hose
- This chuck has a built-in shutoff valve to stop airflow when chuck is not in use
- The air will escape only during inflation (in contact with the tire valve)



CLOSED BALL FOOT AIR CHUCKS



Product No	Description
63.110	1/4 (F) NPT



Product No	Description
63.130C	1/4 (F) NPT



Product No	Description
63.133	1/4 Hose barb



Product No	Description
63.135	1/4 (M) NPT



Product No	Description
63.137C	1/4 INDUSTRIAL
63.138	ARO 210
63.139	ULTRAFLO

CLOSED EXTENDED DUAL FOOT AIR CHUCKS

Angled head can inflate either side.
Extended chuck is for hard-to-reach tire valves (trucks, buses and tractors) (63.150)

Product No	Thread (F) NPT	Length
63.140C	1/4	15 cm
63.150	1/4	34 cm



63.150



63.140C

CLOSED TILT LOCK DUAL FOOT AIR CHUCKS

Extended chuck for hard-to-reach tire valves (63.170C)

Direct insertion chuck with serrarated heads allowing the chuck to cling tightly to the valve with a slight lateral pressure for safe inflation

Product No	Thread (F) NPT	Length
63.160C	1/4	15 cm
63.170C	1/4	34 cm



63.170C



63.160C

CLOSED LOCK-ON AIR CHUCKS

Securely locks onto valves when pushed forward.
Allows users to stand clear for tire inflation.

Releases when pulled back

Product No	Description	Length
63.100	Air chuck	---
63.245	Dual foot lock-on air chuck	17 cm



63.245



63.100

S63

OPEN-AIR CHUCKS (FLOW-THRU)

Features and benefits

- Since they do not have a built-in shutoff valve, air will flow freely if installed directly on an air hose
- They must be installed on an inflator gauge which controls airflow



OPEN CLIP-ON CHUCKS

For hard-to-reach tire valves (trucks, buses and tractors)

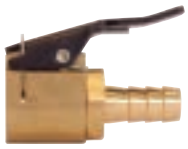
STRAIGHT WITH CLIP-ON



Superior Quality

Product No	Description
63.203	1/4 (F) NPT

STRAIGHT WITH CLIP-ON



Product No	Description
63.205C	1/4 Hose Barb

WITH CLIP-ON



Product No	Description
63.210	1/4 (F) NPT

HEXAGONAL



Product No	Description
63.230	1/4 (F) NPT

OPEN DUAL FOOT AIR CHUCKS

Extended chucks for hard-to-reach tire valves (trucks, buses and tractors)



63.250

Product No	Thread (F) NPT	Length
63.240	1/4	15 cm
63.250	1/4	34 cm



63.240

S63

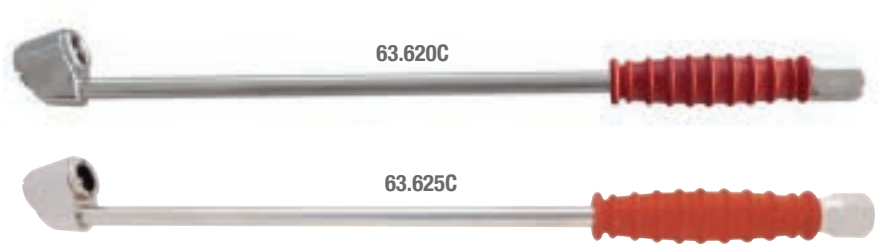
LARGE BORE AIR CHUCKS



Ideal for heavy-duty vehicles and agriculture equipment.

DUAL FOOT AIR CHUCKS

Product No	Thread (F) NPT	Length	Type
63.620C	1/4	34 cm	Closed
63.625C	1/4	34 cm	Opened





LOCKABLE AIR CHUCK

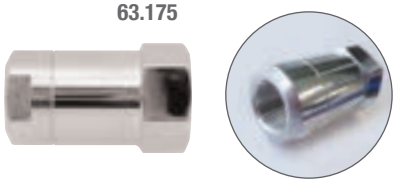
Product No	Thread (F) NPT	Type
63.105	1/4	Closed



TILT LOCK AIR CHUCKS

Product No	Thread (F) NPT	Type
63.115	1/4	Closed
63.175	1/4	Closed





TIRE GAUGE FOR LARGE BORE VALVES

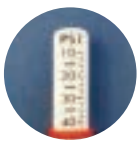
SWIVEL FOOT LARGE BORE TIRE GAUGE

For large bore valves
Swivel air chuck adjusts to straight push-on or right angle, works on valves with shields

Nylon indicator bar with single calibration

PSI: 10 to 150 PSI / 5 PSI increments







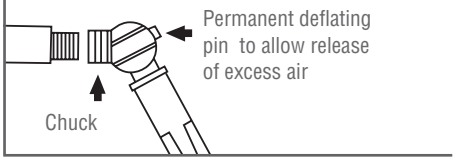
Product No	Length
63.610	23 cm

S63

STANDARD TIRE GAUGES

PENCIL TYPE

All gauges have a permanent deflating pin to release excess air



Features and benefits

- All pencil type tire gauges have a precision-engineered brass air chuck to ensure gauge fits squarely on the valve. This prevents air leakage and guarantees accurate pressure readings
- Easy to read and use
- All models have a tough, Chrome plated finish
- All models use a 4-sided indicator bar for easy pressure readings
- Nitrogen compatible

TRACTOR AIR/LIQUID TIRE GAUGE

Specially designed for air or liquid filled tires
Nylon indicator bar with double calibration







Product No
63.440C

PSI: 5 to 50 PSI / 2 PSI increments
kPa: 50 to 350 kPa

Stainless Steel Spring

STANDARD TIRE GAUGE

Ideal for automobiles and light trucks
Nylon indicator bar with double calibration







Product No
63.400C

PSI: 5 to 50 PSI / 2 PSI increments
kPa: 50 to 350 kPa

EXTRA-LOW PRESSURE TIRE GAUGE

Specially designed for applications requiring accurate low pressure readings
ATV vehicles, airlifts, garden tractors, air shocks, etc.
Nylon indicator bar with double calibration







Product No
63.460C

PSI: 1 to 20 PSI / 0.5 PSI increments
kPa: 10 to 140 kPa

STRAIGHT CHUCK TIRE GAUGE

Ideal for automobiles and light trucks
Nylon indicator bar with double calibration







Product No
63.330C

PSI: 5 to 50 PSI / 2 PSI increments
Kg: 5 to 35 Kg

HIGH-PRESSURE TIRE GAUGE

For high pressure bicycle and motorcycle tires
Nylon indicator bar with double calibration







Product No
63.410C

PSI: 10 to 120 PSI / 2 PSI increments
kPa: 90 to 820 kPa

S63

DUAL FOOT TIRE GAUGES

FOR TRUCKS AND BUSES

Features and benefits

- All dual foot truck tire gauges have precision-engineered brass chuck guides to ensure gauge fits squarely on the valve
- This prevents air leakage and guarantees accurate pressure readings
- Resistant chrome plated finish
- Nitrogen compatible

DUAL FOOT TIRE GAUGE

Ideal for high pressure applications, especially suited for heavy duty environments

Nylon indicator bar with double calibration

PSI: 10 to 150 PSI / 2 PSI increments
kPa: 100 to 1 000 kPa



10-150 PSI





Product No	Length
63.540C	30 cm

DUAL FOOT TIRE GAUGE

Nylon indicator bar with double calibration

PSI: 10 to 120 PSI / 2 PSI increments
kPa: 90 to 820 kPa



10-120 PSI





Product No	Length
63.500C	15 cm

DUAL STRAIGHT CHUCK TIRE GAUGE (NYLON BAR)

Straight-on chuck head with a 30° reverse angle chuck for inside and outside tandem wheels

Nylon indicator bar with double calibration

PSI: 10 to 150 PSI / 2 PSI increments
kPa: 100 to 1 000 kPa



10-150 PSI





Product No	Length
63.570C	28 cm

DUAL FOOT TIRE GAUGE (ALUMINIUM BAR)

Aluminium indicator bar with double calibration

PSI: 10 to 160 PSI / 2 PSI increments
kPa: 100 to 1 100 kPa



10-160 PSI





Product No	Length
63.545C	27 cm

S63

PROFESSIONAL DIAL TIRE GAUGE



Product No	Air Chuck
63.585C	Swivel clip-on

Features and benefits

- 90 mm swivel gauge with rubber protector
- Accurate reading 10 to 170 PSI / 2 PSI increments
- Bleeder button to release excess air to exact desired pressure
- Pressure readings maintained until the release button is depressed
- Swivel clip-on air chuck
- 50 cm flexible rubber hose
- Excellent for all types of vehicles (bikes, motorcycles, cars, racing vehicles, light trucks, heavy-duty trucks and RV's)
- Nitrogen compatible



COMPACT DIAL TIRE GAUGES

SWIVEL ANGLE AIR CHUCK

0-160 PSI



Product No	Air Chuck
63.582	Swivel angle

STRAIGHT AIR CHUCK

0-60 PSI



Product No	Air Chuck
63.590	Straight

Features and benefits

- Durable steel case with polished Brass bezel and 50 mm dial
- Excellent for all types of passenger vehicles
- Full geared, solid brass precision movement with bronze bourdon tube. Unlike piston-plunger-type gauges, bourdon tube is not affected by changes in temperature, humidity or altitude
- Pressure readings are held until the release button is depressed
- Bleeder button to release excess air to exact desired pressure
- Include protective rubber gauge guard
- Nitrogen compatible



S63
MAXPRO®
DIGITAL TIRE GAUGE



2-100 PSI



Product No
63.630

Features and benefits

- Reads from 2 to 100 PSI
- Displays in increments of 0.5 PSI
- Calibration in PSI, bar, kPa, and kg/cm2
- Auto shut off
- Digital accuracy of ± 1%
- Backlit LCD for easy reading
- Streamlined ergonomic shape
- Lightweight and compact size
- Nitrogen compatible



PROFESSIONAL DIGITAL TIRE GAUGES



2-150 PSI



63.642



63.640

Product No	Air Chuck
63.640	Angle
63.642	Dual foot

Features and benefits

- Reads from 2 to 150 PSI
- Displays in increments of 0.5 PSI
- Calibration in PSI, bar, kPa, and kg/cm2
- Auto shut off
- Digital accuracy of ± 0.5 PSI
- Backlit LCD for easy reading
- Streamlined ergonomic shape
- Nitrogen compatible



S63

HEAVY-DUTY PROFESSIONAL INFLATOR GAUGE INTENSIVE USE

0-90 PSI



UNIQUE CONCEPTION
DESIGNED FOR AUTOMOTIVE INDUSTRY PROFESSIONALS

Features and benefits

- Designed for exact pressure inflation on North-American and imported vehicles equipped with TPMS pressure sensors
- Large 90 mm dial gauge for extremely accurate pressure reading from 0 to 90 PSI (0-6 bar) / 1 PSI increment
- Gauge protected from high pressure (max 350 PSI)
- 45° angle swivel gauge with rubber protector for increased durability
- Rugged hanging steel ring
- Heavy duty pistol grip (zinc/brass alloy)
- 3 functions: inflation, deflation and tire pressure measurement
- Nitrogen compatible



Allows precise tire inflation avoiding false warning messages

Applications

Cars, light trucks, motorcycles, bicycles, racing vehicles

Specifications

Maximum Inlet Pressure: 350 PSI
Working Temperature: 0 °C to 40 °C
Air Inlet: 1/4 (M) NPT

TOPRING COMPATIBLE AIR CHUCKS:
63.100 : Automatic lock-on
63.203 : Straight Clip-on
63.210 : Ball foot lock-on
63.240 : Dual foot
63.245 : Dual foot lock-on
63.250 : Extended tilt lock dual foot
63.625C : Large bore extended dual foot



Product No	Description
63.691	Gauge with 1 m (39 in) hose and clip-on air chuck
63.698	Replacement gauge (0 to 90 PSI)
63.699	Replacement hose 1 m (39 in) (air chuck not included)
63.695	Replacement hose 2 m (78 in) (air chuck not included)

S63

HEAVY-DUTY PROFESSIONAL INFLATOR GAUGE FOR HEAVY VEHICLES
INTENSIVE USE

SAFETY

0-170 PSI



IDEAL FOR HEAVY VEHICLES

Applications
Heavy vehicles

Specifications
Maximum Inlet Pressure: 350 PSI
Working Temperature: 0 °C to 40 °C
Air Inlet: 1/4 (M) NPT

Features and benefits
- Designed for heavy vehicles with high-pressure tires
- Large 90 mm gauge with accurate pressure reading from 0 to 170 PSI (0-12 bar) / 2 PSI increments
- Gauge protected from high pressure (max 350 PSI)
- 45° angle swivel gauge with rubber protector
- High resistance to impacts
- Rugged hanging steel ring
- Heavy duty pistol grip (zinc/brass alloy)
- 3 functions: inflation, deflation and tire pressure measurement
- Replaceable 2 m flexible hose allows the use of the gauge from a safe distance from the tire during inflation in a cage (recommended by safety agencies)
- Replaceable clip-on air chuck 1/4 (M) NPT (63.203)
- Nitrogen compatible



SAFETY

Replaceable 2 m flexible hose allows the use of the gauge from a safe distance from the tire during inflation in a cage (required by safety agencies).

Product No	Description
63.692	Gauge with 2 m (78 in) hose and clip-on air chuck (0 to 170 PSI)
63.696	Replacement gauge (0 to 170 PSI)
63.699	Replacement hose 1 m (39 in) (air chuck not included)
63.695	Replacement hose 2 m (78 in) (air chuck not included)

TOPRING COMPATIBLE AIR CHUCKS:
63.100 : Automatic lock-on
63.203 : Straight Clip-on
63.210 : Ball foot clip-on
63.240 : Dual foot
63.245 : Dual foot lock-on
63.250 : Extended tilt lock dual foot
63.625C : Large bore extended dual foot



S63

PROFESSIONAL DIGITAL TIRE INFLATOR GAUGE

INTENSIVE USE



0-218 PSI

Features and benefits

- Ideal for exact pressure inflation on North-American and imported vehicles equipped with TPMS pressure sensors
- Large 90 mm gauge with LCD for pressure reading from 0 to 218 PSI (0-12 bar) / 0.1 increment
- 4 pressure reading measures PSI, BAR, KFG, and KPA
- 3 functions: inflation, deflation and tire pressure measurement
- Gauge encased in a rubber protector for high impact resistance
- Clip-on air chuck (interchangeable) (63.203)
- Flexible 1 m (39 in) hose (the optional 2 m (78 in) hose allows the use of the gauge from a safe distance from the tire during inflation in a cage)
- Automatic shut off after 90 seconds to increase battery life time
- Spare battery included
- Nitrogen compatible

Allows precise tire inflation avoiding false warning messages

Applications

Cars, light and heavy trucks, motorcycles, bicycles, racing vehicles

Specifications

Working Pressure: 0 to 218 PSI

Working Temperature: 0 °C to 40 °C

Air Inlet: 1/4 (F) NPT

Battery: Lithium 3V (140 hours lifespan)

Product No	Description
63.661	Gauge with 1 m (39 in) hose and clip-on air chuck
63.697	2 m (78 in) replacement hose and air chuck included
63.690	1 m (39 in) replacement hose and air chuck included

S63

AIRPRO
INFLATOR GAUGE



INCLUDES
2 INTERCHANGEABLE
AIR CHUCKS



Clip-on air chuck



Dual foot air chuck

Features and benefits

- Easy to read 60 mm gauge calibrated 0 to 174 PSI (0-12 bar) 2 PSI increments
- 1.8 m flexible rubber hose allows user to work standing up (preventing back injuries)
- Allows user to keep a safe distance from the tire while inflating or deflating
- Integrated valve allows slow release of tire pressure to desired level
- Rugged construction for everyday use
- Includes 2 interchangeable air chucks: a clip-on air chuck to securely hold the air chuck on the valve while inflating and a dual foot air chuck for valves that are difficult to access (trucks, tractors, bus)
- 3 functions: inflation, deflation and tire pressure measurement
- Gauge encased in a rubber protector for impact resistance
- Easy to hang, light and ergonomic handle
- Nitrogen compatible





Applications

Cars, light trucks, heavy vehicles, tractors, buses, motorcycles, racing vehicles, RVs

Specifications

Maximum Working Pressure: 174 PSI

Working Temperature: -20 °C to 60 °C

Air Inlet: 1/4 (F) NPT

Product No	Description
63.651	Gauge with clip-on air chuck & dual foot air chuck
63.671	Replacement gauge 0 to 174 PSI
63.682	1.8 m (71 in) replacement hose



S63

PISTOL GRIP
DIAL INFLATOR GAUGES

0-90 PSI



63.711
Gauge with
clip-on air chuck

63.710 Gauge with dual foot air chuck



Features and benefits

- Inflator gauges developed for exact pressure inflation on North-American and imported vehicles equipped with TPMS pressure sensors
- 60 mm gauge for accurate pressure reading from 0 to 90 PSI (0-6 bar) / 1 PSI increment
- Air pressure set without touching tire or valve core
- Gauge encased in a rubber protector
- 3 functions: inflation, deflation and tire pressure measurement
- Rugged metal body
- Flexible 38 cm (15 in) rubber hose



The professional tire gauges allow precise tire inflation avoiding false warning messages

Applications

Cars, light trucks, motorcycles, bicycles

Specifications

Maximum Inlet Pressure: 90 PSI
Working Temperature: 0 °C to 40 °C
Air Inlet: 1/4 (M) NPT

Product No	Description (0 to 90 PSI)
63.710	Gauge with dual foot air chuck (0 to 90 PSI)
63.711	Gauge with clip-on air chuck (0 to 90 PSI)
63.718	Replacement gauge (0 to 90 PSI)



S63

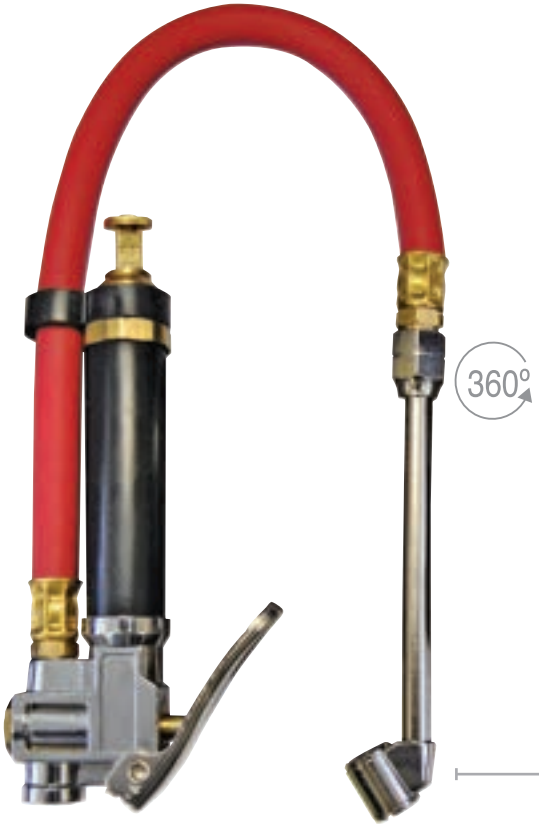
LEVER TYPE BAYONET INFLATOR GAUGE



10-120 PSI



Brass indicator bar



Features and benefits

- 3 functions: inflation, deflation and tire pressure measurement
- Brass indicator bar with calibration 10 to 120 PSI with 2 PSI increments
- 38 cm (15 in) flexible rubber hose
- Nitrogen compatible

63.601C
Gauge with swivel dual foot air chuck



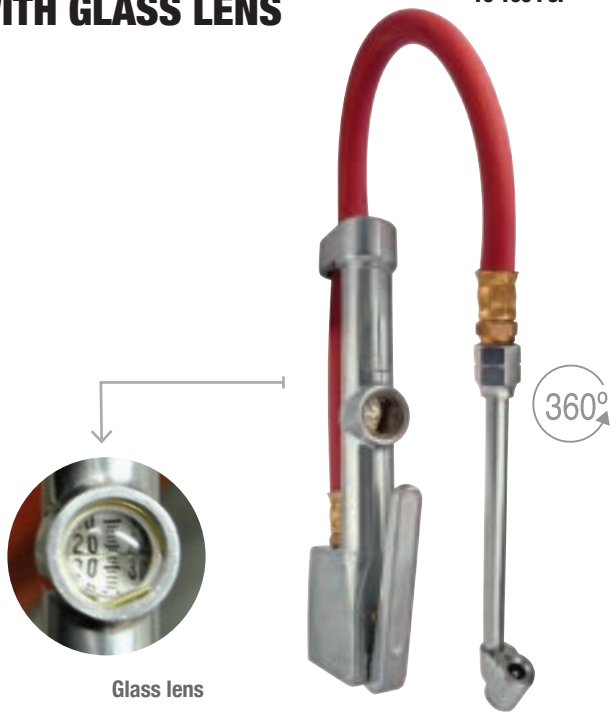
Product No	Description
63.601C	Gauge with swivel dual foot air chuck

S63

LEVER TYPE INFLATOR GAUGE WITH GLASS LENS



10-160 PSI



Features and benefits

- Easy-to-read accuracy magnifying glass lens
- Thin-line indicator ring allows full view of scale calibrated 10 to 160 PSI in 2 PSI increments (0-11 bar)
- 3 functions: inflation, deflation and tire pressure measurement
- 38 cm flexible rubber hose with swivel dual foot air chuck
- Nitrogen compatible





Product No	Description
63.658C	Gauge with swivel dual foot air chuck

LEVER TYPE DIAL INFLATOR GAUGES



10-220 PSI



63.659C

Features and benefits

- All-purpose gauge for passenger vehicles and heavy-duty trucks
- 3 functions: inflation, deflation and tire pressure measurement
- Large, easy-to-read 50 mm dial gauge calibrated 10 to 220 PSI in 2 PSI increments
- Gauge encased in a rubber protector
- 30 cm flexible hose with clip-on air chuck
- Nitrogen compatible





Product No	Description
63.659C	Gauge with clip-on air chuck
63.666	Replacement gauge (10-220 PSI)

S63

TIRE TREAD DEPTH INDICATOR



Features and benefits

- A handy tool that quickly and accurately measures tire tread left on the tire
- Calibrated in 1/32 in units and mm
- Convenient pocket clip

Product No
63.700C

TIRE VALVE REPAIR TOOL



Features and benefits

- Repairs inside and outside valve threads, inserts and removes cores from valves
- Corrosion-resistant finish
- Case hardened

Product No
63.900C

TIRE VALVE CORE EXTRACTOR



Features and benefits

- For inserting and removing tire valve cores
- Safety-grip handle with case-hardened and plated core

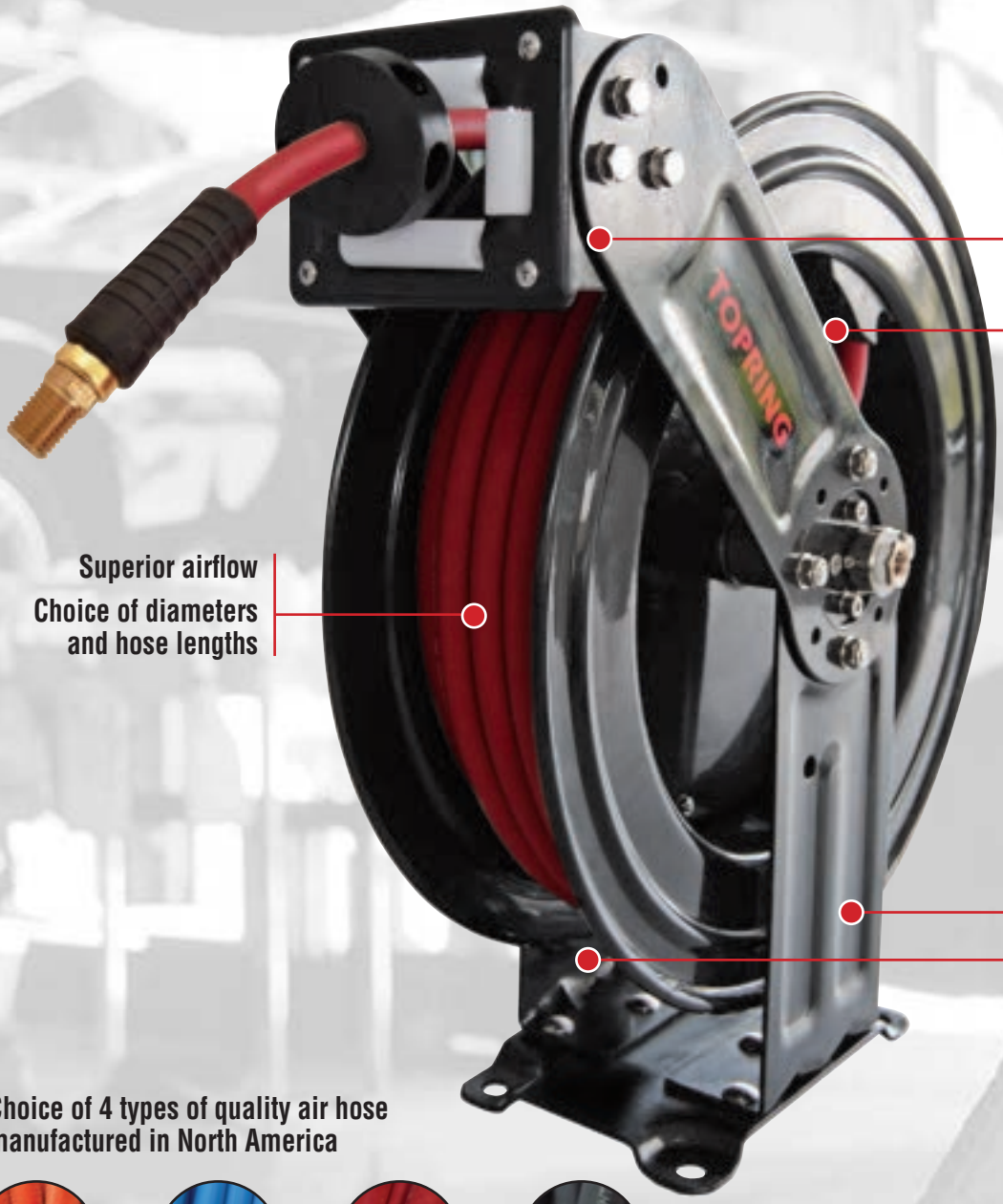
Product No	Length
63.930C	11 cm

TopReel HD

Industrial heavy-duty quality hose reel

The No 1 choice

for automobile and heavy truck mechanical workshops, bodyshops and tire centers



Adjustable double-guide arm for handling up to 3 positions



Superior airflow

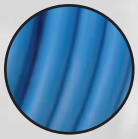
Choice of diameters and hose lengths

Increase strength: grooved reinforced arms on both sides and wide profile base

Choice of 4 types of quality air hose manufactured in North America



S71
AIRFLEX
High quality rubber resistant to abrasion



S72
THERMOFLEX
Flexible technopolymer resistant to chemicals



S75
SUPERFLEX
Premium quality rubber with great resistance to



S77
TOPFLEX
Heavy-duty rubber resistant to sparks with lock-on fittings

For more details see page 291

A quality air hose provide resistance to products used in mechanical workshops that can cause premature damage (cracks, perforations, swelling and bursting, etc.) or even generate an accident involving compressed air.

S66
SAFETY PERSONAL CLEANING UNITS



S66

SAFETY PERSONAL CLEANING UNIT

WITH AIR-AGITATOR BRUSH

SAFETY ERGONOMICS

Features and benefits

- Meets OSHA and other Health and Safety Agencies Standards
- Fast and efficient cleaning
- On-demand air-agitator brush attachment with a high-efficiency pneumatic vacuum
- Powered by compressed air
- Safe - No electrical motor, therefore no risk of sparks; no power cord, therefore no risk of tripping
- Easy maintenance
- Mounts on any vertical surface saving floor space







WARNING

Wherever compressed air blow guns are used for cleaning there is a real danger of injury to users and damage to equipment caused by particles being ejected and blown into the air.

The Safety Personal Cleaning Unit from **TOPRING** is the best solution for cleaning user clothing and minimizing injuries.

RECOMMENDATION

With the use of a personal cleaning unit, it is recommended to wear personal protective equipment (eye and face protection, hearing protectors, gloves, dust masks)

Product No	Description
66.202	Safety cleaning unit with air-agitator and standard filter
66.203	Safety cleaning unit with air-agitator and HEPA filter

Product No	Accessories and replacement parts
66.205	Standard filter 0.8 micron
66.208	HEPA filter 0.3 micron
66.206	Mounting plate
66.207	O-Ring
66.209	Exhaust bag - includes hose clamp
66.210	Flexible vacuum hose 1-1/2 in I.D. x 10 ft

S66

SAFETY PERSONAL CLEANING UNIT

WITH AIR-AGITATOR BRUSH

Applications

Vacuums dust, powders, sawdust, debris, particles on users clothing and on the skin

Cleaning users clothing

Material

Polyethylene

Specifications

Capacity: 20 L

Weight: 5.9 kg

Air Requirements:
Inlet: 3/8 (F) NPT
Air Consumption: 21 CFM
Air Pressure: 80-120 PSI

Vacuum Performance:
Flow: 73 CFM
Vacuum: 5.66 in Hg at 100 PSI / 77 in H_2O
Noise Level: 88 dB(A)

Standard Filtration : Filter with 77% efficient at 0.8 micron

HEPA Filtration : Filter with 99.97% efficient at 0.3 micron







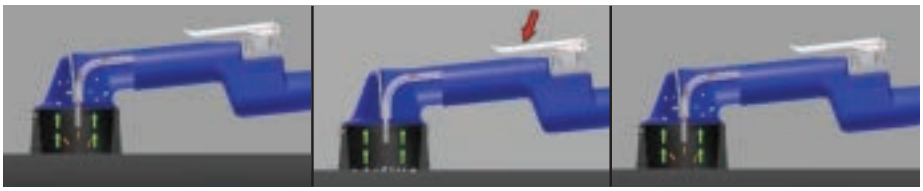
INCLUDES:

- 5 feet (1.5 m) flexible vacuum hose
- Air-agitator brush attachment
- Steel mounting plate



HOW DOES IT WORK?

By simply pressing the lever on the brush attachment, the air-agitator loosens and lifts particles and debris airborne where the vacuum sucks them away safely and effectively.



Is it a good idea to use compressed air to blow dirt off clothing or work surfaces?

No. Under no circumstances should anyone use compressed air to clean off clothing or any part of the body. Although many people know using compressed air to clean debris or clothes can be hazardous, it is still used because of old habits and the easy availability of compressed air in many workplaces.

What should I use instead of compressed air for safety cleaning purposes?

It is recommend to use vacuum cleaner.

For more information on cleaning, visit:

Ontario Ministry of Labor https://www.labour.gov.on.ca/english/hs/pubs/asbestos/asbst_11.php

Canadian Centre For Occupational Health and Safety (CCOHS)
https://www.ccohs.ca/oshanswers/safety_haz/compressed_air.html

Government of Canada http://laws.justice.gc.ca/eng/regulations/SOR-86-304/page-24.html

S66
SAFETY CLEANING UNIT
FOR DRY AND WET APPLICATIONS

Features and benefits

- Vacuum only: does not create any air pressure
- Fast and efficient cleaning
- Powered by compressed air
- Safe - No electrical motor, therefore no risk of sparks; no power cord, therefore no risk of tripping
- Mounts on any vertical surface saving floor space
- Easy maintenance
- Drain for liquid removal



Applications

Vacuums dust, sawdust, silica dust, chips, dirt, small objects, debris, powders, wood chips, metal shavings and liquids

Cleaning users clothing

Ideal for cement plants and foundries

Material

Polyethylene

Specifications

Capacity: 20 L
Weight: 5.9 kg

Compressed Air Requirements:
Inlet: 3/8 (F) NPT
Air Consumption: 21 CFM
Air Pressure: 100 PSI

Vacuum Performance:
Flow: 73 CFM
Vacuum: 5.66 in Hg at 100 PSI / 77 in H_2O
Noise Level: 88 dB(A)

Standard Filtration: Filter with 77% efficient at 0.8 micron

HEPA Filtration: Filter with 99.97% efficient at 0.3 micron

Vacuum hose: Diameter 1-1/2 in I.D. lenght 3 m (10 ft)







WARNING

Wherever compressed air blow guns are used for cleaning there is a real danger of injury to users and damage to equipment caused by particles being ejected and blown into the air.

The Safety Cleaning Unit from **TOPRING** is the best solution for cleaning user clothing and minimizing injuries.



See video on **TOPRING**.com

• Video demonstration of the safety cleaning unit

Product No	Description
66.200	Cleaning unit with standard filter
66.201	Cleaning unit with HEPA filter

INCLUDES:
- **10 feet (3 m) flexible vacuum hose (1-1/2 I.D.)**
- **Round brush**
- **Steel wall mounting plate**

Product No	Accessories and replacement parts
66.205	Standard filter 0.8 micron
66.208	HEPA filter 0.3 micron
66.206	Mounting plate
66.207	O-Ring
66.209	Exhaust bag - includes hose clamp
66.210	Flexible vacuum hose 1-1/2 in I.D. x 10 ft
66.211	Crevice tool 1-1/2 in O.D.
66.212	Round Brush 1-1/2 in O.D.

S67
COMPRESSED AIR VACUUMS



S67
TOPVAC
VACUUM GUN KIT



Features and benefits

- High power vacuum unit for pick-up of heavier debris
- A safe alternative to blow guns
- Total cleaning versatility without electricity or moving parts
- Comfortable and easy to use
- Rugged aluminium construction for intensive use

Applications

Design to vacuum: metal, wood and plastic chips, debris, sawdust, trimmings, crumbs, dust, powders and cloth scraps, paper, rubber and glass residues.

Ideal for safe self-cleaning of users' clothes

Specifications

Working Pressure Range: 80 to 150 PSI

Air Consumption: 29 SCFM at 100 PSI

Vacuum: 75 In H_2O at 100 PSI

Noise Level: 91 dB at 100 PSI inlet

Inlet diameter: 1/4 (F) NPT

WARNING

Blow guns should never be used to clean off clothes.

The TOPVAC is an efficient and safe tool for cleaning off clothes.







Product No	Description
67.060	Vacuum gun with accessories
67.061	Reusable collector bag

INCLUDES :

- Reusable collector bag
- 30 cm crevice tool
- Fibre bristle for use with crevice tool
- Upholstery/clothes tool
- Multipurpose swivel brush
- Flat brush



S67
GUNVAC
VACUUM GUN KIT



Features and benefits

- Powerful and quiet
- Unique Venturi Jet creates a powerful vortex which multiplies input airflow more than 12 fold
- Lightweight, easy to use with a comfortable grip
- Safe and efficient - no need for electricity
- Reusable collector bag with rear deflector to extend bag's lifespan

Applications

Vacuums metal chips, residues, trimmings and crumbs

Ideal for workshop maintenance

Material

Body: Durable ABS

Specifications

Working Pressure: 60 to 100 PSI

Air Consumption: 10 SCFM at 100 PSI

Vacuum: 2.1 in Hg at 125 PSI / 29 in H_2O





Product No	Description
67.050	Vacuum gun kit
67.051	Replacement bag

INCLUDES :

- **Reusable collector bag**
- **40 cm flexible hose**
- **Dust brush**
- **Crevice tool**



S67
TOPVAC
SAND-SUCKER VACUUM

SAFETY ERGONOMICS

Features and benefits

- Contoured comfort grip
- Convenient hanging hook
- High filtration and reusable collector bag with zipper
- 1-5/16 in O.D., 18 in long flexible metal extension stays in any desired position
- Rugged construction designed for heavy-duty use

Applications

Ideal for cleaning sand and dirt from moulds, bins or barrels in foundries or manufacturing plants

Material

Body: Aluminium

Specifications

Working Pressure: 80 to 150 PSI

Air Consumption: 26 SCFM at 100 PSI

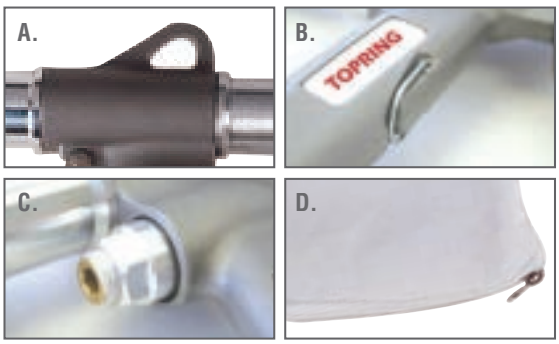
Vacuum: 75 in H_2O at 100 PSI

Noise Level: 91 dB at 100 PSI inlet

Inlet diameter: 1/4 (F) NPT







A. Convenient hanging hook
B. Trigger latch
C. Rear air inlet
D. Bag with extended zipper

Product No	Description
67.080	Sand-sucker vacuum
67.061	Reusable collector bag

S67
QUIKVAC
AIR VACUUM AND BLOW GUN



Features and benefits

- Both a vacuum cleaner and an easy-to-use blow gun that stands in one hand
- A low-cost solution to a wide variety of industrial applications
- Compact and lightweight, easy to use
- No maintenance - no moving parts
- Trigger switch is used for ON / OFF

Applications

Vacuums or blows various types of waste such as metal, wood and plastic chips, debris, sawdust, parings, crumbs, dust, powders and residues from glass, plastic and rubber

Specifications

Maximum Working Pressure: 90 PSI

Air Consumption: 2.8 SCFM at 90 PSI

Vacuum: 2.0 in Hg at 90 PSI / 27 in H_2O

Inlet diameter: 1/4 (F) NPT

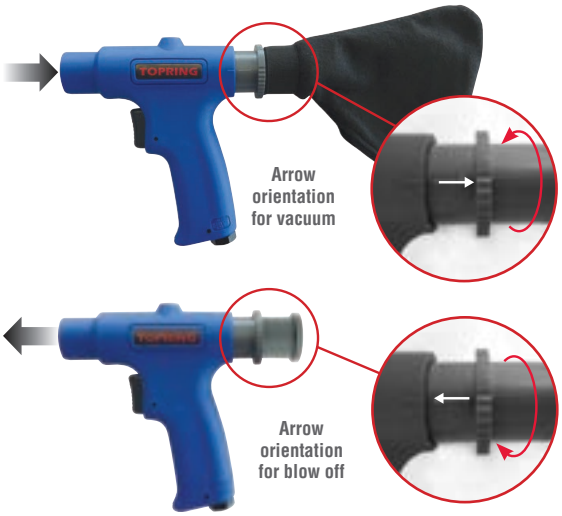




Product No	Description
67.200	Air vacuum and blow gun kit

HOW DOES IT WORK?

The QUIKVAC switches from vacuum to blow mode with a simple reverse of the air chamber



INCLUDES:

- Reusable collector bag
- Crevice tool
- Upholstery and clothes tool
- Concentrated airstream tool
- 2 extension tubes



S67
DRUMVAC
VACUUM SYSTEM FOR DRY OR WET MATERIALS

Features and benefits

- Portable heavy-duty industrial vacuum
- Easy to use
- Vacuums chips directly into a 205 L drum (drum not included)
- Creates up to 30 % more vacuum than other shop vacuums
- 50 % quieter than electric vacuums
- Total cleaning versatility without electricity or moving parts
- Can be removed and easily placed onto another drum to keep different materials separate for recycling
- Can be used with any open head steel or plastic

Applications

Used to clean up chips from fixtures, floors and work surfaces of CNC's, lathes, grinders, drills and other industrial equipment ideally suited for collecting a wide variety of dry materials such as:

- Sawdust
- Glass
- Grinding dust
- Seeds and grains
- Liquid spills
- Metal chips
- Ceramic dust
- Textile scraps
- Food particles

Specifications

Working Pressure Range: 80 to 120 PSI

Air Consumption: 30 SCFM at 80 PSI

Vacuum: 4.0 in Hg at 80 PSI / 54 in H_2O

Noise Level: 80 dB



Drum not included

INCLUDES:

- Air pump
- Drum cover
- Bolt-locking ring
- 5 micron filter bag
- On/off valve with pressure gauge
- 10 feet (3 m) vacuum hose
- Aluminium extension hoses
- Skimmer
- Squeegee
- Crevice tool
- Round brush
- Drum dolly with steel casters

Product No	Description
67.350	DRUMVAC system for 205 L
67.360	Replacement 5 micron air filter (3)

S67
WETVAC
VACUUM AND LIQUID TRANSFER SYSTEM

Features and benefits

- Quick and easy to use
- Transforms an ordinary 205 L drum into a powerful liquid vacuum cleaner. A simple two-way air control valve and 80 to 100 PSI air pressure allows pumping to a sealed drum
- Larger tank (205 L) capacity than industrial shop vacuums (drum not included)
- Safe in wet areas - no need for electricity - eliminates the risk of electric shocks often associated with electric pumps
- Eliminates double handling of toxic materials and emptying of vacuum container
- Eliminates need for clothes and granular absorbents and their disposal problems
- 50 % quieter than electric vacuums
- Easy to clean - the pump can be completely disassembled - no moving parts
- Easily switches from vacuum mode, filling the container, to empty mode by turning the dial on top of the unit
- Instant ON/OFF control from air valve
- Automatic float valve to prevent overfilling



Drum and dolly not included

Product No	Description
67.400	Vacuum and transfer system

INCLUDES :

- **Pump unit**
- **10 feet (3 m) vacuum hose with tapered PVC couplings**
- **Tapered PVC drum adaptor**
- **Extension tubes**
- **Crevice tool**
- **Skimmer tool**
- **Squeegee**

Product No	Accessories and replacement parts
67.410	Vacuum/pump unit
67.415	10 ft (3 m) vacuum hose
67.420	Squeegee
67.425	19 in (47.5 cm) extension tube
67.430	2 in male drum adaptor
67.431	Female drum adaptor
67.435	Crevice tool
67.440	Round brush
67.445	Skimmer

Applications

Ideally suited for recovering a wide variety of wet materials such as: coolants, hydraulic oils, non-flammable liquids, sludge and wet chips, waste water

Collects high viscosity liquids with efficiency

Material

Heavy-duty stainless steel construction

Specifications

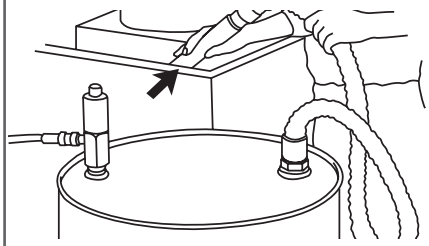
Working Pressure Range: 80 to 100 PSI

Air Consumption: 28 SCFM at 80 PSI

Vacuum: 8.5 in Hg at 80 PSI / 115 in H_2O

Noise level: 78 dB

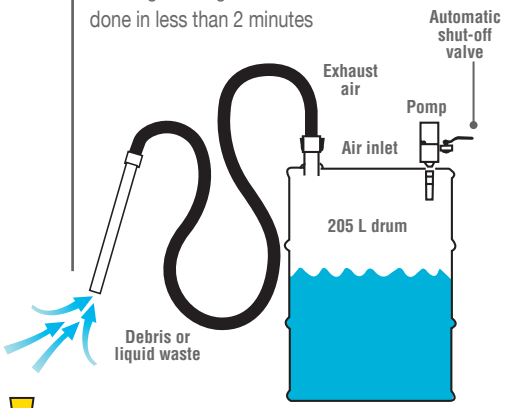
LIQUID TRANSFER



HOW DOES IT WORK?

The suction pump is activated with compressed air which passes at a very high speed through an orifice of 0.002 “, creating a vacuum of 8.5 Hg @ 80 PSI in the drum

Draining or filling the 205 L barrel is done in less than 2 minutes



WARNING

Static electricity caused by friction in the vacuum unit can be a fire hazard if used to pick up flammable liquids.

Do not use with plastic drum.

Why the use of TOPRING's Safety Personal Cleaning Unit is your best safety solution for cleaning?



Is it a good idea to use compressed air to blow dirt off clothing or work surfaces?

Although many people know using compressed air to clean debris or clothes can be hazardous, it is still used because of old habits and the easy availability of compressed air in many workplaces. However, cleaning objects, machinery, bench tops, clothing and other things with compressed air is dangerous. Injuries can be caused by the air jet and by particles made airborne (re-enter the air).

That is why **TOPRING** offers a cleaning unit that doesn't produce any compressed air; it is a vacuum, so no particles re-enter the air, making it a safe solution!

Is cleaning with compressed air allowed by law?

In many Canadian jurisdictions, cleaning with compressed air is not allowed by law. Alberta, Newfoundland, Prince Edward Island, Quebec, and Saskatchewan specifically mention that compressed air shall not be used to clean clothes, or in other situations cleaning a person, machinery, work benches, etc. Reference to cleaning may also be included with specific mention to it being prohibited when there is a risk to the worker being injured (federal regulations, Ontario, British Columbia, North West Territories, Nunavut, and the Yukon). In some cases, other legislation may apply. For example, cleaning with compressed air is prohibited in Manitoba and Ontario when working with asbestos.

Therefore, using **TOPRING**'s Safety Personal Cleaning Unit is a legitimate solution.

What are the hazards of using compressed air?

First, compressed air is extremely forceful. Depending on its pressure, compressed air can dislodge particles. These particles are a danger since they can enter your eyes or abrade skin.

The possible damage would depend on the size, weight, shape, composition, and speed of the particles. There have also been reports of hearing damage caused by the pressure of compressed air and by its sound.

Although the **TOPRING** Safety Personal Cleaning Unit vacuums does not release any compressed air, **TOPRING** recommends always using ocular protection and ear plugs in any given situation.

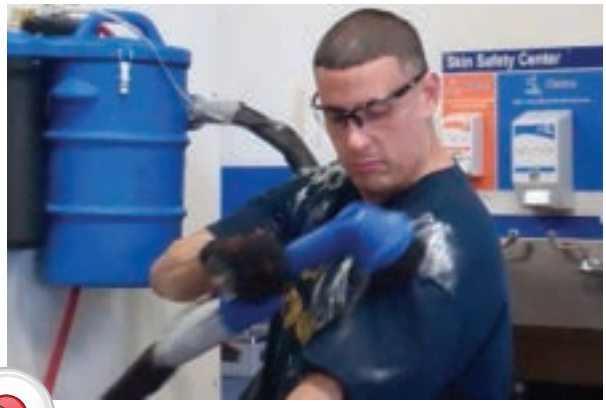
Second, compressed air itself is also a serious hazard. On rare occasions, some of the compressed air can enter the blood stream through a break in the skin or through a body opening. An air bubble in the blood stream is known medically as an embolism, a dangerous medical condition in which a blood vessel is blocked, in this case, by an air bubble. An embolism of an artery can cause coma, paralysis or death depending upon its size, duration and location and is possible with compressed air due to high pressures.

While this seems improbable, the consequences of even a small quantity of air or other gas in the blood can quickly be fatal. In addition, using air to clean forces the dirt and dust particles into the air, making these contaminants airborne and creating a respiratory hazard.

Unfortunately, horseplay has been a cause of some serious workplace accidents caused by individuals not aware of the hazards of compressed air, or proper work procedures. This situation cannot occur with **TOPRING**'s Safety Personal Cleaning Unit, due to the absence of compressed air and because of his vacuum fonction.

