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Safety Statement

Dixon’s couplings and retention devices are designed to work safely for their intended use. The selection of the proper hose, coupling, and retention device, and the proper application of the coupling to the hose are of utmost importance.

Users must consider the size, temperature, application, media, pressure, and hose and coupling manufacturer’s recommendations when selecting the proper hose assembly components. Dixon® recommends that all hose assemblies be tested in accordance with the Association for Rubber Products Manufacturer’s (ARPM) recommendations and be inspected regularly (before each use) to ensure that they are not damaged or have become loose. Visit ARPMINC.com for more information.

Where safety devices are integral to the coupling, they must be working and utilized. The use of supplementary safety devices such as safety clips or safety cables are recommended.

If any problem is detected, couplings must be removed from service immediately.

Dixon is available to consult, train, and recommend the proper selection and application of all fittings we sell. We strongly recommend that distributors and end users make use of Dixon’s testing and recommendation services. Call 877.963.4966 or visit dixonvalve.com learn more.

Dixon - Series 1 Cross Reference

Filters		Regulators		Filter / Regulators	
Dixon	Norgren	Dixon	Norgren	Dixon	Norgren
F07-100A	F07-100-A1TA	R07-100R	R07-100-RNKA	B07-102AG	B07-102-A1KA
F07-100M	F07-100-M1TA	R07-100RG	R07-100-RGKA	B07-102MG	B07-102-M1KA
F07-200A	F07-200-A1TA	R07-200R	R07-200-RNKA	B07-202AG	B07-202-A1KA
F07-200M	F07-200-M1TA	R07-200RG	R07-200-RGKA	B07-202MG	B07-202-M1KA
F17-600A	F17-600-A3DA	R11-013RG	11-002-013	B72G-2AG	B72G-2AK-ST3-RMG
F17-600M	F17-600-M3DA	R11-037RG	11-002-037	B72G-2AG-MB	B72G-2AK-SD3-RMG
F17-800A	F17-800-A3DA	R11-061RG	11-002-061	B72G-2MG	B72G-2AK-QT3-RMG
F17-800M	F17-800-M3DA	R17-600R	R17-600-RNLA	B72G-2MG-MB	B72G-2AK-QD3-RMG
F17-A00A	F17-A00-A3DA	R17-600RG	R17-600-RGLA	B72G-3AG	B72G-3AK-ST3-RMG
F17-A00M	F17-A00-M3DA	R17-800R	R17-800-RNLA	B72G-3AG-MB	B72G-3AK-SD3-RMG
F17-B00A	F17-B00-A3DA	R17-800RG	R17-800-RGLA	B72G-3MG	B72G-3AK-QT3-RMG
F17-B00M	F17-B00-M3DA	R17-A00R	R17-A00-RNLA	B72G-3MG-MB	B72G-3AK-QD3-RMG
F18-C00A	F18-C00-A3DA	R17-A00RG	R17-A00-RGLA	B73G-2AG	B73G-2AK-AT3-RMG