What should I use instead of compressed air for cleaning purposes?

Use wet sweeping techniques, sweeping compounds, or vacuum cleaners equipped with special filters or other devices to prevent dust from being re-circulated into the air just like **TOPRING**'s Safety Personal Cleaning Unit.



See the video demonstration on Safety Personal Cleaning Unit on **TOPRING**.com

For technical specifications and informations about the Safety Personal Cleaning Unit, see Series 66

S68
AIR AMPLIFIERS



S68
AIR AMPLIFIERS

SELECTING THE RIGHT AIR AMPLIFIER: A QUESTION OF APPLICATION

Determining the proper application will ensure maximum performance.

Does the application require:

- Parts ejection?
- Cleaning?
- Drying?
- Cooling?
- Fume removal and vapor?
- Purging tanks?

Air amplifiers meet OSHA and other Health and Safety Agencies' Standards, and other are designed to offer energy savings.

OSHA

COMPRESSED AIR AMPLIFIERS TOOL SELECTION GUIDE

TYPICAL APPLICATIONS	PARTS EJECTION	CLEANING	DRYING	COOLING	FUME AND VAPOUR REMOVAL	PURGING TANKS
FLAT NOZZLES 	●	●	●	●		
AIR SAVER NOZZLES 	●	●	●	●		
ADJUSTABLE AIRFLOW AMPLIFIERS 	●	●	●	●	●	
VARIABLE AIRFLOW AMPLIFIERS 	●	●	●	●	●	●
AIR KNIVES 	●	●	●	●		
COLD AIR GUNS 				●	●	

S68

FLAT NOZZLES

OSHA

NOISE REDUCTION

Features and benefits

- Ideal for drying, cleaning and cooling tasks in a wide variety of industries
- Provide a high-blowing force at an air consumption lower than any other nozzle on the market
- Specially designed for air control applications requiring a concentrated flat pattern
- Can be used alone or connected to a manifold
- Meet OSHA and other Health and Safety Agencies' noise and dead-end pressure requirements
- Thermoplastic ABS model is resistant to most chemicals



Applications

Provides wide blow-off for stamping, drying and part ejections

High temperature model 68.060 is resistant to extreme heat and acid, ideal for extremely hot environments such as foundries and bakeries

Materials

68.050: Black thermoplastic ABS

68.060: ULTEM 1000 grey

Specifications

Maximum Working Pressure: 60 to 145 PSI

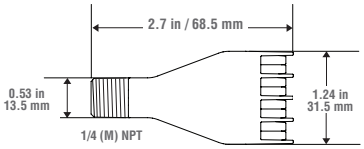
Air Consumption: 15 SCFM

Noise Level: 79 dB

Blowing Force: 8 kg

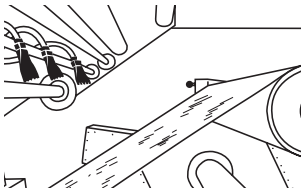
Working Temperature Range:
68.050: -20 to 60 °C / **68.060:** -20 to 200 °C

Thread: 1/4 (M) NPT

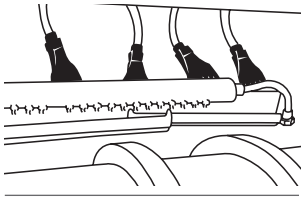


Product No	Description
68.050	Standard nozzle
68.060	High temperature nozzle

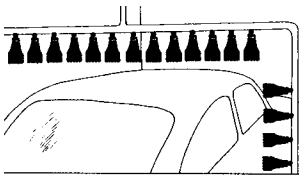
Anti-static treatment of folio and film



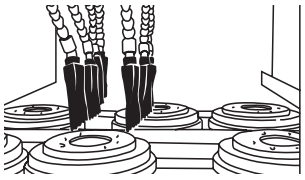
Drying of parts after being washed



Removal of dirt and dust before polishing



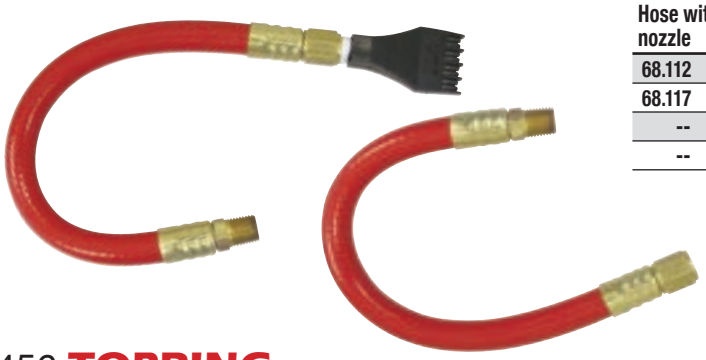
Cleaning of parts



POSITIONABLE FLEXIBLE HOSES AND FLAT NOZZLE

Features and benefits

- Flexible extension can be adjusted to virtually any position
- Extension holds its shape even with high pressure compressed air
- Provide compressed air in hard-to-reach places



Applications

For cooling or drying and for part ejections

Materials

Hose: Rubber
Nozzle: Black thermoplastic ABS

Product No		Description			
Hose with nozzle	Hose without nozzle	Hose I.D.	Hose Length po	Hose Length cm	Thread NPT (M,F)
68.112	68.120	3/8	12	30	1/4
68.117	68.122	3/8	18	45	1/4
--	68.118	3/8	24	60	1/4
--	68.119	3/8	36	90	1/4

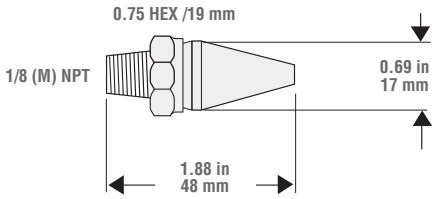
S68
AIR SAVER NOZZLES

NOISE REDUCTION

Features and benefits

- Generate highest thrust with lowest possible air consumption
- Greatly reduce demand on the compressor
- Low initial and operating costs
- Save up to 80% air consumption over a 1/4 in open pipe
- Adjustable flow and thrust
- Reduce noise levels 8 decibels or more over open air jets





Applications

For part ejections from molding machines and stamping presses, blowing off chips, trim scrap, parts cleaning before painting, cleaning, drying and cooling

Aluminium nozzles are ideal for most industrial applications

Stainless steel are ideal for food processing applications, corrosive environments and maximum durability

Materials

Aluminium or stainless steel 303

Specifications

Maximum Working Pressure: 250 PSI

Working Temperature Range:
Aluminium: 0 to 160 °C
Stainless Steel: 0 to 925 °C

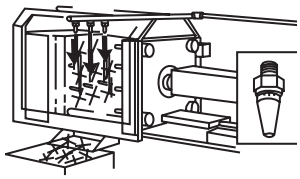
Thread: 1/8 (M) NPT

Product No	Description
68.100	Air saver nozzle (Aluminium)
68.105	Air saver nozzle (Stainless Steel)

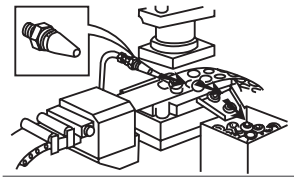
The air saver nozzle releases a tiny amount of compressed air at near-sonic velocity through a fine, ring-shaped nozzle.

As the high-speed "tube" of air emerges from the nozzle, it creates a strong vacuum along its sides, pulling a much larger volume of surrounding air into the stream.

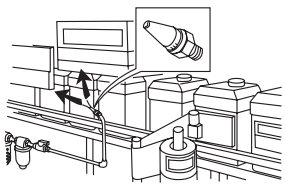
Molding



Stamping



Food processing



POSITIONABLE FLEXIBLE HOSES AND AIR SAVER NOZZLE

Features and benefits

- Flexible extension can be adjusted to virtually any position
- Perfect for pinpointing high velocity air

Applications

For cooling or drying and for part ejections

Materials

Hose : Rubber
Nozzle : Aluminium



Product No		Description			
Hose with nozzle	Hose without nozzle	Hose I.D.	Hose Length po	Hose Length cm	Thread NPT (M,F)
68.110	68.120	3/8	12	30	1/4
68.115	68.122	3/8	18	45	1/4
--	68.118	3/8	24	60	1/4
--	68.119	3/8	36	90	1/4

S68

ADJUSTABLE AIR AMPLIFIERS

NOISE REDUCTION

Features and benefits

- Amplify compressed airflow 4 times, delivering high thrust with a fraction of the air used by open air lines
- Meet OSHA and other Health and Safety Agencies' noise and dead-end pressure requirements
- No electricity or explosion hazards
- In-line model (68.140) ideal for retrofitting open air lines blow off applications where system set-up does not change frequently. Can also air convey fine granular products with a 3/4 in diameter inlet for attachment of tubing
- Safe and quiet
- Easy-to-control flow/force
- No moving parts ensuring maintenance-free operation
- Instant ON/OFF

Applications

For parts ejection from molding machines and stamping presses

Blowing off chips, trim scrap

Air conveying dusts, powders and fibers

Parts cleaning

Cooling

Fume and vapor removal

Material

Solid brass

Specifications

Throat Diameter: 0.38 in

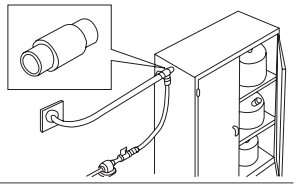
Amplification Ratio: 4:1

Output at 80 PSIG: 60 SCFM

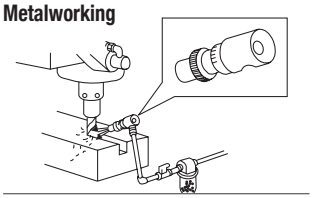
Air consumption: 15 SCFM

Thread: 1/8 (F) NPT

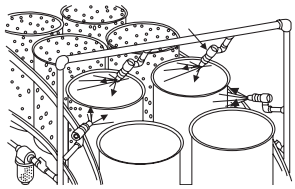
Fume removal



Metalworking

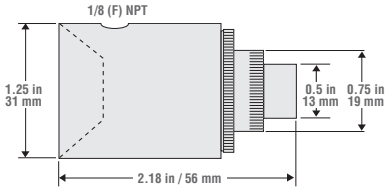


Food processing



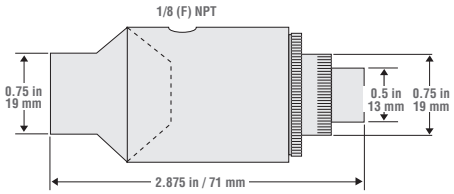


68.130





68.140

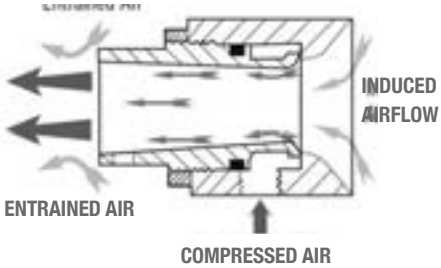


Product No	Description	Air Inlet (F) NPT
68.130	Adjustable air amplifier	1/8
68.140	Adjustable air amplifier for flexible air hose or flexible pneumatic tubing installation	1/8

HOW DOES IT WORK?

It is a simple, lightweight and economical tool that uses the energy of a small volume of compressed air to produce a high volume, high-speed, low-pressure airflow.

Multiplies airflow **4x**



S68

HIGH-THRUST VARIABLE AIRFLOW AMPLIFIERS

NOISE REDUCTION

Airflow amplifiers use the energy from a small volume of compressed air to produce a high velocity, high volume, low pressure output.

TOPRING air amplifiers amplify compressed air input up to 25 times, allowing increased airflow while drastically reducing compressed air consumption and noise levels.

Features and benefits

- Low cost way to move air, smoke, fumes and light materials
- Adjustable output without tools
- Quiet and safe - meet OSHA and other Health and Safety Agencies' noise requirements
- No moving parts ensuring maintenance-free operation
- No electricity or explosion hazard
- Both the vacuum and discharge ends can be ducted
- Compact and lightweight
- Instant ON/OFF

Applications

Air conveying of any material that can be moved in a rush of air: metal chips, sawdust, smoke, paper and cloth trim, grain, plastic pellets, dust, capsules and powders

Ventilation and exhaust of smoke/ fumes, replacing fans

Purging tanks

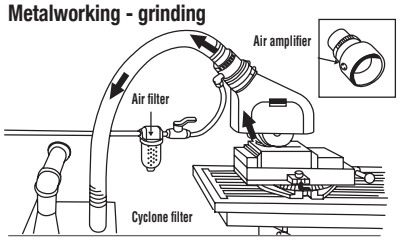
Cleaning/cooling of conveyed parts

Drying waterborne paint used for auto body refinishing

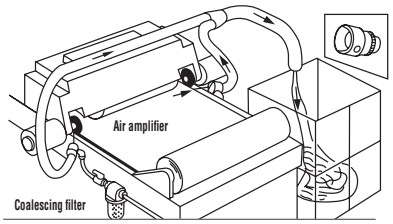
Material

Aluminium

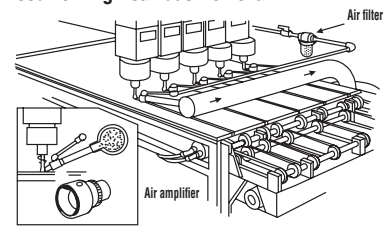
Metalworking - grinding



Textiles - scrap removal

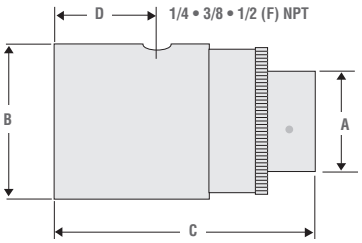


Woodworking - sawdust removal





Product No	Port size (F) NPT	Specifications					Dimensions			
		Hg Vacuum	SCFM Output at 80 PSIG	SCFM Setting	Amplification Ratio	Noise Level dB	A	B	C	D
68.150	1/4	1.10"	180	15	12:1	72	1.25 in (31 mm)	2 in (51 mm)	3 in (76 mm)	1 in (25 mm)
68.160	3/8	1.32"	500	25	20:1	76	2 in (51 mm)	3 in (76 mm)	3.25 in (83 mm)	1 in (25 mm)
68.165	3/8	1.43"	1125	45	20:1	76	2.5 in (64 mm)	3.63 in (92 mm)	3.63 in (92 mm)	1.5 in (31 mm)
68.170	1/2	1.54"	1800	30	25:1	76	4 in (102 mm)	5 in (127 mm)	5 in (127 mm)	5 in (38 mm)



HOW DOES IT WORK?

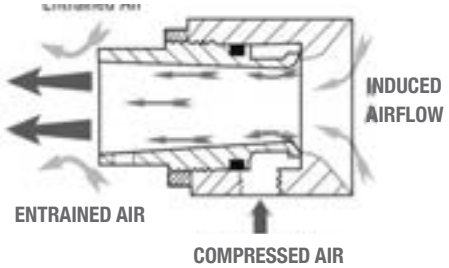
Air amplifiers release a tiny amount of compressed air at high velocity through an adjustable internal ring-shaped nozzle.

The high-speed "column" of air released through the front creates a strong vacuum behind itself, pulling additional surrounding air through the rear of the amplifier, while pushing the ambient air in front.

In ducted applications, air amplifiers deliver amplification ratios of 12-25:1.

In unducted applications, air amplifiers deliver amplification ratios of 36-75:1.

Multiplies airflow **25 x**



REDUCER FOR AIRFLOW AMPLIFIERS

The ends of the amplifier can also be attached to tubing by the use of an air amplifier and a reducer.



Product No	Description
68.151	Reducer for 68.150
68.161	Reducer for 68.160

S68

AIR KNIVES

NOISE REDUCTION

Features and benefits

- Amplifie compressed airflow up to 25 times
- Provide wide-area coverage with a thin sheet of air
- Uniform curtain of air
- Low operating costs
- Quiet, up to 50 decibels noise reduction over open air tubes
- No maintenance, no moving parts
- No electricity or explosion hazard
- Compact, easy to install
- Instant ON/OFF

Applications

Removing water from plastic sheets or metal

Blowing off chips, debris, dirt

Parts cleaning before painting

Cooling extruded parts

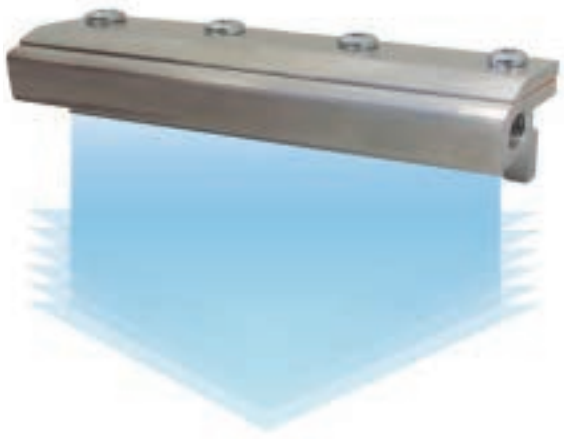
Cleaning/cooling of metal or plastic strips

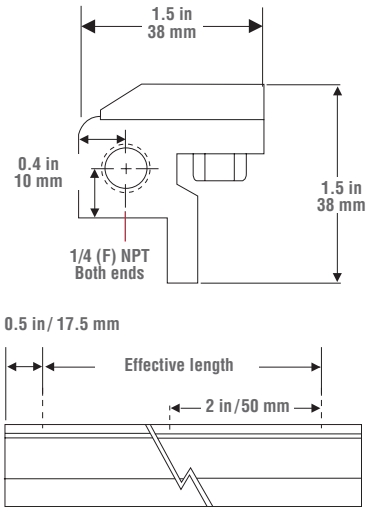
Cleaning/cooling of parts on a conveyor

Material

Aluminium







Product No	Effective Length in	Effective Length cm	SCFM Output at 80 PSIG	SCFM Intput at 80 PSIG	Amplification Ratio
68.200	6	15	600	24	25:1
68.210	12	30	1200	48	25:1
68.220	18	45	1800	72	25:1
68.230	24	60	2400	96	25:1
68.240	30	75	3000	120	25:1
68.250	36	90	3600	144	25:1

TECH TIP

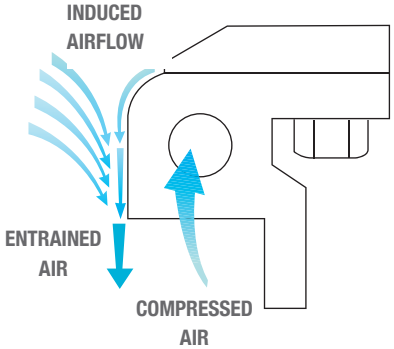
A 5 micron filter and pressure regulator are recommended for most applications

MORE PERFORMANCE WITH LESS NOISE

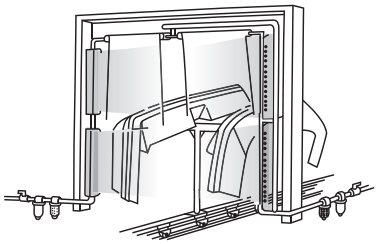
Air knifes release a tiny amount of compressed air at high speed through a .003 in slot along their entire length

This high-speed sheet of air entrains a large volume of surrounding air, effectively amplifying compressed airflow 25 times

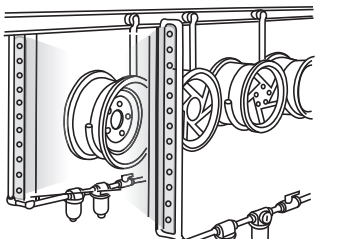
Multiplies airflow **25 x**



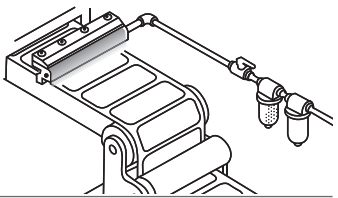
Drying and finishing



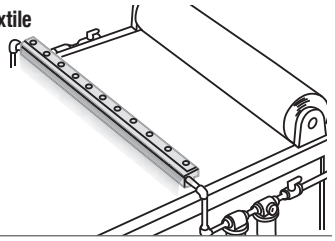
Powder coating and curing



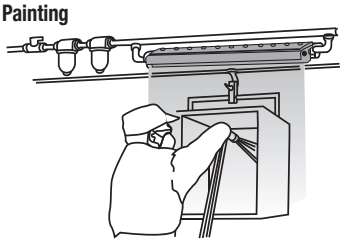
Label printing



Textile



Painting



S68

COLD AIR GUNS

NOISE REDUCTION

Features and benefits

- Economical alternative compared to other more expensive mist cooling systems
- Improve productivity speed while reducing production costs associated with downtime for cooling
- Avoid the usage of coolants causing skin contamination and irritation
- Allow to get clean and dry parts
- Effective to cool and increase tool life service by avoiding microcracking caused by overheating
- Maintenance free, no moving parts
- 12 in (30 cm) swivel hose and magnetic base
- Integrated muffler for low noise level
- Instant ON/OFF mode

Applications

Air-cooled dry machining for metals, composites, plastic, rubber, wood

Perfect for tapping operations

Ideal for grinding, milling and drilling

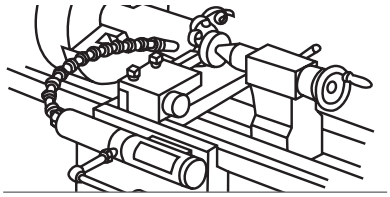
For cooling plastics, metals, hot melts, adhesives, solders and mold toolings

Material

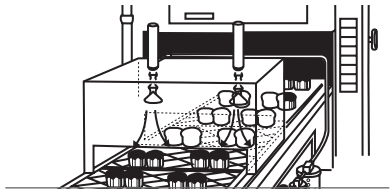
Tube: Stainless steel



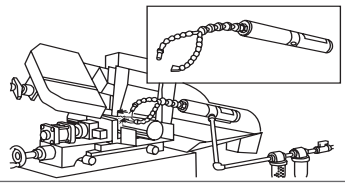
Plastic - machining



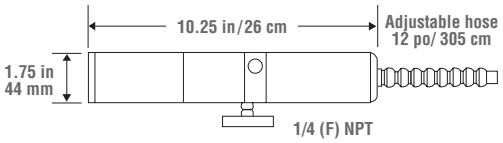
Food processing - product cooling



Metalworking - band sawing







Product No	Description
68.270	Standard cold air gun
68.272	Adjustable cold air gun

4 Generators included

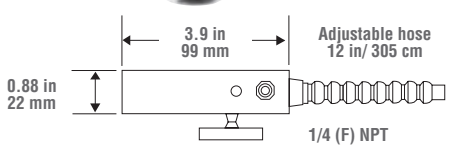


Air consumption SCFM / Noise Level			
Yellow	Red	Blue	Orange
10 SCFM 500 Btu/H	15 SCFM 1000 Btu/H	25 SCFM 1800 Btu/H	35 SCFM 2500 Btu/H

TECH TIP

A 5 micron filter and pressure regulator are recommended for most applications

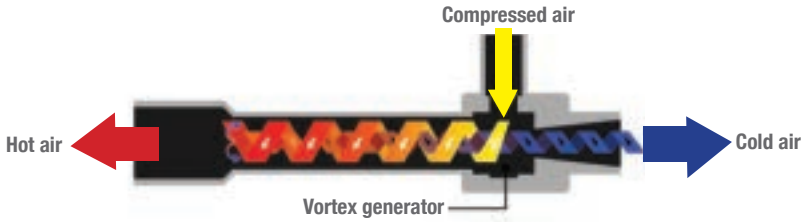




Product No	Description	Air consumption
68.274	Mini cold air gun	8 SCFM

VORTEX EFFECT

A cold air gun uses a VORTEX tube to cool compressed air. A small amount of compressed air is converted into two low pressure airstreams which exchange heat, producing cold air at one end of the tube and hot air at the other. A flexible hose is then used to direct the lowest temperature air at the surface to be cooled.



S62
AIR TOOLS ACCESSORIES



S62

THE IMPORTANCE OF TESTING PRESSURE LOSSES

Excessive pressure drops occurs when the air system is incapable of replacing the air being consumed by the tools or applications with sufficient speed. Therefore, these pressure losses contribute in higher production costs.

A 10% pressure loss at the tool and a 3% pressure loss throughout the distribution network are considered “excessive”.

Excessive pressure drops occurs when the air system is incapable of replacing the air being consumed by the tools or applications with sufficient speed.

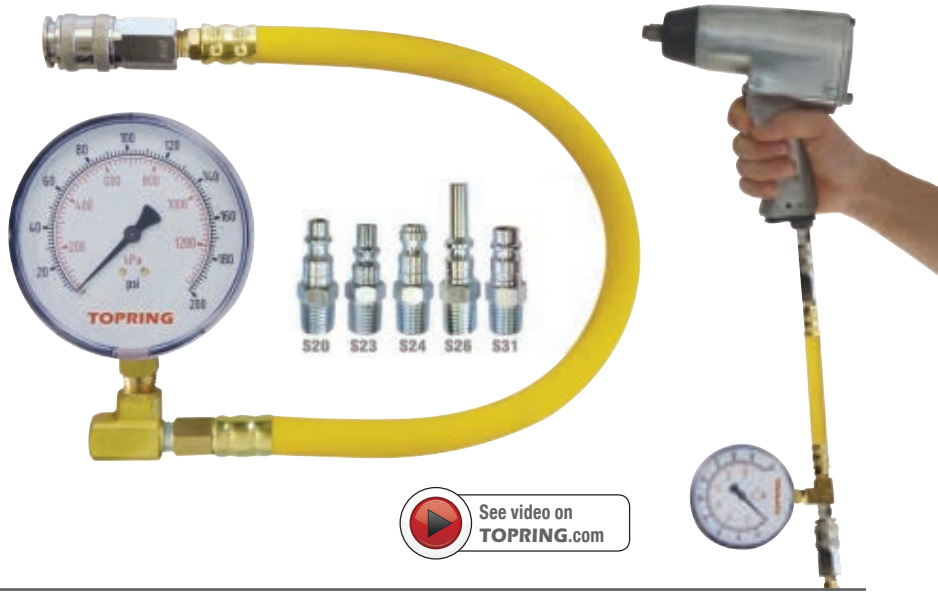
TOPRING tools for measuring pressure help to identify and isolate the source of air losses by measuring air pressure between components in order to help fix the problem.

PROFESSIONAL TOOL FOR MEASURING PRESSURE

Features and benefits

- All-in-one tool ideal for checking pressure drop between network connection and tool
- Can be installed directly at the tool
- Large pressure gauge for easy pressure reading
- Included with the kit a 5 in 1 UNIVERSAL coupler with 5 types of plugs: 1/4 INDUSTRIAL, ARO 210, 1/4 TRUFLATE, LINCOLN and ULTRAFLO

Product No	Description
62.015	Professional tool for measuring pressure



See video on TOPRING.com

COMPACT TOOL FOR MEASURING PRESSURE

Features and benefits

- Compact tool with gauge for checking pressure drop between network connection and tool
- Can be installed directly at the tool
- Included with the kit a 5 in 1 UNIVERSAL coupler with 5 types of plugs: 1/4 INDUSTRIAL, ARO 210, 1/4 TRUFLATE, LINCOLN and ULTRAFLO

Product No	Description
62.010	Compact tool for measuring pressure



See video on TOPRING.com

TECH TIP

MEASURING PRESSURE LOSS

Pressure loss should ideally be measured directly at the tool, where it is connected to the air hose.

This will ensure that all potential sources of pressure losses are taken into account.

Standard procedure is then to measure again, at each component connection, back to the air distribution network and, if possible, all the way back to the storage tank. This will allow isolation of problem components.

AVOIDING PRESSURE AND OVERPRESSURE

Loosing pressure can be costly, but increasing pressure in a compressed air system to compensate poor tool performance will only add to energy costs without providing any additional benefits.

The key to a high-performance system lies in the reduction of pressure losses at the tool and the application.

S62
AIRPRO
HIGH PRESSURE IN-LINE FILTERS

Compressed air may contain impurities which will cause improper operation of equipment, and in some cases equipment failure.
In-line filters will reduce downtime and prevent costly repairs of tools in addition to extending their lifespan.

Features and benefits

- This filter has a large, porous bronze element to remove water and oil particles from contaminated air supplies to ensure a clean supply of air
- Lightweight and compact, connects directly to the tool
- High capacity 40 micron element

Applications

Designed specifically for the protection of small air tools

Air line filters are used directly before the air tool

Materials

Body: Anodised aluminium

Filter Element: 40 micron bronze

Specifications

Maximum Working Pressure: 500 PSI

Working Temperature: 2 to 93 °C





Product No	Thread (F/M) NPT	Length mm
62.119	1/8	58
62.120	1/4	58
62.123	3/8	59
62.124	1/2	97

MAXPRO
IN-LINE FILTER





Features and benefits

- Filter element removes water and oils
- Lightweight and compact, connects directly to the tool
- Clear reservoir shows accumulated water
- The filter element can be removed to be cleaned
- Button relief valve for draining trapped liquid from reservoir

Materials

Body: Painted aluminium

Male Fitting: Steel plated

Filter Element: 40 micron bronze

Reservoir: Polycarbonate

Specifications

Maximum Working Pressure: 125 PSI

Product No	Thread (F/M) NPT	Length mm
62.106	1/4	89

S62

IN-LINE DISPOSABLE DESICCANT DRYER / FILTER

This in-line disposable point-of-use desiccant dryer removes all traces of water vapor, oil vapor and dirt. Ideal for use with blow guns, paint guns or any other tools, where dry and contaminant free air is critical.

A 40 micron porous bronze element removes fine dirt particles, an oil adsorbing media removes oil vapor, and desiccant beads adsorb water vapor.

Features and benefits

- Compact size and lightweight
- See-through housing shows desiccant color change (from the original blue to a pink color when it needs to be replaced)
- Guard made of a chemical-resistant nylon
- Installed right at the point of use, it functions in either direction
- Disposable

Applications

Often used directly upstream of paint gun as final protection

Materials

Housing: Polycarbonate

Guard: Nylon

Filter Element: 40 micron bronze

Specifications

Pressure Dew Point: -40 °C

Maximum Working Pressure: 125 PSI

Maximum Flow Capacity: 15 SCFM

Working Temperature: 0 to 50 °C

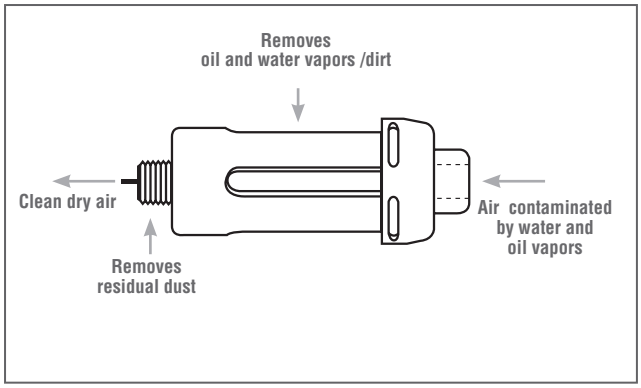




IDEAL FOR PAINT GUNS

Product No	Thread (F/M) NPT	Length mm
62.150	1/4	95

HOW DOES IT WORK?



S62

ToolReg®
PRESET REGULATORS WITH AUTOMATIC SECONDARY PRESSURE RELIEF

SAFETY

The **ToolReg®** preset regulators must be mounted directly on the air tool in order to ensure correct pressure, so that possible pressure drops in air hoses, do not influence the pressure at the tool.

The residual pressure in the tool is relieved when it is removed from the compressed air supply line, preventing unintentional activation of the tool with disastrous consequences.

The ToolReg® preset regulators are an economical method to achieve the ideal pressure at the tool.

Features and benefits

- Vents residual pressure to avoid accidental tool activation after disconnection
- Supplies a constant, exact and preset outlet pressure regardless of the inlet pressure
- Economical solution to set ideal pressure at the tool, resulting in energy and cost savings
- Prevents compressed air waste
- Highly reliable
- Locked to prevent pressure change – tamperproof
- Increases tool service life
- Anticorrosion
- Lightweight and compact design

SAFETY SOLUTION

ToolReg® regulator allows automatic removal of the residual pressure of the tool when disconnected to eliminate any risk of unintentional activation of the tool



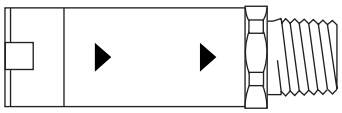


S62
ToolReg®

Applications
General use with air tools and especially with nailers

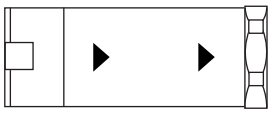
Materials
Body: Aluminium
Spring: Stainless steel
Valve: Brass
Seal: Nitrile

Specifications
Maximum Inlet Pressure: 365 PSI
Working Temperature: 0 to 80 °C



Product No	Preset Pressure PSI	Inlet (F) NPT	Outlet (M) NPT	Airflow SCFM
62.221.02	29*	1/4	1/4	17
62.221.03	45*	1/4	1/4	19
62.221.04	60**	1/4	1/4	21
62.221.05	75**	1/4	1/4	23
62.221.06	90**	1/4	1/4	25
62.221.07	100**	1/4	1/4	25
62.221.08	115**	1/4	1/4	28
62.225.02	29*	3/8	3/8	49
62.225.03	45*	3/8	3/8	49
62.225.04	60**	3/8	3/8	63
62.225.05	75**	3/8	3/8	63
62.225.06	90**	3/8	3/8	77
62.225.07	100**	3/8	3/8	77
62.225.08	115**	3/8	3/8	92
62.229.02	29*	1/2	1/2	49
62.229.03	45*	1/2	1/2	49
62.229.04	60**	1/2	1/2	63
62.229.05	75**	1/2	1/2	63
62.229.06	90**	1/2	1/2	77
62.229.07	100**	1/2	1/2	77
62.229.08	115**	1/2	1/2	92

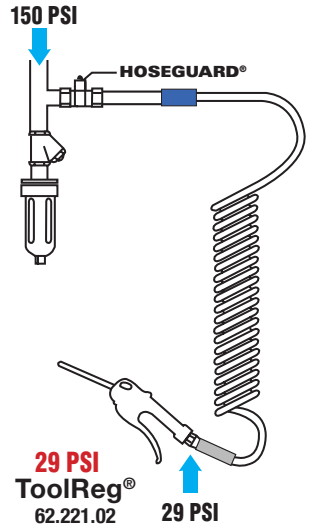
* +/- 4.35 PSI
** +/- 10%

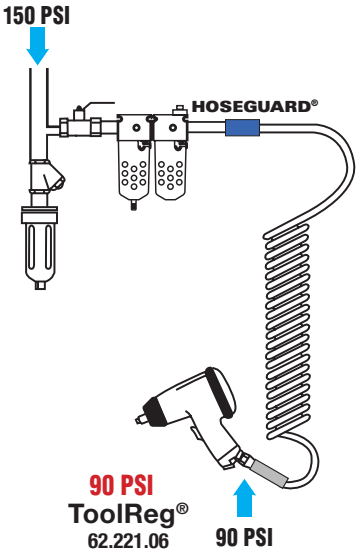


Product No	Preset Pressure PSI	Inlet (F) NPT	Outlet (F) NPT	Airflow SCFM
62.220.02	29*	1/4	1/4	17
62.220.03	45*	1/4	1/4	19
62.220.04	60**	1/4	1/4	21
62.220.05	75**	1/4	1/4	23
62.220.06	90**	1/4	1/4	25
62.220.07	100**	1/4	1/4	25
62.220.08	115**	1/4	1/4	28
62.224.02	29*	3/8	3/8	49
62.224.03	45*	3/8	3/8	49
62.224.04	60**	3/8	3/8	63
62.224.05	75**	3/8	3/8	63
62.224.06	90**	3/8	3/8	77
62.224.07	100**	3/8	3/8	77
62.224.08	115**	3/8	3/8	92
62.228.02	29*	1/2	1/2	49
62.228.03	45*	1/2	1/2	49
62.228.04	60**	1/2	1/2	63
62.228.05	75**	1/2	1/2	63
62.228.06	90**	1/2	1/2	77
62.228.07	100**	1/2	1/2	77
62.228.08	115**	1/2	1/2	92
62.232.02	29*	3/4	3/4	88
62.232.04	60**	3/4	3/4	113
62.232.06	90**	3/4	3/4	138
62.232.08	115**	3/4	3/4	162

ECONOMICAL SOLUTION
The **ToolReg®** regulator ensures ideal output pressure at the application for energy saving and increases tool lifespan

TYPICAL INSTALLATIONS





S62

SaveAir®
IN-LINE PRESET ENERGY SAVING REGULATORS

The in-line preset energy saving miniature regulator **SaveAir®** can be installed in every compressed air system. It supplies a constant, exact outlet pressure regardless of the input pressure.

The pressure is factory-set and cannot be changed. The **SaveAir®** prevents "dynamic pressure waste". This occurs when the pressure and flow at the point of disconnection are unnecessarily higher than the data indicated by the manufacturer to accomplish the desired function. "Dynamic pressure loss" is a significant and extremely costly waste of energy.



SAFETY

Features and benefits

- Ensure optimum efficiency of air tools by providing a preset pressure
- Limit overconsumption of compressed air, thereby reducing energy costs
- Highly reliable, safe and maintenance free
- Tamper-proof
- Lightweight and compact
- Heavy-duty construction
- Increase tools lifespan

Applications

General use with air tools, in paint shops and on compressed air networks

Materials

Body: Zinc

Membrane: Nitrile rubber

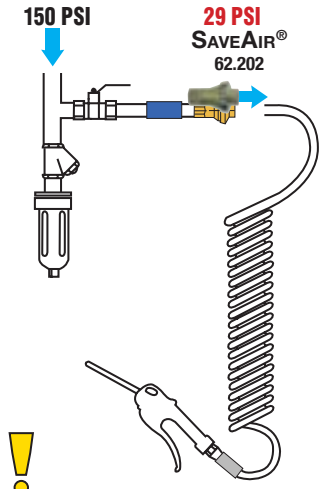
Specifications

Fluid : Compressed air

Maximum Working Pressure : 260 PSI

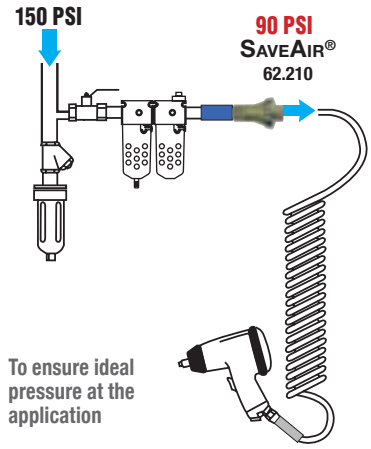
Working Temperature: 0 to 60 °C

TYPICAL INSTALLATIONS



WARNING

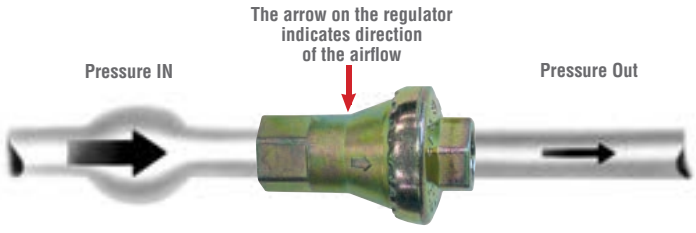
For safe use with a non-restricted blow gun / if tip would become blocked, the static pressure will remain at less than 30 PSI



Product No	Preset Pressure PSI	Inlet/ Outlet (F) NPT	Airflow SCFM
62.200	15*	1/4	15
62.202	29*	1/4	20
62.204	45*	1/4	25
62.206	60**	1/4	25
62.208	75**	1/4	25
62.210	90**	1/4	29
62.212	100**	1/4	29
62.214	115**	1/4	29

* +/- 4.35 PSI
** +/- 10%

HOW DOES IT WORK?



TECH TIP

The ideal pressure for air tools is usually 90 PSI. Every 15 PSI of overpressure wastes from 6 to 10% more energy. Preset regulators are an economical way to maintain ideal pressure.

S62

PRESSURE REGULATOR PISTON TYPE

Features and benefits

- Solid control piston with lip seal for extended lifespan
- Non-rising adjusting knob
- Easily serviced
- Lightweight and compact



Materials

Adjusting Nut: Brass
Adjusting Stem & Spring: Steel
Body: Zinc
Bonnet, Seat, Piston and Valve: Plastic
Seals: Nitrile rubber
Gauge: Plastic lens

Specifications

Maximum Inlet Pressure: 300 PSI
Temperature Range: 0 to 52 °C
Reduced Pressure Range: 2 to 125 PSI
Gauge Port Thread: 1/8 (F) NPT
Panel Mount Opening: 31 mm

Product No	Thread (F) NPT	Airflow SCFM
62.175	1/4	15

TECH TIP

Also installs on a compressed air line on the wall using the panel bracket

Product No 50.720



PRESSURE REGULATORS DIAPHRAGM TYPE

Features and benefits

- High sensitivity
- Diaphragm-operated for fast response
- Non-rising adjusting knob



Materials

Adjusting Screw and spring: Steel
Body: Aluminium
Bottom Spring: Stainless steel
Spring Cage: Acetal plastic
Inner valve: Brass
Gauge: Plastic lens

Specifications

Maximum Inlet Pressure: 300 PSI
Working Temperature: 4 to 52 °C
Reduced Pressure Range: 2 to 125 PSI
Gauge Port Thread: 1/8 (F) NPT
Panel Mount Opening: 31.8 mm

Product No	Thread (F) NPT	Airflow SCFM
62.180	1/8	10
62.185	1/4	10

TECH TIP

Also installs on a compressed air line on the wall using the panel bracket

Product No 50.720



S62

HVLP AIR REGULATORS

Specially designed for tools and any spray gun (HVLP) for accurate pressure regulation.

IDEAL FOR PAINT GUNS



Features and benefits

- Lightweight and compact air pressure regulator and gauge combination
- Precise air pressure control
- Push-to-lock knob avoids accidental pressure adjustments



Glass lens

Materials

Adjusting screw: Steel
Body: Acetal plastic
Diaphragm: Nitrile rubber
Spring: Stainless steel
Gauge: Glass lens

Specifications

Maximum Working Pressure: 150 PSI
Temperature Range: 4 to 52 °C
Gauge Port Thread: 1/8 (F) NPT
Panel Mount Opening: 31.8 mm

Product No	Thread (F) NPT	Pressure Range	Airflow SCFM
62.125	1/4	2 à 125 PSI	14
62.126	1/4	2 à 60 PSI	14
55.121	Replacement gauge for 62.125		
55.106	Replacement gauge for 62.126		

TECH TIP

Also installs on a compressed air line on the wall using the bracket

Product No 50.720



IN-LINE AIRFLOW REGULATOR

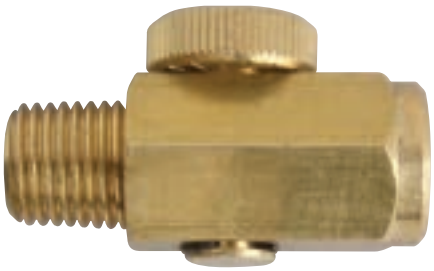
Features and benefits

- Permits airflow control in either direction
- Connects directly to air tool and hose
- Knurled knob sets desired flow rate

Material

Body: Brass

Product No	Thread Inlet/Outlet (F, M) NPT
62.101	1/4





See the video « Ergonomic connection » at **TOPRING**.com

S62
MAXPRO
IN-LINE AIRFLOW REGULATORS

Airflow regulators restrict airflow to the tool. This results in a pressure drop while the tool is running.
Airflow regulators must therefore be used in conjunction with a pressure regulator installed upstream.
Airflow regulators should only be used for fine tuning airflow at the tool.

IN-LINE AIRFLOW REGULATOR

Features and benefits

- Eliminates the need to estimate and compensate for pressure drops caused by length of hose



Applications

To control the airflow to HVLP spray guns

Materials

Body: Brass

Gauge: Plastic lens

Specifications

Pressure Range: 0-160 PSI

Product No	Thread Inlet/Outlet (F/M) NPT
62.105	1/4



IN-LINE AIRFLOW REGULATOR

Features and benefits

- Made from solvent-resistant nylon



Applications

Specially designed to control with precision the airflow to HVLP spray guns

Materials

Body: Polymer

Gauge: Plastic lens

Specifications

Pressure Range: 0-160 PSI

Product No	Thread Inlet/Outlet (F) NPT
62.104	1/4



S62
AIRPRO
IN-LINE LUBRICATORS

ERGONOMICS

Air tools cannot maintain their full efficiency if the mechanism is impaired by corrosion, condensation or lack of lubrication.

In-line lubricators allow air tools to operate at full efficiency by preventing sticking, thereby extending service lifespan.

Effective tool lubrication saves money by reducing equipment down time.