F18-C00M	F18-C00-M3DA	R17-B00R	R17-B00-RNLA	B73G-2AG-MB	B73G-2AK-AD3-RMG
F72G-2A	F72G-2AN-ST3	R17-B00RG	R17-B00-RGLA	B73G-2MG	B73G-2AK-QT3-RMG
F72G-2A-MB	F72G-2AN-SD3	R18-C05R	R18-C05-RNLA	B73G-2MG-MB	B73G-2AK-QD3-RMG
F72G-2M	F72G-2AN-QT3	R18-C05RG	R18-C05-RGLA	B73G-3AG	B73G-3AK-AT3-RMG
F72G-2M-MB	F72G-2AN-QD3	R43-201RG	R43-201-NGLA	B73G-3AG-MB	B73G-3AK-AD3-RMG
F72G-3A	F72G-3AN-ST3	R43-301RG	R43-301-NGLA	B73G-3MG	B73G-3AK-QT3-RMG
F72G-3A-MB	F72G-3AN-SD3	R43-406RG	R43-406-NGLA	B73G-3MG-MB	B73G-3AK-QD3-RMG
F72G-3M	F72G-3AN-QT3	R72G-2R	R72G-2AK-RMN	B73G-4AG	B73G-4AK-AT3-RMG
F72G-3M-MB	F72G-3AN-QD3	R72G-2RG	R72G-2AK-RMG	B73G-4AG-MB	B73G-4AK-AD3-RMG
F73G-2A	F73G-2AN-AT3	R72G-3R	R72G-3AK-RMN	B73G-4MG	B73G-4AK-QT3-RMG
F73G-2A-MB	F73G-2AN-AD3	R72G-3RG	R72G-3AK-RMG	B73G-4MG-MB	B73G-4AK-QD3-RMG
F73G-2M	F73G-2AN-QT3	R72M-2RG	R72M-2AK-RMG	B74G-3AG	B74G-3AK-AP3-RMG
F73G-2M-MB	F73G-2AN-QD3	R72M-3RG	R72M-3AK-RMG	B74G-3AG-MB	B74G-3AK-AD3-RMG
F73G-3A	F73G-3AN-AT3	R72M-2R	R72M-2AK-RMN	B74G-3MG	B74G-3AK-QP3-RMG
F73G-3A-MB	F73G-3AN-AD3	R72M-3R	R72M-3AK-RMN	B74G-3MG-MB	B74G-3AK-QD3-RMG
F73G-3M	F73G-3AN-QT3	R73G-2R	R73G-2AK-RMN	B74G-4AG	B74G-4AK-AP3-RMG
F73G-3M-MB	F73G-3AN-QD3	R73G-2RG	R73G-2AK-RMG	B74G-4AG-MB	B74G-4AK-AD3-RMG
F73G-4A	F73G-4AN-AT3	R73G-3R	R73G-3AK-RMN	B74G-4MG	B74G-4AK-QP3-RMG
F73G-4A-MB	F73G-4AN-AD3	R73G-3RG	R73G-3AK-RMG	B74G-4MG-MB	B74G-4AK-QD3-RMG
F73G-4M	F73G-4AN-QT3	R73G-4R	R73G-4AK-RMN	B74G-6AG	B74G-6AK-AP3-RMG
F73G-4M-MB	F73G-4AN-QD3	R73G-4RG	R73G-4AK-RMG	B74G-6AG-MB	B74G-6AK-AD3-RMG
F74C-3A-MB	F74C-3AD-AD0	R74G-3R	R74G-3AK-RMN	B74G-6MG	B74G-6AK-QP3-RMG
F74C-4A-MB	F74C-4AD-AD0	R74G-3RG	R74G-3AK-RMG	B74G-6MG-MB	B74G-6AK-QD3-RMG
F74G-3A	F74G-3AN-AP3	R74G-4R	R74G-4AK-RMN		
F74G-3A-MB	F74G-3AN-AD3	R74G-4RG	R74G-4AK-RMG		
F74G-3M	F74G-3AN-QP3	R74G-6R	R74G-6AK-RMN		
F74G-3M-MB	F74G-3AN-QD3	R74G-6RG	R74G-6AK-RMG		
F74G-4A	F74G-4AN-AP3	R83-200R	R83-200-RNLA		
F74G-4A-MB	F74G-4AN-AD3	R91-221RG	R91W-2AK-NGLN		
F74G-4M	F74G-4AN-QP3				
F74G-4M-MB	F74G-4AN-QD3				
F74G-6A	F74G-6AN-AP3				
F74G-6A-MB	F74G-6AN-AD3				
F74G-6M	F74G-6AN-QP3				
F74G-6M-MB	F74G-6AN-QD3				
F74H-4A-MB	F74H-4AD-AD0				
F74H-6A-MB	F74H-6AD-AD0				
F74V-3A-MB	F74V-3AN-EMA				
F74V-4A-MB	F74V-4AN-EMA				
F74V-6A-MB	F74V-6AN-EMA				

- SCFM ratings are at **100 PSI** inlet pressure
- line art measurements given in inches (mm)
- FRLs are designed for air service only, unless otherwise indicated



Dixon Customer Service

Dixon - Series 1 Cross Reference

Lubricators - Micro-Fog		Lubricators - Oil-Fog		Combination Units	
Dixon	Norgren	Dixon	Norgren	Dixon	Norgren
L07-100A	L07-100-MPAA	L17-600D	L17-600-OPDA	E72-2A	C72A-2AK-ST3-RMG-QTB
L07-200A	L07-200-MPAA	L17-800D	L17-800-OPDA	E72-2A-MB	C72A-2AK-SD3-RMG-QDB
L17-600A	L17-600-MPDA	L17-A00D	L17-A00-OPDA	E72-2M	C72A-2AK-QT3-RMG-QTB
L17-800A	L17-800-MPDA	L17-B00D	L17-B00-OPDA	E72-2M-MB	C72A-2AK-QD3-RMG-QDB
L17-A00A	L17-A00-MPDA	L72C-2	L72C-2AP-QTN	E72-3A	C72A-3AK-ST3-RMG-QTB
L17-B00A	L17-B00-MPDA	L72C-2MB	L72C-2AP-QDN	E72-3A-MB	C72A-3AK-SD3-RMG-QDB
L17-600APX	L17-646-MPDA	L72C-3	L72C-3AP-QTN	E72-3M	C72A-3AK-QT3-RMG-QTB
L17-800APX	L17-846-MPDA	L72C-3MB	L72C-3AP-QDN	E72-3M-MB	C72A-3AK-QD3-RMG-QDB
L72M-2	L72M-2AP-QTN	L73C-2	L73C-2AP-QTN	E73-2A	C73A-2AK-AT3-RMG-QTB
L72M-2MB	L72M-2AP-QDN	L73C-2MB	L73C-2AP-QDN	E73-2A-MB	C73A-2AK-AD3-RMG-QDB
L72M-3	L72M-3AP-QTN	L73C-3	L73C-3AP-QTN	E73-2M	C73A-2AK-QT3-RMG-QTB
L72M-3MB	L72M-3AP-QDN	L73C-3MB	L73C-3AP-QDN	E73-2M-MB	C73A-2AK-QD3-RMG-QDB
L73M-2	L73M-2AP-QTN	L73C-4	L73C-4AP-QTN	E73-3A	C73A-3AK-AT3-RMG-QTB
L73M-2MB	L73M-2AP-QDN	L73C-4MB	L73C-4AP-QDN	E73-3A-MB	C73A-3AK-AD3-RMG-QDB
L73M-3	L73M-3AP-QTN	L74C-3	L74C-3AP-QPN	E73-3M	C73A-3AK-QT3-RMG-QTB
L73M-3MB	L73M-3AP-QDN	L74C-3MB	L74C-3AP-QDN	E73-3M-MB	C73A-3AK-QD3-RMG-QDB
L73M-4	L73M-4AP-QTN	L74C-4	L74C-4AP-QPN	E73-4A	C73A-4AK-AT3-RMG-QTB
L73M-4MB	L73M-4AP-QDN	L74C-4MB	L74C-4AP-QDN	E73-4A-MB	C73A-4AK-AD3-RMG-QDB
L73M-2MBPX	L73M-2AP-DRP	L74C-6	L74C-6AP-QPN	E73-4M	C73A-4AK-QT3-RMG-QTB
L73M-3MBPX	L73M-3AP-DRP	L74C-6MB	L74C-6AP-QDN	E73-4M-MB	C73A-4AK-QD3-RMG-QDB
L73M-4MBPX	L73M-4AP-DRP			E74-3A	C74A-3AK-AT3-RMG-QPB
L74M-3	L74M-3AP-QPN			E74-3A-MB	C74A-3AK-AD3-RMG-QDB
L74M-3MB	L74M-3AP-QDN			E74-3M	C74A-3AK-QT3-RMG-QPB
L74M-4	L74M-4AP-QPN			E74-3M-MB	C74A-3AK-QD3-RMG-QDB
L74M-4MB	L74M-4AP-QDN			E74-4A	C74A-4AK-AT3-RMG-QPB
L74M-6	L74M-6AP-QPN			E74-4A-MB	C74A-4AK-AD3-RMG-QDB
L74M-6MB	L74M-6AP-QDN			E74-4M	C74A-4AK-QT3-RMG-QPB
L74M-3MBPX	L74M-3AP-DRP			E74-4M-MB	C74A-4AK-QD3-RMG-QDB
L74M-4MBPX	L74M-4AP-DRP			E74-6A	C74A-6AK-AT3-RMG-QPB
L74M-6MBPX	L74M-6AP-DRP			E74-6A-MB	C74A-6AK-AD3-RMG-QDB
				E74-6M	C74A-6AK-QT3-RMG-QPB
				E74-6M-MB	C74A-6AK-QD3-RMG-QDB
				P1A-100A	P1A-100-A1AA
				P1A-100M	P1A-100-M1AA
				P1A-200A	P1A-200-A1AA
				P1A-200M	P1A-200-M1AA
				P8A-660A	P8A-660-A3DA
				P8A-660M	P8A-660-M3DA
				P8A-860A	P8A-860-A3DA
				P8A-860M	P8A-860-M3DA
				PTH-100AG	PTH-100-A1AA
				PTH-200AG	PTH-200-A1AA