360° Swivel outlet

Product No	Thread NPT	Maximum Flow Rate SCFM	Oil Capacity cc
62.110	1/4	15	5
62.112	1/4	20	9
62.115	3/8	30	9
62.117	3/8	30	22
62.118	1/2	65	22

Please see page 460 for typical air tool consumptions

Features and benefits

- Provide instant oil flow so critical to time cycled air tools such as staplers and nailers
- Compact and lightweight, connect directly to the tool
- An effective alternative to larger, more costly units that may not deliver lubricant to the tool due to excessive hose length
- Automatic lubrication in the form of mist upon passage of airflow
- Lubricant will not leak into the air line upon pressure drops or disconnection
- Adjustment screws under the filler cap to control the amount of expelled oil
- Corrosion resistant
- 360° swivel outlet port



Applications

Ideal for air tools but specially designed for staplers and nailers with intermittent use

Specifications

Maximum Working Pressure: 150 PSI

Working Temperature: 0 to 52 °C

Materials

Body: Anodised aluminium
Insert: Nylon
Nut: Cadmium plated steel
Seals: Nitrile rubber

MAXPRO
IN-LINE LUBRICATOR



Product No	Thread Inlet (F) NPT	Thread Outlet (M) NPT
62.108	1/4	1/4

Features and benefits

- Automatically lubricates a tool by feeding a measured amount of oil mist each time the tool is cycled
- When stationary lubricators are not available, these mini-inline lubricators will provide an excellent oil source while adding only 2 in length to any tool
- Clear plastic reservoir to check oil supply

Specifications

Maximum Working Pressure: 120 PSI

See the video « Ergonomic connection » at **TOPRING**.com

S62
AIRPRO
FREE ANGLE FITTINGS 45°



ERGONOMICS

Features and benefits

- Designed to provide 360° circular rotation and up to 45° of angle for air tool and air hose supply lines
- Two rotation points prevent kinking of the supply line
- Help alleviate Carpal Tunnel Syndrome and back stress resulting in less lost-time injuries
- Steel dust cover protects rotating joint
- Lightweight, streamlined design
- Full flow design (7.0 mm)

Applications

For air tools

Materials

Body: Nickel plated steel
Male Thread: With PTFE tape
Seal: Nitrile rubber

Specifications

Maximum Working Pressure: 145 PSI
Working Temperature: -7 to 60 °C





Product No	Description
62.312	1/4 (M) NPT x 1/4 (F) NPT
62.315	3/8 (M) NPT x 3/8 (F) NPT

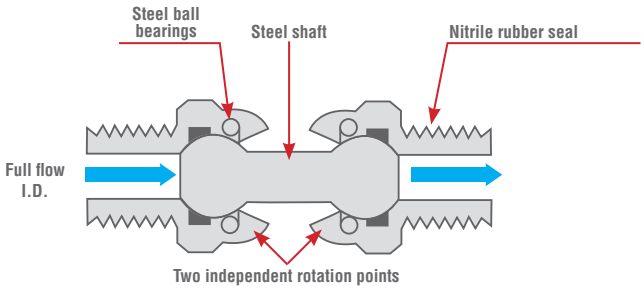


Product No	Description
62.321	1/4 (M) NPT x **1/4 INDUSTRIAL**
62.324	3/8 (M) NPT x **3/8 INDUSTRIAL**



Product No	Description
62.326	1/4 (M) NPT x **ULTRAFLO**





S62
AIRPRO
FREE ANGLE FITTINGS 75°



ERGONOMCS



Features and benefits

- Designed to provide 360° circular rotation and up to 75° of angle for air tool and air hose supply lines
- Saves time and energy by preventing kinking of the air supply line
- Improve tool maneuverability, reduce user fatigue and time-consuming injuries
- Help alleviate Carpal Tunnel Syndrome and back stress resulting in less lost-time injuries
- Full flow design
- Lightweight, streamlined design
- Polyurethane dust cover protects rotating joints

Applications

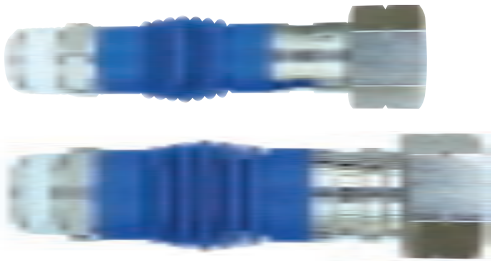
For air tools

Materials

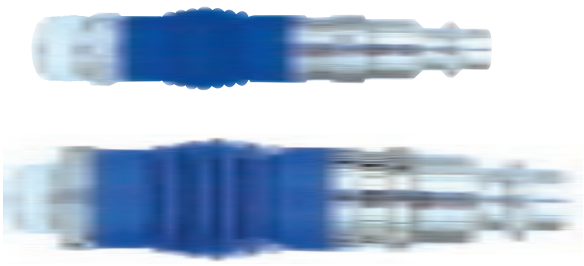
Body : Nickel plated steel
Dust Cover: Polyurethane
Male Thread: With PTFE tape

Specifications

Maximum Working Pressure: 145 PSI
Working Temperature: -20 to 60 °C



Product No	Description
62.382	1/4 (M) NPT x 1/4 (F) NPT
62.383	3/8 (M) NPT x 3/8 (F) NPT



Product No	Description
62.385	1/4 (M) NPT x **1/4 INDUSTRIAL**
62.387	1/4 (M) NPT x **3/8 INDUSTRIAL**



S62
AIRPRO
FREE ANGLE FITTINGS 90º



ERGONOMCS

Features and benefits

- Designed to provide 360° circular rotation and up to 90° of angle for air tool and air hose supply lines
- Improve tool maneuverability and reduce user fatigue
- Improve tool maneuverability and reduce user fatigue
- Full flow design

Applications

For air tools

Materials

Body: Chrome steel
Male Thread: With PTFE tape

Specifications

Maximum Working Pressure: 145 PSI
Working Temperature: -7 to 60 °C





Product No	Description	Airflow SCFM
62.332	1/4 (M) NPT x 1/4 (F) NPT	25
62.334	3/8 (M) NPT x 3/8 (F) NPT	68
62.336	1/2 (M) NPT x 1/2 (F) NPT	120



S62
MAXPRO
FREE ANGLE FITTINGS



ERGONOMICS

Features and benefits

- Eliminate hose kinking
- Reduce hand, wrist, elbow and shoulder stress from heavy or non-flexible air hose
- Help alleviate Carpal Tunnel Syndrome and back stress resulting in less lost-time injuries

Applications

Ideal for hand-held air tools, nailers and staplers, blow guns, ratchets and sanders

Specifications

Maximum Working Pressure: 140 PSI

Working Temperature: -20 to 60 °C

WARNING

Free angle fittings should not be used on impact tools or in areas of high mechanical abuse

MAXPRO 45°

Features and benefits

- Designed to provide 360° of rotation and up to 45° of angle for air tools and air hose supply lines
- Dual ball-pivot design is simple and tough for long lifespan
- Nitrile rubber dust cover protects rotating joint and prolongs the service life of the fitting



Materials

Body: Chrome plated steel
Dust Cover: Nitrile rubber





Product No	Description
62.412	1/4 (F) NPT x 1/4 (M) NPT



Product No	Description
62.400	1/4 (M) NPT x 1/4 (M) NPT



Product No	Description
62.415	3/8 (F) NPT x 3/8 (M) NPT



Product No	Description
62.430	**1/4 INDUSTRIAL** x 1/4 (M) NPT



Product No	Description
62.421	Hose Barb 1/4 I.D. x 1/4 (M) NPT

MAXPRO 30°

Features and benefits

- Free angle fittings are designed to provide 360° of rotation and up to 30° of angle for air tool supply lines

Material

Body: Nickel plated steel







Product No	Description
62.350	1/4 (M) NPT x 1/4 (M) NPT



Product No	Description
62.355	1/4 (F) NPT x 1/4 (M) NPT



Product No	Description
62.360	**1/4 INDUSTRIAL** x 1/4 (M) NPT



Product No	Description
62.365	**ARO 210** x 1/4 (M) NPT



See the video « Ergonomic connection » at **TOPRING**.com

S62
AIRPRO
SWIVEL CONNECTORS

ERGONOMICS



Features and benefits

- Universal joint that connects portable air tools to an air line
- Improves tool manoeuvrability, minimizes user fatigue and extends hose lifespan
- Swivels 360° at two pivot points, allowing the air hose to drop directly to the floor, while providing superb tool handling

Applications

Facilitates the connection of air tools such as grinders, drills, polishers, glue guns, sanders, staplers and paint spray guns

Materials

62.704 and 62.720:
Lightweight, non-marking composite

62.703 - 62.706 - 62.708: Aluminium

Specifications

Maximum Working Pressure: 150 PSI

Composite models



62.704



62.720
Swivel connector with flow regulator

Aluminium models



62.703



62.706



62.708

Product No	Thread (F/M) NPT	Material	Maximum Airflow SCFM
62.704	1/4	Composite	33
62.720	1/4	Composite	30
62.703	1/4	Aluminium	30
62.706	3/8	Aluminium	45
62.708	1/2	Aluminium	65

WARNING

Free angle fittings should not be used on impact tools or in areas of high mechanical abuse

See the video « Ergonomic connection » at **TOPRING**.com

S62

UNIMAX
SWIVEL CONNECTORS



ERGONOMICS

Features and benefits

- Universal connector for the connection of portable air tools to an air line
- Improve tool manoeuvrability, minimize user fatigue while extending hose lifespan
- Swivel 360° at two pivot points keeping air hose in proper position while providing great tool handling
- A solution to compatibility problems with the swivel connector model combining a UNIVERSEL **UNIMAX** quick coupler (accepts ULTRAFLO, 1/4 INDUSTRIAL, ARO 210, 1/4 TRUFLATE and LINCOLN type plugs)

Applications

Facilitates the connection of air tools such as grinders, drills, polishers, glue guns, sanders, staplers and paint spray guns

Material

Aluminium

Specifications

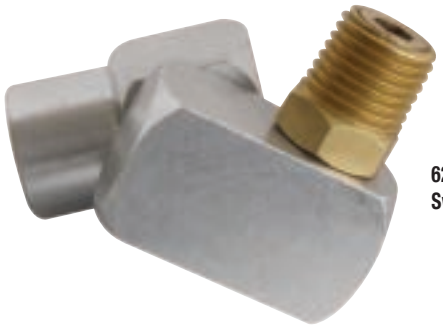
Maximum Working Pressure: 200 PSI

Working Temperature: -10 to 60 °C

WARNING

Free angle fittings should not be used on impact tools or in areas of high mechanical abuse





62.705
Swivel connector



62.712
Swivel connector with airflow regulator





62.710
Swivel connector with airflow regulator and UNIVERSEL UNIMAX quick coupler (accepts 5 types of plugs)

Product No	Thread NPT	Description
62.705	1/4 (F, M)	Swivel connector
62.712	1/4 (F, M)	Swivel connector with flow regulator
62.710	1/4 (F)	Swivel connector with flow regulator and UNIVERSAL **UNIMAX** quick coupler

S62

AIR MANIFOLD 2 IN 1

Features and benefits

- A single air inlet supplies two air tools
- Compact design

Material

Nickel plated brass



62.850



62.860

Product No	Inlet NPT	Outlet (F) NPT
62.850	1/4 (F)	1/4
62.860	1/4 (M)	1/4

AIR MANIFOLD 3 IN 1

Features and benefits

- A single air inlet supplies three air tools
- Compact design

Material

62.800 and 62.805 : Aluminium
62.810 : Brass



62.800 / 62.805



62.810

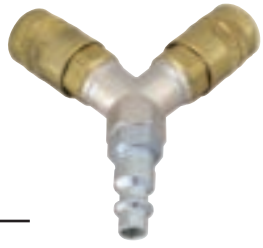
The 62.810 model has two holes for securing the manifold to a stable surface using nails

Product No	Inlet (F) NPT	Outlet (F) NPT
62.800	1/4	1/4
62.805	3/8	1/4
62.810	1/4	1/4

MAXQUIK MANIFOLD KITS WITH QUICK COUPLERS AND PLUG

Product No	Description
20.702C	**1/4 INDUSTRIAL** 2 in 1 distributor kit
20.703C	**1/4 INDUSTRIAL** 3 in 1 distributor kit
23.714C	**ARO 210** 3 in 1 distributor kit

For more details, see Series 20 page 315 and Series 23 page 338



20.702C
1/4 INDUSTRIAL kit:
1 distributor 2 in 1
2 quick couplers
1 plug



20.703C
1/4 INDUSTRIAL kit:
1 distributor 3 in 1
3 quick couplers
1 plug



23.714C
ARO 210 kit:
1 distributor 3 in 1
3 quick couplers
1 plug

S62
HOSE WHIPS

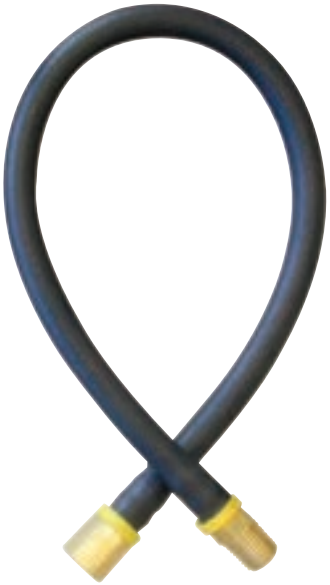
Using a hose whip between the air tool and coupler will extend the life of the coupler by acting as a shock absorber and protecting it against tool vibrations. A hose whip allows the user an easier and wider range of motion, reducing user fatigue while increasing productivity.

TECH TIP

All sharp bends on hose lines should be avoided. These tend to shorten hose life, increase pressure drops, retard swivel action, increase pump load and raise the temperature of the fluid. A hose whip should be installed to avoid straining on hose and coupler assembly.

TOPFLEX® HOSE WHIPS

ERGONOMICS





Features and benefits

- Lightweight and flexible
- Excellent oil resistance

Materials

Cover: Synthetic rubber (Nitrile -Type C2)
Tube: Synthetic rubber (Nitrile -Type C)
Reinforcement: Braided high tensile textile cord
Fittings: Brass

Specifications

Maximum Working Pressure: 250 PSI
Working Temperature: -40 to 100 °C

Product. No	Hose I.D. in	Length in	Length cm	Inlet (M) NPT	Outlet (F) NPT
62.522	1/4	18	46	1/4	1/4
62.524	1/4	36	91	1/4	1/4
62.542	3/8	18	46	1/4	1/4
62.544	3/8	60	152	1/4	1/4
62.546	1/2	18	46	3/8	3/8
62.548	1/2	60	152	3/8	3/8
62.552	1/2	18	46	1/2	1/2
62.554	1/2	60	152	1/2	1/2

EASYflex® *PREMIUM* HOSE WHIPS

ERGONOMICS





Features and benefits

- Lightweight and ultra-flexible even at extreme temperatures
- Excellent oil and abrasion resistance

Materials

Tube: Technopolymer
Reinforcement: Polyester braid
Fittings: Brass

Specifications

Maximum Working Pressure: 300 PSI
Working Temperature: -54 to 65 °C

Product. No	Hose I.D. in	Length in	Length cm	Inlet (M) NPT	Outlet (F) NPT
62.523	1/4	18	46	1/4	1/4
62.525	1/4	36	91	1/4	1/4
62.541	3/8	12	30	1/4	1/4
62.543	3/8	18	46	1/4	1/4
62.545	3/8	60	152	1/4	1/4
62.547	1/2	18	46	3/8	3/8
62.549	1/2	60	152	3/8	3/8
62.553	1/2	18	46	1/2	1/2
62.555	1/2	60	152	1/2	1/2

S62
HOSE WHIP KITS WITH COUPLER AND PLUG



ERGONOMICS

Features and benefits

- Provides an ergonomic connection and extends coupler life
- Hose made of technopolymer EASYflex® *PREMIUM*







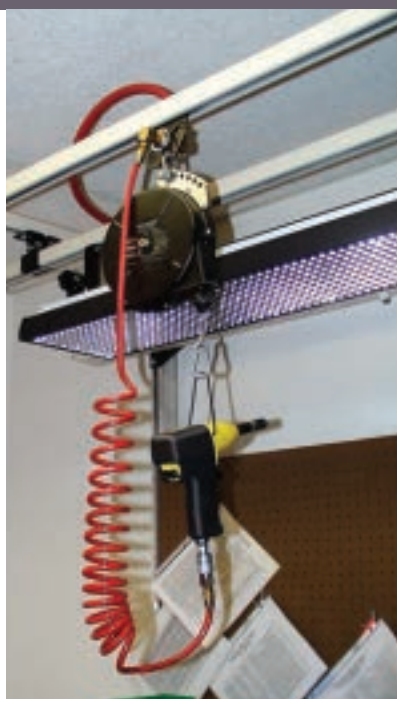
62.560C

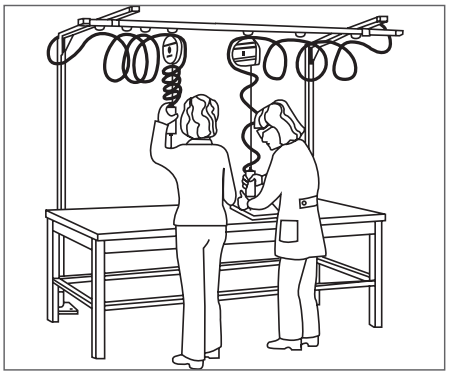
Product No	Hose I.D. in	Length in	Length cm	Plug (M) NPT	Coupler (F) NPT
62.560C	3/8	18	46	**1/4 INDUSTRIAL** (20.242)	**1/4 INDUSTRIAL** (20.842)
62.561C	3/8	18	46	**ARO 210** (23.242)	**ARO 210** (23.842)
62.562C	3/8	18	46	**ULTRAFLO** (31.642)	**ULTRAFLO** (31.742)
62.563C	3/8	18	46	**1/4 INDUSTRIAL** (20.242)	**MAXPRO 30°** (62.355)

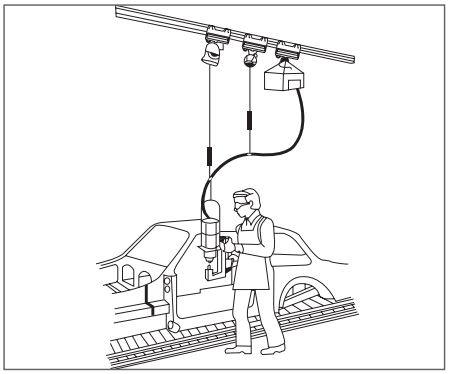
S64
TOOL BALANCERS

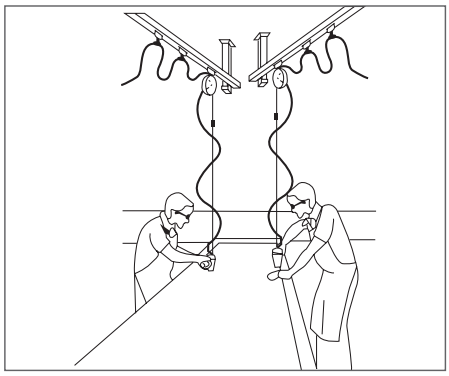


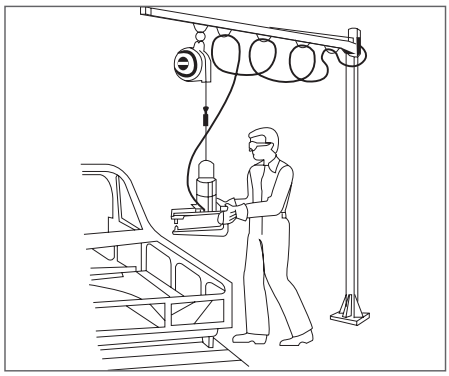
S64
TOOL BALANCERS











WHY USE A TOOL BALANCER?

Using a tool balancer for storage of compressed air tools has many advantages:

Time saving

- Tool balancers are designed to suspend potentially heavy tools from a jib or a track. The tool is kept within easy reach without being in the way.
- Maintaining tools at the ideal position for users to use them improves efficiency and productivity.

Ergonomics and working conditions

- Workstations can be organised more efficiently by ensuring that tools are always in the right place.
- This allows the user to operate the tool with much less effort and strain, and avoids many types of accidents. It helps reduce chronic fatigue and injuries, and improves user productivity.
- Disorders caused by repetitive lifting and handling of portable air tools (wrists, arms, elbows, neck and lower back) can be decreased.
- User effort can be directed to controlling the tool rather than supporting it.

Air tools lifespan

- Tool balancers can reduce damage to tools by providing an additional protection.
- Hoses can be kept away from the workspace where they might be cut or damaged.
- Tools suspended from balancers are safeguarded from being accidentally dropped onto the floor or knocked against the work surface.

Safety in the workplace

- Accidental start-ups are avoided when tools are out of the way.
- Tripping is virtually eliminated when hose lengths are kept short because the toll is suspended where it is needed.
- Keeping tools stored out of the way but close at hand when not in use reduces the risk of accidental falls.

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TOOL BALANCERS SELECTION GUIDE

	Heavy Duty Tool Balancers	Heavy Duty Tool Balancers	Heavy Duty Constant Pull Reels	Heavy Duty Retractors Ratchet Lock	Medium Duty Tool Balancers	Light Duty Tool Balancer with air hose	Light Duty Tool Balancers
							
Product No	**64.500**	**64.505 to 64.530**	**64.295 to 64.315**	**64.345 to 64.365**	**64.120 to 64.130**	**64.050**	**64.200 to 64.250**
Load Range	0.5 to 1.5 kg	1.5 to 30 kg	1.4 to 10.4 kg	1.4 to 10.4 kg	0.2 to 2.3 kg	0.5 to 1.5 kg	0.6 to 5.0 kg
Cable lenght	1.3 m	1.3 to 1.5 m	2.4 m	2.4 m	1.8 m	1.2 m	1.4 to 1.5 m
Robustness	★ ★	★ ★ ★ ★	★ ★ ★ ★	★ ★ ★ ★	★ ★	★	★
Ease of installation	★ ★ ★	★ ★ ★	★ ★	★ ★	★ ★ ★ ★	★ ★ ★	★ ★ ★
Swivel attachment point	✔	✔					
Security attachment point	✔	✔	✔	✔	✔		
Brake for slow motion					✔		
Ratchet Lock Mechanism				✔			
Compressed Air Hose						✔	

SELECTING A TOOL BALANCER

- First consideration should be given to the weight of the total load to be suspended (tool plus hose plus other attachments).
- If the total weight is in between the maximum capacity of one model and the minimum capacity of another, it is better to select the largest capacity model.
- In order to suspend a tool further from the tool balancer than the cable length allows, simply use an extra length of cable between the tool balancer and the tool.

S64

HEAVY-DUTY TOOL BALANCERS

ERGONOMICS

TOPRING heavy-duty tool balancers are designed to improve efficiency and reduce fatigue in more demanding applications.

They offer a number of benefits to the user, including improving the stability of tools and thereby increasing accuracy, freeing up workspace, and preventing tools from being damaged.

Features and benefits

- Zero gravity - true balance
- Easy external tensioning
- 360˚ upper swivel
- Secondary support hanger
- Bottom hook for tool hanging
- Tapered drum allows « true balance » throughout cable travel
- Manual drum lock (on models 64.525 and 64.530)
- Permanent lubrication
- Comply with EN ISO 12100:2010 requirements

Applications

Especially suited for assembly lines in automotive, appliances, electronics, automotive and packaging sectors

Materials

Housing: Cast aluminium or ABS (64.500)

Cable: Steel







0.5 - 1.5 kg

Product No	Cable mm	Capacity Load/Kg Min-Max	Cable Length m	Net Weight kg
64.500	2	0.5 - 1.5	1.3	0.7

1.5 - 5.0 kg

Product No	Cable mm	Capacity Load/Kg Min-Max	Cable Length m	Net Weight kg
64.505	3.2	1.5 - 3.0	1.3	1.7
64.510	3.2	3.0 - 5.0	1.3	1.8

5.0 - 30.0 kg

Product No	Cable mm	Capacity Load/Kg Min-Max	Cable Length m	Net Weight kg
64.515	4.0	5.0 - 9	1.3	3.6
64.520	4.0	9.0 - 15	1.3	3.6
64.525	4.8	15.0 - 22	1.5	7.7
64.530	4.8	22.0 - 30	1.5	8.3

S64

HEAVY-DUTY TOOL BALANCERS



ERGONOMICS



Features and benefits

- Designed for long life and trouble-free service
- Reinforced hanging bracket with forged clevis for ceiling mounting and extra holes for safety chain attachment
- Spring is permanently lubricated and provides constant tension, adjustable for suspending tool in normal working zone (15.2 cm - 45.7 cm)
- Galvanized steel with nylon coating cable (414 kg test)
- Include safety tool clip and adjustable cable stop
- Locking models (or retractors) include a positive ratchet-lock mechanism to allow locking of the cable at a specific height. A slight pull on the cable releases the lock. The lock feature may be disengaged externally when constant tension is required

Materials

Housing: Rugged steel with baked polyester finish

Cable: Galvanized steel nylon coated





BALANCERS (CONSTANT PULL REELS)

May be adjusted to suspend through 15.2 cm - 45.7 cm range.

Product No	Cable mm	Capacity Load/Kg Min-Max	Cable Length m	Net Weight kg
64.295	3.0	1.4 - 3.1	2.4	2.7
64.300	3.0	2.3 - 4.5	2.4	2.7
64.305	3.0	3.6 - 5.4	2.4	3.2
64.310	3.0	4.5 - 6.8	2.4	3.6
64.315	3.0	7.2 - 10.4	2.4	3.6

RETRACTORS (RATCHET LOCK)

Retract tool upward when manually released.

Product No	Cable mm	Capacity Load/Kg Min-Max	Cable Length m	Net Weight kg
64.345	3.0	1.4 - 3.1	2.4	2.7
64.350	3.0	2.3 - 4.5	2.4	2.7
64.355	3.0	3.6 - 5.4	2.4	3.2
64.360	3.0	4.5 - 6.8	2.4	3.6
64.365	3.0	7.2 - 10.4	2.4	3.6

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MEDIUM DUTY TOOL BALANCERS

ERGONOMICS

Features and benefits

- Economical choice for suspending tools weighting up to 2.3 kg.
- Molded ABS housing, smooth exterior with rounded edges, designed for maximum ergonomic appeal
- Easy to adjust
- Lightweight and compact
- Push-button release simplifies decreasing spring tension
- Rugged steel upper swivel hook with secondary safety cable provision
- Oversized cable opening with direct in-line pull to reduce cable wear
- 121.5 kg test galvanized steel, nylon coated cable
- Adjustable cable stop and lower safety hook

Applications

Pneumatic and electric tools, screw drivers, drills, riveting machines

Materials

Housing: ABS

Cable: Galvanized steel, nylon coated



Product No	Cable mm ○	Capacity Load/Kg Min-Max	Cable Length m*	Net Weight kg
64.120	1.8	0.2 - 0.7	1.8	0.6
64.125	1.8	0.5 - 1.4	1.8	0.6
64.130	1.8	1.4 - 2.3	1.8	0.7

* Includes cable stop and safety hook

S64
TOOL BALANCER WITH AIR HOSE



ERGONOMICS

Features and benefits

- Provides easy handling for users
- Allows a tool to be positioned over the work station for comfortable operation
- Effortless handling of the tool balancer provides increased production
- Lightweight and compact
- Integrated air hose and support cable keep work areas tidy and safe
- Plastic body
- Dial-type torque adjustment
- Adjustable ball stop for positioning
- Flexible polyurethane hose 5 mm x 1.2 m x 1/4 (M) NPT

Applications

Designed for use with small pneumatic tools and light duty applications

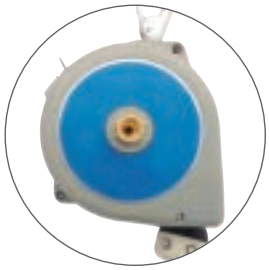
Materials

Housing: ABS

Hose: Polyurethane

Specification

Maximum Working Pressure: 140 PSI





Product No	Capacity Load/Kg Min-Max	Hose Length m	Net Weight kg
64.050	0.5 - 1.5	1.2 (4 ft)	0.9

LIGHT DUTY TOOL BALANCERS



ERGONOMICS

Features and benefits

- Economical choice for suspending tools
- Lightweight and compact
- Nylon-covered steel cable
- Adjustable tension

Applications

Designed for use with small pneumatic tools, for light duty applications

Materials

Housing: Steel

Cable: Nylon-covered steel





Prod. No	Cable mm ○	Capacity Load/Kg Min-Max	Cable Length m	Net Weight kg
64.200	2.5	0.6 - 1.5	1.4	0.5
64.205	3.2	1.5 - 3.0	1.5	0.8
64.250	3.2	3.0 - 5.0	1.5	0.8

S64

TOOL HOLDING ARMS

ERGONOMICS

Features and benefits

- Tool holding arms represent the ideal solution for production environments to keep work tools ergonomic and easily accessible
- Internal compressed air passage providing functionality, aesthetically clean look and effective results
- Extruded Aluminum profile with integrated track for sliding trolley

Material

Durable and strong anodized aluminum (6060-T6)

Specification

Maximum Weight:
Up to 20Kg capacity (bench or wall mounted)

64.710



64.720



64.700



Product No	Load capacity kg	Arm length cm	Arm height cm	Type	Weight kg
64.700	20	100	60.8	Fixed	5.5
64.710	10	90	132.7	Fixed	6.2
64.720	5	72.7	132.7	Swivel	6.4

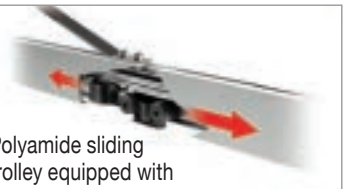


360° swivel base with low friction ball bearings

Air intake with 360° pivoting joint



360° rotating arm with integrated air passage



Polyamide sliding trolley equipped with mechanical stop



Air intake positionable anywhere on the arm



Air intake directly into the rotation pin



180° rotation with ball bearings

S69
AIR TOOL AND COMPRESSOR OILS



S69
AIR TOOL AND COMPRESSOR OILS SELECTION GUIDE

AIR TOOL OILS

DESCRIPTION	PAGE	POUR POINT	GRADE	AVAILABLE SIZES	PRODUCT NUMBER
Extreme Temperature Synthetic Oil	492	-55 °C	ISO 32	500 ml 1 L 4 L 18.9 L	**69.450** **69.401** **69.404** **69.400**
Premium Mineral Oil	493	-32 °C	ISO 32	500 ml 1 L 4 L 18.9 L	**69.050** **69.101** **69.104** **69.100**
Mineral Food Grade Oil	494	-18 °C	ISO 32	20 L	**69.800**

COMPRESSOR OILS

DESCRIPTION	PAGE	POUR POINT	GRADE	AVAILABLE SIZES	SERVICE LIFE*	PRODUCT NUMBER
Synthetic Oil for Reciprocating Type Compressor (Piston)	495	-45 °C	ISO 150	1 L 4 L 18.9 L	6000 to 8000 hours	**69.601** **69.604** **69.620**
Premium Mineral Oil for Reciprocating Type Compressor (Piston)	496	-18 °C	ISO 150	1 L 4 L 18.9 L	3000 to 4000 hours	**69.201** **69.204** **69.200**
Premium Mineral Oil for Screw Type Compressor	497	-36 °C	ISO 46	18.9 L	3000 to 4000 hours	**69.300**

*** The service life of the tool may vary depending on the temperature used**

TECH TIP

For the complete selection of lubricators, refer to Series 50, 51, 52 and 62

Additional specifications and safety data sheets are available on **TOPRING**.com

POUR POINT

The pour point refers to the minimum temperature at which the oil continues to flow. Below the pour point, the oil tends to thicken and to cease to flow freely.



S69

SYNTHETIC AIR TOOL OIL

FOR EXTREME TEMPERATURE



Lubrication of air tools is one of the most important preventive maintenance factors.

The majority of tool failures can be traced to inadequate lubrication. Tools should be oiled daily through the air inlet, ideally through airline lubricators installed at air tool locations.

Features and benefits

- Detergent-free synthetic formula, with polyalphaolefins for optimum speed and power of air tools and pneumatic cylinders
- Very low pour point (-55°C) and stable viscosity allow to lubricate and protect air tools exposed to extreme lower temperatures
- Contains additives to prevent rust for longer air tools service life
- Minimizes gumming and varnishing to attain optimum air tools speed and power
- Daily use extends air tools service life
- 500 ml and 1 L format have flip-up spouts (69.500)

Applications

All air tools, air control valves, pneumatic cylinders and air motors requiring oil lubrication at extreme temperatures

Specifications

Pour Point: -55 °C

Grade: ISO 32



TECH TIP

A lubricator uses an average of 1 L of oil every 2 to 3 months.

Synthetic air tool oil may affect some plastic components used in lubricators. Compatibility should be checked before using any synthetic air tool oil.

TOPRING recommends using lubricators with aluminum or zinc bowls with synthetic oil.



Product No	Size	Quantity Per Case
69.450	500 ml	12
69.401	1 L	12
69.404	4 L	4
69.400	18.9 L	--

S69

PREMIUM MINERAL AIR TOOL OIL



Features and benefits

- Detergent-free mineral formula for maximum output and superior performance of air tools
- Contains premium anti-wear additives, corrosion inhibitors and antioxidants additives to dissolve gum and deposits to extend air tools service life
- Prevents rust formation, carbon build-up and varnish problems maintaining speed and power of air tools
- Both the 500 ml and 1 L bottles have convenient flip-up spouts (69.500)

Applications

All types of air tools such as impact wrenches, hammers, grinders, sanders and all other air tools or pneumatic equipment

All air control valves, pneumatic cylinders and air motors requiring oil lubrication

Specifications

Pour Point: -32 °C

Grade: ISO 32



TECH TIP

A lubricator uses an average of 1 L of oil every 2 to 3 months.

It is recommended that a small amount of oil should be squeezed into the tool before storage.



Product No	Size	Quantity Per Case
69.050	500 ml	12
69.101	1 L	12
69.104	4 L	4
69.100	18.9 L	--

S69

MINERAL FOOD GRADE AIR TOOL OIL



Hydraulic fluids are advanced food grade oils formulated to provide superior and prolonged protection compared to most specialized food grade oil.

Petro-Canada's patented HT purification process makes it possible to manufacture a crystal clear 99.9% pure oil base in the world.

Features and benefits

- Outstanding resistance to oxidative breakdown even at high temperatures and in the presence of water and acidic contamination
- Helps keep systems free of sludge and varnish to ensure smooth and reliable operation of hydraulic valves and actuators
- Prolongs service life of fluids and limits downtime in harsh environments
- Protects equipment operating at high production rates for extended periods in tough condition

Applications

This oil offers excellent performance in high pressure systems including applications operating at more than 1000 PSI

They may also be used to lubricate anti-friction bearings and general circulating systems

It can also be used in in-line oilers, in pneumatic systems commonly found in food packaging applications because they deliver clean, non-varnishing performance even in extended service, and is essentially odorless

Specifications

Pour Point: -18 °C

Grade: ISO 32 and SAE 10



Canadian Food Inspection Agency

NSF REGISTRED H1

HOMOLOGATIONS

- All grades FZG pass over level 12
- Acceptable for use in food processing facilities
- H1 registered by NSF
- All fluid components comply with FDA 21CFR 178.3570 (Lubricants with incidental food contact)
- Acceptable for use in food processing facilities in Canada.
- Certified by Star K for usage in equipment for the preparation of Kosher food
- Maintains security on the allergen level

Product No	Size
69.800	20 L



S69

SYNTHETIC OIL FOR RECIPROCATING TYPE COMPRESSOR (PISTON)



Features and benefits

- Optimum lubricating and superior protection of compressor, crankcase and cylinders
- High resistance against oxidation resulting in reduced gum, sludge and deposits
- Additives which protect against carbon build-up and viscosity break-down
- Extends service intervals by a factor of two and service life of compressor and oil
- Specially formulated for compressor usage in lower operating temperatures
- Lowers compressor operating temperature by up to 10 °C
- Excellent anti-foam properties
- Detergent-free formula
- 1 L format has a convenient flip-up spouts (69.500)

Specifications

Pour Point: -45 °C

Grade: ISO 150

Service life: 6000 to 8000 hours depending on the temperature used



TECH TIP

Carefully check synthetic oil compatibility with compressor before usage. If synthetic oil has been used in the past, compatibility should be checked or the system must be completely purged before changing to another oil type, in order to avoid potential compressor damage.

Product No	Size	Quantity Per Case
69.601	1 L	12
69.604	4 L	4
69.620	18.9 L	--

S69

MINERAL OIL
FOR RECIPROCATING COMPRESSOR

PREMIUM QUALITY



Features and benefits

- High quality non-detergent mineral oil
- Maximum lubrication and components protection
- Reduced energy costs by optimizing compressor efficiency
- Extends compressor service life
- Additives that extend lubricant service life and prevent viscosity breakdown
- Prevents rust formation, carbon build-up and varnish problems
- Good resistance against oxidation and wear
- Excellent anti-foam properties
- 1 L bottles have convenient flip-up spouts

Specifications

Pour Point: -18 °C

Grade: ISO 150

Period of use: 3000 to 4000 hours depending on the working temperature





RECIPROCATING COMPRESSOR (PISTON)



Product No	Size	Quantity Per Case
69.201	1 L	12
69.204	4 L	4
69.200	18.9 L	--

S69

PREMIUM MINERAL OIL FOR SCREW COMPRESSOR



Features and benefits

- High quality oil
- Extends compressor service life
- All-season oil
- Contains an anti-foaming additive ensuring a fast air evacuation

Specifications

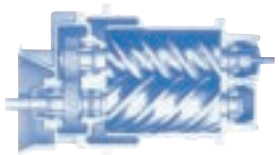
Pour Point: -36 °C

Grade: ISO 46

Period of use: 3000 to 4000 hours depending on the working temperature

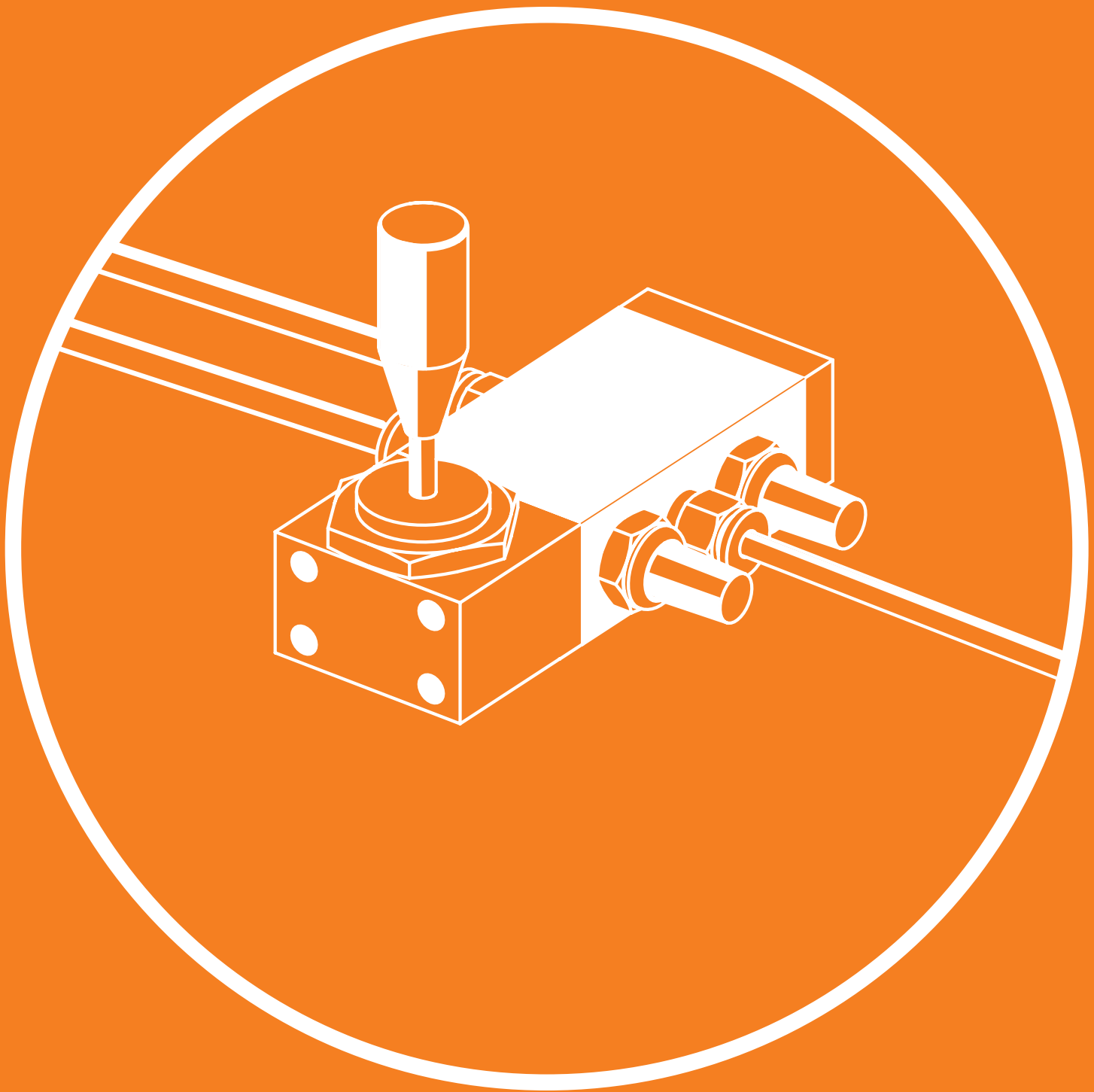


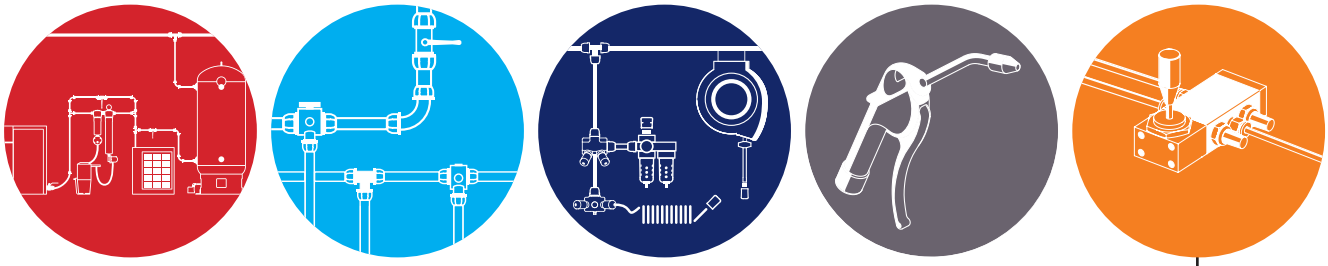
SCREW COMPRESSOR





Product No	Size
69.300	18.9 L





Group 5
Fluid Power

S32 to S38 • Pneumatic Tubing 500
S39 to S46 • Push-to-Connect Fittings 512
S80 • Air Control Valves 530
S81 to S83 • Pneumatic Cylinders 558
S85 • Flow Control, Quick Exhaust and Check Valves 574
S86 • Pneumatic Mufflers 582

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PNEUMATIC TUBINGS



S32 NYLON 503

S33 NYLON.POLYURETHANE 504

S34 POLYETHYLENE (LLDPE) 505

S34 POLYETHYLENE (LDPE) 506

S34 POLYETHYLENE AND ALUMINIUM (AL.PETM) 507

S35 POLYURETHANE 508

S37 FLUOROPOLYMER (PTFE) 509

S38 PVC 510

S36 PIPE CUTTERS 511

S32 to S38

ELEMENTS TO CONSIDER FOR THE CHOICE OF A PNEUMATIC TUBING

Pneumatic tubing are used to transport fluids in automation processes. They allow the connection of the air preparation systems (FRL), valves and cylinders. Pneumatic tubing are generally preferred to rigid pipes.

Polyurethane, nylon, polyethylene, PVC and PTFE tubing are the most commonly used in compressed air systems.

Knowledge of the characteristics, benefits and limitations of each compound is essential in the selection process.

Here are some basic factors to consider when selecting the tubing that best suited for the application.

The table on page 502 represents all the tubing models offered by **TOPRING** and their degree of performance in relation to different criteria.

WORKING PRESSURE

The working pressure is usually the first criteria to consider. It is established from the burst pressure at a normal temperature of about 20° C to which a safety factor is added. The tubing's maximum working pressure corresponds to the safe pressure rate which takes into account all operating criteria.

The nylon, nylon.polyurethane, PTFE and polyethylene and aluminum "AL.PE" tubings offer the highest working pressures.

CONDITIONS OF THE WORKING ENVIRONMENT

Some chemicals may have an adverse effect on the tubing (swelling, deterioration, etc.). Consideration should be given to the type of fluid that will flow through the tubing and those that will be in contact with the tubing.

Other factors may affect the performance and deterioration of the tube: varying temperatures, mixed chemicals and changing environmental conditions. The nylon, nylon polyurethane and PTFE tubings offer excellent resistance to chemicals and ultraviolet rays.

FLEXIBILITY AND KINK RESISTANCE

Due to their type of material, some tubing may be more flexible than others. For systems requiring low bending radius or repetitive movements, tubings with high flexibility will be preferred (e.g. polyurethane or PVC).

For fixed jobs where movement is reduced or requiring high working pressure, choose a more rigid tube (e.g. nylon).

AIRFLOW

The airflow rate corresponds to the volume of compressed air conveyed to the compressed air mechanism. Generally, it is recommended to use a tubing that will provide a higher flow rate than the components of the circuit (regulators, valves, cylinders, etc.).

The type of connection used will also influence the airflow rate: barb fittings are installed inside the tubing and reduce the flow rate while the push-to-connect fittings clamp the outside of the tubing and offer no flow restriction. Therefore a smaller diameter tubing can be used with push-to-connect fittings, resulting in space and money saving.

WORKING TEMPERATURE

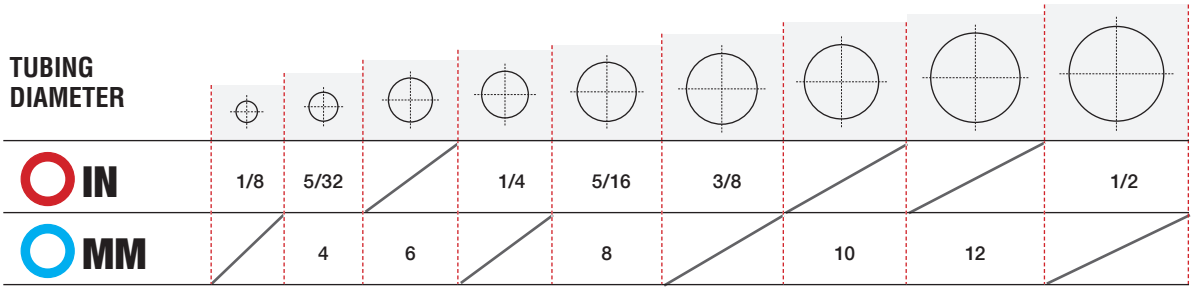
Temperature range for which a particular tubing can effectively be used. When considering temperature, it should be remembered that the higher the temperature, the lower the burst (and working) pressure. Since "working pressures" are calculated at ambient temperature, that figure will be reduced significantly as the temperature approaches the high end of the working temperature range.

THE TYPE OF FITTINGS USED

There are three types of fittings used with tubing: push-to-connect fittings, compression fittings and barb fittings. The selected tubing must be compatible with the type of fitting chosen.

The unit of measurement specified for pneumatic tubings is generally that of the outside diameter because they are used with push-to-connect fittings. The tubes are available in imperial sizes (in) and metric (mm) and the fitting should be the same size.