Filter Overview

Three main types of filters exist: The general purpose filter for water and particles, the coalescing oil removal filter for oil aerosols, and the activated carbon filter for the removal of oil vapors. The general purpose filter is used for most filter applications and is available from 1/8" to 2" pipe sizes. Uses are main headers, branch lines, tools, cylinders, valves and valve circuits, air agitators, etc. Oil removal filters are used where very clean, oil-free air is required, such as for the supply to instrumentation, air gauging equipment, and air bearings. Activated carbon filters are used for systems where the oil vapors in the air are not acceptable; such as instrumentation and paint spraying.

How Do General Purpose Filters Work?

The dirt and moisture-laden air enters the inlet port and is directed into the louvres which centrifugally separate the entrapped liquids and dirt which fall to the bottom of the bowl. Near the bottom of the bowl a baffle creates a quiet zone, preventing the turbulent air re-entrapping the contaminants. The air, now free of water droplets and large dirt particles, passes through the filter element which removes small dirt particles.

How Do Oil Removal Filters Work?

The fine oil mist is coalesced (merged) as it passes through the fine fibrous filtration media. These oil droplets are collected in the outer sock and then drop from the element to the bottom of the bowl for easy removal.

Where a coalescing filter is being used for oil removal, the element quickly becomes saturated which is clearly visible on the outer sock. This is the normal operating condition for oil removal.

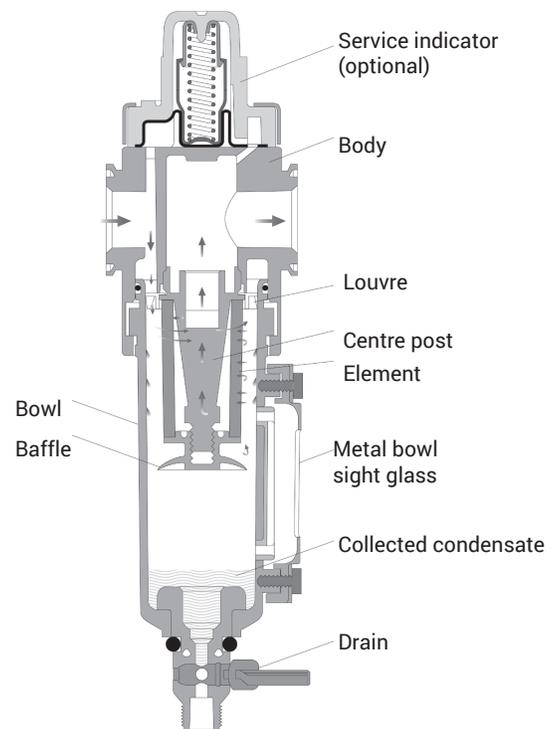
How do Vapor Removal Filters Work?