REFERENCE CHART OF ACTUAL DIAMETER SIZE



PNEUMATIC TUBINGS SELECTION GUIDE



TUBING COMPARISON	SERIES 32 Nylon 12	SERIES 33 Nylon.PU LongLife ™	SERIES 34 Polyethylene (LLDPE)	SERIES 34 Polyethylene (LDPE)	SERIE 34 Polyethylene and Aluminium (AL.PE)	SERIES 35 Polyurethane (PU)	SERIES 37 Fluoropolymer (PTFE)	SERIES 38 PVC
MAXIMUM WORKING PRESSURE	★★★★	★★★★	★★	★★	★★★★	★★	★★★	★
WORKING TEMPERATURE	★★★	★★★★	★★	★	★★★	★★★	★★★★★	★
RESISTANCE TO								
Abrasion	★★★	★★★	★★	★★	★★	★★★★	★★★	★
Kinking	★★	★★	★	★	★★★	★★★★	★★	★★★
Moisture	★★★	★★★	★★★	★★★	★★★	★★★	★★★	★★★
Ultraviolet Rays	★★★	★★★	★	★	★	★★	★★★	★
CRITERIA								
Compliances	RoHS	RoHS	RoHS-FDA	RoHS	RoHS	RoHS	RoHS - FDA	NSF - FDA - RoHS
Flexibility	★★★	★★★★	★★★	★★★★	★★★★	★★★★★	★★★	★★★
Cost	$ $ $	$ $	$	$	$ $ $	$ $	$ $ $	$

S32

NYLON 12

INCH AND METRIC TUBINGS

COMPLIANT RoHS Restrictions of Hazardous Substances



Features and benefits

- Good flexibility
- Super dimensional stability, ensuring perfect connection with push-to-connect fittings
- Excellent pressure rating
- Excellent resistance to crushing, abrasion and cracking
- Superior resistance to solvents, alkalis, oils, greases, petroleum products, and molds
- Good resistance to vibration
- Very low moisture absorption
- Broad temperature range
- Silicone-free

Applications

Pneumatic systems, vacuum, oils, coolants, water, paint supply lines

Material

Tubing: Nylon 12

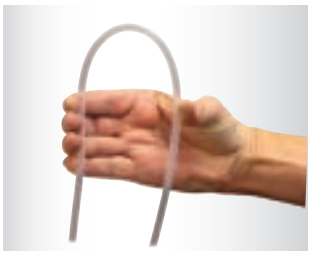
Specifications

Working Temperature: -40 °C to 70 °C

Vacuum Rating: Up to 28" Hg

Available Colors: Translucent white, black, red and blue







INCH SIZE

100 FT POLYBAG

White	Black	Red	Blue	Tubing O.D. in	Tubing I.D. in	Maximum Working Pressure (at 23 °C)
32.100	---	---	---	1/8	.080	430 PSI
32.110	32.110.01	32.110.05	32.110.07	5/32 (4mm)	.106	530 PSI
32.120	32.120.01	32.120.05	32.120.07	1/4	.180	330 PSI
32.130	32.130.01	32.130.05	32.130.07	5/16 (8mm)	.233	330 PSI
32.140	32.140.01	32.140.05	32.140.07	3/8	.275	330 PSI
32.150	32.150.01	---	---	1/2	.375	330 PSI



METRIC SIZE

30 M POLYBAG

White	Black	Red	Blue	Tubing O.D. mm	Tubing I.D. mm	Maximum Working Pressure (at 23 °C)
32.110	32.110.01	32.110.05	32.110.07	4 (5/32)	2.7	530 PSI
32.115	32.115.01	32.115.05	32.115.07	6	4.0	377 PSI
32.130	32.130.01	32.130.05	32.130.07	8 (5/16)	6.0	330 PSI
32.145	---	---	---	10	8.0	189 PSI
32.147	---	---	---	12	10.0	145 PSI



INCH SIZE

330 FT REEL

White	Black	Red	Blue	Tubing O.D. in	Tubing I.D. in	Maximum Working Pressure (at 23 °C)
32.300	---	---	---	1/8	.080	430 PSI
32.310	32.310.01	32.310.05	32.310.07	5/32 (4mm)	.106	530 PSI
32.320	32.320.01	32.320.05	32.320.07	1/4	.180	330 PSI
32.330	32.330.01	32.330.05	32.330.07	5/16 (8mm)	.233	330 PSI
32.340	32.340.01	32.340.05	32.340.07	3/8	.275	330 PSI
32.350	32.350.01	---	---	1/2	.375	330 PSI



METRIC SIZE

100 M REEL

White	Black	Red	Blue	Tubing O.D. mm	Tubing I.D. mm	Maximum Working Pressure (at 23 °C)
32.310	32.310.01	32.310.05	32.310.07	4 (5/32)	2.7	530 PSI
32.315	32.315.01	32.315.05	32.315.07	6	4.0	377 PSI
32.330	32.330.01	32.330.05	32.330.07	8 (5/16)	6.0	330 PSI
32.345	---	---	---	10	8.0	189 PSI
32.346	---	---	---	12	10.0	145 PSI

S33

SUPER FLEXIBLE LONGLIFE™ NYLON.POLYURETHANE

INCH AND METRIC TUBINGS

COMPLIANT RoHS Restrictions of Hazardous Substances



Features and benefits

- Economical
- Triple layer tubing with two layers of polyamide 12 PHL (Nylon 12) and one middle layer of polyurethane
- Excellent flexibility
- Very strong
- Superior dimensional stability, ensuring perfect connection with push-to-connect fittings
- High pressure resistance
- Excellent resistance to crushing, abrasion and cracking
- Very low moisture absorption
- Silicone, phthalate and halogen free

Applications

Pneumatic systems, vacuum, oils, coolants, water, robotics

Materials

Inside and Outside Layers: Nylon 12

Middle Layer: Ether-based polyurethane

Specifications

Working Temperature: -40 °C to 70 °C

Vacuum Rating: Up to 28" Hg

Available Colors: Translucent white, black, red and blue





INCH SIZE

100 FT POLYBAG

White	Black	Red	Blue	Tubing O.D. in	Tubing I.D. in	Maximum Working Pressure (at 20 °C)
33.110	33.110.01	33.110.05	33.110.07	5/32 (4 mm)	.106	367 PSI
33.120	33.120.01	33.120.05	33.120.07	1/4	.180	247 PSI
33.130	33.130.01	33.130.05	33.130.07	5/16 (8 mm)	.236	220 PSI
33.140	33.140.01	33.140.05	33.140.07	3/8	.275	232 PSI
33.150	33.150.01	---	---	1/2	.375	218 PSI

330 FT REEL

33.310	33.310.01	33.310.05	33.310.07	5/32 (4 mm)	.106	367 PSI
33.320	33.320.01	33.320.05	33.320.07	1/4	.180	247 PSI
33.330	33.330.01	33.330.05	33.330.07	5/16 (8 mm)	.236	220 PSI
33.340	33.340.01	33.340.05	33.340.07	3/8	.275	232 PSI
33.350	33.350.01	---	---	1/2	.375	218 PSI

METRIC SIZE





30 M POLYBAG

Clear	Black	Red	Blue	Tubing O.D. mm	Tubing I.D. mm	Maximum Working Pressure (at 20 °C)
33.110	33.110.01	33.110.05	33.110.07	4 (5/32)	2.5	367 PSI
33.115	33.115.01	33.115.05	33.115.07	6	4.0	309 PSI
33.130	33.130.01	33.130.05	33.130.07	8 (5/16)	6.0	220 PSI
33.145	---	---	---	10	8.0	176 PSI
33.147	---	---	---	12	10	147 PSI

100 M REEL

33.310	33.310.01	33.310.05	33.310.07	4 (5/32)	2.5	367 PSI
33.315	33.315.01	33.315.05	33.315.07	6	4.0	309 PSI
33.330	33.330.01	33.330.05	33.330.07	8 (5/16)	6.0	220 PSI
33.345	---	---	---	10	8.0	176 PSI
33.347	---	---	---	12	10	147 PSI

S34

LINEAR LOW DENSITY FOOD GRADE POLYETHYLENE (LLDPE)

INCH TUBINGS



Features and benefits

- LLDPE Food grade for standard industrial applications
- Material complies with FDA and RoHS requirements
- Manufactured from high quality resins
- Provide excellent environmental stress crack resistance
- Lightweight
- Good dimensional stability
- Very good resistance solvents
- Excellent bending radius
- Silicone-free

Applications

For general low-pressure applications, pneumatic circuitry, air and liquid transfer, vacuum lines, drain piping, food and beverages

Material

Tubing: Low density polyethylene (LLDPE)

Specifications

Working Temperature: - 45 °C to 60 °C

Color: Translucent white

FDA Type 1, Class A, Category 4 Polyethylene under CFR 177.1520





INCH SIZE

100 FT POLYBAG

Product No	Tubing O.D. in	Tubing I.D. in	Maximum Working Pressure (at 20 °C)
34.120	1/4	.170	140 PSI
34.140	3/8	.250	125 PSI
34.150	1/2	.375	100 PSI





INCH SIZE

500 FT SPOOL

Product No	Tubing O.D. in	Tubing I.D. in	Maximum Working Pressure (at 20 °C)
34.520	1/4	.170	140 PSI
34.540	3/8	.250	125 PSI
34.550	1/2	.375	100 PSI

S34

LOW DENSITY POLYETHYLENE (LDPE)
INCH TUBING

COMPLIANT RoHS Restrictions of Hazardous Substances



Features and benefits

- Economical solution
- Superior stress crack resistance
- Lightweight
- Made of high quality resins
- Good dimensional stability
- Resistance to most chemicals and solvents
- Flexible
- Silicone, phthalate and halogen free

Applications

For general low-pressure applications, pneumatic circuitry, air and liquid transfer, light vacuum lines and drain piping

Material

Tubing: Low density polyethylene (LDPE)

Specifications

Working Temperature: - 10 °C to 60 °C

Color: Translucent white





INCH SIZE

100 FT POLYBAG

Product No	Tubing O.D. in	Tubing I.D. in	Maximum Working Pressure (at 20 °C)
34.170	1/4	.170	176 PSI
34.180	3/8	.250	191 PSI
34.185	1/2	.375	132 PSI



INCH SIZE

500 FT SPOOL

Product No	Tubing O.D. in	Tubing I.D. in	Maximum Working Pressure (at 20 °C)
34.570	1/4	.170	176 PSI
34.580	3/8	.250	191 PSI
34.585	1/2	.375	132 PSI

S34

POLYETHYLENE AND ALUMINIUM (AL.PE ™) POSITIONABLE METRIC TUBINGS

COMPLIANT RoHS Restrictions of Hazardous Substances



Features and benefits

- Internal core in aluminium protected by polyethylene and external coating in high-density black polyethylene
- Lightweight
- Excellent resistance to light and weather
- Good resistance to water, hydrocarbons and oils
- Silicone, phthalate and halogen free

Applications

Can be shaped as desired and can maintain their shape

For pneumatic systems, robotics, motion control devices and automation

Materials

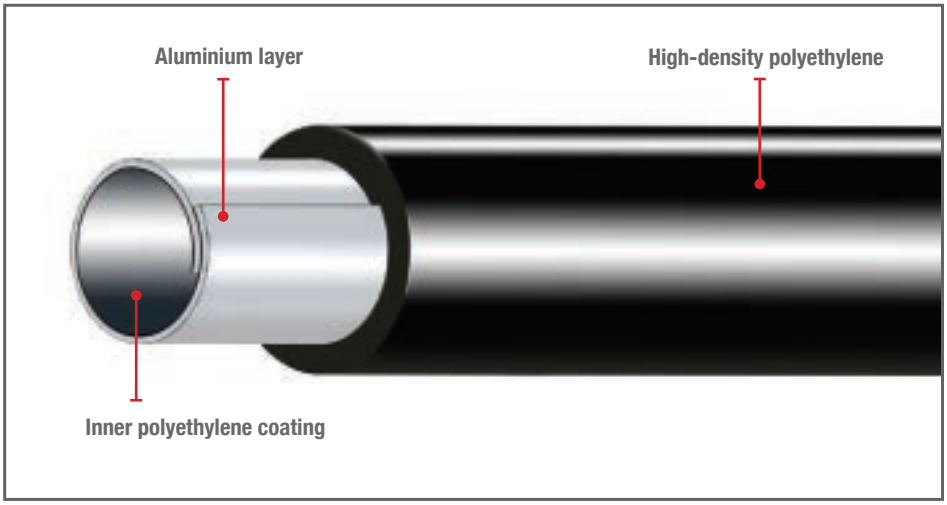
Tubing: High density polyethylene

Internal core: Aluminium with polyethylene coating

Specifications

Working Temperature: - 30 °C to 70 °C

Color: Black





METRIC SIZE

25 M POLYBAG

Product No	Tubing O.D. mm	Maximum Working Pressure (at 20 °C)
34.067	6	367 PSI
34.075	8	367 PSI
34.077	10	294 PSI
34.087	12	367 PSI

S35

POLYURETHANE (PU)
INCH AND METRIC TUBINGS



Features and benefits

- Extremely flexible (even more than nylon tubings) offering excellent bending radius
- Extremely kink-resistant - withstands abuse that would damage other tubing types
- Excellent resistance to oils, greases, fuels, moisture and molds
- Great resistance to UV rays, cuts and abrasion
- Silicone-free

Applications

Pneumatic systems, robotics, instrumentation, motion control devices and automation

Material

Tubing: Ester-based polyurethane

Specifications

Working Temperature: -40 °C to 70 °C

Vacuum: Up to 28" Hg

Available Colors: Clear, black, red, blue and translucent blue





INCH SIZE



100 FT POLYBAG

Clear	Black	Red	Blue	Translucent blue	Tubing O.D. in	Tubing I.D. in	Maximum Working Pressure (at 23 °C)
35.105	---	---	---	35.105.27	1/8	0.066	220 PSI
35.115	35.115.01	35.115.05	35.115.07	35.115.27	5/32 (4 mm)	0.093	143 PSI
35.124	35.124.01	35.124.05	35.124.07	35.124.27	1/4	0.156	143 PSI
35.136	35.136.01	---	---	35.136.27	5/16 (8 mm)	0.187	165 PSI
35.138	35.138.01	35.138.05	35.138.07	35.138.27	3/8	0.250	132 PSI
35.150	35.150.01	---	---	35.150.27	1/2	0.328	148 PSI



330 FT REEL

35.305	---	---	---	35.305.27	1/8	0.066	220 PSI
35.315	35.315.01	35.315.05	35.315.07	35.315.27	5/32 (4 mm)	0.093	143 PSI
35.324	35.324.01	35.324.05	35.324.07	35.324.27	1/4	0.156	143 PSI
35.336	35.336.01	---	---	35.336.27	5/16 (8 mm)	0.187	165 PSI
35.338	35.338.01	35.338.05	35.338.07	35.338.27	3/8	0.250	132 PSI
35.350	35.350.01	---	---	35.350.27	1/2	0.328	148 PSI

METRIC SIZE



30 M POLYBAG

Clear	Black	Red	Blue	Translucent blue	Tubing O.D. mm	Tubing I.D. mm	Maximum Working Pressure (at 23 °C)
35.115	35.115.01	35.115.05	35.115.07	35.115.27	4 (5/32)	2.5	143 PSI
35.117	35.117.01	35.117.05	35.117.07	35.117.27	6	4.0	160 PSI
35.136	35.136.01	---	---	35.136.27	8 (5/16)	5.0	165 PSI
35.145	35.145.01	---	---	35.145.27	10	6.5	160 PSI
35.146	---	---	---	35.146.27	12	8.0	145 PSI



100 M REEL

35.315	35.315.01	35.315.05	35.315.07	35.315.27	4 (5/32)	2.5	143 PSI
35.317	35.317.01	35.317.05	35.317.07	35.317.27	6	4.0	160 PSI
35.336	35.336.01	---	---	35.336.27	8 (5/16)	5.0	165 PSI
35.345	35.345.01	---	---	35.345.27	10	6.5	160 PSI
35.346	---	---	---	35.346.27	12	8.0	145 PSI

S37

FLUOROPOLYMER (PTFE)
INCH AND METRIC TUBINGS





Features and benefits

- Materials comply with FDA specifications
- Excellent resistance to chemical products
- Extremely stable up to a temperature of 260°C
- Excellent dielectric properties
- Virtually unaffected by oxygen, ozone and UV rays
- Lowest coefficient of friction of all polymers
- Fireproof to UL94 V0
- Silicone, phthalate and halogen free

Applications

Known for their outstanding properties under a variety of applications

High temperatures in combination with aggressive media or critical environments require an excellent tubing

Material

Tubing: Fluoropolymer (PTFE)

Specifications

Working Temperature: -60 °C to 260 °C

Color: Translucent white

INCH SIZE

164 FT POLYBAG

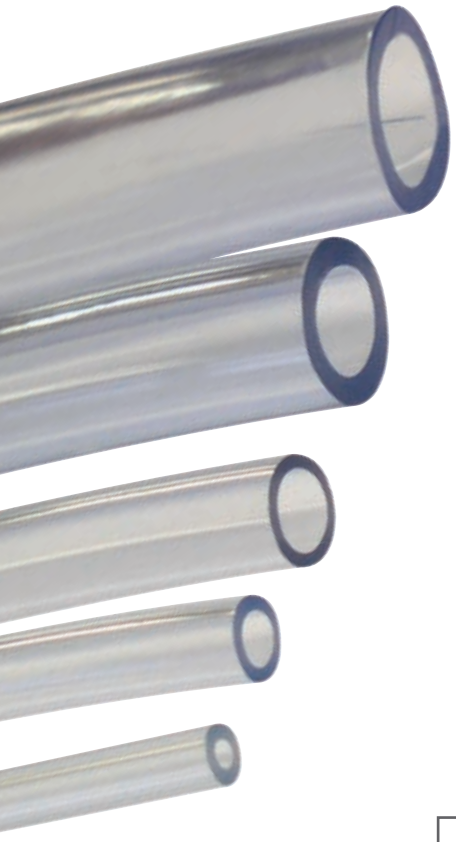
Product No	Tubing O.D. in	Tubing I.D. in	Maximum Working Pressure (at 23 °C)
37.210	5/32 (4mm)	.080	294 PSI
37.220	1/4	.125	294 PSI
37.230	5/16 (8mm)	.240	147 PSI
37.240	3/8	.240	191 PSI

METRIC SIZE

50 M POLYBAG

Product No	Tubing O.D. mm	Tubing I.D. mm	Maximum Working Pressure (at 23 °C)
37.210	4 (5/32)	2	294 PSI
37.215	6	4	191 PSI
37.230	8 (5/16)	6	147 PSI

S38
CLEAR PVC
INCH TUBINGS



Certified under NSF-51 standard

Features and benefits

- Comply with food and beverage industry standards NSF-51
- Materials comply with FDA specifications
- Materials comply with RoHS specifications
- More flexible than nylon and polyethylene
- Lightweight
- Crystal-clear appearance
- Smooth interior to reduce sediment buildup
- Non-reinforced
- Non-toxic
- Resistant to many chemicals and solvents
- Self-extinguishing
- Silicone-free

Applications

Low pressure airlines, water, light vacuum lines and drain lines

Materials

Tubing: Quality PVC Resin

Specifications

Working Temperature: -4 °C to 65 °C

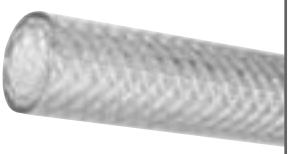
Durometer: 73 Shore A

Color: Clear

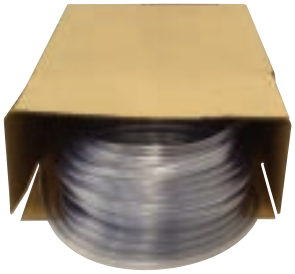
FDA Type 1, Class A, Category 4 Polyethylene under CFR 177.1520

NYFLEX

For reinforced PVC air hoses, please refer to Series 73







INCH DIAMETER

100 FT CARTON

Product No	Tube I.D. in	Tube O.D. in	Maximum Working Pressure (at 20 °C)
38.050	0.125	1/4	65 PSI
38.075	0.187	5/16	55 PSI
38.100	0.250	3/8	55 PSI
38.250	0.250	1/2	60 PSI
38.200	0.312	7/16	50 PSI
38.300	0.375	1/2	45 PSI
38.350	0.375	5/8	55 PSI
38.400	0.500	5/8	30 PSI
38.450	0.500	3/4	45 PSI
38.525	0.625	7/8	40 PSI
38.600	0.750	1	35 PSI
38.700	1.00	1-1/4	25 PSI

S36

MINIATURE TUBING CUTTER

- Allows quick, clean and square cuts on nylon, polyethylene and polyurethane tubing of 1/8 in through 3/4 in O.D. size
- Safety «lock-open» push button
- 92 mm (3 ft) tape mesure





Product No	Description
36.005	Miniature tubing cutter with tape measure

RECHARGEABLE BATTERY-OPERATED PIPE CUTTER

- Can cut plastic, nylon, PVC, rubber pipes or air hoses with a diameter up to 42 mm (1-21/32 in)
- Comes with rapid retraction device (full retraction in 0.5 seconds)
- Stops cutting automatically once the piping or air hoses is cut
- Two safety mechanisms prevent it from turning on unintentionally when in transport or when not being used
- Rechargeable battery







Product No	Description
36.020	Pipe cutter

PIPE CUTTER

- Provides a straight, even, accurate cut on pipes or air hoses up to 36 mm (1-12/32 in O.D.)
- Ergonomically designed handle
- steel spring controlling cutting tension
- Lockout handle
- Replaceable hardened steel blades

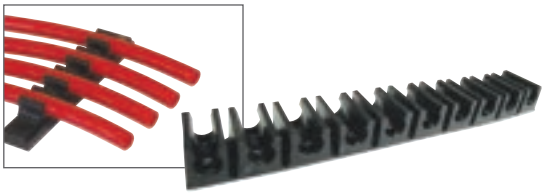




Product No	Description
36.100	Pipe cutter
36.105	Replacement blades (x2)

TUBING RACKS

- Keeps tubing separate
- 1/4 in O.D. model has countersunk holes for # 4 screws. Channel designed to be cut to length to accommodate from 1 to 10 tubing.
- 3/8 in and 1/2 in O.D. models have screw attachment holes at each end



Product No	Tubing O.D	Tubing capacities
36.915	1/4	10
36.920	3/8	7
36.925	1/2	6

S39•40•42•43•44•46
PUSH-TO-CONNECT FITTINGS



S39
TOPFIT®
PUSH-TO-CONNECT FITTINGS NICKEL-PLATED BRASS

Features and benefits

Quick connect design
One-piece fittings save over 75 % of assembly time compared to standard compression fittings.

Instantaneous connection / disconnection
No tool required for assembly

Full-flow design
Provide up to 60 % more flow than compression fittings

Fully reusable
Design to resist multiple connections and disconnections with leak-free operations and solid tube gripping

Self-contained assembly
No loose parts or inserts

Applications

Compressed air and vacuum for use with calibrated polyethylene, nylon, polyurethane and soft metal tubing

Materials

Body and Ring: Nickel-plated brass

Seals: POM

Lock Claws: Stainless steel

O-Ring: Nitrile rubber

Specifications

Working Pressure:
Fittings suitable for use up the maximum working pressure of pneumatic tubing used and with a maximum pressure of 290 PSI

Vacuum: 28" Hg

Working Temperature: -10 to 80 °C



S39 TOPFIT® | NICKEL-PLATED BRASS | IN | NPT

MALE CONNECTOR

STRAIGHT



Product No	Tubing O.D. in	Thread (M) NPT
39.100	1/8	10-32 ◇
39.104	1/8	1/8
39.106	5/32	10-32 ◇
39.108	5/32	1/8
39.110	5/32	1/4
39.112	1/4	1/8
39.114	1/4	1/4
39.118	3/8	1/8
39.120	3/8	1/4
39.122	3/8	3/8
39.124	3/8	1/2
39.126	1/2	1/4
39.128	1/2	3/8
39.130	1/2	1/2

10-32 ◇ : (M) UNF

FEMALE CONNECTOR

STRAIGHT



Product No	Tubing O.D. in	Thread (F) NPT
39.334	1/4	1/8
39.336	1/4	1/4
39.338	3/8	1/4
39.340	3/8	3/8

STEM REDUCER

IN - IN



Product No	Tubing O.D. in ①	Stem O.D. in ②
39.161	1/8	5/32
39.163	5/32	1/4
39.166	1/4	3/8
39.169	3/8	1/2

MALE ELBOW

SWIVEL



Product No	Tubing O.D. in	Thread (M) NPT
39.235	1/8	10-32 ◇
39.240	1/8	1/8
39.242	5/32	10-32 ◇
39.244	5/32	1/8
39.246	5/32	1/4
39.248	1/4	1/8
39.250	1/4	1/4
39.254	3/8	1/8
39.256	3/8	1/4
39.258	3/8	3/8
39.260	3/8	1/2
39.262	1/2	1/4
39.264	1/2	3/8
39.266	1/2	1/2

10-32 ◇ : (M) UNF

NON-SWIVEL



Product No	Tubing O.D. in	Thread (M) NPT
39.192	5/32	1/8
39.194	1/4	1/8
39.196	1/4	1/4
39.202	3/8	1/4
39.204	3/8	3/8

SWIVEL BANJO



Product No	Tubing O.D. in	Thread (M) NPT
39.951	5/32	1/8
39.953	1/4	1/8
39.955	1/4	1/4
39.957	3/8	1/4
39.958	3/8	3/8

MALE BRANCH TEE

SWIVEL



Product No	Tubing O.D. in	Thread (M) NPT
39.482	5/32	1/8
39.484	1/4	1/8
39.486	1/4	1/4
39.488	3/8	1/4
39.490	3/8	3/8

SWIVEL RUN TEE



Product No	Tubing O.D. in	Thread (M) NPT
39.339	5/32	1/8
39.440	1/4	1/8
39.442	1/4	1/4
39.446	3/8	1/4
39.448	3/8	3/8

SPEED CONTROLLER

WITH FLOW CONTROL VALVE

THREADED ELBOW



Meter-out Product No	Tubing O.D. in	Thread (M) NPT
39.700	1/4	1/8
39.705	1/4	1/4
39.710	3/8	1/4

UNION

STRAIGHT



Product No	Tubing O.D. in
39.160	1/8
39.162	5/32
39.164	1/4
39.168	3/8
39.170	1/2

ELBOW



Product No	Tubing O.D. in
39.270	1/8
39.272	5/32
39.274	1/4
39.276	3/8
39.278	1/2

TEE



Product No	Tubing O.D. in
39.540	1/8
39.542	5/32
39.544	1/4
39.548	3/8
39.550	1/2

« Y »



Product No	Tubing O.D. in
39.310	1/8
39.311	5/32
39.312	1/4

BULKHEAD



Product No	Tubing O.D. in
39.582	5/32
39.584	1/4
39.586	3/8
39.588	1/2

S39 TOPFIT® | NICKEL-PLATED BRASS | MM | BSPT

MALE CONNECTOR

STRAIGHT



Product No	Tubing O.D. mm	Thread (M) BSPT
39.010	4	1/8
39.011	4	1/4
39.013	6	1/8
39.014	6	1/4
39.016	8	1/8
39.017	8	1/4
39.018	8	3/8
39.021	10	1/4
39.022	10	3/8

MALE BRANCH TEE

SWIVEL



Product No	Tubing O.D. mm	Thread (M) BSPT
39.050	4	1/8
39.053	6	1/8
39.054	6	1/4
39.056	8	1/4
39.057	8	3/8
39.061	10	1/4
39.062	10	3/8

SWIVEL



Product No	Tubing O.D. mm	Thread (M) BSPP
39.850	4	1/8
39.853	6	1/8
39.854	6	1/4
39.856	8	1/4
39.857	8	3/8
39.861	10	1/4
39.862	10	3/8

SWIVEL RUN TEE



Product No	Tubing O.D. mm	Thread (M) BSPT
39.070	4	1/8
39.077	8	1/4
39.081	10	1/4
39.084	12	3/8

UNION

STRAIGHT



Product No	Tubing O.D. mm
39.810	4
39.812	6
39.814	8
39.816	10
39.818	12

ELBOW



Product No	Tubing O.D. mm
39.830	4
39.832	6
39.834	8
39.836	10
39.838	12

TEE



Product No	Tubing O.D. mm
39.840	4
39.842	6
39.844	8
39.846	10

BULKHEAD



Product No	Tubing O.D. mm
39.820	4
39.822	6
39.824	8

MALE ELBOW

SWIVEL



Product No	Tubing O.D. mm	Thread (M) BSPT
39.030	4	1/8
39.031	4	1/4
39.033	6	1/8
39.034	6	1/4
39.036	8	1/8
39.037	8	1/4
39.038	8	3/8
39.041	10	1/4
39.042	10	3/8

STEM REDUCER



Product No	① Tubing O.D. mm	② Stem O.D. mm
39.090	4	6
39.091	6	8
39.092	8	10
39.094	10	12



S40•S42
TOPFIT®
PUSH-TO-CONNECT FITTINGS
POLYMER

Features and benefits

Quick connect design
One-piece fitting saves over 75 % of assembly time compared to standard compression fittings

Compact design
Allows fittings to be closely mounted

Optimum flow
No part of the fitting goes inside the tubing for maximum unrestricted airflow

Instantaneous connection / disconnection
Wide release collar allows fast and trouble-free tubing removal

Fully reusable
Designed to resist multiple connections and disconnections with leak-free operations and solid tubing gripping

Tubing size identification
Tubing diameter indicated on release collar

Corrosion resistant threaded fittings
All threaded fittings are made of nickel-plated brass resistant to corrosion

Applications

Compressed air, vacuum

Materials

Body: Polymer (PBT)

Release Collar: Polyacetal resin

Threaded Body: Nickel-plated brass

Lock Claws: Stainless steel

O-Ring: Nitrile rubber

Needle: Nickel-plated brass

Lock Nut: Aluminium

Elastic Sleeve: Nitrile rubber

Adjusting Screw: Nickel-plated brass

Specifications

Maximum Working Pressure: 150 PSI

Working Temperature: 0 to 60 °C

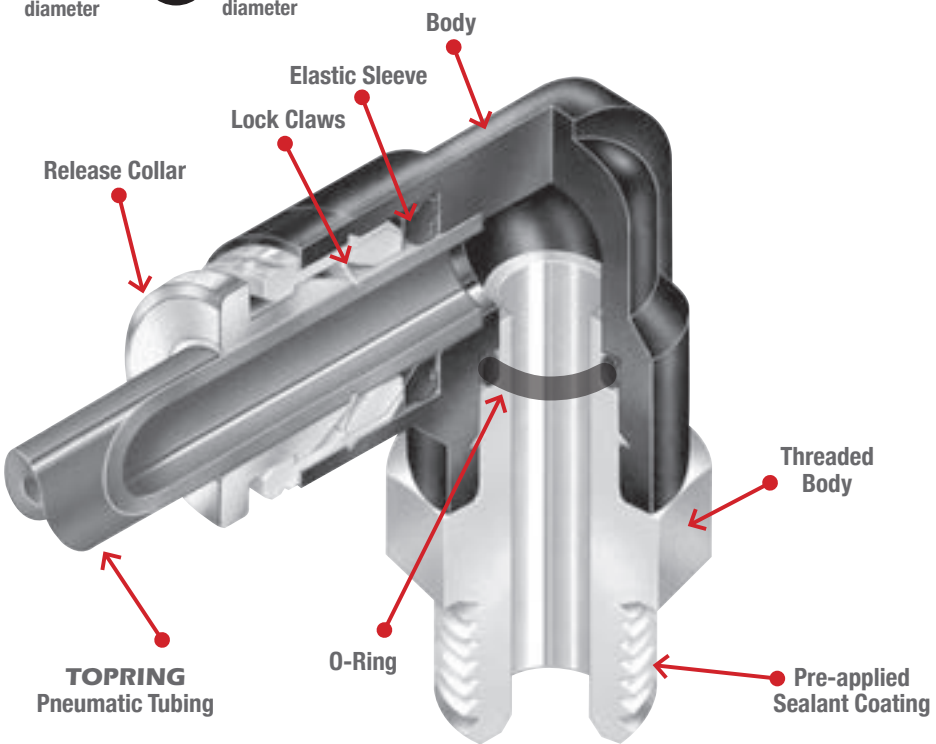
NPT Thread / Series 40:
Tubing diameter in inches (imperial)

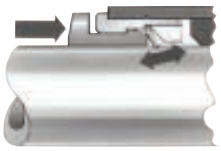
BSPT Thread / Series 42:
Tubing diameter in millimeters (metric)

Release collar colors

White: inch size diameter

Black: mm size diameter





POSITIVE GRIPPING ACTION

Stainless steel lock claws hold the tubing securely without damaging its surface

Vibration and pressure surges are safely absorbed to prevent accidental disconnections



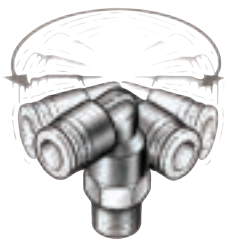
PERFECT SEAL

A nitrile rubber elastic sleeve guarantees a perfect seal between standard O.D. tubing and the body of the fitting



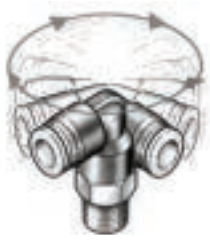
READY-TO-USE THREADS

Male threads have a pre-applied sealant which allows the fitting to be reused up to five times without the need for additional sealants



SWIVEL

Swivel elbows and tees can be oriented after installation for a perfect alignment with the tubing



ROTARY SWIVEL

The rotary swivel elbow will allow a rotative movement of 500 RPM

S40 TOPFIT® | POLYMER | IN | NPT

MALE CONNECTOR

STRAIGHT



Product No	Tubing O.D. in	Thread (M) NPT
40.100	1/8	1/16
40.101	1/8	10-32 ◇
40.105	1/8	1/8
40.115	5/32	10-32 ◇
40.120	5/32	1/8
40.125	5/32	1/4
40.128	1/4	10-32 ◇
40.130	1/4	1/8
40.135	1/4	1/4
40.140	1/4	3/8
40.145	5/16	1/8
40.150	5/16	1/4
40.155	5/16	3/8
40.159	3/8	1/8
40.160	3/8	1/4
40.165	3/8	3/8
40.170	3/8	1/2
40.175	1/2	1/4
40.180	1/2	3/8
40.185	1/2	1/2

10-32 ◇: (M) UNF

HEXAGONAL HOLE



Product No	Tubing O.D. in	Thread (M) NPT
40.047	5/32	1/8
40.048	1/4	1/8
40.049	1/4	1/4
40.053	5/16	1/8
40.054	5/16	1/4
40.057	3/8	1/4
40.059	3/8	3/8

- Allen key type mounting
- Specifically designed for mounting in close proximity to one another

« Y »



Product No	Tubing O.D. in	Thread (M) NPT
40.708	5/32	10-32◇
40.710	5/32	1/8
40.715	5/32	1/4
40.720	1/4	1/8
40.725	1/4	1/4
40.730	1/4	3/8
40.735	5/16	1/8
40.740	5/16	1/4
40.745	5/16	3/8
40.750	3/8	1/4
40.755	3/8	3/8
40.760	3/8	1/2
40.765	1/2	1/4
40.770	1/2	3/8
40.775	1/2	1/2

10-32 ◇: (M) UNF

FEMALE CONNECTOR

STRAIGHT



Product No	Tubing O.D. in	Thread (F) NPT
40.802	5/32	1/8
40.804	1/4	1/8
40.805	1/4	1/4
40.807	5/16	1/4
40.809	3/8	1/4
40.810	3/8	3/8
40.811	1/2	1/4
40.812	1/2	3/8

BULKHEAD



Product No	Tubing O.D. in	Thread (F) NPT
40.633	1/4	1/8
40.635	1/4	1/4
40.637	5/16	3/8
40.638	5/16	1/4
40.639	3/8	1/4
40.640	3/8	3/8
40.641	1/2	3/8
40.642	1/2	1/2

MALE ELBOW

SWIVEL



Product No	Tubing O.D. in	Thread (M) NPT
40.218	1/8	10-32◇
40.220	1/8	1/16
40.225	1/8	1/8
40.235	5/32	10-32◇
40.240	5/32	1/8
40.245	5/32	1/4
40.248	1/4	10-32◇
40.250	1/4	1/8
40.255	1/4	1/4
40.260	1/4	3/8
40.265	5/16	1/8
40.270	5/16	1/4
40.271	5/16	3/8
40.273	3/8	1/8
40.275	3/8	1/4
40.280	3/8	3/8
40.285	3/8	1/2
40.290	1/2	1/4
40.295	1/2	3/8
40.300	1/2	1/2

10-32 ◇: (M) UNF

LONG SWIVEL



Product No	Tubing O.D. in	Thread (M) NPT
40.781	5/32	10-32◇
40.782	5/32	1/8
40.785	1/4	1/8
40.786	1/4	1/4
40.788	5/16	1/8
40.789	5/16	1/4
40.790	5/16	3/8
40.792	3/8	1/4
40.793	3/8	3/8
40.797	1/2	3/8
40.798	1/2	1/2

10-32 ◇: (M) UNF

BANJO



Product No	Tubing O.D. in	Thread (M) NPT
40.950	5/32	10-32◇
40.951	5/32	1/8
40.949	1/4	1/4
40.952	1/4	10-32◇
40.953	1/4	1/8
40.954	5/16	1/8
40.955	5/16	1/4
40.957	3/8	1/4
40.958	3/8	3/8
40.959	1/2	3/8
40.960	1/2	1/2

10-32 ◇: (M) UNF

ROTARY SWIVEL*



Product No	Tubing O.D. in	Thread (M) NPT	Max RPM
40.600	O.D. in	1/8	500
40.601	1/4	1/4	500
40.602	5/16	1/8	400
40.603	5/16	1/4	400
40.604	3/8	3/8	300
40.605	3/8	1/2	300
40.606	1/2	3/8	250
40.607	1/2	1/2	250

* With build-in ball bearing

S40 TOPFIT® | POLYMER | IN | NPT

MALE BRANCH TEE

SWIVEL



Product No	Tubing O.D. in	Thread (M) NPT
40.335	1/8	1/8
40.344	5/32	10-32◇
40.345	5/32	1/8
40.350	5/32	1/4
40.360	1/4	1/8
40.365	1/4	1/4
40.370	1/4	3/8
40.375	5/16	1/8
40.380	5/16	1/4
40.385	5/16	3/8
40.390	3/8	1/4
40.395	3/8	3/8
40.400	3/8	1/2
40.405	1/2	1/4
40.410	1/2	3/8
40.415	1/2	1/2

10-32 ◇: (M) UNF

SWIVEL RUN TEE



Product No	Tubing O.D. in	Thread (M) NPT
40.455	1/8	1/8
40.464	5/32	10-32◇
40.465	5/32	1/8
40.467	5/32	1/4
40.475	1/4	1/8
40.480	1/4	1/4
40.485	1/4	3/8
40.490	5/16	1/8
40.495	5/16	1/4
40.500	5/16	3/8
40.505	3/8	1/4
40.510	3/8	3/8
40.515	3/8	1/2
40.520	1/2	1/4
40.525	1/2	3/8
40.530	1/2	1/2

10-32 ◇: (M) UNF

UNION

STRAIGHT



Product No	Tubing O.D. in
40.190	1/8
40.195	5/32
40.200	1/4
40.205	5/16
40.210	3/8
40.215	1/2

ELBOW



Product No	Tubing O.D. in
40.304	1/8
40.305	5/32
40.310	1/4
40.315	5/16
40.320	3/8
40.325	1/2

TEE



Product No	Tubing O.D. in
40.420	1/8
40.425	5/32
40.430	1/4
40.435	5/16
40.440	3/8
40.445	1/2

BULKHEAD



Product No	Tubing O.D. in
40.650	5/32
40.655	1/4
40.660	5/16
40.665	3/8
40.670	1/2

« Y »



Product No	Tubing O.D. in ①	Tubing O.D. in ②
40.535	1/8	1/8
40.540	5/32	5/32
40.543	1/4	5/32
40.545	1/4	1/4
40.548	5/16	1/4
40.550	5/16	5/16
40.551	3/8	5/16
40.552	3/8	3/8
40.553	3/8	1/2
40.554	1/2	1/2

REDUCER

STRAIGHT UNION



Product No	Tubing O.D. in	Tubing O.D. in
40.193	5/32	1/8
40.198	1/4	5/32
40.203	5/16	1/4
40.204	3/8	1/4
40.208	3/8	5/16
40.213	1/2	3/8

TEE



Product No	Tubing O.D. in ①	Tubing O.D. in ②
40.575	1/4	5/32
40.576	5/16	1/4
40.577	3/8	1/4
40.578	3/8	5/16
40.579	1/2	3/8

STEM ADAPTER

IN - IN



Product No	Tubing O.D. in ①	Stem O.D. in ②
40.580	5/32	1/4
40.581	5/32	5/16
40.582	1/4	5/16
40.583	1/4	3/8
40.584	5/16	3/8
40.585	1/4	1/2
40.586	5/16	1/2
40.587	3/8	1/2

IN - MM



Product No	Tubing O.D. in ①	Stem O.D. mm ②
42.820	1/4	8
42.822	1/4	10
42.823	5/16	10
42.825	1/4	12
42.826	5/16	12
42.827	3/8	12

PLUG



Product No	O.D. in
40.675	1/8
40.680	5/32
40.685	1/4
40.690	5/16
40.695	3/8
40.700	1/2

S40 TOPFIT® | POLYMER | IN | NPT

SPEED CONTROLLER

WITH FLOW CONTROL VALVE THREADED ELBOW



Meter-out Product No	Meter-in Product No	Tubing O.D. in	Thread (M) NPT
40.898	40.899	5/32	10-32 ◇
40.900	40.901	5/32	1/8
40.902	40.903	1/4	10-32 ◇
40.904	40.905	1/4	1/8
40.906	40.907	1/4	1/4
40.908	40.909	5/16	1/8
40.910	40.911	5/16	1/4
40.912	40.913	5/16	3/8
40.916	40.917	3/8	1/4
40.918	40.919	3/8	3/8
40.922	40.923	1/2	3/8
40.924	40.925	1/2	1/2

10-32 ◇: (M) UNF

WITH FLOW CONTROL VALVE STRAIGHT UNION



Meter-out Product No	Tubing O.D. in
40.890	5/32
40.891	1/4
40.892	5/16
40.893	3/8
40.894	1/2

WITHOUT FLOW CONTROL VALVE THREADED ELBOW

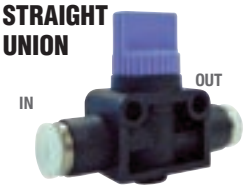


Product No	Tubing O.D. in	Thread (M) NPT
40.870	1/4	10-32◇
40.871	1/4	1/8
40.872	1/4	1/4
40.874	5/16	1/8
40.875	5/16	1/4
40.876	5/16	3/8
40.878	3/8	1/4
40.879	3/8	3/8
40.880	3/8	1/2
40.882	1/2	3/8
40.883	1/2	1/2

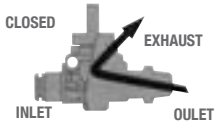
10-32 ◇: (M) UNF

MINIATURE HAND VALVE

STRAIGHT UNION



2-Way Product No	3-Way Product No	Tubing O.D. in
40.060	40.070	1/4
40.062	40.072	5/16
40.063	40.073	3/8
40.065	40.075	1/2



STRAIGHT THREADED



2-Way Product No	3-Way Product No	Tubing O.D. in	Thread (M) NPT
40.080	40.090	1/4	1/4
40.082	40.092	5/16	1/4
40.083	40.093	3/8	1/4
40.084	40.094	3/8	3/8
40.087	40.097	1/2	3/8

The 2-Way miniature hand valve does not discharge the residual pressure

The 3-Way miniature hand valve, when closed, discharges residual pressure

MINIATURE BALL VALVE

STRAIGHT UNION



Product No	① Tubing O.D. in	② Tubing O.D. in
40.930	1/4	1/4
40.931	5/16	5/16
40.933	3/8	3/8
40.934	1/2	1/2

STRAIGHT THREADED



Product No	Tubing O.D. in	Thread (M) NPT
40.940	1/4	1/8
40.941	1/4	1/4
40.942	1/4	3/8
40.943	5/16	1/8
40.944	5/16	1/4
40.945	3/8	1/4
40.946	3/8	3/8
40.947	3/8	1/2

DISTRIBUTOR

DOUBLE TRIPLE UNION



Product No	① Tubing O.D. in	② Tubing O.D. in
40.972	1/4	3/8

TRIPLE UNION



Product No	① Tubing O.D. in	② Tubing O.D. in
40.976	1/4	3/8

CHECK VALVE

STRAIGHT THREADED



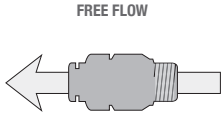
Product No	Tubing O.D. in	Thread (M) NPT
40.980	5/32	1/8
40.981	1/4	1/8
40.982	1/4	1/4

UNION



Product No	Tubing O.D. in
40.985	5/32
40.986	1/4

The check valve allows free flow from the inlet and blocks flow in the reverse direction



S42 TOPFIT® | POLYMER | MM | BSPT

MALE CONNECTOR

STRAIGHT



Product No	Tubing O.D. mm	Thread (M) BSPT
42.100	4	M5*
42.105	4	1/8
42.110	4	1/4
42.115	6	M5*
42.116	6	M6*
42.130	6	1/8
42.135	6	1/4
42.136	6	3/8
42.140	8	1/8
42.145	8	1/4
42.150	8	3/8
42.153	10	1/8
42.155	10	1/4
42.160	10	3/8
42.161	10	1/2
42.163	12	1/4
42.165	12	3/8
42.170	12	1/2

* Metric thread

HEXAGONAL HOLE



Product No	Tubing O.D. mm	Thread (M) BSPT
42.039	4	M5*
42.041	4	1/8
42.038	6	M5*
42.042	6	1/8
42.043	6	1/4
42.044	8	1/8
42.045	8	1/4
42.046	8	3/8
42.047	10	1/4
42.048	10	3/8
42.049	12	3/8
42.050	12	1/2

* Metric thread

- Allen key type mounting
- Specifically designed for mounting in close proximity to one another

« Y »

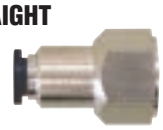


Product No	Tubing O.D. mm	Thread (M) BSPT
42.708	4	M5*
42.710	4	1/8
42.720	6	1/8
42.725	6	1/4
42.735	8	1/8
42.740	8	1/4
42.745	8	3/8
42.754	10	1/4
42.755	10	3/8
42.760	12	3/8
42.761	12	1/2

* Metric thread

FEMALE CONNECTOR

STRAIGHT



Product No	Tubing O.D. mm	Thread (M) BSPT
42.203	4	1/8
42.205	6	1/8
42.210	6	1/4
42.215	8	1/8
42.212	8	1/4
42.213	8	3/8
42.216	10	1/4

MALE ELBOW

SWIVEL (ADJUSTABLE)



Product No	Tubing O.D. mm	Thread (M) BSPT
42.594	4	M3*
42.595	4	M5*
42.600	4	1/8
42.603	4	1/4
42.613	6	M5*
42.614	6	M6*
42.615	6	1/8
42.620	6	1/4
42.623	6	3/8
42.625	8	1/8
42.630	8	1/4
42.632	8	3/8
42.633	10	1/8
42.635	10	1/4
42.636	10	3/8
42.634	10	1/2
42.637	12	1/4
42.638	12	3/8
42.639	12	1/2

* Metric thread

LONG SWIVEL ELBOW



Product No	Tubing O.D. mm	Thread (M) BSPT
42.781	4	M5*
42.782	4	1/8
42.785	6	1/8
42.786	6	1/4
42.788	8	1/8
42.789	8	1/4
42.790	8	3/8
42.792	10	1/4
42.793	10	3/8
42.797	12	3/8
42.798	12	1/2

* Metric thread

BANJO



Product No	Tubing O.D. mm	Thread (M) BSPT
42.948	4	M5*
42.950	4	1/8
42.953	6	1/8
42.954	6	1/4
42.956	8	1/8
42.957	8	1/4
42.960	10	1/4
42.961	10	3/8
42.963	12	3/8
42.964	12	1/2

* Metric thread

MALE BRANCH TEE

SWIVEL



Product No	Tubing O.D. mm	Thread (M) BSPT
42.640	4	M5*
42.645	4	1/8
42.646	4	1/4
42.660	6	1/8
42.662	6	1/4
42.665	6	3/8
42.670	8	1/8
42.675	8	1/4
42.676	8	3/8
42.680	10	1/4
42.681	10	3/8
42.683	12	1/4
42.684	12	3/8
42.685	12	1/2

* Metric thread

SWIVEL RUN TEE



Product No	Tubing O.D. mm	Thread (M) BSPT
42.475	4	M5*
42.477	4	1/8
42.481	6	1/8
42.482	6	1/4
42.485	8	1/8
42.486	8	1/4
42.487	8	3/8
42.490	10	1/4
42.491	10	3/8
42.495	12	3/8
42.496	12	1/2

* Metric thread

S42 TOPFIT® | POLYMER | MM | BSPT

UNION

STRAIGHT



Product No	Tubing O.D. mm
42.230	4
42.235	6
42.240	8
42.245	10
42.250	12

ELBOW



Product No	Tubing O.D. mm
42.260	4
42.270	6
42.275	8
42.280	10
42.285	12

TEE



Product No	Tubing O.D. mm
42.295	4
42.305	6
42.310	8
42.315	10
42.320	12

BULKHEAD



Product No	Tubing O.D. mm
42.560	4
42.570	6
42.575	8
42.580	10
42.585	12

« Y »



Product No	Tubing O.D. mm ①	Tubing O.D. mm ②
42.540	4	4
42.543	4	6
42.545	6	6
42.548	6	8
42.550	8	8
42.551	8	10
42.552	10	10
42.553	10	12
42.554	12	12

REDUCER

STRAIGHT UNION



Product No	Tubing O.D. mm	Tubing O.D. mm
42.233	6	4
42.238	8	6
42.243	10	8
42.248	12	10

STEM ADAPTER

MM - MM



Product No	Tubing O.D.mm	Stem O.D.mm
42.586	4	6
42.588	6	8
42.470	6	10
42.590	8	10
42.472	6	12
42.592	10	12

PO - MM



Product No	Tubing O.D. in ①	Stem O.D.mm ②
42.820	1/4	8
42.822	1/4	10
42.823	5/16	10
42.825	1/4	12
42.826	5/16	12
42.827	3/8	12

PLUG



Product No	O.D. mm
42.430	4
42.435	6
42.440	8
42.445	10
42.450	12

SPEED CONTROLLER

WITH FLOW CONTROL VALVE
THREADED ELBOW



Meter-out Product No	Meter-in Product No	Tubing O.D. mm	Thread (M) BSPT
42.902	42.903	4	M5*
42.904	42.905	4	1/8
42.908	42.909	6	M5*
42.910	42.911	6	1/8
42.912	42.913	6	1/4
42.916	42.917	8	1/8
42.918	42.919	8	1/4
42.920	42.921	8	3/8
42.922	42.923	8	1/2
42.924	42.925	10	1/4
42.926	42.927	10	3/8
42.930	42.931	12	3/8
42.932	42.933	12	1/2

* Metric thread

WITH FLOW CONTROL VALVE
STRAIGHT UNION



Meter-out Product No	Tubing O.D. mm
42.890	4
42.891	6
42.892	8
42.893	10
42.894	12

WITHOUT FLOW CONTROL VALVE
THREADED ELBOW



Product No	Tubing O.D. mm	Thread (M) BSPT
42.870	4	M5*
42.873	6	1/8
42.874	6	1/4
42.876	8	1/8
42.877	8	1/4
42.878	8	3/8
42.880	10	1/4
42.881	10	3/8
42.883	12	3/8
42.884	12	1/2

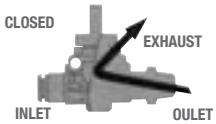
* Metric thread

MINIATURE HAND VALVE

STRAIGHT UNION



2-Way Product No	3-Way Product No	Tubing O.D. mm
42.070	42.060	4
42.071	42.061	6
42.073	42.063	8
42.074	42.064	10



The 2-Way miniature hand valve does not discharge the residual pressure

The 3-Way miniature hand valve, when closed, discharge residual pressure

S43 TOPFIT®
PUSH-TO-CONNECT FITTINGS
316 STAINLESS STEEL

Features and benefits

Quick Connect
One-piece fitting saves over 75 % of assembly time compared to standard compression fittings

Instantaneous connection/disconnection
Designed for fast assembly and disassembly without tools

Full-flow design
Provide up to 60 % more flow than compression fittings

Fully reusable
Designed to resist multiple connections and disconnections with leak-free operations and solid tube gripping

Positive seal
Proper insertion of the tubing in the fitting creates seal

Self-contained assembly
No loose parts or inserts

Applications

Compressed air, vacuum, food processing, chemical products, medical, manufacturing of semiconductors

Materials

Push-to-connect fittings made from components and materials that meet the FDA requirements (Food and Drug Administration)

Body and Ring: 316 Stainless Steel

Lock Claws: 316 Stainless Steel

O-Ring: FKM (fluoroelastomer)

Specifications

Working Pressure:
Fitting suitable for use up to maximum working pressure of plastic tubing used

Maximum Working Pressure: 217 PSI

Suitable for vacuum service: to 28" Hg

Working Temperature: -15 °to 120 °C

IN | NPT

MALE CONNECTOR
STRAIGHT



Product No	Tubing O.D. in	Thread (M) NPT
43.000	5/32	1/8
43.003	1/4	1/8
43.006	1/4	1/4
43.009	5/16	1/8
43.012	5/16	1/4
43.015	5/16	3/8
43.018	3/8	1/4
43.021	3/8	3/8
43.024	1/2	1/4
43.027	1/2	3/8
43.030	1/2	1/2

MALE ELBOW
SWIVEL



Product No	Tubing O.D. in	Thread (M) NPT
43.040	5/32	1/8
43.043	1/4	1/8
43.046	1/4	1/4
43.049	5/16	1/8
43.052	5/16	1/4
43.055	5/16	3/8
43.058	3/8	1/8
43.061	3/8	1/4
43.064	3/8	3/8
43.067	1/2	1/4
43.070	1/2	3/8
43.073	1/2	1/2

UNION

STRAIGHT



Product No	Tubing O.D. in
43.200	5/32
43.203	1/4
43.206	5/16
43.209	3/8
43.212	1/2

ELBOW



Product No	Tubing O.D. in
43.280	5/32
43.283	1/4
43.286	5/16
43.289	3/8
43.292	1/2

TEE



Product No	Tubing O.D. in
43.332	5/32
43.320	1/4
43.329	5/16
43.323	3/8
43.326	1/2

BULKHEAD



Product No	Tubing O.D. in
43.250	1/4
43.253	5/16
43.256	3/8
43.259	1/2

MALE BRANCH TEE

SWIVEL TEE



Product No	Tubing O.D. in	Thread (M) NPT
43.150	5/32	1/8
43.153	1/4	1/8
43.156	1/4	1/4
43.159	5/16	1/8
43.162	5/16	1/4
43.165	5/16	3/8
43.168	3/8	1/4
43.171	3/8	3/8
43.174	1/2	1/4
43.177	1/2	3/8
43.180	1/2	1/2

SWIVEL RUN TEE



Product No	Tubing O.D. in	Thread (M) NPT
43.090	5/32	1/8
43.093	1/4	1/8
43.096	1/4	1/4
43.099	5/16	1/8
43.102	5/16	1/4
43.105	5/16	3/8
43.108	3/8	1/8
43.111	3/8	1/4
43.114	3/8	3/8
43.117	1/2	1/4
43.120	1/2	3/8
43.123	1/2	1/2

STEM ADAPTOR
IN - IN



Product No	Tubing O.D. in ①	Stem O.D. in ②
43.230	5/32	1/4
43.233	1/4	3/8
43.236	5/16	3/8
43.239	3/8	1/2

S43 TOPFIT® STAINLESS STEEL 316 — MM | BSPT

MALE CONNECTOR

STRAIGHT



Product No	Tubing O.D. mm	Thread (M) BSPT
43.500	4	M5*
43.503	4	1/8
43.506	6	M5*
43.509	6	1/8
43.512	6	1/4
43.515	8	1/8
43.518	8	1/4
43.521	10	1/4
43.524	10	3/8
43.527	12	3/8
43.530	12	1/2
43.533	16	1/2

*Metric thread

HEXAGONAL HOLE



Product No	Tubing O.D. mm	Thread (M) BSPT
43.880	4	M5*
43.883	4	1/8
43.886	6	M5*
43.889	6	1/8
43.892	6	1/4
43.895	8	1/8
43.898	8	1/4
43.901	10	1/4
43.904	10	3/8
43.907	12	3/8
43.910	12	1/2
43.913	16	1/2

*Metric thread

- Allen key type mounting
- Specifically designed for mounting in close proximity to one another

MALE ELBOW

SWIVEL



Product No	Tubing O.D. mm	Thread (M) BSPT
43.540	4	M5*
43.543	4	1/8
43.546	6	M5*
43.549	6	1/8
43.552	6	1/4
43.555	8	1/8
43.558	8	1/4
43.561	10	1/4
43.564	10	3/8
43.567	12	3/8
43.570	12	1/2
43.573	16	1/2

*Metric thread

MALE BRANCH TEE

SWIVEL



Product No	Tubing O.D. mm	Thread (M) BSPT
43.590	4	1/8
43.593	6	M5*
43.596	6	1/8
43.599	6	1/4
43.602	8	1/8
43.605	8	1/4
43.608	10	1/4
43.611	10	3/8
43.614	12	3/8
43.617	12	1/2
43.620	16	1/2

*Metric thread

UNION

STRAIGHT



Product No	Tubing O.D. mm
43.700	4
43.703	6
43.706	8
43.709	10
43.712	12
43.715	16

ELBOW



Product No	Tubing O.D. mm
43.780	4
43.783	6
43.786	8
43.789	10
43.792	12
43.795	16

TEE



Product No	Tubing O.D. mm
43.820	4
43.823	6
43.826	8
43.829	10
43.832	12
43.835	16

BULKHEAD

Product No	Tubing O.D. mm
43.745	4
43.747	6
43.748	8
43.749	10
43.751	12
43.753	16

REDUCER

UNION



Product No	Tubing O.D. mm ①	Tubing O.D. mm ②
43.730	4	6
43.733	6	8
43.736	8	10
43.739	10	12
43.742	12	16

STEM ADAPTOR

MM - MM



Product No	Tubing O.D. mm ①	Stem O.D. mm ②
43.720	4	6
43.723	6	8
43.726	8	10



S44•S46
MAXFIT®
PUSH-TO-CONNECT FITTINGS
POLYMER

Features and benefits

Quick connect design
One-piece fitting saves over 75 % of assembly time compared to standard compression fittings

Compact design
Allows fittings to be closely mounted

Optimum flow
No part of the fitting goes inside the tubing - unrestricted tubing I.D. allows for maximum airflow

Quick and easy connection
Wide release collar allows fast and trouble-free tubing removal

Instantaneous connection / disconnection
Designed for fast assembly, disassembly and reassembly without tools

Fully reusable
Designed for multiple connections and disconnections with leak-free operations and solid tubing gripping

Tubing size identification
Tubing diameter indicated on release collar

Corrosion resistant threaded fittings
All threaded fittings are made of nickel-plated brass

Applications

Compressed air and vacuum

Materials

Body: Polymer (PBT)

Release Collar: Polyacetal resin

Threaded Body: Nickel-plated brass

Lock Claws: Stainless steel

O-Ring: Buna-N

Needle: Nickel-plated brass

Lock Nut: Aluminium

Elastic Sleeve: Nitrile rubber

Adjusting Screw: Nickel-plated brass

Specifications

Maximum Working Pressure: 150 PSI

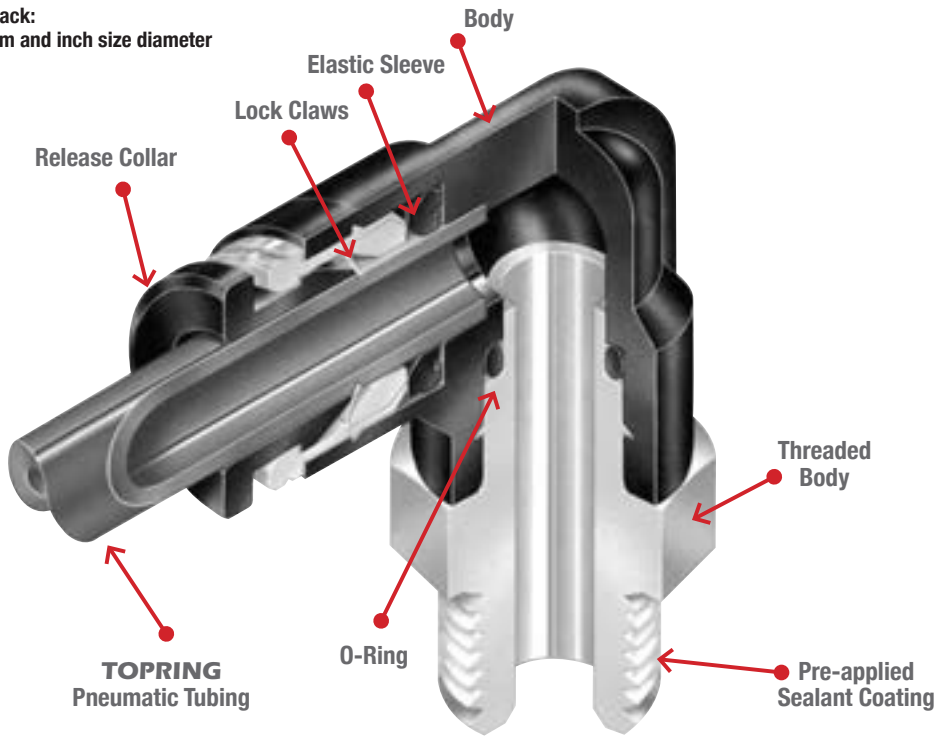
Working Temperature: 0 °C to 60 °C

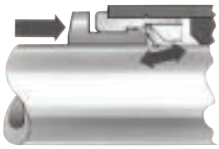
NPT Thread / series 44:
Tubing diameter in inches (imperial)

BSPT Thread / series 46:
Tubing diameter in millimeters (metric)

Release collar colors

Black:
mm and inch size diameter





POSITIVE GRIPPING ACTION

Stainless steel lock claws hold the tubing securely without damaging its surface

Vibration and pressure surges are safely absorbed to prevent accidental disconnections



PERFECT SEAL

A nitrile rubber elastic sleeve guarantees a perfect seal between standard O.D. tubing and the body of the fitting



READY-TO-USE THREADS

Male threads have a pre-applied sealant which allows the fitting to be reused up to five times without the need for additional sealants



SWIVEL

Swivel elbows and tees can be oriented after installation for a perfect alignment with the tubing

S44 MAXFIT® | POLYMER | IN | NPT

MALE CONNECTOR

STRAIGHT



Product No	Tubing O.D. in	Thread (M) NPT
44.101	1/8	10-32 ◇
44.105	1/8	1/8
44.115	5/32	10-32 ◇
44.120	5/32	1/8
44.125	5/32	1/4
44.128	1/4	10-32 ◇
44.130	1/4	1/8
44.135	1/4	1/4
44.140	1/4	3/8
44.145	5/16	1/8
44.150	5/16	1/4
44.155	5/16	3/8
44.159	3/8	1/8
44.160	3/8	1/4
44.165	3/8	3/8
44.170	3/8	1/2
44.175	1/2	1/4
44.180	1/2	3/8
44.185	1/2	1/2

10-32 ◇: (M) UNF

HEXAGONAL HOLE



Product No	Tubing O.D. in	Thread (M) NPT
44.047	5/32	1/8
44.048	1/4	1/8
44.049	1/4	1/4
44.053	5/16	1/8
44.054	5/16	1/4
44.057	3/8	1/4
44.059	3/8	3/8

- Allen key type mounting
- Specifically designed for mounting in close proximity to one another

« Y »



Product No	Tubing O.D. in	Thread (M) NPT
44.720	1/4	1/8
44.725	1/4	1/4
44.750	3/8	1/4
44.755	3/8	3/8

FEMALE CONNECTOR

STRAIGHT



Product No	Tubing O.D. in	Thread (F) NPT
44.801	1/8	1/8
44.802	5/32	1/8
44.804	1/4	1/8
44.805	1/4	1/4
44.807	5/16	1/4
44.809	3/8	1/4
44.812	1/2	3/8

BULKHEAD



Product No	Tubing O.D. in	Thread (F) NPT
44.633	1/4	1/8
44.635	1/4	1/4
44.637	5/16	3/8
44.638	5/16	1/4
44.639	3/8	1/4
44.640	3/8	3/8
44.641	1/2	3/8
44.642	1/2	1/2

UNION

STRAIGHT



Product No	Tubing O.D. in
44.190	1/8
44.195	5/32
44.200	1/4
44.205	5/16
44.210	3/8
44.215	1/2

ELBOW



Product No	Tubing O.D. in
44.304	1/8
44.305	5/32
44.310	1/4
44.315	5/16
44.320	3/8
44.325	1/2

TEE



Product No	Tubing O.D. in
44.420	1/8
44.425	5/32
44.430	1/4
44.435	5/16
44.440	3/8
44.445	1/2

« Y »



Product No	Tubing O.D. in
44.535	1/8
44.540	5/32
44.545	1/4
44.550	5/16
44.552	3/8
44.554	1/2

BULKHEAD



Product No	Tubing O.D. in
44.650	5/32
44.655	1/4
44.660	5/16
44.665	3/8

MALE ELBOW

SWIVEL



Product No	Tubing O.D. in	Thread (M) NPT
44.218	1/8	10-32 ◇
44.225	1/8	1/8
44.235	5/32	10-32 ◇
44.240	5/32	1/8
44.245	5/32	1/4
44.248	1/4	10-32 ◇
44.250	1/4	1/8
44.255	1/4	1/4
44.260	1/4	3/8
44.265	5/16	1/8
44.270	5/16	1/4
44.271	5/16	3/8
44.273	3/8	1/8
44.275	3/8	1/4
44.280	3/8	3/8
44.285	3/8	1/2
44.290	1/2	1/4
44.295	1/2	3/8
44.300	1/2	1/2

10-32 ◇: (M) UNF

REDUCER

STRAIGHT UNION



Product No	Tubing O.D. in	Tubing O.D. in
44.198	1/4	5/32
44.203	5/16	1/4
44.208	3/8	5/16
44.204	1/4	3/8
44.213	1/2	3/8

TEE



Product No	Tubing O.D. in ①	Tubing O.D. in ②
44.576	5/16	1/4
44.577	3/8	1/4
44.579	1/2	3/8

STEM ADAPTOR

IN - IN



Product No	Tubing O.D. in ①	Stem O.D. in ②
44.580	5/32	1/4
44.582	1/4	5/16
44.583	1/4	3/8
44.587	3/8	1/2

S44 MAXFIT® | POLYMER | IN | NPT

MALE BRANCH TEE

SWIVEL



Product No	Tubing O.D. in	Thread (M) NPT
44.343	5/32	10-32 ◇
44.345	5/32	1/8
44.360	1/4	1/8
44.365	1/4	1/4
44.370	1/4	3/8
44.375	5/16	1/8
44.380	5/16	1/4
44.385	5/16	3/8
44.390	3/8	1/4
44.395	3/8	3/8
44.405	1/2	1/4
44.410	1/2	3/8
44.415	1/2	1/2

10-32 ◇: (M) UNF

SWIVEL RUN TEE



Product No	Tubing O.D. in	Thread (M) NPT
44.475	1/4	1/8
44.480	1/4	1/4
44.495	5/16	1/4
44.505	3/8	1/4
44.510	3/8	3/8

MINIATURE HAND VALVE

STRAIGHT UNION



3-Way Product No	Tubing O.D. in
44.070	1/4
44.073	3/8
44.075	1/2

The 3-Way miniature hand valve, when closed, discharges residual pressure

SPEED CONTROLLER

WITH FLOW CONTROL VALVE THREADED ELBOW



Meter-out Product No	Meter-in Product No	Tubing O.D. in	Thread (M) NPT
44.902	44.903	1/4	10-32 ◇
44.904	44.905	1/4	1/8
44.908	44.909	1/4	1/4
44.910	44.911	3/8	1/4
44.912	44.913	3/8	3/8

10-32 ◇: (M) UNF

WITH FLOW CONTROL VALVE THREADED ELBOW



Precise adjustment with screwdriver

Meter-out Product No	Tubing O.D. in	Thread (M) NPT
44.962	1/4	1/8
44.964	1/4	1/4
44.974	3/8	1/4
44.975	3/8	3/8

WITH FLOW CONTROL VALVE STRAIGHT UNION



Meter-out Product No	Tubing O.D. in
44.950	5/32
44.952	1/4
44.954	5/16
44.956	3/8
44.958	1/2

WITHOUT FLOW CONTROL VALVE THREADED ELBOW



Product No	Tubing O.D. in	Thread (M) NPT
44.870	1/4	10-32 ◇
44.871	1/4	1/8
44.872	1/4	1/4
44.878	3/8	1/4
44.879	3/8	3/8
44.883	1/2	1/2

10-32 ◇: (M) UNF

PLUG



Product No	O.D. in
44.675	1/8
44.680	5/32
44.685	1/4
44.690	5/16
44.695	3/8
44.700	1/2

CHECK VALVE

UNION

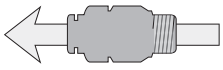


Product No	O.D. in
44.986	1/4

The safety valve allows free flow from the inlet and blocks flow in the reverse direction

The check valve allows free flow from the inlet and blocks flow in the reverse direction

FREE FLOW



S46 MAXFIT® | POLYMER | MM | BSPT

MALE CONNECTOR

STRAIGHT



Product No	Tubing O.D. mm	Thread (M) BSPT
46.100	4	M5*
46.105	4	1/8
46.110	4	1/4
46.115	6	M5*
46.116	6	M6*
46.130	6	1/8
46.135	6	1/4
46.136	6	3/8
46.140	8	1/8
46.145	8	1/4
46.150	8	3/8
46.151	8	1/2
46.155	10	1/4
46.160	10	3/8
46.161	10	1/2
46.163	12	1/4
46.165	12	3/8
46.170	12	1/2

*Metric thread

HEXAGONAL HOLE



Product No	Tubing O.D. mm	Thread (M) BSPT
46.039	4	M5*
46.041	4	1/8
46.040	4	1/4
46.038	6	M5*
46.042	6	1/8
46.043	6	1/4
46.044	8	1/8
46.045	8	1/4
46.046	8	3/8
46.047	10	1/4
46.048	10	3/8

*Metric thread

- Allen key type mounting
- Specifically designed for mounting in close proximity to one another

« Y »



Product No	Tubing O.D. mm	Thread (M) BSPT
46.710	4	1/8
46.715	4	1/4
46.720	6	1/8
46.725	6	1/4
46.740	8	1/4
46.745	8	3/8
46.750	8	1/2

PLUG



Product No	O.D. mm
46.430	4
46.435	6
46.440	8
46.445	10
46.450	12

MALE ELBOW

SWIVEL



Product No	Tubing O.D. mm	Thread (M) BSPT
46.595	4	M5*
46.600	4	1/8
46.603	4	1/4
46.613	6	M5*
46.615	6	1/8
46.620	6	1/4
46.623	6	3/8
46.625	8	1/8
46.630	8	1/4
46.632	8	3/8
46.631	8	1/2
46.635	10	1/4
46.636	10	3/8
46.634	10	1/2
46.637	12	1/4
46.638	12	3/8
46.639	12	1/2

*Metric thread

MALE BRANCH TEE

SWIVEL



Product No	Tubing O.D. mm	Thread (M) BSPT
46.645	4	1/8
46.646	4	1/4
46.660	6	1/8
46.662	6	1/4
46.670	8	1/8
46.675	8	1/4
46.676	8	3/8
46.679	10	1/8
46.680	10	1/4
46.681	10	3/8

UNION

STRAIGHT



Product No	Tubing O.D. mm
46.230	4
46.235	6
46.240	8
46.245	10
46.250	12

ELBOW



Product No	Tubing O.D. mm
46.260	4
46.270	6
46.275	8
46.280	10
46.285	12

TEE



Product No	Tubing O.D. mm
46.295	4
46.305	6
46.310	8
46.315	10
46.320	12

« Y »



Product No	Tubing O.D. mm
46.540	4
46.545	6
46.550	8
46.552	10

BULKHEAD



Product No	Tubing O.D. mm
46.560	4
46.570	6
46.575	8
46.580	10

REDUCER

STRAIGHT



Product No	Tubing O.D. mm	Tubing O.D. mm
46.233	4	6
46.238	6	8
46.243	8	10

STEM ADAPTOR

MM - MM



Product No	① Tubing O.D.mm	② Stem O.D.mm
46.585	4	6
46.586	6	8
46.587	8	10
46.588	10	12

SPEED CONTROLLER

WITH FLOW CONTROL VALVE THREADED ELBOW



Meter-out No de produit	Meter-in No de produit	Tubing D.E. mm	Thread (M) BSPT
46.904	--	4	1/8
46.906	--	4	1/4
46.908	46.909	6	M5*
46.910	46.911	6	1/8
46.912	--	6	1/4
46.914	46.917	8	1/8
46.916	46.919	8	1/4
46.918	--	8	3/8
46.920	--	8	1/2

*Metric thread

WITH FLOW CONTROL VALVE STRAIGHT UNION



Meter-out Product No	Tubing O.D.mm
46.952	4
46.954	6
46.956	8
46.958	10

TOPFIT® / MAXFIT®

CABINET OFFER WITH A SELECTION OF MOSTLY USED PUSH-TO-CONNECT FITTINGS

Each offer includes :

- Selection of mostly used polymer push-to-connect fittings for each Series
- Cabinet of 20 drawers or 60 drawers
- Stickers with product code and description plus product picture

Cabinet dimensions (in)
20 drawers: L 23 x H 14 x D 8.75
60 drawers: L 23 x H 37 x D 8.75



Product No	Description	Series	Tubing diameter and thread	Cabinet
TOPFIT cabinets				
95.017.02	840 products / 64 skews	40	in / NPT	60 drawers
95.017A.02	1055 products / 64 skews	40	in / NPT	60 drawers
95.012.02	320 products / 32 skews	42	mm / BSPT	20 drawers
MAXFIT cabinets				
95.017	840 products / 64 skews	44	in / NPT	60 drawers
95.017A	1055 products / 64 skews	44	in / NPT	60 drawers
95.012	320 products / 32 skews	46	mm / BSPT	20 drawers

TOPRING push-to-connect fittings and pneumatic tubing posters



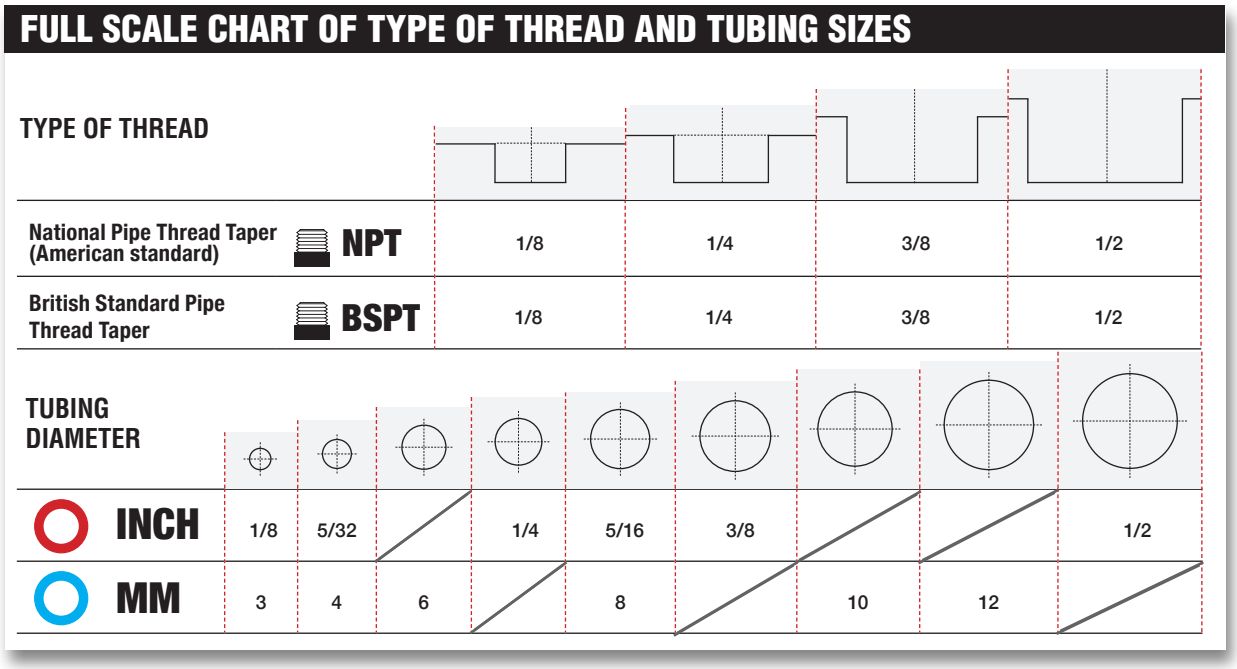


Dimensions (in)
Open size: 33 x 34
Folded size: 8.5 x 11

Product No	Description
96.938.08	French poster
96.939.08	English poster

S39
PUSH-TO-CONNECT FITTINGS

FULL SCALE CHART OF TYPE OF THREAD AND TUBING SIZES



S80
AIR CONTROL VALVES



S80

AIR CONTROL VALVES INTRODUCTION

AIR CONTROL VALVE SYMBOLS

The workings of an air control valve can be determined by the symbol printed on the valve. All air control valves have this symbol on the valve body and these symbols are also included in this catalogue.

The number of squares in the symbol will determine the number of positions for the valve. The square containing arrows and either letters or numbers is the « normal », or « initial » position of the valve; this is the position the valve will default to when connected to the air supply.

The other square (or squares) indicates how the valve reacts when another position is reached. The arrows indicate the flow direction of air.

3/2

3 WAYS, 2 POSITIONS VALVES

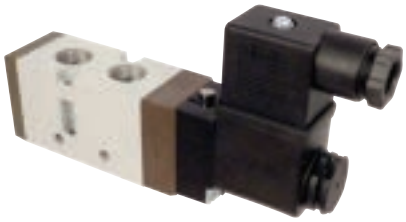
Used to activate single acting cylinders



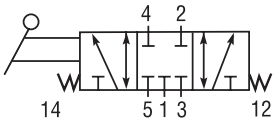
5/2 • 5/3 • 4/3

4 OR 5 WAYS, 2 AND 3 POSITIONS VALVES

Used to activate double acting cylinders



Basic symbols for typical valve types

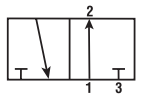


Port identification

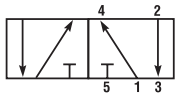
1	Supply pressure inlet
2 - 4	Working Ports
3 - 5	Exhaust
12	Return Type
14	Control

Examples of symbols

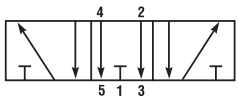
3 ways - 2 positions



5 ways - 2 positions



5 ways - 3 positions



COEFFICIENT OF VELOCITY

The Cv factor, or coefficient of velocity, is a method of indicating the flow capacity of different valves, independent of supply pressure, pressure loss or temperature. The higher the Cv factor, the higher the airflow capacity of the valve.

This Cv factor can be calculated as follows:

Cv = Q x Fc
Q = Cv / Fc

Fc table for air at 20 °C and pressure loss of 10 PSI (for standard application)

Pressure, inlet (PSIG)	20	30	40	50	60	70	80	90	100	110	120
Fc factor	0.0650	0.0549	0.0483	0.0437	0.0402	0.0374	0.0351	0.0332	0.0316	0.0302	0.0289

Fc table for air at 20 °C and pressure loss of 5 PSI (for conservative application)

Pressure, inlet (PSIG)	20	30	40	50	60	70	80	90	100	110	120
Fc factor	0.0839	0.0725	0.0648	0.0591	0.0547	0.0512	0.0483	0.0458	0.0436	0.0418	0.0401

Fc table for air at 20 °C and pressure loss of 2 PSI (for critical application)

Pressure, inlet (PSIG)	20	30	40	50	60	70	80	90	100	110	120
Fc factor	0.1264	0.1106	0.0995	0.0913	0.0847	0.0795	0.0751	0.0713	0.0681	0.0652	0.0627

Example: 1/4" NPT valve, Cv = 0.8
100 psig operating pressure

will have a flow "Q" of:

Q = 25.3 scfm if δP of 10 psi is acceptable
Q = 18.3 scfm if δP of 5 psi is acceptable
Q = 11.7 scfm if δP of 2 psi is acceptable

Q= flow (scfm), P= inlet valve pressure (psig), **δP**= pressure loss (psi), **Cv**= coefficient of velocity, **Fc**= conversion factor
* In the metric system, Kv coefficient is used, its equivalence is: Cv = 1.16*Kv

S80

VALVE TYPES

MECHANICAL



Direct plunger operated

A “maintained” mechanical force applied to the plunger shifts the valve. When the force is removed, the valve returns to its normal position.



Roller operated

These valves actuate from both directions. A “maintained” mechanical force to the roller shifts the valve. When the force is removed, the valve returns to its normal position.

HAND OPERATED



Button operated (spring return)

Pushing and holding the button shifts the spring return valve. When the button is released, the valve returns to its normal position.



Lever operated (spring return)

Pushing the lever shifts the spring return valve. When the lever is released, the valve returns to its normal position.



Button operated (detented)

Pushing the button shifts the manual return valve. The valve remains in this position until the button is pulled back.



Lever operated (detented)

Pushing the lever shifts the manual return valve. The valve remains in this position until the lever is pulled back.



Twist selector operated

Twisting the lever shifts the valve. The valve remains in this position until the lever is twisted back.



Lateral lever operated (detented)

Pushing the lever shifts the valve. The valve remains in this position until the lever is pulled back.



Palm button operated

Pushing and holding the button shifts the valve. When the button is released, the valve returns to its normal position.



Rotary lever (detented)

The valve is actuated by rotating the lever which remains in the desired position until the handle is repositioned again.



Flush push-button operated

Pushing and holding the button shifts the valve. When the button is released, the valve returns to its normal position. Can be panel mounted through a round mounting hole.

FOOT PEDAL



(spring return)

Pressing and holding the pedal shifts the spring return valve. When the pedal is released, the valve returns to its normal position

(detented)

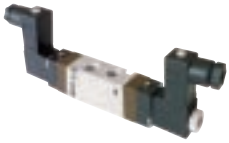
Pressing the primary pedal shifts the detented valve. When the release pedal is pressed, the valve returns to its normal position.

SOLENOID



Single solenoid

A “maintained” electrical signal shifts the single solenoid valve. When the signal is removed, the valve returns to its normal position. These valves can be used to provide pilot signals for larger valves.



Double solenoid

A “momentary” electrical signal applied to one of the solenoids shifts the double solenoid valve. The valve remains in this position until a “momentary” signal is applied to the other solenoid. A “maintained” electrical signal applied alternately to the solenoids shifts the 3 position double solenoid valve. When the signal is removed, springs return the valve to its center position.

PNEUMATIC



Single remote pilot

A “maintained” pressure signal shifts single pilot valve. When the signal is removed, the valve returns to its normal position.



Double remote pilot

A “momentary” pressure applied to one pilot section shifts the double pilot valve. The valve remains in this position until a “momentary” pressure signal is applied to the other pilot section.

3/2

	OPTIMA 15 000 000 cycles			MAXPRO 10 000 000 cycles		
	NPT	Cv	Product No	NPT	Cv	Product No
PALM BUTTON OPERATED	1/8	0.58	80.802			
	1/4	0.89	80.902	1/4	0.89	80.702
DIRECT PLUNGER OPERATED	1/4	0.89	80.900			
FLUSH PUSH-BUTTON OPERATED	1/4	0.89	80.903			
BUTTON OPERATED (SPRING RETURN)				1/8	1.00	80.805
	1/4	1.00	80.827	1/4	1.00	80.905
BUTTON OPERATED (DETENTED)				1/8	1.00	80.806
	1/4	1.00	80.828	1/4	1.00	80.906
ROLLER OPERATED	1/8	0.58	80.801			
	1/4	0.89	80.901	1/4	0.89	80.701
TWIST SELECTOR OPERATED	1/8	0.58	80.804			
	1/4	0.89	80.904	1/4	0.89	80.704
LEVER OPERATED (SPRING RETURN)				1/8	1.00	80.817
	1/4	1.00	80.831	1/4	1.00	80.917
LEVER OPERATED (DETENTED)				1/8	1.00	80.807
	1/4	1.00	80.832	1/4	1.00	80.907
LATERAL LEVER OPERATED (DETENTED)	1/8	0.50	80.818			
	1/4	1.0	80.918			
FOOT PEDAL OPERATED (SPRING RETURN)						
	1/4	0.67	80.908			
FOOT PEDAL OPERATED (DETENTED)						
	1/4	0.67	80.909			
SINGLE REMOTE PILOT	1/4	1.06	80.992			
ELECTRICAL SINGLE SOLENOID (NF): NORMALLY CLOSED (NO): NORMALLY OPEN	1/8	0.70	(NF) (NO) **80.950** • **80.951** (110 VAC) **80.950.02** • **80.951.02** (220 VAC) **80.950.03** • **80.951.03** (24 VDC) **80.950.04** • **80.951.04** (24 VAC) **80.950.05** • **80.951.05** (12 VDC)	1/8	0.67	(NF) **80.750** (110 VAC) **80.750.03** (24 VDC)
	1/4	1.06	(NF) (NO) **80.952** • **80.953** (110 VAC) **80.952.02** • **80.953.02** (220 VAC) **80.952.03** • **80.953.03** (24 VDC) **80.952.04** • **80.953.04** (24 VAC) **80.952.05** • **80.953.05** (12 VDC)	1/8	0.70	(NF) (NO) **80.950** • **80.951** (110 VAC) **80.950.02** • **80.951.02** (220 VAC) **80.950.03** • **80.951.03** (24 VDC) **80.950.04** • **80.951.04** (24 VAC) **80.950.05** • **80.951.05** (12 VDC)
	1/2	3.61	**80.966** (110 VAC) **80.966.02** (220 VAC) **80.966.03** (24 VDC) **80.966.04** (24 VAC) **80.966.05** (12 VDC)			

5/2	OPTIMA 15 000 000 cycles				MAXPRO 10 000 000 cycles			
		NPT	Cv	Product No		NPT	Cv	Product No
PALM BUTTON OPERATED		1/4	1.06	80.912		1/4	1.00	80.712
DIRECT PLUNGER OPERATED		1/4	1.06	80.910				
FLUSH PUSH-BUTTON OPERATED		1/4	1.06	80.913				
BUTTON OPERATED (SPRING RETURN)		1/8	0.75	80.825		1/8	1.00	80.815
		1/4	0.75	80.829		1/4	1.00	80.915
BUTTON OPERATED (DETENTED)		1/8	0.75	80.826		1/8	1.00	80.816
		1/4	0.75	80.830		1/4	1.00	80.916
ROLLER OPERATED		1/8	0.70	80.811				
		1/4	1.06	80.911				
TWIST SELECTOR OPERATED		1/8	0.70	80.814				
		1/4	1.06	80.914		1/4	1.00	80.714
LEVER OPERATED (SPRING RETURN)		1/4	1.00	80.935		1/4	1.00	80.925
		3/8	1.94	80.945				
		1/2	5.00	80.845				
LEVER OPERATED (DETENTED)		1/8	0.75	80.836				
		1/4	1.00	80.936		1/4	1.00	80.926
		3/8	1.94	80.946		3/8	1.94	80.746
		1/2	5.00	80.846				
LATERAL LEVER OPERATED (DETENTED)		1/8	0.50	80.820				
		1/4	1.00	80.920				
FOOT PEDAL (SPRING RETURN)		1/4	0.67	80.942				
FOOT PEDAL (DETENTED)		1/4	0.67	80.943				
FOOT PEDAL (SPRING RETURN)		1/4	1.00	80.940				
		3/8	1.94	80.941				
SINGLE REMOTE PILOT		1/8	0.75	80.979				
		1/4	1.06	80.982		1/4	1.00	80.782
		3/8	2.00	80.986				
		1/2	3.61	80.989				
DOUBLE REMOTE PILOT		1/8	0.75	80.980				
		1/4	1.06	80.983		1/4	1.00	80.783
		3/8	2.00	80.987				
		1/2	3.61	80.990				

5/2

OPTIMA — 15 000 000 cycles

		NPT	Cv	Product No
ELECTRICAL SINGLE SOLENOID		1/8	0.70	**80.954** (110 VAC) **80.954.02** (220 VAC) **80.954.03** (24 VDC) **80.954.04** (24 VAC) **80.954.05** (12 VDC)
		1/4	1.06	**80.960** (110 VAC) **80.960.02** (220 VAC) **80.960.03** (24 VDC) **80.960.04** (24 VAC) **80.960.05** (12 VDC)
		3/8	2.00	**80.970** (110 VAC) **80.970.02** (220 VAC) **80.970.03** (24 VDC) **80.970.04** (24 VAC) **80.970.05** (12 VDC)
		1/2	3.61	**80.974** (110 VAC) **80.974.02** (220 VAC) **80.974.03** (24 VDC) **80.974.04** (24 VAC) **80.974.05** (12 VDC)
ELECTRICAL DOUBLE SOLENOID		1/8	0.70	**80.955** (110 VAC) **80.955.02** (220 VAC) **80.955.03** (24 VDC) **80.955.04** (24 VAC) **80.955.05** (12 VDC)
		1/4	1.06	**80.961** (110 VAC) **80.961.02** (220 VAC) **80.961.03** (24 VDC) **80.961.04** (24 VAC) **80.961.05** (12 VDC)
		3/8	2.00	**80.971** (110 VAC) **80.971.02** (220 VAC) **80.971.03** (24 VDC) **80.971.04** (24 VAC) **80.971.05** (12 VDC)
		1/2	3.61	**80.975** (110 VAC) **80.975.02** (220 VAC) **80.975.03** (24 VDC) **80.975.04** (24 VAC) **80.975.05** (12 VDC)

MAXPRO — 10 000 000 cycles

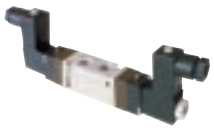
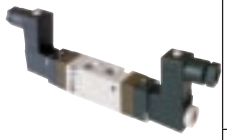
		NPT	Cv	Product No
		1/8	0.61	**80.760** (110 VAC) **80.760.03** (24 VDC)
		1/4	1.00	**80.761** (110 VAC) **80.761.03** (24 VDC)
		3/8	1.94	**80.762** (110 VAC) **80.762.03** (24 VDC)
		1/2	3.89	**80.763** (110 VAC) **80.763.03** (24 VDC)
		1/8	0.61	**80.765** (110 VAC) **80.765.03** (24 VDC)
		1/4	1.00	**80.766** (110 VAC) **80.766.03** (24 VDC)
		3/8	1.94	**80.767** (110 VAC) **80.767.03** (24 VDC)

5/2

MAXPRO STAINLESS STEEL

		NPT	Cv	Product No
ELECTRICAL SINGLE SOLENOID		1/4	1.94	**80.870** (110 VAC) **80.870.02** (220 VAC) **80.870.03** (24 VDC)
		3/8	3.61	**80.875** (110 VAC) **80.875.02** (220 VAC) **80.875.03** (24 VDC)
ELECTRICAL DOUBLE SOLENOID		1/4	1.94	**80.871** (110 VAC) **80.871.02** (220 VAC) **80.871.03** (24 VDC)
		3/8	3.61	**80.876** (110 VAC) **80.876.02** (220 VAC) **80.876.03** (24 VDC)

5/3

		OPTIMA 15 000 000 cycles				MAXPRO 10 000 000 cycles		
		NPT	Cv	Product No		NPT	Cv	Product No
LEVER OPERATED (SPRING RETURN) (CF): CLOSED CENTER (CE): OPEN CENTER AT THE EXHAUST (CP): OPEN CENTER AT THE PRESSURE		1/4 (CF)	1.00	80.937		1/4 (CF)	1.94	80.923
		3/8 (CF)	1.94	80.947		3/8 (CF)	1.94	80.919
		1/2 (CF)	5.00	80.847				
		1/4 (CE)	1.00	80.938		1/4 (CE)	1.94	80.924
		3/8 (CE)	1.94	80.948				
		1/2 (CE)	5.00	80.848				
LEVER OPERATED (DETENTED) (CF): CLOSED CENTER (CE): OPEN CENTER AT THE EXHAUST		1/4 (CF)	1.00	80.921		1/4 (CF)	1.94	80.927
		3/8 (CF)	1.94	80.933		3/8 (CF)	1.94	80.929
		1/2 (CF)	5.00	80.833				
		1/4 (CE)	1.00	80.922		1/4 (CE)	1.94	80.928
		3/8 (CE)	1.94	80.934				
		1/2 (CE)	5.00	80.834				
ROTARY LEVER (DETENTED) (CF): CLOSED CENTER		1/4 (CF)	0.42	80.930				
		3/8 (CF)	1.11	80.931				
		1/2 (CF)	3.06	80.932				
DOUBLE REMOTE PILOT (CF): CLOSED CENTER		1/4 (CF)	0.64	80.984				
		3/8 (CF)	1.67	80.988				
ELECTRICAL DOUBLE SOLENOID (CF): CLOSED CENTER		1/8 (CF)	0.50	80.956 (110 VAC) 80.956.02 (220 VAC) 80.956.03 (24 VDC) 80.956.04 (24 VAC) 80.956.05 (12 VDC)				
		1/4 (CF)	0.64	80.962 (110 VAC) 80.962.02 (220 VAC) 80.962.03 (24 VDC) 80.962.04 (24 VAC) 80.962.05 (12 VDC)				
		3/8 (CF)	1.67	80.972 (110 VAC) 80.972.02 (220 VAC) 80.972.03 (24 VDC) 80.972.04 (24 VAC) 80.972.05 (12 VDC)				
		1/2 (CF)	2.78	80.976 (110 VAC) 80.976.02 (220 VAC) 80.976.03 (24 VDC) 80.976.04 (24 VAC) 80.976.05 (12 VDC)				
ELECTRICAL DOUBLE SOLENOID (CE): OPEN CENTER AT THE EXHAUST		1/8 (CE)	0.50	80.957 (110 VAC) 80.957.02 (220 VAC) 80.957.03 (24 VDC) 80.957.04 (24 VAC) 80.957.05 (12 VDC)				
		1/4 (CE)	0.64	80.963 (110 VAC) 80.963.02 (220 VAC) 80.963.03 (24 VDC) 80.963.04 (24 VAC) 80.963.05 (12 VDC)				
		3/8 (CE)	1.67	80.973 (110 VAC) 80.973.02 (220 VAC) 80.973.03 (24 VDC) 80.973.04 (24 VAC) 80.973.05 (12 VDC)				

S80
OPTIMA VALVES

OPTIMA air control valves offer high flow performance and reliability.