Carbon filters are used to remove oil vapors (odors). The activated carbon has a porous structure which results in a large surface area. The oil vapors are attracted and adhere to this surface. There is usually a small sintered medium included in an activated carbon element to prevent the carbon particles from migrating downstream. The carbon filter reduces the maximum oil content of air leaving the filter to 0.003 ppm at 70°F, for example to ISO 8573 class 1.7.1.

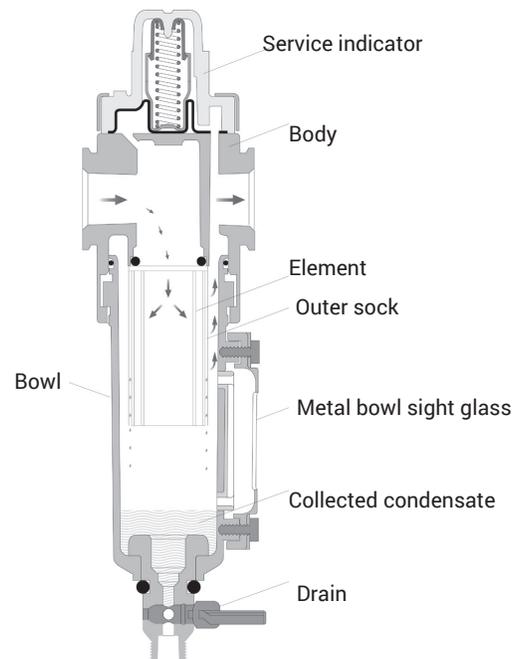
Why use a Pre-Filter?

A pre-filter is simply a general purpose filter placed upstream of a higher grade filter to remove the majority of the water and larger particle contaminants and thus lengthen the life of the higher grade filter element. A 5 micron pre-filter should always be used ahead of an oil or vapor removal filter.

General Purpose Filter



Coalescing Filter



Regulator Overview

Regulators ideally provide a constant outlet pressure independent of variations in inlet pressure or flow.

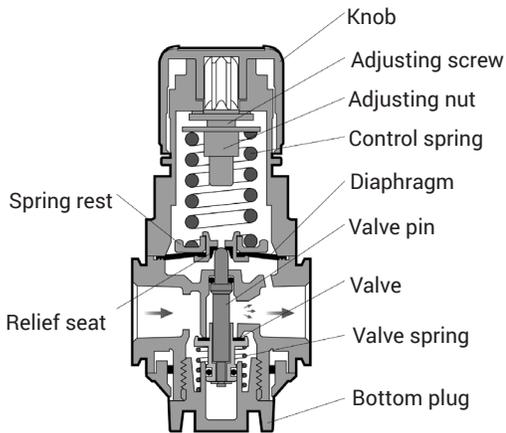
Regulators are typically used to:

- a) reduce pressure to the level required for downstream equipment
- b) limit the force of cylinders
- c) minimize pressure variation at the point of use

The range of different regulators and options within each type are wide and varied, but each can broadly be put into one of 3 categories.

- general purpose regulators
- pilot operated regulators
- application specific regulators

General Purpose Regulator



General Purpose Regulators

General purpose regulators are designed to give the maximum flow capacity (for their size) while maintaining, to a reasonable accuracy, the outlet pressure to the set level. They are used to control pressures in compressed air line installations to different parts of machines or to pneumatic tools and motors. General purpose regulators are available in relieving or non-relieving types. Relieving regulators can be adjusted from a high pressure to a low pressure. Even in a dead end situation relieving regulators will allow the excess downstream pressure to be exhausted. This causes a loud hissing sound which is perfectly normal. Non-relieving regulators when similarly adjusted will not allow the downstream pressure to escape. The trapped air will need to be released in some other way, for example by operating a downstream valve. General purpose regulators have a control spring which acts on a diaphragm to regulate the air pressure. The rating of this control spring determines the adjustment range of the regulator. The outlet pressure setting is obtained by turning the knob (or T handle) clockwise to increase pressure, counterclockwise to decrease pressure.