15 000 000 CYCLES

Features and benefits

- Compact size
- High flow
- Quick response
- Highly reliable spool technology
- 3 and 5 ways, 2 and 3 positions
- Designed for in-line or bar manifolding

Materials

Body, End Caps:
Anodized aluminium

Seals: Rubber nitrile

Spool: Aluminium

Other Internal Parts:
Stainless steel, brass, aluminium

Specifications

Fluid: Compressed air (lubricated and oil free)
Excepted rotary lever valve: filtered air (5 micron)

Working Pressure:

Mechanical and hand control valves: 0 to 116 PSI
Excepted 80.818/80.820: 29 to 145 PSI

Rotary lever valve: 0 to 145 PSI

Foot pedal valves: 80.908/80.909/80.942/80.943: 0 to 128 PSI
80.940/80.941/80.932: 22 to 116 PSI

Solenoid and pneumatic valves: 22 to 145 PSI
Excepted 80.984/80.988: 29 to 145 PSI

Working Temperature: 5 to 60 °C

Excepted 80.908/80.909/80.942/80.943: -10 to 60 °C



S80 OPTIMA
MECHANICAL VALVES

DIRECT PLUNGER OPERATED



3/2



Product No	Port Size (F) NPT	Way / Position
80.900	1/4	3/2



5/2



Product No	Port Size (F) NPT	Way / Position
80.910	1/4	5/2

ROLLER OPERATED



3/2



Product No	Port Size (F) NPT	Way / Position
80.801	1/8	3/2
80.901	1/4	3/2



5/2



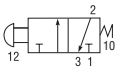
Product No	Port Size (F) NPT	Way / Position
80.811	1/8	5/2
80.911	1/4	5/2

HAND CONTROL VALVES

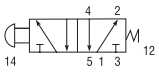
BUTTON OPERATED (SPRING RETURN)



3/2



5/2

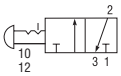


Product No	Port Size (F) NPT	Way / Position
80.827	1/4	3/2
80.825	1/8	5/2
80.829	1/4	5/2

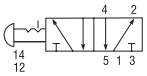
BUTTON OPERATED (DETENTED)



3/2



5/2

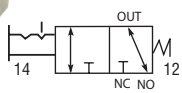


Product No	Port Size (F) NPT	Way / Position
80.828	1/4	3/2
80.826	1/8	5/2
80.830	1/4	5/2

TWIST SELECTOR OPERATED



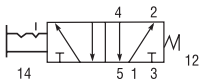
3/2



Product No	Port Size (F) NPT	Way / Position
80.804	1/8	3/2
80.904	1/4	3/2



5/2



Product No	Port Size (F) NPT	Way / Position
80.814	1/8	5/2
80.914	1/4	5/2

PALM BUTTON OPERATED



3/2



Product No	Port Size (F) NPT	Way / Position
80.802	1/8	3/2
80.902	1/4	3/2



5/2



Product No	Port Size (F) NPT	Way / Position
80.912	1/4	5/2

FLUSH PUSH-BUTTON OPERATED



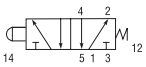
3/2



Product No	Port Size (F) NPT	Way / Position
80.903	1/4	3/2



5/2



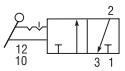
Product No	Port Size (F) NPT	Way / Position
80.913	1/4	5/2

S80 OPTIMA
HAND CONTROL VALVES

LATERAL LEVER OPERATED

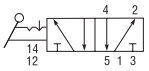


3/2
DETENTED



Product No	Port Size (F) NPT	Way / Position
80.818	1/8	**3/2**
80.918	1/4	**3/2**

5/2
DETENTED



Product No	Port Size (F) NPT	Way / Position
80.820	1/8	**5/2**
80.920	1/4	**5/2**

LEVER OPERATED



3/2

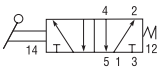


Product No	Port Size (F) NPT	Way / Position	Return Type
80.831	1/4	**3/2**	Spring return
80.832	1/4	**3/2**	Detented

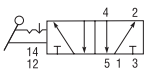
LEVER OPERATED



5/2



SPRING RETURN



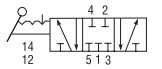
DETENDED

Product No	Port Size (F) NPT	Way / Position	Return Type
80.836	1/8	**5/2**	Detented
80.935	1/4	**5/2**	Spring return
80.936	1/4	**5/2**	Detented
80.945	3/8	**5/2**	Spring return
80.946	3/8	**5/2**	Detented
80.845	1/2	**5/2**	Spring return
80.846	1/2	**5/2**	Detented

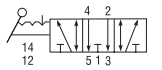
LEVER OPERATED



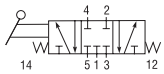
5/3



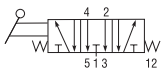
DETENDED CLOSED CENTER



DETENDED CLOSED CENTER AT THE EXHAUST



SPRING RETURN CLOSED CENTER



SPRING RETURN OPEN CENTER AT THE EXHAUST

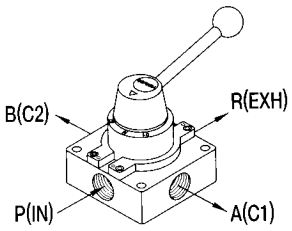
Product No	Port Size (F) NPT	Way / Position	Return Type
80.921	1/4	**5/3**	Detended / Closed center
80.922	1/4	**5/3**	Detended / Open center at the exhaust
80.937	1/4	**5/3**	Spring return / Closed center
80.938	1/4	**5/3**	Spring return / Open center at the exhaust
80.933	3/8	**5/3**	Detended / Closed center
80.934	3/8	**5/3**	Detended / Open center at the exhaust
80.947	3/8	**5/3**	Spring return / Closed center
80.948	3/8	**5/3**	Spring return / Open center at the exhaust
80.833	1/2	**5/3**	Detended / Closed center
80.834	1/2	**5/3**	Detended / Open center at the exhaust
80.847	1/2	**5/3**	Spring return / Closed center
80.848	1/2	**5/3**	Spring return / Open center at the exhaust

S80 OPTIMA
HAND CONTROL VALVES

ROTARY LEVER OPERATED

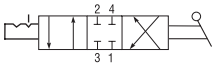
Features and benefits
- Compact design
- Leak-proof operation
- Long service life
- Low operator effort
- Operation angle: 90°

Specifications
Fluid: Filtered air (5 micron)





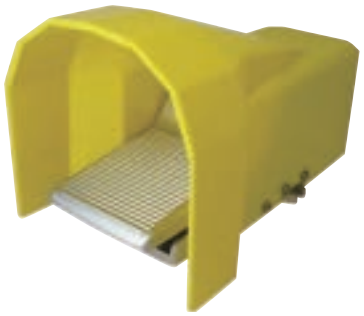
4/3



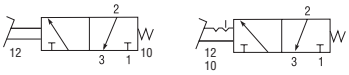
CLOSED CENTER

Product No	Port Size (F) NPT	Way / Position
80.930	1/4	4/3
80.931	3/8	4/3
80.932	1/2	4/3

FOOT PEDAL OPERATED



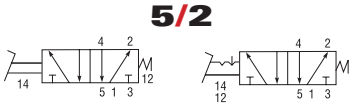
3/2



SPRING RETURN DETENTED

Product No	Port Size (F) NPT	Way / Position	Return Type
80.908	1/4	3/2	Spring
80.909	1/4	3/2	Detented

5/2



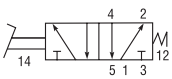
SPRING RETURN DETENTED

Product No	Port Size (F) NPT	Way / Position	Return Type
80.942	1/4	5/2	Spring
80.943	1/4	5/2	Detented

FOOT PEDAL OPERATED
(SPRING RETURN)



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SPRING RETURN

Product No	Port Size (F) NPT	Way / Position	Return Type
80.940	1/4	5/2	Spring
80.941	3/8	5/2	Spring

S80 OPTIMA
ELECTRICAL VALVES

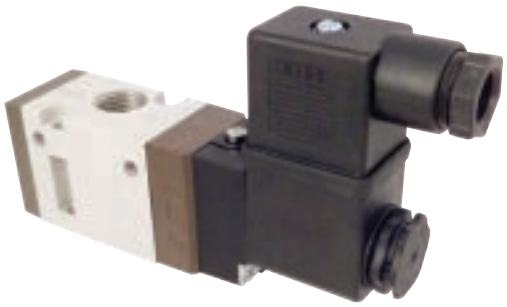
SINGLE SOLENOID

Features and benefits

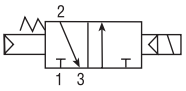
- Solenoid manual override button shifts the valve without electrical power
- Standard connector (DIN type)
- Electrical coil can be turned 360° in 90° increments to accommodate most installation requirements

Specifications

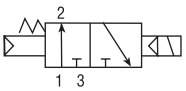
Manual Override: Push-Button
Voltage Fluctuation: ±10%
Response Time: 3/2 & 5/2: ≤ 25 ms • 5/3: ≤ 35 ms
Maximum Cycles/Minute: 3/2 and 5/2: 300 • 5/3: 180



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NORMALLY CLOSED



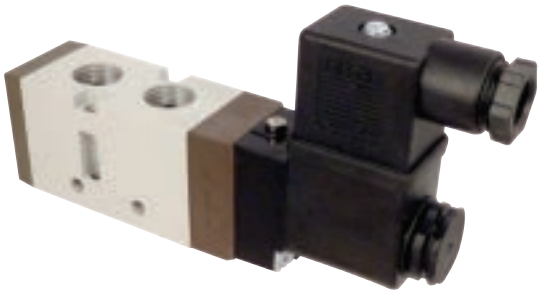
NORMALLY OPEN

SINGLE SOLENOID - 3 WAYS / 2 POSITIONS

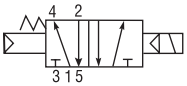
Product No	Port Size (F) NPT	Way / Position	Type	Voltage
80.950	1/8	**3/2**	Normally Closed	110 VAC
80.950.02	1/8	**3/2**	Normally Closed	220 VAC
80.950.03	1/8	**3/2**	Normally Closed	24 VDC
80.950.04	1/8	**3/2**	Normally Closed	24 VAC
80.950.05	1/8	**3/2**	Normally Closed	12 VDC
80.951	1/8	**3/2**	Normally Open	110 VAC
80.951.02	1/8	**3/2**	Normally Open	220 VAC
80.951.03	1/8	**3/2**	Normally Open	24 VDC
80.951.04	1/8	**3/2**	Normally Open	24 VAC
80.951.05	1/8	**3/2**	Normally Open	12 VDC
80.952	1/4	**3/2**	Normally Closed	110 VAC
80.952.02	1/4	**3/2**	Normally Closed	220 VAC
80.952.03	1/4	**3/2**	Normally Closed	24 VDC
80.952.04	1/4	**3/2**	Normally Closed	24 VAC
80.952.05	1/4	**3/2**	Normally Closed	12 VDC
80.953	1/4	**3/2**	Normally Open	110 VAC
80.953.02	1/4	**3/2**	Normally Open	220 VAC
80.953.03	1/4	**3/2**	Normally Open	24 VDC
80.953.04	1/4	**3/2**	Normally Open	24 VAC
80.953.05	1/4	**3/2**	Normally Open	12 VDC
80.966	1/2	**3/2**	Normally Closed	110 VAC
80.966.02	1/2	**3/2**	Normally Closed	220 VAC
80.966.03	1/2	**3/2**	Normally Closed	24 VDC
80.966.04	1/2	**3/2**	Normally Closed	24 VAC
80.966.05	1/2	**3/2**	Normally Closed	12 VDC

S80 OPTIMA
ELECTRICAL VALVES

SINGLE SOLENOID

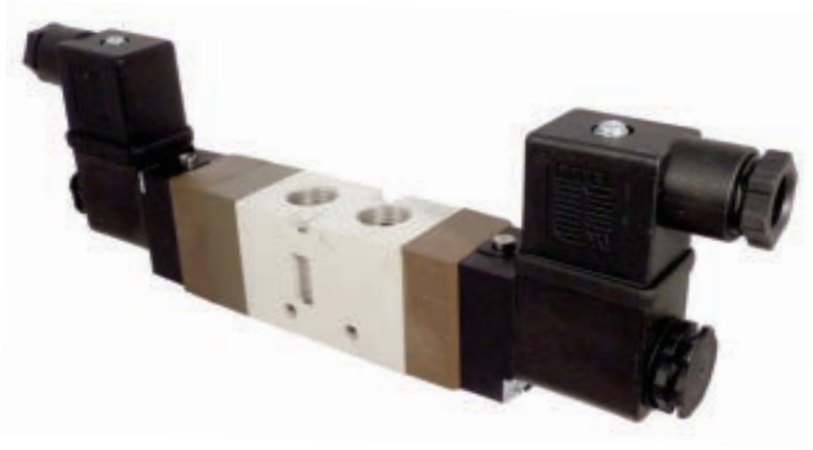


5/2

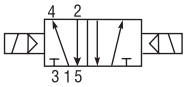


SINGLE SOLENOID

DOUBLE SOLENOID



5/2



DOUBLE SOLENOID

SINGLE SOLENOID - 5 WAYS / 2 POSITIONS

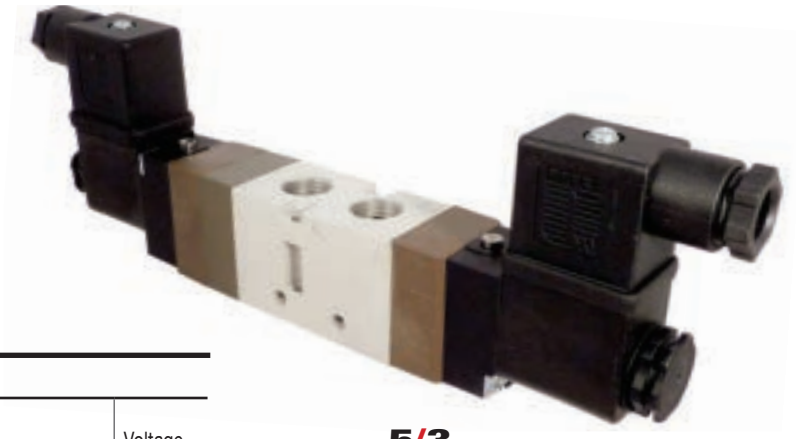
Product No	Port Size (F) NPT	Way / Position	Type	Voltage
80.954	1/8	**5/2**	Single solenoid	110 VAC
80.954.02	1/8	**5/2**	Single solenoid	220 VAC
80.954.03	1/8	**5/2**	Single solenoid	24 VDC
80.954.04	1/8	**5/2**	Single solenoid	24 VAC
80.954.05	1/8	**5/2**	Single solenoid	12 VDC
80.960	1/4	**5/2**	Single solenoid	110 VAC
80.960.02	1/4	**5/2**	Single solenoid	220 VAC
80.960.03	1/4	**5/2**	Single solenoid	24 VDC
80.960.04	1/4	**5/2**	Single solenoid	24 VAC
80.960.05	1/4	**5/2**	Single solenoid	12 VDC
80.970	3/8	**5/2**	Single solenoid	110 VAC
80.970.02	3/8	**5/2**	Single solenoid	220 VAC
80.970.03	3/8	**5/2**	Single solenoid	24 VDC
80.970.04	3/8	**5/2**	Single solenoid	24 VAC
80.970.05	3/8	**5/2**	Single solenoid	12 VDC
80.974	1/2	**5/2**	Single solenoid	110 VAC
80.974.02	1/2	**5/2**	Single solenoid	220 VAC
80.974.03	1/2	**5/2**	Single solenoid	24 VDC
80.974.04	1/2	**5/2**	Single solenoid	24 VAC
80.974.05	1/2	**5/2**	Single solenoid	12 VDC

DOUBLE SOLENOID - 5 WAYS / 2 POSITIONS

Product No	Port Size (F) NPT	Way / Position	Type	Voltage
80.955	1/8	**5/2**	Double solenoid	110 VAC
80.955.02	1/8	**5/2**	Double solenoid	220 VAC
80.955.03	1/8	**5/2**	Double solenoid	24 VDC
80.955.04	1/8	**5/2**	Double solenoid	24 VAC
80.955.05	1/8	**5/2**	Double solenoid	12 VDC
80.961	1/4	**5/2**	Double solenoid	110 VAC
80.961.02	1/4	**5/2**	Double solenoid	220 VAC
80.961.03	1/4	**5/2**	Double solenoid	24 VDC
80.961.04	1/4	**5/2**	Double solenoid	24 VAC
80.961.05	1/4	**5/2**	Double solenoid	12 VDC
80.971	3/8	**5/2**	Double solenoid	110 VAC
80.971.02	3/8	**5/2**	Double solenoid	220 VAC
80.971.03	3/8	**5/2**	Double solenoid	24 VDC
80.971.04	3/8	**5/2**	Double solenoid	24 VAC
80.971.05	3/8	**5/2**	Double solenoid	12 VDC
80.975	1/2	**5/2**	Double solenoid	110 VAC
80.975.02	1/2	**5/2**	Double solenoid	220 VAC
80.975.03	1/2	**5/2**	Double solenoid	24 VDC
80.975.04	1/2	**5/2**	Double solenoid	24 VAC
80.975.05	1/2	**5/2**	Double solenoid	12 VDC

S80 OPTIMA
ELECTRICAL VALVES

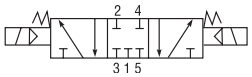
DOUBLE SOLENOID



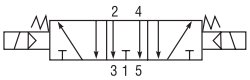
DOUBLE SOLENOID - 5 WAYS / 3 POSITIONS

Product No	Port Size (F) NPT	Way / Position	Type	Voltage
80.956	1/8	**5/3**	Double solenoid / Closed center	110 VAC
80.956.02	1/8	**5/3**	Double solenoid / Closed center	220 VAC
80.956.03	1/8	**5/3**	Double solenoid / Closed center	24 VDC
80.956.04	1/8	**5/3**	Double solenoid / Closed center	24 VAC
80.956.05	1/8	**5/3**	Double solenoid / Closed center	12 VDC
80.957	1/8	**5/3**	Double solenoid / Exhaust Center	110 VAC
80.957.02	1/8	**5/3**	Double solenoid / Exhaust Center	220 VAC
80.957.03	1/8	**5/3**	Double solenoid / Exhaust Center	24 VDC
80.957.04	1/8	**5/3**	Double solenoid / Exhaust Center	24 VAC
80.957.05	1/8	**5/3**	Double solenoid / Exhaust Center	12 VDC
80.962	1/4	**5/3**	Double solenoid / Closed center	110 VAC
80.962.02	1/4	**5/3**	Double solenoid / Closed center	220 VAC
80.962.03	1/4	**5/3**	Double solenoid / Closed center	24 VDC
80.962.04	1/4	**5/3**	Double solenoid / Closed center	24 VAC
80.962.05	1/4	**5/3**	Double solenoid / Closed center	12 VDC
80.963	1/4	**5/3**	Double solenoid / Exhaust Center	110 VAC
80.963.02	1/4	**5/3**	Double solenoid / Exhaust Center	220 VAC
80.963.03	1/4	**5/3**	Double solenoid / Exhaust Center	24 VDC
80.963.04	1/4	**5/3**	Double solenoid / Exhaust Center	24 VAC
80.963.05	1/4	**5/3**	Double solenoid / Exhaust Center	12 VDC
80.972	3/8	**5/3**	Double solenoid / Closed center	110 VAC
80.972.02	3/8	**5/3**	Double solenoid / Closed center	220 VAC
80.972.03	3/8	**5/3**	Double solenoid / Closed center	24 VDC
80.972.04	3/8	**5/3**	Double solenoid / Closed center	24 VAC
80.972.05	3/8	**5/3**	Double solenoid / Closed center	12 VDC
80.973	3/8	**5/3**	Double solenoid / Exhaust Center	110 VAC
80.973.02	3/8	**5/3**	Double solenoid / Exhaust Center	220 VAC
80.973.03	3/8	**5/3**	Double solenoid / Exhaust Center	24 VDC
80.973.04	3/8	**5/3**	Double solenoid / Exhaust Center	24 VAC
80.973.05	3/8	**5/3**	Double solenoid / Exhaust Center	12 VDC
80.976	1/2	**5/3**	Double solenoid / Closed center	110 VAC
80.976.02	1/2	**5/3**	Double solenoid / Closed center	220 VAC
80.976.03	1/2	**5/3**	Double solenoid / Closed center	24 VDC
80.976.04	1/2	**5/3**	Double solenoid / Closed center	24 VAC
80.976.05	1/2	**5/3**	Double solenoid / Closed center	12 VDC

5/3



DOUBLE SOLENOID / CLOSED CENTER

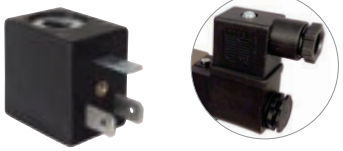


DOUBLE SOLENOID / EXHAUST CENTER

REPLACEMENT SOLENOID COILS AND CONNECTORS

The solenoid coils on **OPTIMA** electrical valves can be replaced or changed for other voltages

SOLENOID COILS



Product No	Port Size	Voltage
80.994	1/8	110 VAC
80.994.02	1/8	220 VAC
80.994.03	1/8	24 VDC
80.994.04	1/8	24 VAC
80.994.05	1/8	12 VDC
80.995	1/4 - 3/8 - 1/2	110 VAC
80.995.02	1/4 - 3/8 - 1/2	220 VAC
80.995.03	1/4 - 3/8 - 1/2	24 VDC
80.995.04	1/4 - 3/8 - 1/2	24 VAC
80.995.05	1/4 - 3/8 - 1/2	12 VDC

CONNECTORS



Product No	Port Size
80.997	1/8
80.998	1/4 - 3/8 - 1/2

S80 OPTIMA
PNEUMATIC VALVES

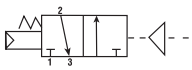
SINGLE AND DOUBLE REMOTE PILOT

Specifications

Pilot Port: 1/8 NPT



3/2

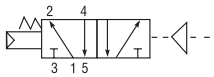


SINGLE REMOTE PILOT

Product No	Port Size (F) NPT	Way / Position	Return Type
80.992	1/4	**3/2**	Single remote pilot



5/2

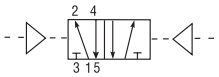


SINGLE REMOTE PILOT

Product No	Port Size (F) NPT	Way / Position	Return Type
80.979	1/8	**5/2**	Single remote pilot
80.982	1/4	**5/2**	Single remote pilot
80.986	3/8	**5/2**	Single remote pilot
80.989	1/2	**5/2**	Single remote pilot



5/2

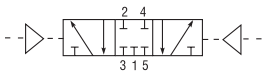


DOUBLE REMOTE PILOT

Product No	Port Size (F) NPT	Way / Position	Return Type
80.980	1/8	**5/2**	Double remote pilot
80.983	1/4	**5/2**	Double remote pilot
80.987	3/8	**5/2**	Double remote pilot
80.990	1/2	**5/2**	Double remote pilot



5/3



DOUBLE REMOTE PILOT / CLOSED CENTER

Product No	Port Size (F) NPT	Way / Position	Return Type
80.984	1/4	**5/3**	Double remote pilot / Closed center
80.988	3/8	**5/3**	Double remote pilot / Closed center

S80 OPTIMA
MANIFOLD BASE KITS

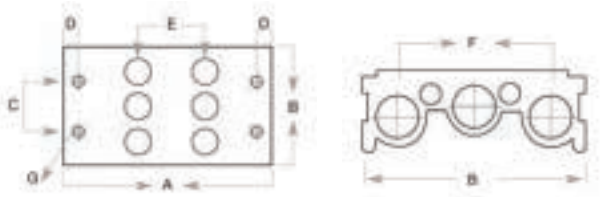
FOR OPTIMA 5/2 AND 5/3 ELECTRIC AND PNEUMATIC VALVES





Features and benefits

- Manifold base kits allow the mounting of multiple 5/2 and 5/3 valves to a common air source and exhaust outlet
- This mounting method can be used for single and double solenoid valves as well as for both single and double pneumatic pilot valves, in any combination on the same manifold base
- All kits come with mounting hardware and gaskets for the total number of mountable valves per manifold



Product No	Stations	Input & Exhaust Ports (F) NPT	Valve Port Size (F) NPT	Dimensions (mm)						
				A	B	C	D	E	F	G
80.958.02	2	1/4	1/8	59.0	61.0	20.0	6.0	19.0	39.0	4.5
80.958.03	3	1/4	1/8	78.0	61.0	20.0	6.0	19.0	39.0	4.5
80.958.04	4	1/4	1/8	97.0	61.0	20.0	6.0	19.0	39.0	4.5
80.958.05	5	1/4	1/8	116.0	61.0	20.0	6.0	19.0	39.0	4.5
80.958.06*	6	1/4	1/8	135.0	61.0	20.0	6.0	19.0	39.0	4.5
80.958.08	8	1/4	1/8	173.0	61.0	20.0	6.0	19.0	39.0	4.5
80.958.10*	10	1/4	1/8	211.0	61.0	20.0	6.0	19.0	39.0	4.5
80.968.02	2	1/4	1/4	83.5	68.0	24.0	6.0	27.5	46.0	5.5
80.968.03	3	1/4	1/4	111.0	68.0	24.0	6.0	27.5	46.0	5.5
80.968.04	4	1/4	1/4	138.5	68.0	24.0	6.0	27.5	46.0	5.5
80.968.05	5	1/4	1/4	166.0	68.0	24.0	6.0	27.5	46.0	5.5
80.968.06*	6	1/4	1/4	193.5	68.0	24.0	6.0	27.5	46.0	5.5
80.968.08	8	1/4	1/4	248.5	68.0	24.0	6.0	27.5	46.0	5.5
80.968.10*	10	1/4	1/4	303.5	68.0	24.0	6.0	27.5	46.0	5.5
80.978.02	2	3/8	3/8	93.0	87.0	30.0	6.5	33.0	60.0	6.5
80.978.03	3	3/8	3/8	126.0	87.0	30.0	6.5	33.0	60.0	6.5
80.978.04*	4	3/8	3/8	159.0	87.0	30.0	6.5	33.0	60.0	6.5
80.978.05*	5	3/8	3/8	192.0	87.0	30.0	6.5	33.0	60.0	6.5
80.978.06*	6	3/8	3/8	225.0	87.0	30.0	6.5	33.0	60.0	6.5
80.978.08	8	3/8	3/8	291.0	87.0	30.0	6.5	33.0	60.0	6.5
80.978.10*	10	3/8	3/8	357.0	87.0	30.0	6.5	33.0	60.0	6.5

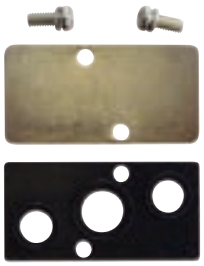
* Available upon request

Maximum Working Pressure: 145 PSI

Working Temperature: 5 to 60 ˚C

BLANKING PLATE

Used to seal unused ports on manifolds



Product No	Valve Port Size (F) NPT
80.958.01	**1/8**
80.968.01	**1/4**
80.978.01	**3/8**

S80

MAXPRO

MAXPRO air control valves offer high flow performance and reliability.

10 000 000 CYCLES

Features and benefits

- Compact design
- High flow
- Highly reliable spool technology
- Standard plug connector (DIN type)

Materials

Body: Anodized aluminium

Seals: Oil resistant rubber seals

Spool: Aluminium

Specifications

Fluid: Compressed air (lubricated and oil free)

Working Pressure:

Mechanical and hand control valves: 0 to 128 PSI
Excepted button operated valves: 0 to 130 PSI

Solenoid and pneumatic valves: 22 to 145 PSI
See specifications in the product pages

Working Temperature: -10 to 60 °C

Excepted remote pilot valves: -10 to 80 °C



S80 MAXPRO
HAND CONTROL VALVES

PALM BUTTON OPERATED



3/2



Product No	Port Size (F) NPT	Way / Position
80.702	1/4	3/2



5/2

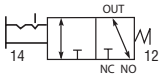


Product No	Port Size (F) NPT	Way / Position
80.712	1/4	5/2

TWIST SELECTOR OPERATED



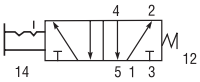
3/2



Product No	Port Size (F) NPT	Way / Position
80.704	1/4	3/2



5/2

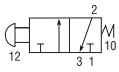


Product No	Port Size (F) NPT	Way / Position
80.714	1/4	5/2

BUTTON OPERATED
(SPRING RETURN)



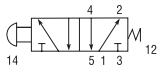
3/2



Product No	Port Size (F) NPT	Way / Position
80.805	1/8	3/2
80.905	1/4	3/2



5/2

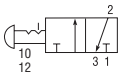


Product No	Port Size (F) NPT	Way / Position
80.815	1/8	5/2
80.915	1/4	5/2

BUTTON OPERATED
(DETENTED)



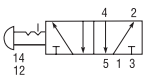
3/2



Product No	Port Size (F) NPT	Way / Position
80.806	1/8	3/2
80.906	1/4	3/2



5/2



Product No	Port Size (F) NPT	Way / Position
80.816	1/8	5/2
80.916	1/4	5/2

MECHANICAL VALVE
ROLLER OPERATED



3/2



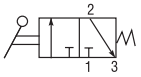
Product No	Port Size (F) NPT	Way / Position
80.701	1/4	5/2

S80 MAXPRO
HAND CONTROL VALVES

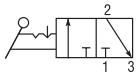
LEVER OPERATED



3/2



SPRING RETURN

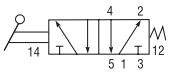


DETENDED

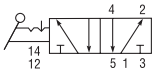
Product No	Port Size (F) NPT	Way / Position	Return Type	Lever
80.807	1/8	**3/2**	Detented	Black
80.817	1/8	**3/2**	Spring return	Red
80.907	1/4	**3/2**	Detented	Black
80.917	1/4	**3/2**	Spring return	Red



5/2



SPRING RETURN

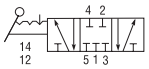


DETENDED

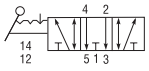
Product No	Port Size (F) NPT	Way / Position	Return Type	Lever
80.925	1/4	**5/2**	Spring return	Red
80.926	1/4	**5/2**	Detented	Black
80.746	3/8	**5/2**	Detented	Black



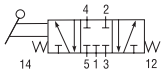
5/3



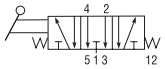
DETENDED / CLOSED CENTER



DETENDED
CLOSED CENTER AT THE EXHAUST



SPRING RETURN / CLOSED CENTER



SPRING RETURN
OPEN CENTER AT THE EXHAUST

Product No	Port Size (F) NPT	Way / Position	Return Type	Lever
80.923	1/4	**5/3**	Spring return / Closed center	Red
80.924	1/4	**5/3**	Spring return / Open center at the exhaust	Red
80.927	1/4	**5/3**	Detented / Closed center	Black
80.928	1/4	**5/3**	Detented / Open center at the exhaust	Black
80.919	3/8	**5/3**	Spring return / Closed center	Red
80.929	3/8	**5/3**	Detended / Closed center	Black

S80 MAXPRO
ELECTRICAL VALVES

SINGLE AND DOUBLE SOLENOID

Specifications

Manual Override: Press-button
Voltage Fluctuation: ± 10 %
Response Time: 0,1 ms
Maximum Cycles/Minute: 600 to 900

Working Pressure:

Single solenoid 3 ways:
• 1/8: 22 to 114 PSI • 1/4: 29 to 114 PSI

Single solenoid 5 ways:
• 1/8, 1/4 and 3/8: 22 to 114 PSI • 1/2: 29 to 114 PSI

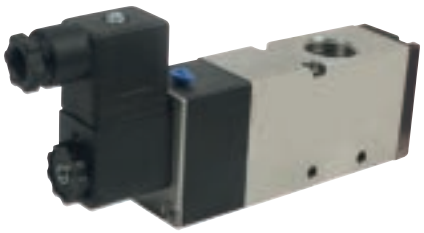
Double solenoid 5 ways: 22 to 114 PSI

Working Temperature:

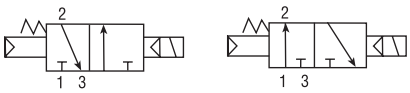
Single solenoid 3 ways:
• 1/8: -10 to 60 °C • 1/4: -10 to 50 °C

Single solenoid 5 ways:
• 1/8: -10 to 50 °C • 1/4, 3/8 and 1/2: -10 to 60 °C

Double solenoid 5 ways:
• 1/8: -10 to 50 °C • 1/4 and 3/8: -10 to 60 °C



3/2



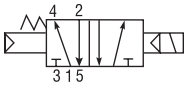
NORMALLY CLOSED NORMALLY OPEN

SINGLE SOLENOID - 3 WAYS / 2 POSITIONS

Product No	Port Size (F) NPT	Way / Position	Type	Voltage
80.750	1/8	**3/2**	Normally closed	110 VAC
80.750.03	1/8	**3/2**	Normally closed	24 VDC
80.752	1/4	**3/2**	Normally closed	110 VAC
80.752.03	1/4	**3/2**	Normally closed	24 VDC
80.753	1/4	**3/2**	Normally open	110 VAC
80.753.03	1/4	**3/2**	Normally open	24 VDC



5/2



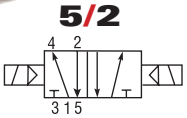
SINGLE SOLENOID

SINGLE SOLENOID - 5 WAYS / 2 POSITIONS

Product No	Port Size (F) NPT	Way / Position	Type	Voltage
80.760	1/8	**5/2**	Single solenoid	110 VAC
80.760.03	1/8	**5/2**	Single solenoid	24 VDC
80.761	1/4	**5/2**	Single solenoid	110 VAC
80.761.03	1/4	**5/2**	Single solenoid	24 VDC
80.762	3/8	**5/2**	Single solenoid	110 VAC
80.762.03	3/8	**5/2**	Single solenoid	24 VDC
80.763	1/2	**5/2**	Single solenoid	110 VAC
80.763.03	1/2	**5/2**	Single solenoid	24 VDC



5/2



DOUBLE SOLENOID

DOUBLE SOLENOID - 5 WAYS / 2 POSITIONS

Product No	Port Size (F) NPT	Way / Position	Type	Voltage
80.765	1/8	**5/2**	Double solenoid	110 VAC
80.765.03	1/8	**5/2**	Double solenoid	24 VDC
80.766	1/4	**5/2**	Double solenoid	110 VAC
80.766.03	1/4	**5/2**	Double solenoid	24 VDC
80.767	3/8	**5/2**	Double solenoid	110 VAC
80.767.03	3/8	**5/2**	Double solenoid	24 VDC

S80 MAXPRO

ELECTRICAL VALVES

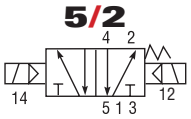
SINGLE AND DOUBLE SOLENOID

STAINLESS STEEL SUS 316

Specifications

Manual Override: Press-button
Voltage Fluctuation: ± 10 %
Response Time: 0,2 ms
Maximum Cycles/Minute: 600 to 900
Working Pressure: 21.3 to 114 PSI



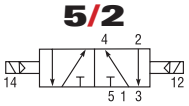


SINGLE SOLENOID

SINGLE SOLENOID - 5 WAYS / 2 POSITIONS

Product No	Port Size (F) NPT	Way / Position	Type	Voltage
80.870	1/4	**5/2**	Single solenoid	110 VAC
80.870.02	1/4	**5/2**	Single solenoid	220 VAC
80.870.03	1/4	**5/2**	Single solenoid	24 VDC
80.875	3/8	**5/2**	Single solenoid	110 VAC
80.875.02	3/8	**5/2**	Single solenoid	220 VAC
80.875.03	3/8	**5/2**	Single solenoid	24 VDC





DOUBLE SOLENOID

DOUBLE SOLENOID - 5 WAYS / 2 POSITIONS

Product No	Port Size (F) NPT	Way / Position	Type	Voltage
80.871	1/4	**5/2**	Double solenoid	110 VAC
80.871.02	1/4	**5/2**	Double solenoid	220 VAC
80.871.03	1/4	**5/2**	Double solenoid	24 VDC
80.876	3/8	**5/2**	Double solenoid	110 VAC
80.876.02	3/8	**5/2**	Double solenoid	220 VAC
80.876.03	3/8	**5/2**	Double solenoid	24 VDC

REPLACEMENT SOLENOID COILS



Product No	Voltage
80.088	110 VAC
80.088.02	220 VAC
80.088.03	24 VDC

S80 MAXPRO

PNEUMATIC VALVES

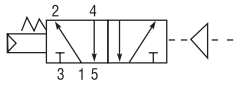
SINGLE AND DOUBLE REMOTE PILOT

Specifications

Working Pressure: 0 to 114 PSI
Working Temperature: -10 to 80 °C
Pilot Port: 1/8 NPT



5/2

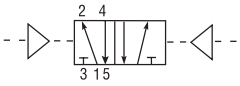


SINGLE REMOTE PILOT

Product No	Port Size (F) NPT	Way / Position	Return Type
80.782	1/4	5/2	Single remote pilot



5/2



DOUBLE REMOTE PILOT

Product No	Port Size (F) NPT	Way / Position	Return Type
80.783	1/4	5/2	Double remote pilot

S80 MINIATURE
HAND CONTROL VALVES

TOGGLE AND PUSH-BUTTON OPERATED

These **MINIATURE** valves are used to operate single acting cylinders or to provide pilot signals for larger valves.

Features and benefits

- Compact design
- Corrosion resistant
- Swivel connection

Materials

Body: Anodized aluminium
Stem: Acetal
Spring: Stainless steel
Button/Toggle: Nylon
Seals: Rubber nitrile

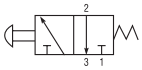
Specifications

Flow Rate: 0.23 Cv
Fluid: Filtered compressed air
Working Pressure: 0 to 125 PSI
Working Temperature: -29 to 71 ˚C



PUSH-BUTTON OPERATED

3/2

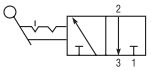


Product No	Inlet Port Size	Outlet Port Size	Way / Position	Return Type
80.062	1/8 (M) NPT	10-32	**3/2**	Spring return
80.066	1/8 (F) NPT	10-32	**3/2**	Spring return

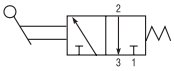


TOGGLE OPERATED

3/2



DETENTED



SPRING RETURN

Product No	Inlet Port Size	Outlet Port Size	Way / Position	Return Type
80.050	1/8 (M) NPT	10-32	**3/2**	Detented
80.052	1/8 (M) NPT	10-32	**3/2**	Spring return
80.058	1/8 (F) NPT	10-32	**3/2**	Detented
80.060	1/8 (F) NPT	10-32	**3/2**	Spring return

RIGHT ANGLE MOUNTING BRACKET



Product No	Description
80.068	Right angle mounting bracket

S80 MINIATURE
HAND CONTROL VALVES

TOGGLE OPERATED

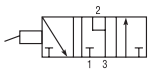
Features and benefits

- Pushing and holding the toggle in either direction shifts the spring return valve in that direction. When the toggle is released, the valve returns to its center position
- Pushing the toggle in either direction shifts the detented valve in that direction. The valve remains in this position until the toggle is pulled out of that position
- When the toggle is centered, both output ports are open to exhaust
- High flow rate

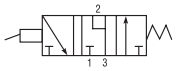


3/3

NORMALLY CLOSED



DETENTED



SPRING RETURN

Product No	Port Size (F) NPT	Way / Position	Return Type
80.090	1/8	**3/3**	Detented
80.092	1/8	**3/3**	Spring return

Materials

Body: Black anodized aluminium
Threaded insert: Nickel plated brass
Seals: Rubber nitrile
Spring: Stainless steel
Mounting nuts: Nickel plated brass

Specifications

Working Pressure: 0 to 125 PSI
Working Temperature:-29 ˚C to 71 ˚C
Cv: 0.54

PUSH-BUTTON AND TOGGLE OPERATED

Features and benefits

- Features porting that permits the use of mufflers for exhaust control, ideal for speed control of cylinders or motors
- Can be converted to a 3 ways by plugging one port with a plug fitting
- Three .20 diameter holes for securing the valve to a machine
- Panel mountable using the 15/32-32 threaded neck with locknut and lock washer (included)
- Full ported valve

Materials

Body: Black anodized aluminium
Threaded Insert: Nickel plated brass
Seals: Rubber nitrile
Spring: Stainless steel
Mounting Nuts: Nickel plated brass

Specifications

Working Pressure: 0 to 125 PSI
Working Temperature: -29 to 71 ˚C
Cv: 0.37



PUSH-BUTTON OPERATED

5/2

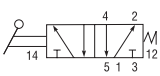


SPRING RETURN

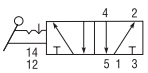


TOGGLE OPERATED

5/2



SPRING RETURN



DETENTED

TECH TIP

The use of mufflers can greatly reduce exhaust noise levels for pneumatic valves.

See series 86 for a selection of mufflers.



Product No	Port Size (F) NPT	Way / Position	Actuator	Return Type
80.070	1/8	**5/2**	Push-button	Spring return
80.072	1/8	**5/2**	Toggle	Spring return
80.074	1/8	**5/2**	Toggle	Detented

S80 MINIATURE

ELECTRICAL VALVES
SINGLE SOLENOID

Features and benefits

- Direct acting with spring return
- Compact design
- Easy to be installed side by side with other valves

Materials

Body: Aluminium

Seals: Rubber nitrile

Spool: Aluminium

Specifications

Fluid: Compressed air (lubricated or oil free)

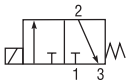
Working Pressure: 0 to 114 PSI

Working Temperature: -10 to 60 ˚C

Cv: 0.08



3/2



Product No	Port Size (F) NPT	Type	Voltage
80.085	1/4	Single solenoid	110 VAC
80.085.02	1/4	Single solenoid	220 VAC
80.085.03	1/4	Single solenoid	24 VDC

REPLACEMENT SOLENOID COILS



Product No	Voltage
80.088	110 VAC
80.088.02	220 VAC
80.088.03	24 VDC

ASSEMBLY KIT



Product No	Description
80.087	Manifold assembly kit: 1 o-ring, 2 bolts, 2 screws, 2 nuts

S80

HIFLO SOLENOID VALVES 2 WAYS - 2 POSITIONS

Features and benefits

- High reliability, low maintenance
- Compact design with high flow
- Double o-ring seal protects coil and valve assembly from moisture and rust for longer service life
- Low noise
- DIN connection
- Zero differential pressure design
- Waterhammer-free

Applications

General purpose applications and process

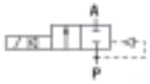
Materials

Valve Body: Brass
Seals: Rubber nitrile
Coil Material: Polyamide

Specifications

Fluids: Compressed air, water, hot water and liquids
Protection Class with Cable Plug: NEMA 4
Working Pressure: 1.5 to 145 PSI
Working Temperature: -10 to 80 °C





NORMALLY CLOSED

Voltage 120 VAC/60HZ Product No	Voltage 240 VAC/60HZ Product No	Voltage 12 VDC Product No	Voltage 24 VDC Product No	Thread (F) NPT	Flow Cv
80.691	80.691.02	80.691.05	80.691.03	1/4	2.4
80.692	80.692.02	80.692.05	80.692.03	3/8	2.4
80.693	80.693.02	80.693.05	80.693.03	1/2	4.2
80.694	80.694.02	80.694.05	80.694.03	3/4	10.5
80.695	80.695.02	80.695.05	--	1	12.9

AIRFLO

SOLENOID VALVES 2 WAYS - 2 POSITIONS

Features and benefits

- Normally closed 2 ways valves
- DIN connection
- O-ring seal protects coil and valve assembly from moisture and corrosion for longer service life
- High reliability, low maintenance
- Compact design with high flow rates
- Low noise

Applications

General purpose applications and process systems

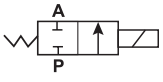
Materials

Valve Body: Brass
Seals: Rubber nitrile
Coil Material: Aluminium/plastic

Specifications

Fluids: Compressed air, water, hot water and liquids
Maximum Working Pressure: 150 PSI
Working Pressure: 0 to 100 PSI
Working Temperature: -5 °C to 80 °C





NORMALLY CLOSED

Voltage 110V/60HZ Product No	Voltage 24 VDC Product No	Voltage 12 VDC Product No	Thread (F) NPT	Flow Cv
80.790	80.790.03	80.790.05	1/8	0.10
80.791	80.791.03	80.791.05	1/4	0.18
80.792	80.792.03	80.792.05	3/8	1.00
80.793	80.793.03	80.793.05	1/2	4.00
80.794	80.794.03	80.794.05	3/4	8.60
80.795	80.795.03	80.795.05	1	11.00

S80

TWO-HAND ANTI TIE-DOWN SAFETY UNIT

(“AND “ TYPE)

SAFETY

Features and benefits

- Guarantees safety usage by requiring both hands to activate a machine
- When supply is shut down, supply is quickly deactivated for safety
- Tamper resistant enclosure avoids users circumvention
- Two-hand control occupies both hands of user by requiring simultaneous operation of two push-buttons
- Quick acting poppet valve (no spools)
- Output appears sharply at full force (snap-acting)
- Quick exhaust upon deactivation
- Operation not affected by the length of supply or application side tubing
- Handles standard shop air, no special lubrication required

Applications

Air presses and drill fixtures

Air clamps and cylinders

Remote pilot valves

Other industrial machinery

Materials

Body: Glass filled nylon

Operating Head: Zinc alloy and plastic

Specifications

Fluid: Filtered compressed air

Flow at 90 PSI: 7 SCFM

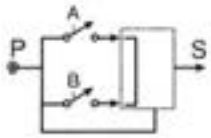
Working Pressure: 40 to 120 PSI

Working Temperature: -15 to 60 °C

Connection: 5/32 (4 mm) push-in







Product No	Description
80.685	Two-hand anti tie-down unit

WARNING

Two-hand control units do not insure the entire safety of any machine.

Users and original equipment manufacturers are responsible for making sure that installations meet all relevant safety regulations.