Lubricator Overview

Filter/regulators combine the features of a filter and regulator with a single compact body. Air passes through the filter section first removing water and particle contaminants, and is then regulated by the top regulator section.

See individual filter and regulator sections for details.

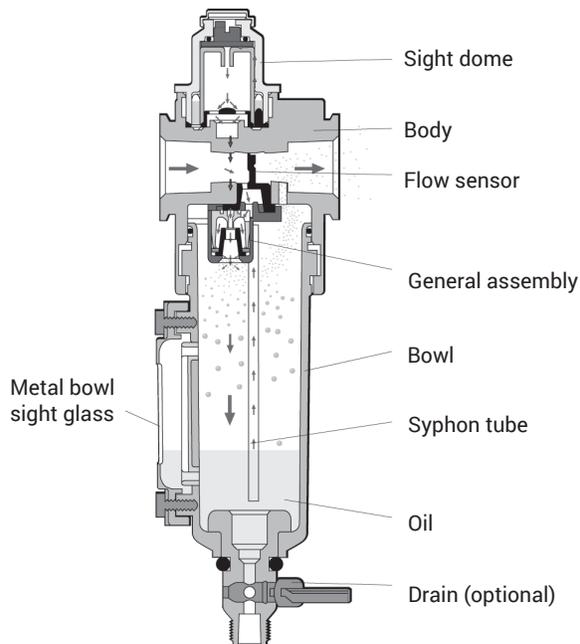
Performance Characteristics

The regulator section of the filter/regulator determines the flow and regulation characteristics of the unit. Flow is therefore measured in terms of pressure drop from set pressure (see regulators) and not flow versus pressure drop as in a filter. Regulation characteristics are determined in the same way as regulators.

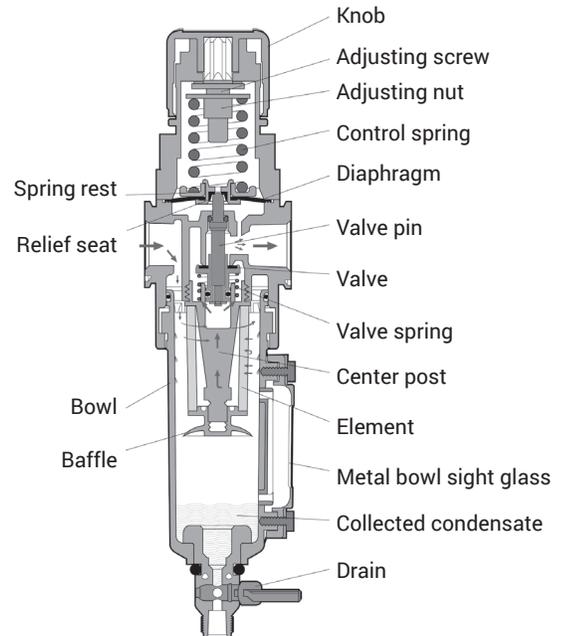
Dixon offers two main types of lubricators: Micro-Fog and Oil-Fog. These units are mounted directly into the pipe and add small amounts of oil to the air flowing through them.

Micro-Fog Lubricators

The oil droplets seen in the sight dome are atomized and collected in the area above the oil in the bowl. The smaller lighter particles are drawn into the air flow and pass downstream. As a result, typically only 10% of the oil seen as drops in the sight dome is passed downstream. The remainder falls back into the oil reservoir. Consequently, drip rate settings are somewhat higher than their oil-fog equivalent. This makes setting much easier, particularly in low flow applications. The fine micro-fog oil particles can travel long distances through complex pipe work making micro-fog lubricators suitable for multiple valve and cylinder circuits.