PUSH-TO-CONNECT FITTINGS AND PNEUMATIC TUBINGS POSTER

- A unique reference tool that features all push-to-connect fittings and tubings
- Full scale chart tables to help find the right tubing size and fitting thread



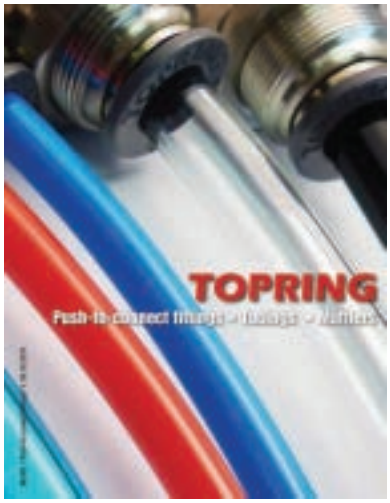


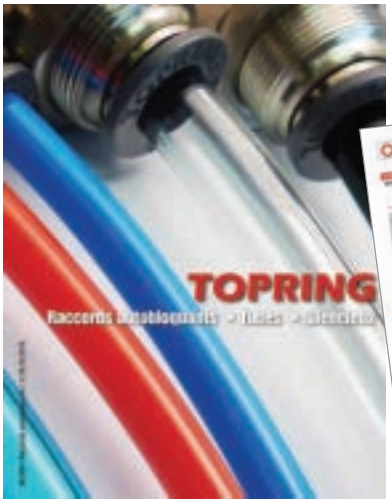
Size
33 x 34 in

Product No: English version 96.939.08 / French version 96.938.08

PUSH-TO-CONNECT FITTINGS AND PNEUMATIC TUBINGS BROCHURE

The brochure includes the complete selection of push-to-connect fittings, tubings and mufflers for pneumatic applications





Visit TOPRING.com to download the brochure



Product No: English version 96.831 / French version 96.830

S81•83
PNEUMATIC CYLINDERS NFPA



S81
PNEUMATIC CYLINDERS NFPA



Features and benefits

- Meet NFPA standards
- NFPA-MS4 standard mounting styles
- Made of corrosion-resistant aluminium
- Adjustable cushions on both ends
- High strength

Options

- Magnetic piston
- Proximity switches
- High temperature seals
- Stainless steel 304 or 316 piston rod and tie rods

Also available: Special cylinders (see pages 568-569)

- Double rod ends
- Adjustable stroke
- Tandem
- 3-position cylinders
- Multistage cylinders
- ISO 6431 cylinders

Wiper
Keeps dirt out for less maintenance and longer service life of the cylinder (urethane) (temperature: -45 °C to 110 °C)

Rod Lips Seal
Designed with a real rod u-cup; completely self-compensating for zero leakage at all pressures

Tie Rods
Corrosion resistant (nitrocarburation), stressproof steel maintains uniform compression on tube end seals

Piston Wear Ring
Made from nylon to reduce friction and to ensure maximum service life in side load applications. Eliminates metal-to-metal contact

Piston
Machined from solid one-piece aluminium bar stock. Offers long bearing support

Solid Aluminium Head & Cap
Machined from solid one-piece aluminium bar stock and black anodized for corrosion resistance



Piston Rod
Medium carbon steel, chrome plated and polished. Two wrench flats are provided for rod end attachment

Rod Gland
Bronze gland is removable without cylinder disassembly for easy maintenance. Designed to provide maximum rod bearing service life

Hard Anodized Aluminium Tube
Provides superior wear resistance and lower friction coefficient for maximum seal service life

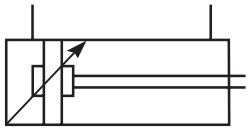
Piston Seals
Lip-type low friction Urethane piston seals are pressure energized and wear compensating for low friction and long service life (-45 °C to 110 °C)

Check Seal Cushion and Needle valves
Precision cushion spuds combine with a new style of floating cushion seal to provide smooth deceleration at end of stroke. Needle valves make adjustments easy

O-Ring Tube End Seals
Nitrile O-ring design is pressure compensating and reusable

S81
PNEUMATIC CYLINDERS NFPA





Stroke (in)	Bore Size (in) ⊘						
	1-1/2 Product No	2 Product No	2-1/2 Product No	3-1/4 Product No	4 Product No	5 Product No	6 Product No
1	81.501	81.601	81.701	81.801	81.901	81.201	81.301
2	81.502	81.602	81.702	81.802	81.902	81.202	81.302
3	81.503	81.603	81.703	81.803	81.903	81.203	81.303
4	81.504	81.604	81.704	81.804	81.904	81.204	81.304
5	81.505	81.605	81.705	81.805	81.905	81.205	81.305
6	81.506	81.606	81.706	81.806	81.906	81.206	81.306
7	81.507	81.607	81.707	81.807	81.907	81.207	81.307
8	81.508	81.608	81.708	81.808	81.908	81.208	81.308
9	81.509	81.609	81.709	81.809	81.909	81.209	81.309
10	81.510	81.610	81.710	81.810	81.910	81.210	81.310
11	81.511	81.611	81.711	81.811	81.911	81.211	81.311
12	81.512	81.612	81.712	81.812	81.912	81.212	81.312
13	81.513	81.613	81.713	81.813	81.913	81.213	81.313
14	81.514	81.614	81.714	81.814	81.914	81.214	81.314
15	81.515	81.615	81.715	81.815	81.915	81.215	81.315
16	81.516	81.616	81.716	81.816	81.916	81.216	81.316
17	81.517	81.617	81.717	81.817	81.917	81.217	81.317
18	81.518	81.618	81.718	81.818	81.918	81.218	81.318
19	81.519	81.619	81.719	81.819	81.919	81.219	81.319
20	81.520	81.620	81.720	81.820	81.920	81.220	81.320
21	81.521	81.621	81.721	81.821	81.921	81.221	81.321
22	81.522	81.622	81.722	81.822	81.922	81.222	81.322
23	81.523	81.623	81.723	81.823	81.923	81.223	81.323
24	81.524	81.624	81.724	81.824	81.924	81.224	81.324

Note: Please add suffix «.01» to order these cylinders with a magnetized piston for usage with a magnetic proximity switch (example: 81.522.01)

MAGNETIC PROXIMITY SWITCHES



Features and benefits

- Actuate when optional piston magnet passes below switch
- One switch for a majority of voltages and cylinder sizes
- Switch bracket and 9 ft cable included

Product No	Voltage Drop	Indicator Light
81.150	3 Volts	LED

Specifications

Voltage Range: 5-240 V AC/DC • 50/60 HZ

Current: 1 A max

Switching Speed: 0.6 MS operated • 0.5 MS release

Working Temperature: -20 to 80 °C

WARNING

In auto switch (magnetic proximity switch) applications, it is recommended to connect the auto switch to the power source through a load.

PUSH/PULL FORCES

Cylinders provide specific forces based on the piston area and on pressure provided.

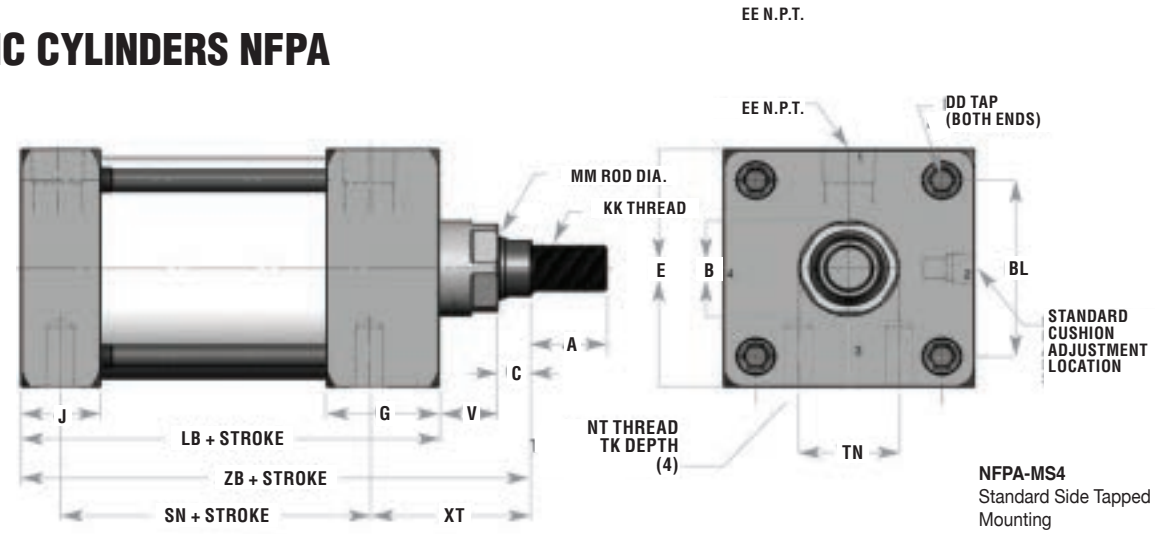
These forces will not be the same for push and pull, since the rod takes up a portion of the area of the piston when pulling.

TECH TIP

Selecting the proper cylinder for the application remains the responsibility of the system designer; these forces should be used as a guideline and it is important to do the required tests according to the specific application.

Bore Size ⊘	Rod Size	Push Force (lb)				Pull Force (lb)			
		at 50 PSI	at 100 PSI	at 150 PSI	at 250 PSI	at 50 PSI	at 100 PSI	at 150 PSI	at 250 PSI
1-1/2	5/8	88	177	266	442	73	146	220	365
2	5/8	157	314	471	785	141	283	425	709
2-1/2	5/8	245	491	737	1227	230	460	691	1150
3-1/4	1	415	830	1245	2074	375	751	1127	1878
4	1	628	1257	1886	3142	589	1170	1768	2945
5	1	982	1964	2946	4909	942	1885	2827	4712
6	1-3/8	1413	2827	4241	7069	1337	2679	4018	6697

S81
PNEUMATIC CYLINDERS NFPA



NFPA-MS4
Standard Side Tapped Mounting

Bore Size	MM Rod Diameter	Dimensions (in)																	
		A	B	BL	C	DD (UNF)	E	EE (F) NPT	G	J	KK (UNF)	LB	V	ZB	SN	XT	NT	TK	TN
1-1/2	5/8	3/4	1-1/8	1.43	3/8	1/4 (28)	2	3/8	1-1/2	1	7/16 (20)	3-5/8	5/8	4-5/8	2-1/4	1-15/16	1/4 (20)	3/8	5/8
2	5/8	3/4	1-1/8	1.84	3/8	5/16 (24)	2-1/2	3/8	1-1/2	1	7/16 (20)	3-5/8	5/8	4-5/8	2-1/4	1-15/16	15/16 (18)	1/2	7/8
2-1/2	5/8	3/4	1-1/8	2.19	3/8	5/16 (24)	3	3/8	1-1/2	1	7/16 (20)	3-3/4	5/8	4-3/4	2-3/8	1-15/16	3/8 (16)	5/8	1-1/4
3-1/4	1	1-1/8	1-1/2	2.78	1/2	3/8 (24)	3-3/4	1/2	1-3/4	1-1/4	3/4 (16)	4-1/4	7/8	5-5/8	2-5/8	2-7/16	1/2 (13)	3/4	1-1/2
4	1	1-1/8	1-1/2	3.32	1/2	3/8 (24)	4-1/2	1/2	1-3/4	1-1/4	3/4 (16)	4-1/4	7/8	5-5/8	2-5/8	2-7/16	1/2 (13)	3/4	2-1/16
5	1	1-1/8	1-1/2	4.12	1/2	1/2 (20)	5-1/2	1/2	1-3/4	1-1/4	3/4 (16)	4-1/2	7/8	5-7/8	2-7/8	2-7/16	5/8 (11)	1	2-11/16
6	1-3/8	1-5/8	2	4.88	5/8	1/2 (20)	6-1/2	3/4	2	1-1/2	1 (14)	5	1	6-5/8	3-1/8	2-13/16	3/4 (10)	1-1/8	3-1/4

CYLINDER MOUNTING OPTIONS

There are various ways to mount a cylinder to equipment, beyond using the standard side tapped mounting style (MS4).

These mounting options can be identified by their NFPA standard codes:

- NFPA-MS1 90° angle bracket
- NFPA-MF1 rectangular head flange
- NFPA-MF2 rectangular cap flange
- NFPA-MP1 cap clevis
- NFPA-MP2 cap clevis high
- NFPA-MP4 cap Eye
- NFPA-MS2 side Lug

The following pages show the available options that can be used to mount NFPA cylinders.





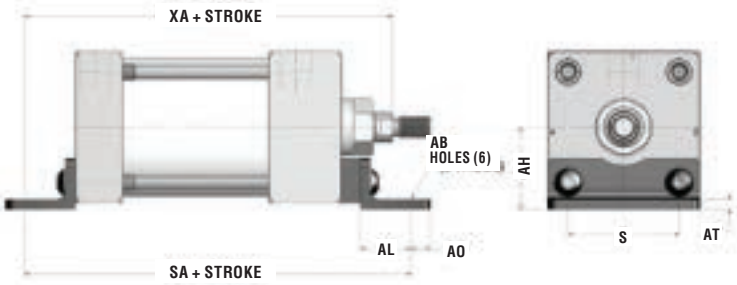
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MOUNTING ACCESSORIES FOR PNEUMATIC CYLINDERS NFPA

90° ANGLE BRACKET
NFPA-MS1



Screws included

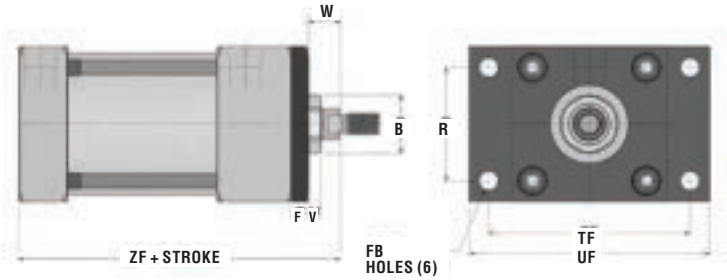


Product No	Bore Size	Dimensions (in)							
		AB	AH	AL	AO	AT	S	SA	XA
81.560	1-1/2	7/16	1-3/16	1	3/8	1/8	1-3/4	6	5-5/8
81.660	2	7/16	1-7/16	1	3/8	1/8	1-3/4	6	5-5/8
81.760	2-1/2	7/16	1-5/8	1	3/8	1/8	2-1/4	6-1/8	5-3/4
81.860	3-1/4	9/16	1-15/16	1-3/4	1/2	3/16	2-3/4	7-3/8	6-7/8
81.985	4	9/16	2-1/4	1-3/4	1/2	3/16	3-1/2	7-3/8	6-7/8
81.260	5	11/16	2-3/4	1-3/8	5/8	3/16	4-1/4	7-7/8	7-1/4
81.360	6	13/16	3-1/4	1-3/8	5/8	1/4	5-1/4	8-1/2	8

RECTANGULAR HEAD FLANGE
NFPA-MF1



Screws included

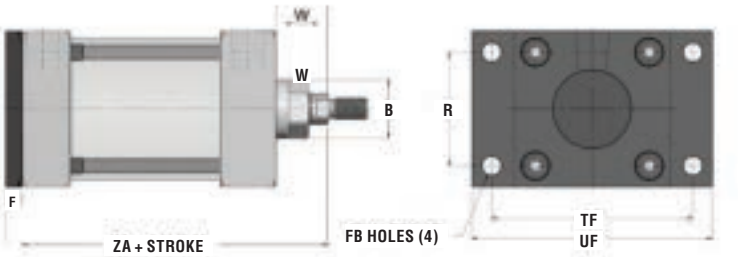


Product No	Bore Size	Dimensions (in)								
		B	F	FB	R	TF	UF	V	W	ZF
81.550	1-1/2	1-1/8	3/8	5/16	1.43	2-3/4	3 3/8	1/4	5/8	4-5/8
81.650	2	1-1/8	3/8	3/8	1.84	3-3/8	4-1/8	1/4	5/8	4-5/8
81.750	2-1/2	1-1/8	3/8	3/8	2.19	3-7/8	4-5/8	1/4	5/8	4-3/4
81.850	3-1/4	1-1/2	5/8	7/16	2.76	4-11/16	5-1/2	1/4	3/4	5-5/8
81.980	4	1-1/2	5/8	7/16	3.32	5-7/16	6-1/4	1/4	3/4	5-5/8
81.250	5	1-1/2	5/8	9/16	4.10	6-5/8	7-5/8	1/4	3/4	5-7/8
81.350	6	2	3/4	9/16	4.88	7-5/8	8-5/8	1/4	7/8	6-5/8

RECTANGULAR CAP FLANGE
NFPA-MF2



Screws included



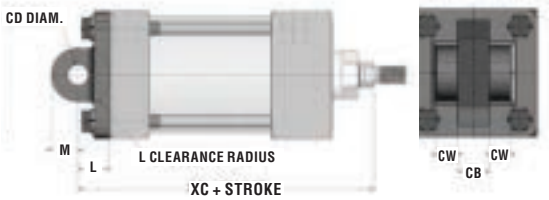
Product No	Bore Size	Dimensions (in)							
		B	F	FB	R	TF	UF	W	ZA
81.550	1-1/2	1-1/8	3/8	5/16	1.43	2-3/4	3 3/8	1	5
81.650	2	1-1/8	3/8	3/8	1.84	3-3/8	4-1/8	1	5
81.750	2-1/2	1-1/8	3/8	3/8	2.19	3-7/8	4-5/8	1	5-1/8
81.850	3-1/4	1-1/2	5/8	7/16	2.76	4-11/16	5-1/2	1-3/8	6-1/4
81.980	4	1-1/2	5/8	7/16	3.32	5-7/16	6-1/4	1-3/8	6-1/4
81.250	5	1-1/2	5/8	9/16	4.10	6-5/8	7-5/8	1-3/8	6-1/2
81.350	6	2	3/4	9/16	4.88	7-5/8	8-5/8	1-5/8	7-3/8

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MOUNTING ACCESSORIES FOR PNEUMATIC CYLINDERS NFPA

CAP CLEVIS
NFPA-MP1

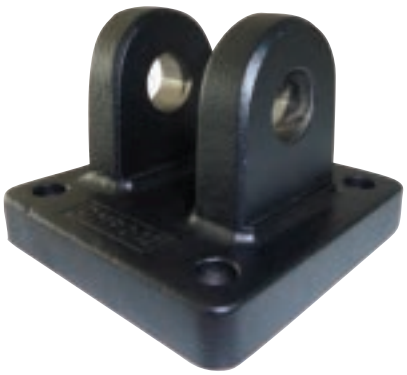


Clevis pin and screws included

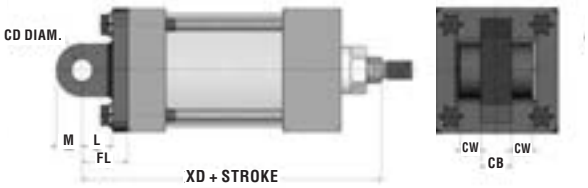


Product No	⌀ Bore Size	Dimensions (in)					
		CB	CD	CW	L	M	XC
81.565	1-1/2	3/4	1/2	1/2	3/4	5/8	5-3/8
81.665	2	3/4	1/2	1/2	3/4	5/8	5-3/8
81.765	2-1/2	3/4	1/2	1/2	3/4	5/8	5-1/2
81.865	3-1/4	1-3/4	3/4	5/8	1-3/4	7/8	6-7/8
81.990	4	1-3/4	3/4	5/8	1-3/4	7/8	6-7/8
81.265	5	1-3/4	3/4	5/8	1-3/4	7/8	7-1/8
81.365	6	1-1/2	1	3/4	1-1/2	1-3/4	8-1/8

CAP CLEVIS HIGH
NFPA-MP2



Clevis pin and screws included



Product No	⌀ Bore Size	Dimensions (in)						
		CB	CD	CW	FL	L	M	XD
81.563	1-1/2	3/4	1/2	1/2	1-1/8	3/4	5/8	5-3/4
81.663	2	3/4	1/2	1/2	1-1/8	3/4	5/8	5-3/4
81.763	2-1/2	3/4	1/2	1/2	1-1/8	3/4	5/8	5-7/8
81.863	3-1/4	1-3/4	3/4	5/8	1-7/8	1-3/4	7/8	7-1/2
81.993	4	1-3/4	3/4	5/8	1-7/8	1-3/4	7/8	7-1/2
81.263	5	1-3/4	3/4	5/8	1-7/8	1-3/4	7/8	7-3/4
81.363	6	1-3/4	1	5/8	2-1/4	1-1/2	1-3/4	8-7/8

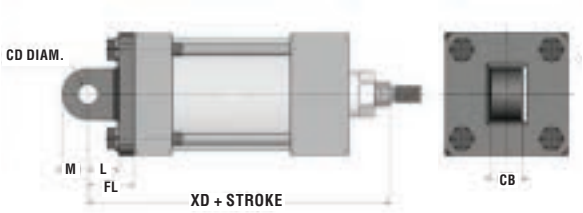
S81

MOUNTING ACCESSORIES FOR PNEUMATIC CYLINDERS NFPA

CAP EYE
NFPA-MP4



Screws included

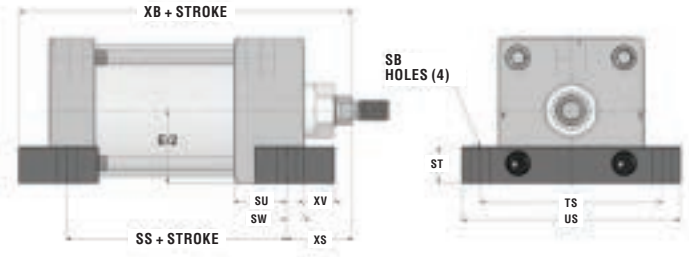


Product No	Bore Size	Dimensions (in)					
		CB	CD	FL	L	M	XD
81.567	1-1/2	3/4	1/2	1-1/8	3/4	5/8	5-3/4
81.667	2	3/4	1/2	1-1/8	3/4	5/8	5-3/4
81.767	2-1/2	3/4	1/2	1-1/8	3/4	5/8	5-7/8
81.867	3-1/4	1-1/4	3/4	1-7/8	1-1/4	7/8	7-1/2
81.996	4	1-1/4	3/4	1-7/8	1-1/4	7/8	7-1/2
81.267	5	1-1/4	3/4	1-7/8	1-1/4	7/8	7-3/4
81.367	6	1-1/2	1	2-1/4	1-1/2	1-1/8	8-7/8

SIDE LUG
NFPA-MS2



Screws included



Product No	Bore Size	Dimensions (in)									
		SB	SS	ST	SU	SW	TS	US	XB	XS	XV
81.562	1-1/2	13/32	2-7/8	9/16	5/8	3/8	2-3/4	3-1/2	5-1/8	1-3/8	1/2
81.662	2	13/32	2-7/8	5/8	5/8	3/8	3-1/4	4	5-1/4	1-3/8	5/8
81.762	2-1/2	13/32	3	3/4	5/8	3/8	3-3/4	4-1/2	5-3/8	1-3/8	5/8
81.862	3-1/4	17/32	3-1/4	1	3/4	1/2	4-3/4	5-3/4	6-3/8	1-7/8	3/4
81.982	4	17/32	3-1/4	1	3/4	1/2	5-1/2	6-1/2	6-3/8	1-7/8	3/4
81.262	5	25/32	3-1/8	1-3/4	9-16	11/16	6-7/8	8-1/4	6-13/16	2-1/16	15/16
81.362	6	25/32	3-5/8	1-1/2	7/8	11/16	7-7/8	9-1/4	7-9/16	2-5/16	15/16

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ACCESSORIES FOR PNEUMATIC CYLINDERS NFPA

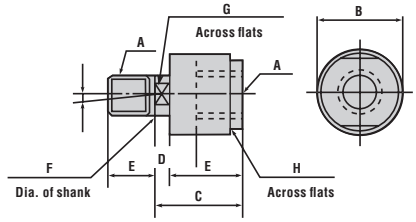
SELF-ALIGNING ROD-END COUPLERS

Features and benefits

- Prevent binding of cylinders
- Permit greater tolerance between center line of the cylinder and mating par
- Reduce cylinder and component wear
- All couplers are heat treated for higher corrosion and wear resistance



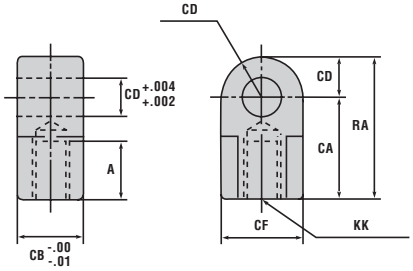
Product No	Bore Size	Dimensions (in)							
		A	B	C	D	E	F	G	H
81.010	1-1/2 • 2 • 2-1/2	7/16-20	1.25	2.0	0.50	0.75	0.62	9/16	1.12
81.015	3 1/4 • 4 • 5	3/4-16	1.75	2.31	0.31	1.12	0.97	7/8	1.50
81.020	6	1-14	2.50	2.94	0.50	1.62	1.38	1-3/4	2.25



EYE ROD END TYPE T



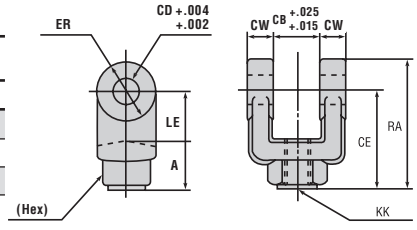
Product No	Bore Size	Dimensions (in)						
		A	CA	CB	CD	CF	KK	RA
81.575	1-1/2 • 2 • 2-1/2	3/4	1-1/2	3/4	1/2	1	7/16-20	2
81.675	3 1/4 • 4 • 5	1-1/8	2 1/16	1-3/4	3/4	1-1/2	3/4-16	2 13/16
81.875	6	1 5/8	2 13/16	1-1/2	1	2	1-14	3 13/16



CLEVIS ROD END TYPE Y WITH PIVOT PIN



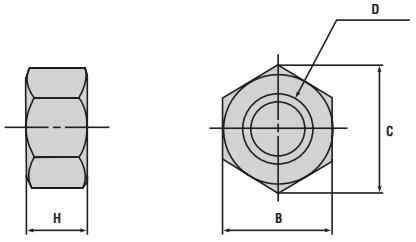
Product No	Bore Size	Dimensions (in)								
		A	CE	CB	CD	CW	ER	KK	LE	RA
81.570	1-1/2 • 2 • 2-1/2	3/4	1-1/2	3/4	1/2	1/2	1/2	7/16 (20)	3/4	2
81.870	3-1/4 • 4 • 5	1-1/8	2-3/8	1-1/4	3/4	5/8	3/4	3/4 (16)	1-1/4	3-1/8
81.370	6	1-5/8	3-1/8	1-1/2	1	3/4	1	1 (14)	1-1/2	4-1/8



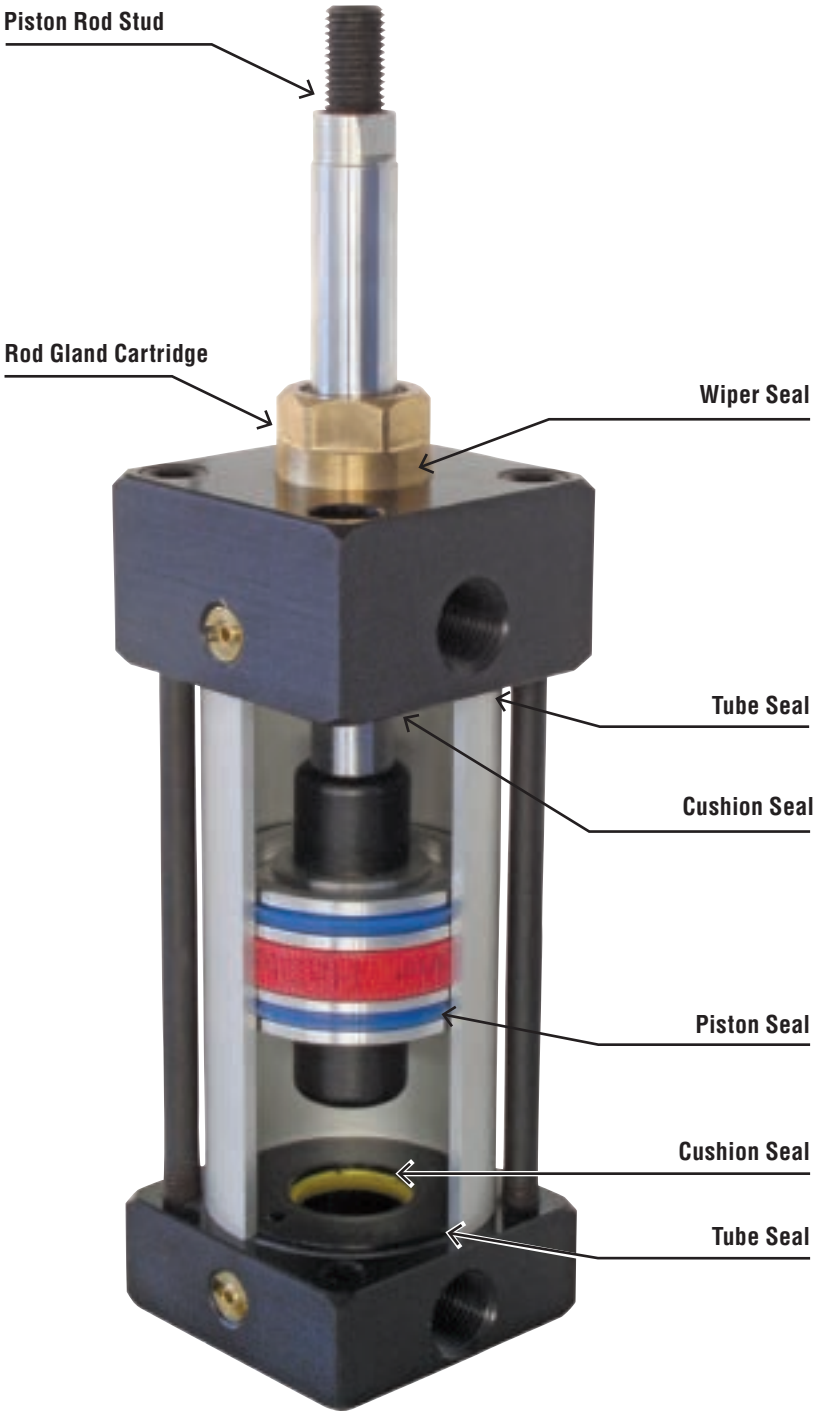
LOCK NUT



Product No	Bore Size	Dimensions (in)			
		D	H	B	C
81.576	1-1/2 • 2 • 2-1/2	7/16 (20)	1/4	11/16	0.79
81.676	3-1/4 • 4 • 5	3/4 (16)	27/64	1-1/8	1.30
81.876	6	1 (14)	31/64	1-9/32	1.46



S81
REPLACEMENT PARTS FOR NFPA PNEUMATIC CYLINDERS



CYLINDER SEAL KITS

Includes wiper seal, tube seal, cushion seal and piston seal.

Product No	⌀ Bore Size
81.052	1-1/2
81.057	2
81.062	2-1/2
81.067	3-1/4
81.072	4
81.077	5
81.082	6

ROD GLAND CARTRIDGE

Product No	⌀ Bore Size
81.032	1-1/2 • 2 • 2-1/2
81.037	3-1/4 • 4 • 5
81.042	6

PISTON ROD STUD

Product No	⌀ Bore Size
81.001	5/8
81.002	1

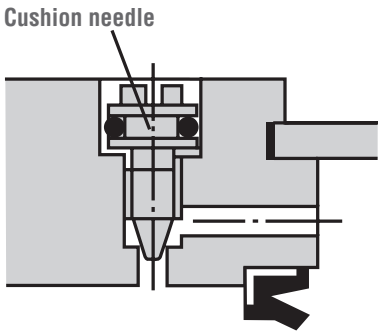
S81
PNEUMATIC CYLINDERS NFPA

CUSHIONING ADJUSTMENT

Cushioning is adjusted prior to shipment, but the cushion effect may change due to cylinder speed, load and inertial force.

When necessary, adjust the cushion needle as follows: turn cushion needle to the left or right, and adjust speed at stroke end so that shock is minimal and operation smoothness is optimal.

Turning to the left (right) opens (closes) the cushion needle.



CYLINDER SPEED ADJUSTMENT

Maximum cylinder operating speed is 25 inches/sec. If the speed is exceeded, the rod gland and seals will wear rapidly and the shock at stroke-end will increase. The result is shortened cylinder life and susceptibility to malfunction.

If cylinder speed is too low, the result will be sticking, slipping and unstable operation.

Cylinder speed varies depending on supply and exhaust tube diameter, air pressure, flow rate and load, and therefore must be adjusted to suit the intended use.

Adjustment is normally done using a speed control valve, but this is not always enough, and other factors may have to be considered (air pressure, load).

WARNING

TOPRING pneumatic cylinders are intended for use in industrial compressed air systems only. They must not be used where pressure or temperature may exceed maximum rated operating conditions (see specifications). In lubricated applications, some oil mist may escape from the point of use into the surrounding atmosphere.

Specifications

Working Fluid: Air

Working Pressure: 15 to 250 PSI

Lubrication: Not required

Working Temperature: -45 to 110 °C

Tightening torque for tie rod nut

⌀ Bore Size	Tie Rod Thread	Tightening Torque lb - ft
1-1/2	1/4 (28)	5
2 • 2-1/2	5/16 (24)	11
3-1/4 • 4	3/8 (24)	25
5 • 6	1/2 (20)	60

S81
PNEUMATIC CYLINDERS NFPA FOR SPECIAL APPLICATIONS

STAINLESS STEEL 304 OR 316



Stainless steel cylinders for use in food and drug-related industries
Standard stainless steel piston rod and tie rods

ADJUSTABLE STROKE RETURN TYPE



Return stroke stop position is infinitely adjustable within the adjustment range
Bore sizes available from 1-1/2 to 6 in

TANDEM CYLINDER



Single piston rod (two positions)
Double the force on the extend stroke
Bore sizes available from 1-1/2 to 6 in

ADJUSTABLE STROKE EXTENDED, DOUBLE ROD TYPE



Extended stroke stop position is infinitely adjustable within the adjustment range
Bore sizes available from 1-1/2 to 6 in

DUAL STROKE CYLINDER



Three positions from a single cylinder
Double the force on the extend stroke
Bore sizes available from 1-1/2 to 6 in

AIR/OIL TANK



Internal baffles reduce foaming and aeration of the oil, resulting in maximum cylinder control
Sight tube available
Bore sizes available in 2-1/2, 3-1/4, 4 and 5 in

MULTI-STAGE DOUBLE ROD ONLY



Multiple piston with 2 to 5 times the force of a standard cylinder
Can replace large bore cylinders or hydraulic systems
Reduces system costs
Bore sizes available in 3-1/4, 4, 5, and 6 in

VOLUME CHAMBER



Reservoir for extra air when needed in a pneumatic system
Available in all bore sizes

S81
PNEUMATIC CYLINDERS ISO / VDMA

Features and benefits

- Meet worldwide standards (ISO 6431), VDMA 24562
- Bore sizes: 32, 40, 50, 63, 80, 100, 125, 160, 200 mm
- Standard stroke lengths: 25 mm to 500 mm
- Corrosion-resistant extruded aluminum body
- Rated for 145 PSI at operating temperatures from -30 to 80 °C
- Available with many mounting styles
- Available with magnetic piston and limit switches
- Available with various seal and rod materials

NOTE:
Pneumatic cylinders ISO/VDMA available upon request



S83
STAINLESS STEEL PNEUMATIC CYLINDERS

Features and benefits

- Single and double acting units available in a variety of strokes and mounting styles
- Dimensionally interchangeable with other major brands, allowing for model and mounting retrofits
- Pre-lubricated: all cylinders are lubricated with a special high-endurance oil
- Pre-tested: each cylinder is tested for leakage

Specifications

Maximum Working Pressure: 250 PSI

Working Temperature: -29 to 93 °C

Fluid: Air

Lubrication: Not required

Materials

Cylinder Body: 304 Stainless steel for exceptional wear and corrosion resistance and prolong life service

Piston Rod: 303 Stainless steel - All rods have wrench flats

Piston and Caps: High strength aluminium alloy

Rod Guide Bushing: Oil-impregnated bronze bushing increases the service life of the cylinder rod and provides a better seamline surface

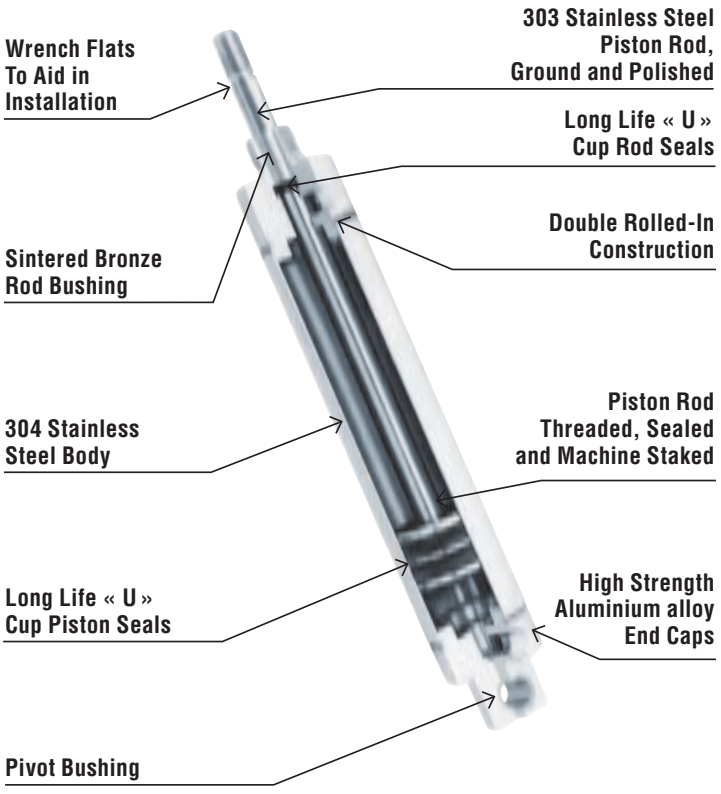
Spring: Piano wire spring designed for millions of cycles

Seals: Rubber nitrile seals ensure low breakaway friction and leak-free operation

Piston Rod Assembly: Piston rods are threaded, anaerobically sealed, and machine staked into the piston for triple protection

Optional: Viton® seals, magnetic switches and bumpers



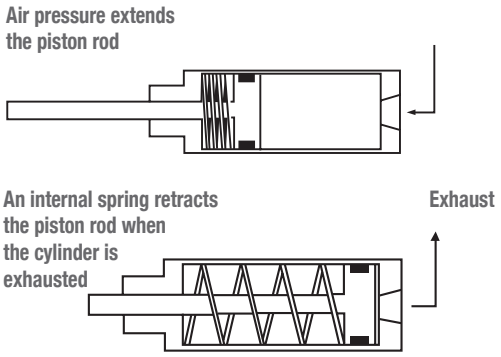


⌀ Bore Size	Push Forces (lb)				Pull Forces (lb)			
	at 50 PSI	at 100 PSI	at 150 PSI	at 200 PSI	at 50 PSI	at 100 PSI	at 150 PSI	at 200 PSI
3/4	22.0	44	66.0	88	19.5	39	58.5	78
1-1/16	44.5	89	133.5	178	40.5	81	121.5	162
1-1/4	61.5	123	184.5	246	53.5	107	160.5	214
1-1/2	88.5	177	265.5	354	81.0	162	243.0	324
2	157.0	314	471.0	628	141.0	283	424.0	566

S83
STAINLESS STEEL
SINGLE ACTING PNEUMATIC CYLINDERS

Cylinder operation

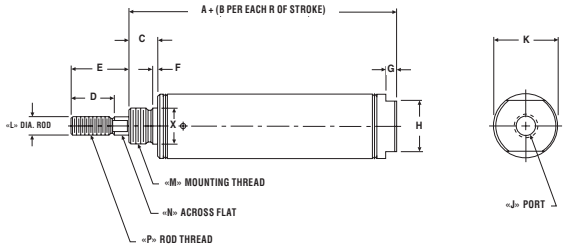
The piston rod is extended by pneumatic pressure and is mechanically returned to the retracted position by a spring within the cylinder.



NOSE MOUNT



Stroke (in)	Bore Size (in) 3/4 Product No	1-1/16 Product No	1-3/4 Product No	1-1/2 Product No
1	83.401	83.501	83.601	83.701
2	83.403	83.503	83.603	83.703
3	83.405	83.505	83.605	83.705
4	83.407	83.507	83.607	83.707

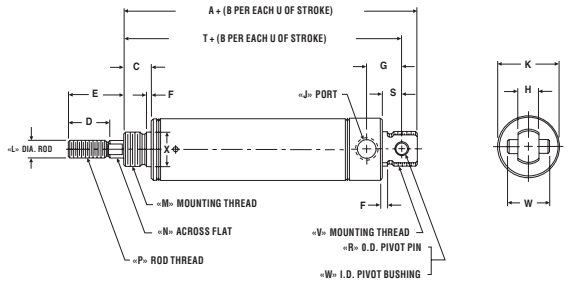


Bore Size	Dimensions (in) A	B	C	D	E	F	G	H	J (NPT)	K	L	M	N	P
3/4	1.50	1.68	0.43	0.50	0.50	0.05	0.18	0.62	1/8	0.81	0.25	1/2 (20)	0.21	1/4 (28)
1-1/16	1.93	1.56	0.50	0.75	0.50	0.06	0.18	0.87	1/8	1.12	0.31	5/8 (18)	0.25	5/16 (24)
1-3/4	2.40	1.81	0.62	0.75	1.00	0.09	0.18	0.87	1/8	1.34	0.43	3/4 (16)	0.37	7/16 (20)
1-1/2	2.18	1.68	0.62	0.75	1.00	0.09	0.25	0.87	1/8	1.56	0.43	3/4 (16)	0.37	7/16 (20)

UNIVERSAL MOUNT



Stroke (in)	Bore Size (in) 3/4 Product No	1-1/16 Product No	1-3/4 Product No	1-1/2 Product No
1	83.421	83.521	83.621	83.721
2	83.423	83.523	83.623	83.723
3	83.425	83.525	83.625	83.725
4	83.427	83.527	83.627	83.727



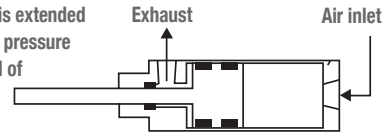
Bore Size	Dimensions (in) A	B	C	D	E	F	G	H	J (NPT)	K	L	M	N	P	R	S	T	V	W
3/4	2.56	1.68	0.43	0.50	0.50	0.05	0.62	0.37	1/8	0.86	0.25	1/2 (20)	0.21	1/4 (28)	0.25	0.34	2.28	5/8 (18)	0.75
1-1/16	2.81	1.56	0.50	0.50	0.50	0.06	0.62	0.37	1/8	1.12	0.31	5/8 (18)	0.25	5/16 (24)	0.25	0.34	2.53	5/8 (18)	0.75
1-3/4	3.53	1.81	0.62	0.75	1.00	0.09	0.71	0.50	1/8	1.34	0.43	3/4 (16)	0.37	7/16 (20)	0.25	0.40	3.12	3/4 (16)	0.87
1-1/2	3.25	1.68	0.62	0.75	1.00	0.09	0.81	0.62	1/8	1.56	0.43	3/4 (16)	0.37	7/16 (20)	0.37	0.50	2.87	--	1.00

S83
STAINLESS STEEL
DOUBLE ACTING PNEUMATIC CYLINDERS

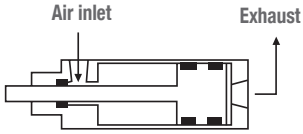
Cylinder operation

By alternately applying air pressure to the blind end and rod end of a double-acting cylinder, a reciprocating push and pull type output is obtained.

The piston rod is extended by directing air pressure to the blind end of the cylinder.



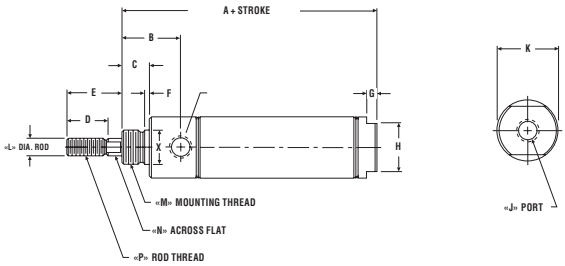
The piston rod retracts when air pressure is directed to the rod end of the cylinder.



NOSE MOUNT

Stroke (in)	Bore Size (in) ⊘ 3/4 Product No	1-1/16 Product No	1-3/4 Product No	1-1/2 Product No	2 Product No
1	83.441	83.541	83.641	83.741	83.961
2	83.443	83.543	83.643	83.743	83.963
3	83.445	83.545	83.645	83.745	83.965
4	83.447	83.547	83.647	83.747	83.967
5	83.449	83.549	83.649	83.749	83.969
6	83.451	83.551	83.651	83.751	83.971
8	83.453	83.553	83.653	83.753	83.973
10	83.455	83.555	83.655	83.755	83.975
12	83.457	83.557	83.657	83.757	83.977



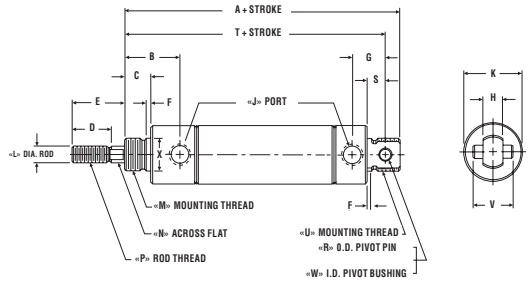


Bore Size ⊘	Dimensions (in) A	B	C	D	E	F	G	H	J (NPT)	K	L	M	N	P
3/4	2.96	0.96	0.43	0.50	0.50	0.05	0.18	0.62	1/8	0.81	0.25	1/2 (20)	0.21	1/4 (28)
1-1/16	3.12	1.06	0.50	0.75	0.50	0.06	0.18	0.87	1/8	1.12	0.31	5/8 (18)	0.25	5/16 (24)
1-1/4	3.75	1.18	0.62	0.75	1.00	0.09	0.18	0.87	1/8	1.34	0.43	3/4 (16)	0.37	7/16 (20)
1-1/2	3.43	1.25	0.62	0.75	1.00	0.09	0.25	0.87	1/8	1.56	0.43	3/4 (16)	0.37	7/16 (20)
2	4.31	1.50	0.81	0.87	1.25	0.10	0.25	1.25	1/4	2.09	0.62	1-1/4 (12)	0.56	1/2 (20)

UNIVERSAL MOUNT

Stroke (in)	Bore Size (in) ⊘ 3/4 Product No	1-1/16 Product No	1-3/4 Product No	1-1/2 Product No	2 Product No
1	83.461	83.561	83.661	83.761	83.861
2	83.463	83.563	83.663	83.763	83.863
3	83.465	83.565	83.665	83.765	83.865
4	83.467	83.567	83.667	83.767	83.867
5	--	83.569	83.669	83.769	83.869
6	--	83.571	83.671	83.771	83.871
8	--	83.573	83.673	83.773	83.873
10	--	83.575	83.675	83.775	83.875
12	--	83.577	83.677	83.777	83.877





Bore Size ⊘	Dimensions (in) A	B	C	D	E	F	G	H	J (NPT)	K	L	M	N	P	R	S	T	U	V	W
3/4	4.03	0.96	0.50	0.50	0.50	0.06	0.62	0.37	1/8	0.86	0.25	5/8 (18)	0.21	1/4 (28)	0.25	0.34	3.75	5/8 (18)	0.75	--
1-1/16	4.00	1.06	0.50	0.50	0.50	0.06	0.62	0.37	1/8	1.12	0.31	5/8 (18)	0.25	5/16 (24)	0.25	0.34	3.71	5/8 (18)	0.75	--
1-3/4	4.87	1.18	0.62	0.75	1.00	0.09	0.71	0.50	1/8	1.34	0.43	3/4 (16)	0.37	7/16 (20)	0.25	0.40	4.46	3/4 (16)	0.87	--
1-1/2	4.50	1.25	0.62	0.75	1.00	0.09	0.81	0.62	1/8	1.56	0.43	3/4 (16)	0.37	7/16 (20)	0.37	0.50	4.12	◇	1.00	--
2	5.68	1.50	0.81	0.87	1.25	0.10	0.93	0.75	1/4	2.09	0.62	1-3/4 (12)	0.56	1/2 (20)	--	0.56	5.25	1-3/4 (12)	0.37	0.37

◊ 1.00" diameter unthreaded

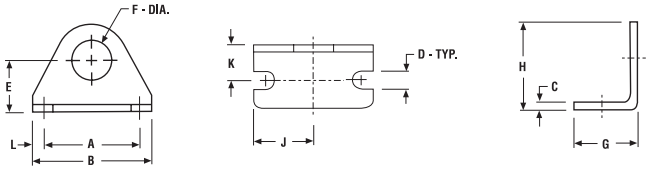
S83
ACCESSORIES FOR STAINLESS STEEL PNEUMATIC CYLINDERS

FOOT BRACKETS

Mounting nut included



Product No	Bore Size	Simple Acting	Double Acting
83.015	3/4	•	
83.020	3/4		•
83.020	1-1/16	•	•
83.025	1-1/4	•	•
83.025	1-1/2	•	•
83.030	2		•

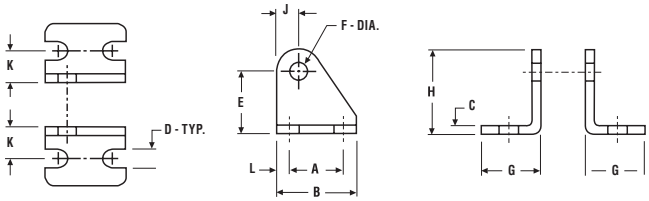


Product No	Dimensions (in)										
	A	B	C	D	E	F	G	H	J	K	L
83.015	1.25	1.62	0.10	0.18	0.68	0.50	0.75	1.09	0.81	0.43	0.18
83.020	1.50	1.87	0.12	0.28	0.81	0.62	1.00	1.37	0.93	0.56	0.18
83.025	1.87	2.50	0.15	0.28	1.00	0.75	1.50	1.75	1.25	0.75	0.31
83.030	2.25	3.12	0.25	0.34	1.50	1.37	1.62	2.56	1.56	1.00	0.43

PIVOT BRACKETS



Product No	Bore Size
83.035	3/4 (Pin not included)
83.035	1-1/16 (Pin not included)
83.035	1-1/4 (Pin not included)
83.040	1-1/2 (Pin not included)
83.045	2 (Pin included)



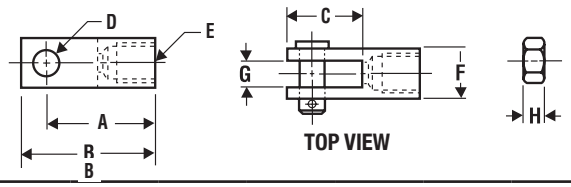
Product No	Dimensions (in)										
	A	B	C	D	E	F	G	H	J	K	L
83.035	0.75	1.12	0.12	0.26	0.87	0.25	0.81	1.18	0.31	0.43	0.18
83.040	1.00	1.50	0.12	0.26	1.37	0.37	1.00	1.75	0.37	0.62	0.25
83.045	1.00	1.50	0.25	0.34	1.37	0.37	1.12	1.75	0.37	0.68	0.25

ROD CLEVIS

Mounting nut included



Product No	Bore Size
83.050	3/4
83.055	1-1/16
83.060	1-1/4
83.060	1-1/2
83.065	2

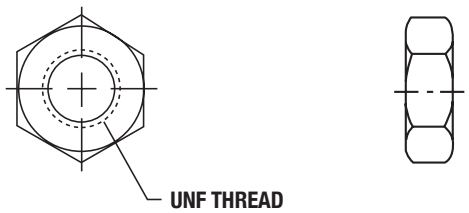


Product No	Dimensions (in)							
	A	B	C	D	E	F	G	H
83.050	0.93	1.18	0.68	0.25	1/4-28	0.50	0.25	0.15
83.055	0.93	1.18	0.68	0.25	5/16-24	0.50	0.25	0.18
83.060	1.31	1.68	0.93	0.37	7/16-20	0.75	0.37	0.25
83.065	1.31	1.68	0.93	0.37	1/2-20	0.75	0.37	0.37

MOUNTING NUTS



Product No	Bore Size	A
83.072	3/4 (single acting)	1/2 -20
83.074	3/4	5/8 -18
83.074	1-1/16	5/8 -18
83.076	1-1/4	3/4 -16
83.076	1-1/2	3/4 -16
83.078	2	1 1/4 -12



S85
FLOW CONTROL, QUICK EXHAUST AND CHECK VALVES



S85

PRECISION IN-LINE FLOW CONTROL VALVES

(WITH BUILT-IN CHECK VALVE)

Features and benefits

- For precise control of cylinder speeds, even at low speed
- Controlled flow of air in one direction, and maximum flow in opposite direction
- Can be mounted in-line
- Retaining lock nut prevents accidental loss of needle

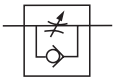
Material

Body: Aluminium alloy

Specifications

Fluid: Compressed air
Working Pressure: 0 to 140 PSI
Working Temperature: -10 to 80 °C





Product No	Thread (F) NPT	Airflow Cv
85.540	1/4	0.33
85.542	3/8	2.05
85.544	1/2	2.60

PRECISION IN-LINE FLOW CONTROL VALVES

(WITH BUILT-IN CHECK VALVE)

Features and benefits

- For precise control of cylinder speeds, even at low speed
- Controlled flow of air in one direction, and maximum flow in opposite direction
- Can be mounted in-line
- Retaining lock nut prevents accidental loss of needle

Materials

Body: Aluminium - zinc alloy
Needle: Brass
Diaphragm: Nitrile rubber

Specifications

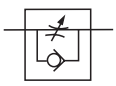
Fluids: Compressed air and vacuum
Working Pressure: 7 to 145 PSI
Working Temperature: 5 to 60 °C



85.505



85.535



Product No	Thread (F) NPT	Airflow SCFM	Applicable Cylinder Bore Size (in)	Number of needle rotations
85.505	1/8	12	3/4 to 1-1/4	9
85.510	1/4	12	3/4 to 1-1/4	9
85.515	1/4	28.6	1-1/4 to 2-1/2	8
85.520	3/8	28.6	1-1/4 to 2-1/2	8
85.525	1/4	59	1-1/2 to 4	8
85.530	3/8	59	1-1/2 to 4	8
85.535	1/2	59	1-1/2 to 4	8

S85

IN-LINE FLOW CONTROL AND NEEDLE VALVES

In-line flow control valves meter flow of air or oil in one direction and allow free flow in the reverse direction

Features and benefits

- Accurate and high flow control
- Positive no-leak stem seal
- Safe, positive stop for needle travel
- Precision-calibrated dial to determine flow and allow return to the required flow settings
- One-piece forged housing

Materials

Body: One-piece, high-tensile forged brass
Needle:
Heat-treated, ground and polished stainless steel
Ball and Cage: Stainless steel
Knob: Aluminium
Seal: Nitrile rubber

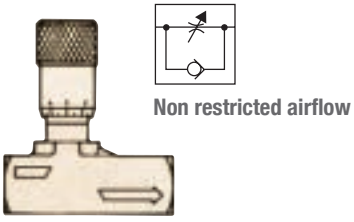
Specifications

Fluids: Compressed air and hydraulic oil
Maximum Working Pressure: 3000 PSI
Working Temperature: -23 to 71 ˚C
Check Valve Operating Pressure: 2 PSI



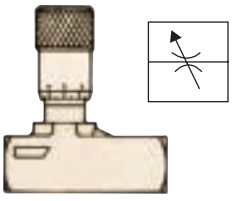
FLOW CONTROL VALVES
(WITH BUILT-IN CHECK VALVE)

Product No	Thread (F) NPT	Cv Factor Non restricted airflow	Cv Factor Maximum needle opening
85.374	1/8	0.60	0.30
85.376	1/4	1.30	0.60
85.378	3/8	2.85	1.08
85.380	1/2	4.96	1.75
85.381	3/4	9	3.20
85.383	1	9.20	3.20



NEEDLE VALVES

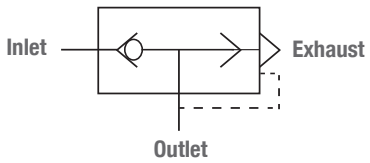
Product No	Thread (F) NPT	Cv Factor Maximum needle opening
85.382	1/8	0.30
85.384	1/4	0.60
85.386	3/8	1.08
85.388	1/2	1.75



S85
QUICK EXHAUST VALVES

Features and benefits

- Allow fast cylinder returns
- Designed to give quick exhaust by unrestricted airflow to the atmosphere so that back pressure will disperse in the shortest possible time
- High flow capacity and performance
- Compact and lightweight
- Easy installation directly to cylinder port (with a suitable connector)



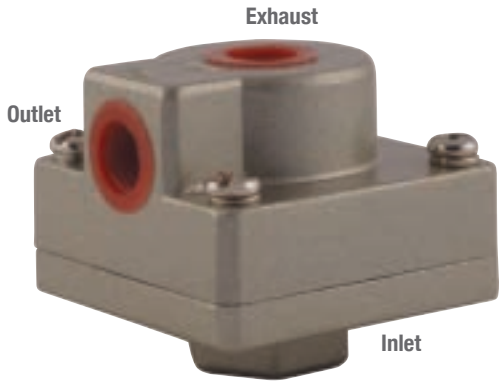
Applications

The quick exhaust valve added to a pneumatic circuit increases the exhaust capacity of the system.

This permits greater cylinder speeds without increasing the size of the control valve.

Materials

Body: Aluminium Alloy
Diaphragm and seal: Nitrile rubber



Specifications

Fluid: Compressed air
Working Pressure: 7 to 145 PSI
Ambient and Fluid Temperature: 5 to 60 °C

Product No	Thread (F) NPT	Airflow* SCFM
85.616	1/4	42
85.626	3/8	88
85.636	1/2	141

* At 73 PSI



Specifications

Fluid: Compressed air
Working Pressure: 7 to 140 PSI
Ambient and Fluid Temperature: -10 to 80 °C

Product No	Thread (F) NPT	Airflow* SCFM
85.640	1/8	31
85.642	1/4	64
85.644	3/8	81
85.646	1/2	106
85.648	3/4	136

* At 88 PSI

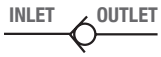
S85

IN-LINE CHECK VALVES

Ideal for safety purposes – prevent pressure loss in the event of air supply failures or air supply shutoff.
Check valves allow free flow from the inlet to the work port and block flow in the other direction

IN-LINE CHECK VALVES





Product No	Thread (M) NPT
85.650	1/4
85.655	3/8

Materials

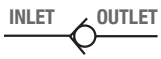
Body: Brass
Spring: Stainless steel
O-ring: Viton ® (FKM)

Specifications

Fluid: Compressed air
Maximum Working Pressure: 250 PSI
Ambient and Fluid Temperature: -40 to 120 °C
Cracking Pressure: 1 PSI

IN-LINE CHECK VALVES





Product No	Thread (M) NPT
85.690	1/8
85.692	1/4
85.694	3/8
85.696	1/2

Materials

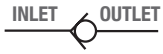
Body: Aluminium Alloy

Specifications

Fluid: Compressed air
Maximum Working Pressure: 114 PSI
Ambient and Fluid Temperature: -10 to 80 °C

S85
IN-LINE CHECK VALVES





Product No	Thread (M) NPT
85.390	1/8
85.392	1/4
85.394	3/8
85.396	1/2
85.398	3/4
85.399*	3/4
85.420	1
85.422	1-1/2
85.423*	1-1/2

*HF : High flow

Materials
Body: Brass
Spring: Stainless steel
O-ring: Nitrile rubber

Specifications
Fluid: Compressed air
Maximum Working Pressure: 500 PSI
Ambient and Fluid Temperature: -40 to 230 °C
Cracking Pressure: 1 PSI

ADJUSTABLE RELIEF VALVES

Sensitive diaphragm relief valve for use where gradual, relief is required.

Features and benefits
- Adjustment knob works as a miniature regulator
- 3 inlet ports: (1) 1/4 NPT / (2) 1/8 NPT
  1 exhaust port: 1/4 NPT



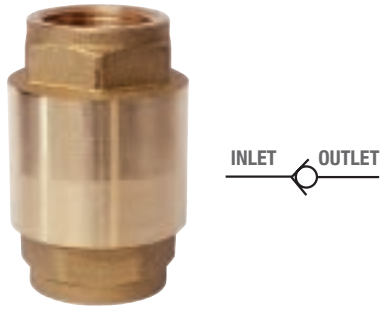
Product No	Pressure Range PSI
85.402	0 - 15
85.404	0 - 25
85.406	0 - 50
85.408	0 - 100

Materials
Body: Brass
Diaphragm/Disc: Nitrile rubber
Cage: Acetal
Adjusting Knob: Polypropylene
Adjusting Screw and Spring: Zinc-plated steel

Specifications
Working Temperature: 4 to 49 °C
Maximum Working Pressure: 300 PSI

S85

EUROPA® CHECK VALVES



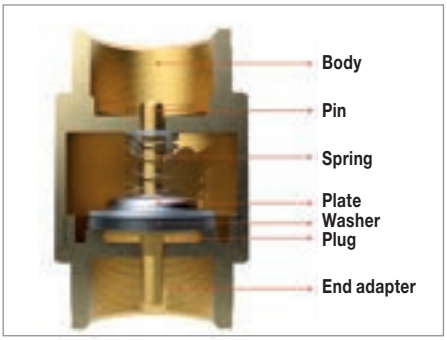
Materials

Body: Brass
Pin: Brass
Spring: Stainless steel 302
Plate: Stainless steel 304
Washer: Nitrile rubber
Plug: Brass
End adapter: Brass

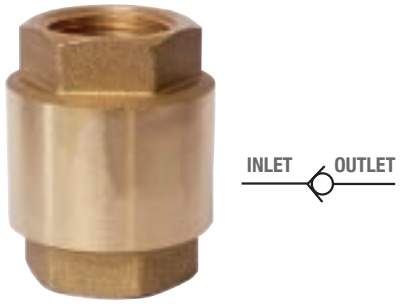
Specifications

Fluids: Compressed air and water
Ambient and Fluid Temperature: -20 to 100 °C

Product No	Thread (F) NPT	Maximum Working Pressure PSI
85.710	1/4	200
85.715	3/8	362.5
85.720	1/2	362.5
85.725	3/4	362.5
85.730	1	362.5
85.735	1-1/4	261
85.740	1-1/2	261
85.745	2	261
85.746	2-1/2	174
85.747	3	174
85.748	4	174



YORK® CHECK VALVES



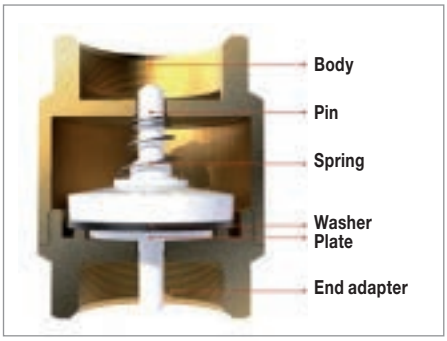
Materials

Body: Brass
Pin: Polymer
Spring: Stainless steel 302
Washer: Nitrile rubber
Plate: Polymer
End adapter: Brass

Specifications

Fluids: Compressed air and water
Ambient and Fluid Temperature: -20 to 100 °C

Product No	Thread (F) BSPP	Maximum Working Pressure PSI
85.750	3/8	174
85.752	1/2	174
85.754	3/4	174
85.756	1	174
85.758	1-1/4	145
85.760	1-1/2	145
85.762	2	145
85.764	2-1/2	116
85.766	3	116
85.768	4	116



S85

SHUTTLE VALVES

(«OR» LOGIC FUNCTION)

Features and benefits

- Direct the flow of air from 2 sources to a common outlet. This valve automatically selects the greatest pressure
- Known as a 3 port check valve, which has 1 outlet and 2 inlets. The outlet is always connected to the high-pressure side and is used to close the inlet of the low-pressure side
- A common application is to control a cylinder from 2 different positions

Material

Body: Anodized aluminium

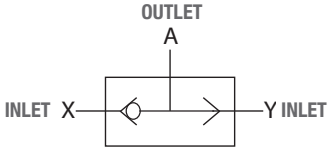
Specifications

Fluid: Compressed air

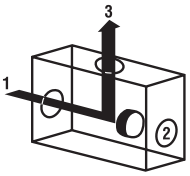
Working Pressure: 12 to 140 PSI

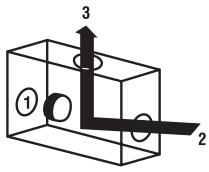
Ambient Temperature: -10 to 80 °C





Product No	Thread (F) NPT
85.805	1/8
85.810	1/4





DOUBLE PRESSURE VALVE

(«AND» LOGIC FUNCTION)

Features and benefits

- Requires the flow of air from 2 individual sources to a common outlet
- Provides an output signal upon nearly concurrent operation of two push buttons (inlets)

Material

Body: Anodized aluminium

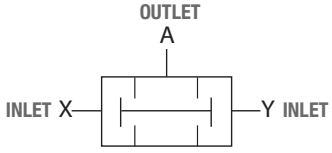
Specifications

Fluid: Compressed air

Working Pressure: 12 to 140 PSI

Ambient Temperature: -10 to 80 °C





Product No	Thread (F) NPT
85.815	1/8

WARNING

Double pressure valves do not, by themselves, ensure the safety of any machine. Users and original equipment manufacturers are responsible for making sure that installations meet all relevant safety regulations.

S86
PNEUMATIC MUFFLERS



S86

PNEUMATIC MUFFLERS

As users are exposed to noise from industrial equipment, machinery and tools. In the long run, all these noises contribute to hearing loss.

The impact of repetitive noise is too often underestimated. Evidence shows that continuous, repetitive exposure to noise exceeding 90 dB causes permanent hearing loss. The noise generated by the operation of pneumatic valves is more dangerous because it can lead to permanent hearing damage.

The brain is unable to distinguish the noise level of staccato sounds attacking the hearing and therefore cannot adapt to it. Repetitive noise is perceived by the brain as a continuous sound. A 1/2" valve controlling a pneumatic cylinder (at 3 cycles per second) can produce a sound equivalent to a 92 dB continuous sound.

Working in this type of environment continuously can cause permanent hearing damage. Fortunately, this type of sound can be controlled because **TOPRING** mufflers stifle the air exhaust noise of the pneumatic valves.



THE BENEFITS OF NOISE REDUCTION

- Preserving hearing and reducing the number of users with occupational hearing loss and the degree of severity
- Reduce the risk of accidents since alarms, sound warnings, equipment failures and conversations are easier to hear and distinguish
- Provide a less aggressive and less stressful audio environment, improving staff productivity
- The users will benefit from a better quality of life at work and, consequently reducing the company's operating costs

TECHNICAL POINTS TO CONSIDER WHEN SELECTING A MUFFLER

- Pneumatic mufflers should not reduce the air flow below the limit specified by the manufacturer
- Inspection and regular maintenance of mufflers is essential to their proper functioning.
- Impurities (eg rust) in the compressed air system will gradually obstruct the mufflers and reduce their capacity to evacuate air
- For safety reasons, plastic mufflers are not recommended for use with compressed air systems

PERMISSIBLE NOISE EXPOSURE

Duration per day, in hours	Sound Level dB (A)
8	90
6	92
4	95
3	97
2	100
1-1/2	102
1	105
1/2	110
1/4 or less	115

References:
OSHA 29 CFR PART 1910.95(b)(2)
CSST L.R.Q., c. S-2.1, r.19.01 Section XV, 131.

NOISE

An irritating noise is a form of pollution that can damage hearing and reduce the quality of life. In addition to developing physical stress, noise is also a definite threat to hearing and can promote aggressivity.

Noise control is a challenge that must be addressed and managed by industries.



NOISE REDUCTION

S86
AIR EXHAUST MUFFLERS / FILTERS

Features and benefits
- Complete protection against harmful exhaust noises
- Meets all requirements for effective exhaust noise control, with a negligible reduction in operating efficiency
- Expansion chamber is completely free of obstructions, from which the exhaust air, at reduced velocity, is softly dispersed through the ports of the muffler
- Anti-corrosion
- Standard male pipe-thread connections for quick and easy attachment to the air exhaust port
- Installation in protected areas free from excess vibration
- Can be used as filters for compressed air

Applications
Pneumatic cylinders, valves, tools, hoists, clutches and other air-operated devices

Materials
Body: Cast Aluminium

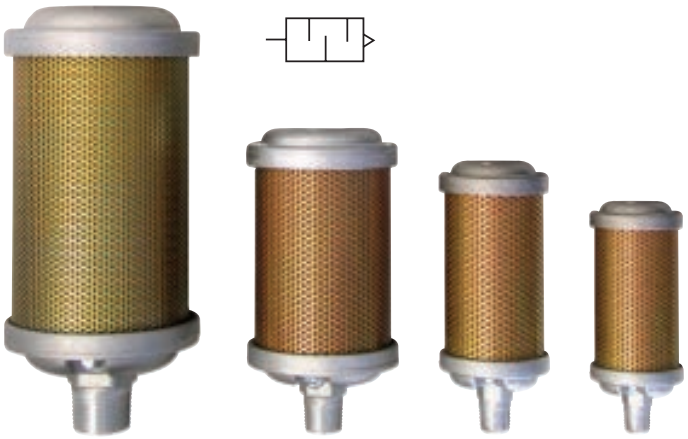
Tie Rods and Lock Nuts: Steel

Disseminator: Cellulose fiber / Steel

Specifications
Maximum Working Pressure: 125 PSI

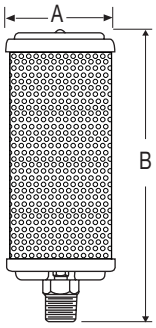
Working Temperature Range: 40 to 163 °C

Noise Reduction: Up to 85%



NPT

Product No	Thread (M) NPT	Airflow SCFM at 90 PSI	Dimensions (in)	
			A	B
86.700	1/8	44	1.84	3.12
86.705	1/4	84	1.84	4.37
86.710	3/8	192	2.59	5.12
86.715	1/2	256	3.15	6.00
86.720	3/4	544	3.40	7.18
86.725	1	800	3.90	8.75
86.730	1-1/4	1360	3.90	8.75
86.735	1-1/2	2080	5.25	13.56
86.740	2	3200	5.25	18.87



PROBLEM

Noisy airstream discharged from air system outlets

NOISE REDUCTION



Machines components such as pneumatic control valves and pneumatic cylinders, operating with compressed air, emit noises when the air is released into the atmosphere. These noises are due to the turbulence of the air which is exhausted at high speed under pressure.

SOLUTION

Air exhaust mufflers designed for exhaust ports

NOISE REDUCTION



Air exhaust mufflers mounted on compressed air outlets help reduce noise.



S86
RELIEF VALVE MUFFLERS

Includes all the features of the **TOPRING** air exhaust mufflers/filters plus an added relief valve to regulate pressure and optimize performance.

Superior design and construction provides a low-cost effective method of eliminating annoying, distracting noise emitted from air-operated devices.

The relief valve regulates pressure by detecting any outflow deviation, responding to the pressure differential and compensating for excess outflow.

Eliminate excessive noise by dividing the airflow and turning it back on itself. As air exhaust enters the expansion chamber at high velocity, the muffler redirects it into smaller airflow that rebounds off opposing walls of the chamber. With the airflows colliding with each other, the velocity is reduced and the air is dispersed throughout the disseminator (filter element) surface area.

Features and benefits

- Efficiently eliminates excessive noise for a more pleasant work environment while reducing potential physical injuries caused by extreme air blasts
- Full-flow design uses interposing sound waves
- Obstruction-free expansion chamber and porous disseminator (filter element) to completely dissipate harmful air exhaust blast
- Ideal for reducing Exponentially Perceived Noise (EPNdB)

Applications

Ideal for applications where uninterrupted continuous outflow is required

Materials

Body: Aluminium

Tie Rods and Lock Nuts: Zinc plated CRS

Discharge Valve: Stainless steel 409

Fiber: Cellulose fiber

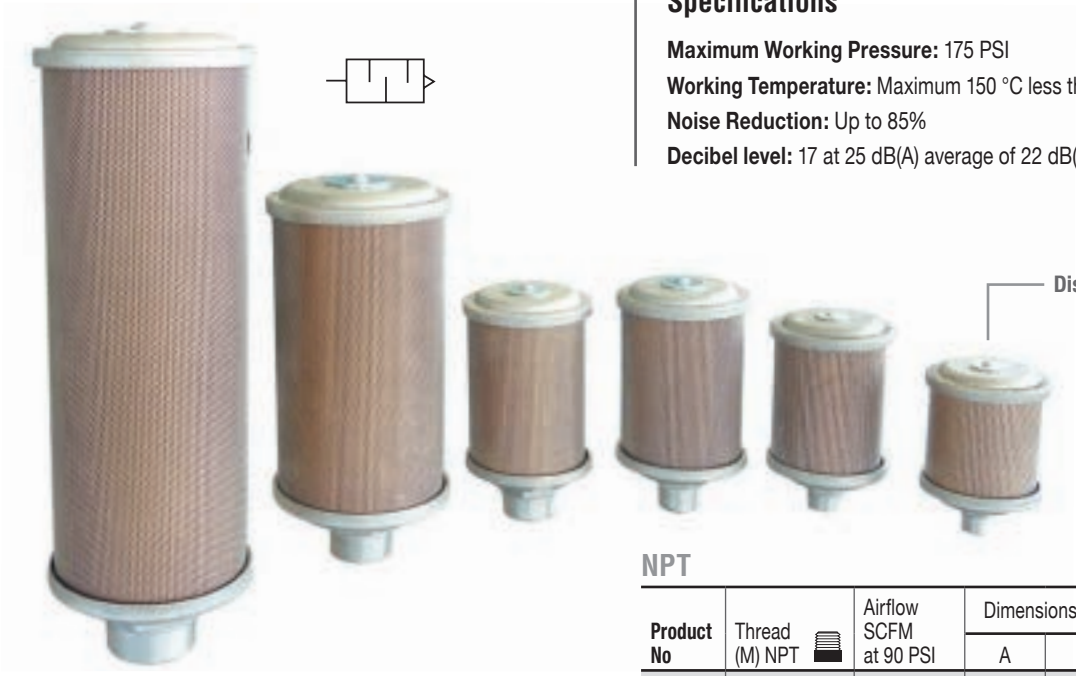
Specifications

Maximum Working Pressure: 175 PSI

Working Temperature: Maximum 150 °C less than 30 minutes

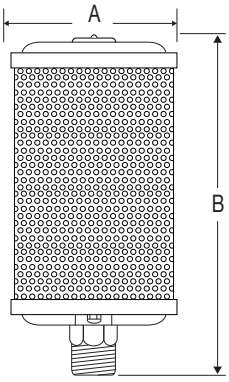
Noise Reduction: Up to 85%

Decibel level: 17 at 25 dB(A) average of 22 dB(A)



NPT

Product No	Thread (M) NPT	Airflow SCFM at 90 PSI	Dimensions (in)	
			A	B
86.760	1/2	256	3.15	6.00
86.765	3/4	544	3.40	7.18
86.770	1	800	3.90	8.75
86.775	1-1/4	1360	3.90	8.75
86.780	1-1/2	2080	5.25	13.56
86.785	2	3200	5.25	18.87



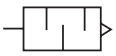
S86
MUFFLERS / FILTERS

Muffler/filters are ideal for silencing compressed air exhausting from such devices as air valves, air motors and impact air tools. In addition, they also prevent valve ports from being contaminated by outside impurities.

Features and benefits

- Efficient noise reduction
- Compact and lightweight
- Low-flow restriction
- Long service life
- Easy to install





NOISE REDUCTION



NPT

Product No	Thread (M) NPT
86.145	1/8
86.150	1/4
86.155	3/8
86.160	1/2
86.165	3/4
86.170	1

Materials

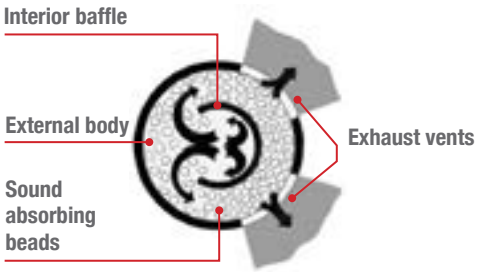
Body: Molded acetal plastic
Element: Acetal plastic beads

Specifications

Maximum Working Pressure: 116 PSI
Working Temperature: 5 to 80 °C
Noise Reduction: ≥ 30 dB

TECH TIP

Mufflers require no maintenance when used under normal work conditions. When used with dirty or oily air, periodic cleaning with a petroleum-based solvent is recommended. Mufflers can be installed so that air flows in the desired direction (away from the user).







NOISE REDUCTION



NPT

Product No	Thread (M) NPT
86.146	1/8
86.151	1/4
86.156	3/8
86.161	1/2
86.166	3/4
86.171	1

BSPT

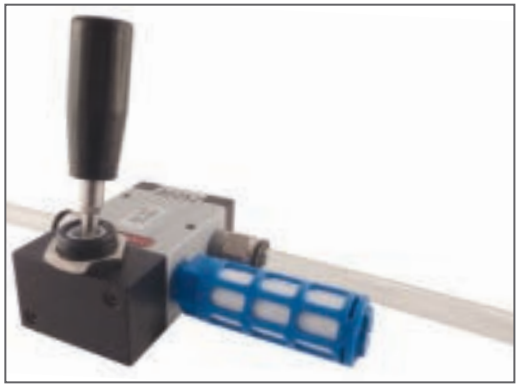
Product No	Thread (M) BSPT
86.147	1/8
86.152	1/4
86.157	3/8
86.162	1/2

Materials

Body: Molded acetal plastic
Element: Polyethylene (PE)

Specifications

Maximum Working Pressure: 150 PSI
Working Temperature: 5 to 80 °C
Noise Reduction: ≥ 30 dB



S86

SINTERED BRONZE OR STAINLESS STEEL MUFFLERS / FILTERS

Features and benefits

- Diffuses air and disperses noise from the exhaust ports of valves, cylinders and air tools
- Compact – ideal for use in limited spaces
- Easy to install and maintain
- Tough, cellular, sintered metal structure, secured to metal body, providing an ideal combination of strength and performance
- Can be used as filters for compressed air
- Prevents contaminants like metal chips, abrasive grit, dust from entering open exhaust ports and causing premature valve failure
- Can be cleaned with conventional solvents

Applications

Pneumatic valves
Exhaust and port filtering
Coalescing filtration of oil mist and/or water vapor
Pressure or vacuum regulation

Materials

Body: Brass or Stainless steel

Element: Sintered bronze or Sintered stainless steel

Specifications

Maximum Working Pressure: 116 PSI

Working Temperature: -10 to 250 °C



Sintered Bronze



Sintered Stainless steel



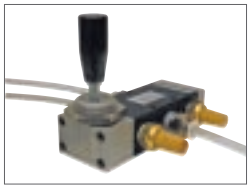
NPT

Sintered Bronze Product No	Stainless Steel Product No	Thread (M) NPT	Airflow SCFM at 90 PSI
86.100	**--**	10-32 ◇	--
86.105	**86.107**	1/8	34
86.110	**86.112**	1/4	68
86.115	**86.116**	3/8	102
86.120	**--**	1/2	186
86.125	**--**	3/4	322
86.130	**--**	1	353

◇ 10-32: (M) UNF

BSPT

Sintered Bronze Product No	Thread (M) BSPT
86.104	1/8
86.109	1/4
86.114	3/8
86.119	1/2

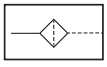


COMPACT BREATHER VENT FILTERS

Features and benefits

- Features and benefits
- Can be inserted into the exhaust ports of pneumatic equipment without affecting the volume or space
- Filter element: 40 micron
- • Useful when space is limited and / or to prevent contamination





NPT

Product No	Thread (M) NPT	Airflow SCFM at 90 PSI
86.200	1/8	30
86.205	1/4	50
86.210	3/8	80
86.215	1/2	120
86.220	3/4	200
86.225	1	280

Applications

Used on single acting cylinders or valves to prevent dirt and particles from entering ports from entering opened ports

Materials

Body: Brass

Element:
Sintered porous bronze

Specifications

Maximum Working Pressure:
1/8, 1/4: 174 PSI
3/8, 1/2, 3/4, 1: 125 PSI

Working Temperature Range:
1/8, 1/4 : -10 to 80 °C
3/8, 1/2, 3/4, 1 : 4 to 149 °C



S86
SPEED CONTROL MUFFLERS

Speed control mufflers provide safe airflow regulation at an acceptable sound level on exhaust ports of air control valves.

Applications

Speed control mufflers are recommended with any 5 port, dual-exhaust pneumatic valves

Speed control mufflers are screwed into the pneumatic valve exhaust ports. The cylinder exhaust is throttled by the adjustable port flow control, and back pressure is developed, reducing the cylinder stroke period.

Features and benefits

- Compact size
- Easy to install
- Adjustable calibrated conical valve provides precise airflow adjustment for sensitive pressure applications and for vacuum relief on vacuum systems
- Using the external adjustment screw, the opening of the orifice can be adjusted from “closed” to “high flow”, as required
- Locks securely with a lock nut. The muffler cannot be inadvertently tampered with, removed or blocked





Easy to adjust knob, no screw driver needed

Materials

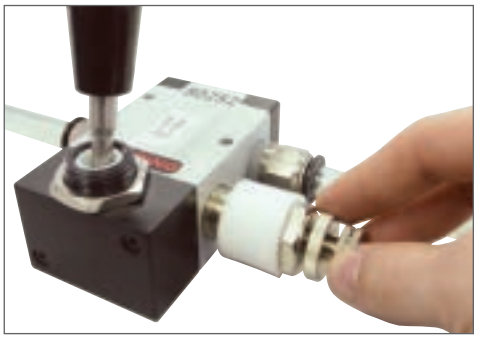
Body: Brass nickel plated
Element: Polyethylene

Specifications

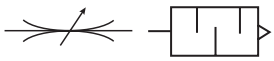
Maximum Working Pressure: 145 PSI
Working Temperature: -10 to 250 °C

NPT

Product No	Thread (M) NPT	Airflow SCFM at 90 PSI
86.800	1/8	30
86.805	1/4	51
86.810	3/8	70
86.815	1/2	100
86.820	3/4	130







Tough, cellular, sintered Bronze structure, secured to bronze body, ensures desired combination of filtering and muffling with adjustable flow

Materials

Body: Bronze
Element: Sintered bronze

Specifications

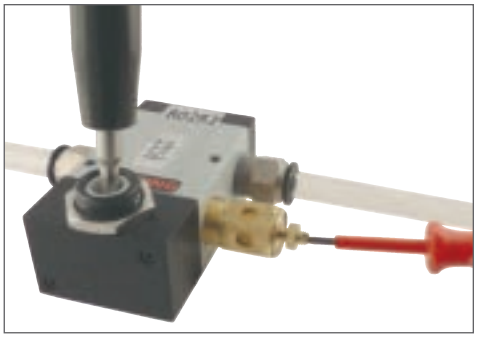
Maximum Working Pressure: 145 PSI
Working Temperature: 0 to 149 °C
Filtration element: 40 micron

NPT

Product No	Thread (M) NPT	Airflow SCFM at 90 PSI
86.300	1/8	23
86.305	1/4	51
86.310	3/8	73
86.315	1/2	140
86.320	3/4	325
86.325	1	573

BSPT

Product No	Thread (M) BSPT
86.301	1/8
86.306	1/4
86.311	3/8
86.316	1/2



S86
HIGH FLOW PNEUMATIC MUFFLERS

Quick, inexpensive method to reduce work area noise. In addition, they also prevent valve ports from being contaminated by outside impurities.

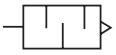
Applications

deally suited for exhaust ports of pneumatic valves and air tools

Features and benefits

- Tough, compact and ideally suited for use in limited spaces
- High flow capacity
- Minimal back pressure
- Corrosion-resistant metal resistant to chocs and intensive continuous use





Designed with a precise distribution of peripheral openings, the mufflers softly disperse exhaust air uniformly over a 360° pattern to provide effective reduction of air exhaust noise

Materials

Body: Zinc plated steel
Screen: Brass

Specifications

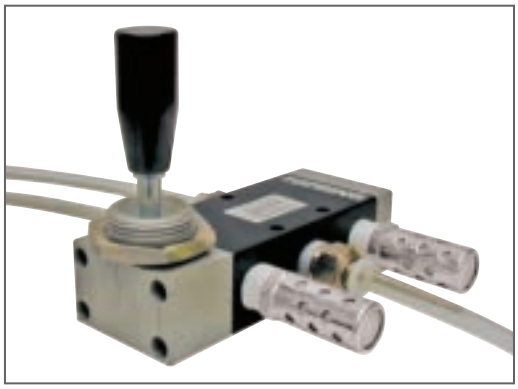
Maximum Working Pressure: 125 PSI
Working Temperature: 4 to 149 °C

NPT

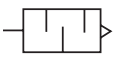
Product No	Thread (M) NPT	Airflow SCFM at 90 PSI
86.600	1/8	25
86.605	1/4	30
86.610	3/8	61
86.615	1/2	91
86.620	3/4	160
86.625	1	187
86.630	1-1/4	230
86.635	1-1/2	252
86.640	2	308

BSPT

Product No	Thread (M) BSPT
86.601	1/8
86.606	1/4
86.611	3/8
86.616	1/2







Slotted body permits rapid discharge of air without undesirable back pressure

Material

Body: Aluminium

Specifications

Maximum Working Pressure: 300 PSI
Working Temperature: 4 to 149 °C

NPT

Product No	Thread (M) NPT	Airflow SCFM at 90 PSI
86.400	1/8	42
86.405	1/4	54
86.410	3/8	121
86.415	1/2	146
86.420	3/4	230
86.425	1	237



Technical Data

Units and Conversion Tables..... 591
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UNITS AND CONVERSION TABLES

CONVERSION FACTORS

From	Multiply by	=	From	Multiply by	=
POWER					
1 "horsepower" = hp	0.746	kiloWatts = kW	1 kiloWatts = kW	1.34	"horsepower" = hp
VOLUME					
1 inch^3 = in^3	16.387	centimetre^3 = cm^3	1 centimetre^3 = cm^3	0.061	inch^3 = in^3
1 feet^3 = ft^3	0.0283	metre^3 = m^3	1 metre^3 = m^3	35.3	feet^3 = ft^3
1 feet^3 = ft^3	28.32	litre = l	1 litre = l	0.0353	feet^3 = ft^3
1 gallon (U.S.)	3.785	litre = l	1 litre = l	0.264	gallon (U.S.)
1 gallon (U.S.)	0.1337	feet^3 = ft^3	1 feet^3 = ft^3	7.48	gallon (U.S.)
1 gallon (imperial)	4.546	litre = l	1 litre = l	0.22	gallon (imperial)
1 gallon (imperial)	0.1605	feet^3 = ft^3	1 feet^3 = ft^3	6.23	gallon (imperial)
1 metre^3 = m^3	1000	litre = l	1 litre = l	0.001	metre^3 = m^3
1 ounce (liquid) U.S. = oz	29.574	millilitre = ml	1 millilitre = ml	0.0338	ounce (liquid) U.S. = oz
1 ounce (liquid) imperial = oz	28.413	millilitre = ml	1 millilitre = ml	0.0352	ounce (liquid) imperial = oz
LENGTH					
1 inch = in	25.4	millimetre = mm	1 millimetre = mm	0.03937	inch = in
1 feet = ft	0.3048	metre = m	1 metre = m	3.281	feet = ft
MASS					
1 ounce = oz	28.35	gram = g	gram = g	0.03527	1 ounce = oz U.S.
1 pound = lb	453.592	gram = g	gram = g	0.002205	1 pound = lb

TEMPERATURE

Fahrenheit to Celsius
(°F - 32) x 5/9 = °C

Celsius to Fahrenheit
(0 °C x 9/5) + 32° = °F

FLOW RATE CONVERSION

FROM ↓ / → TO	litre/sec	litre/min	gallon/min	ft^3/sec	ft^3/min (SCFM)
litre/sec	1	60.0	15.8	0.0353	2.12
litre/min	0.0167	1	0.264	0.000589	0.0353
gallon/min	0.0631	3.789	1	0.00223	0.134
ft.cu/sec	28.3	1700	449	1	60.0
ft.cu/min (SCFM)	0.472	28.3	7.48	0.0167	1

PRESSURE CONVERSION

FROM ↓ / → TO	m Hg	in Hg	ft H_2O	atm	Bar	lb/in PSI	kg-f/cm^2	kPa
mm Hg	1	0.0394	0.0446	0.00132	0.00133	0.0193	0.00136	0.133
in Hg	25.4	1	1.13	0.0334	0.0339	0.491	0.0345	3.39
ft H_2O	22.4	0.883	1	0.0295	0.0299	0.434	0.0305	2.99
atm	760	29.9	33.9	1	1.01	14.7	1.03	101
Bar	750	29.5	33.5	0.987	1	14.5	1.02	100
lb/po^2 (PSI)	51.7	2.04	2.31	0.068	0.0689	1	0.0703	6.89
kg-f/cm^2	736	29.0	32.8	0.968	0.981	14.2	1	98.1
kPa	7.50	0.295	0.335	0.00987	0.01	0.145	0.0102	1

Hg = Mercury

Example: 1 bar = 14.5 PSI

DECIMAL AND METRIC EQUIVALENTS OF FRACTIONS

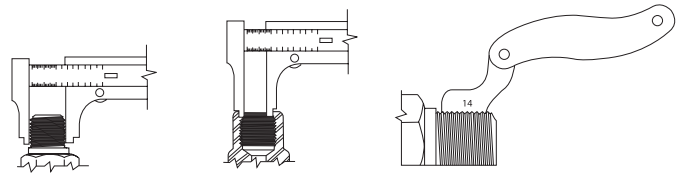
	in	mm
1/64	.0156	0.397
1/32	.0313	0.794
3/64	.0469	1.191
1/16	.0625	1.588
5/64	.0781	1.984
3/32	.0938	2.381
7/64	.1094	2.778
1/8	.1250	3.175
9/64	.1406	3.572
5/32	.1562	3.969
11/64	.1719	4.366
3/16	.1875	4.762
13/64	.2031	5.159
7/32	.2188	5.556
15/64	.2344	5.953
1/4	.2500	6.350
17/64	.2656	6.747
9/32	.2812	7.144
19/64	.2969	7.541
5/16	.3125	7.938
21/64	.3281	8.334
11/32	.3438	8.731
23/64	.3594	9.128
3/8	.3750	9.525
25/64	.3906	9.922
13/32	.4062	10.319
27/64	.4219	10.716
7/16	.4375	11.112
29/64	.4531	11.509
15/32	.4688	11.906
31/64	.4844	12.303
1/2	.5000	12.700

	in	mm
33/64	.5156	13.097
17/32	.5313	13.494
35/64	.5469	13.891
9/16	.5625	14.288
37/64	.5781	14.684
19/32	.5938	15.081
39/64	.6094	15.478
5/8	.6250	15.875
41/64	.6406	16.272
21/32	.6562	16.669
43/64	.6719	17.066
11/16	.6875	17.462
45/64	.7031	17.859
23/32	.7188	18.256
47/64	.7344	18.653
3/4	.7500	19.050
49/64	.7656	19.447
25/32	.7812	19.844
51/64	.7969	20.241
13/16	.8125	20.638
53/64	.8281	21.034
27/32	.8438	21.431
55/64	.8594	21.828
7/8	.8750	22.225
57/64	.8906	22.822
29/32	.9062	23.019
59/64	.9219	23.416
15/16	.9375	23.812
61/64	.9531	24.209
31/32	.9688	24.606
63/64	.9844	25.003
1	1.000	25.400

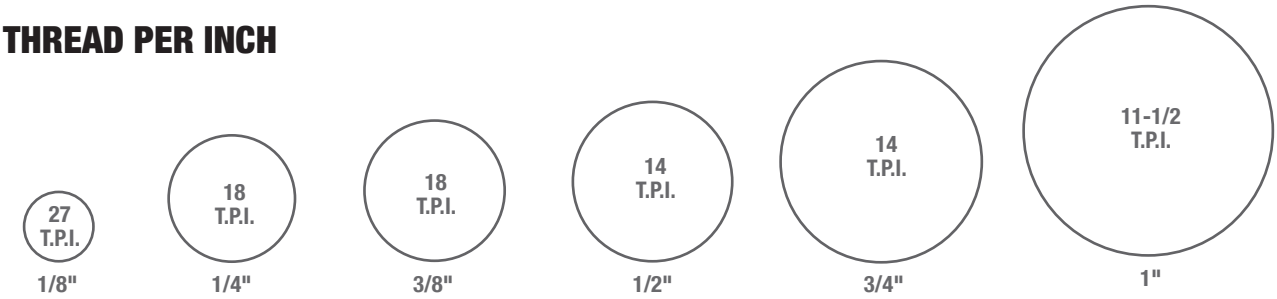
THREAD TYPES

With the caliper measure the thread diameter at the largest point. (O.D. of male threads - I.D. of female threads).

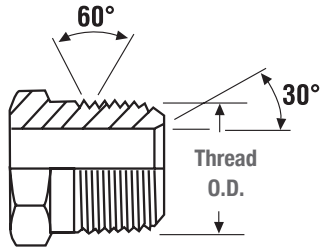
Using the pitch gauge determine the number of threads per inch. Comparison of gauge and coupling threads against a lighted background will insure an accurate reading.



T.P.I. = THREAD PER INCH



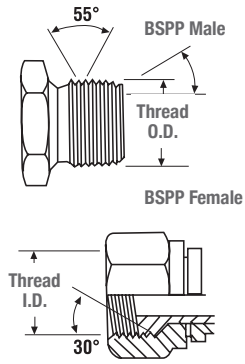
NPTT = NATIONAL PIPE THREAD TAPERED



Nominal Size in	T.P.I. Threads Per inch	Male Thread O.D. in	Female Thread I.D. in
1/8	27	3/8	23/64
1/4	18	35/64	15/32
3/8	18	43/64	19/32
1/2	14	27/32	3/4
3/4	14	1-1/16	61/64
1	11-1/2	1-5/16	1-13/64
1-1/4	11-1/2	1-43/64	1-17/32
1-1/2	11-1/2	1-29/32	1-25/32
2	11-1/2	2-3/8	2-1/4

BSPP = BRITISH STANDARD PIPE PARALLEL

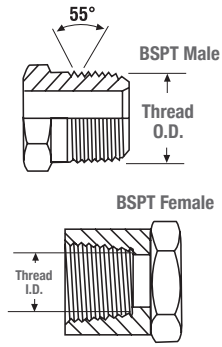
The BSPP (parallel) male will mate with a BSPP (parallel) female or a female port.



Nominal Size in	Thread Size	Male Thread O.D. in	Female Thread I.D. in
1/8	1/8-28	3/8	11/32
1/4	1/4-19	17/32	15/32
3/8	3/8-19	21/32	19/32
1/2	1/2-14	13/16	3/4
5/8	5/8-14	29/32	13/16
3/4	3/4-14	1-1/32	31/32
1	1 -11	1-11/32	1-7/32
1-1/4	1-1/4-11	1-21/32	1-17/32
1-1/2	1-1/2-11	1-7/8	1-25/32
2	2 -11	2-11/32	2-7/32

BSPT = BRITISH STANDARD PIPE / TAPERED

The BSPT (tapered) male will mate with a BSPT (tapered) female, or a BSPP (parallel) female



Nominal Size in	Thread Size	FMale Parallel Thread O.D. in	Female Tapered Thread I.D. in
1/8	1/8-28	3/8	11/32
1/4	1/4-19	17/32	15/32
3/8	3/8-19	21/32	19/32
1/2	1/2-14	13/16	3/4
5/8	5/8-14	29/32	13/16
3/4	3/4-14	1-1/32	31/32
1	1 -11	1-11/32	1-7/32
1-1/4	1-1/4-11	1-21/32	1-17/32
1-1/2	1-1/2-11	1-7/8	1-25/32
2	2 -11	2-11/32	2-7/32

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