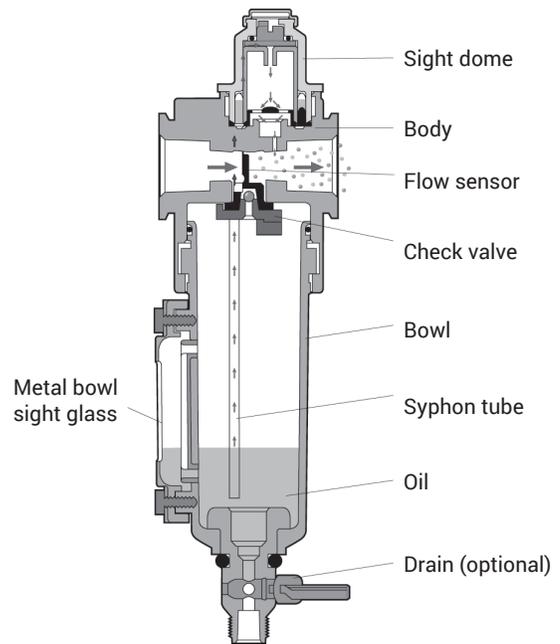


General Purpose Filter/Regulator



Oil Fog-Lubricators

All the oil droplets seen in the sight dome are added directly into the air flow. This results in relatively large oil droplets passing downstream, suitable for heavy lubrication applications, for example single cylinders and tools. Most competitive in line lubricators are of the oil-fog type.



What Are The Differences Between Micro-Fog and Oil-Fog?

Micro-Fog:

- small oil particles; less than 2 micron
- only 10% of 'drip rate' is delivered downstream as active lubricant (remainder is returned to main oil reservoir)
- high drip rates make drip setting easier in low flow applications
- can be mounted above or below the point of application
- cannot be filled without shutting off upstream air (unless a quick fill cap or remote fill device is used)
- for use with lengthy air lines, multiple valve and cylinder circuits
- has a flow sensor to provide an almost constant oil output density for varying flows
- filling method:
 - the micro-fog unit can only be filled without isolating the upstream pressure if a remote fill or quick fill nipple accessory is fitted
 - to remove the fill plug of a micro-fog lubricator while under pressure can be dangerous
 - if in doubt shut off the upstream air

Oil-Fog:

- large oil particles not as fine as micro-fog
- all oil drips seen in sight domes are delivered downstream
- for applications over short distances
- should be mounted at same level or higher than device being lubricated
- standard bowls can be filled under pressure (not on rapid cycle units)
- suitable for heavy lubrication applications, for example single large cylinders and tools
- has a flow sensor which provides constant oil output density for varying flows
- filling method:
 - the oil-fog lubricators can be filled under pressure, for example, without switching off the upstream air
 - when a fill plug is removed a check valve in the lubricator body isolates the inlet pressure from the bowl and the reservoir will depressurize
 - the lubricator can then be filled with oil
 - when the fill plug is replaced, the reservoir will repressurize

Can Oil-Fog and Micro-Fog Units be Converted?

Generally not, simply changing a green (oil-fog) sight dome for a red (micro-fog) sight dome does not change the function. Some lubricators are designed around a cartridge insert. In this case it may be possible to swap the cartridge and sight domes to change the function.

Setting Lubricator Drip Rates

What is the correct drip rate setting?

The drip rate will depend on the application, the amount of lubrication required, the flow through the lubricator, and the lubricator type. In micro-fog lubricators only 10% of the droplets in the sight dome are carried downstream. The drip rate in micro-fog lubricators therefore tends to be much higher. The following table can be used to estimate drip rate for required flow. This is very much a rule of thumb. In practice it is necessary to fine tune the oil drip rate in each application.

Typical Drip Rate per Minute Micro-Fog	Typical Drip Rate per Oil-Fog	Approximate Flow SCFM (dm ³ /s)
20	2	10 (5)
40	4	20 (10)
60	6	30 (15)
80	8	40 (20)
100	10	50 (25)
120	12	60 (30)

Can the drip rate be shut off?

In lubricators with needle valve type sight dome, yes.

Some sight domes use a felt pad which is soaked in oil at the point where the drops are formed. With this type of sight dome the oil droplets cease once the felt pad dries out. With the new style dome (L72/73/74 and L07) complete shut off is not possible. Minimum adjustment for the drip rate is around one drop per minute.

Simple Filter Troubleshooting

Malfunction	Possible cause	Remedy
Excessive pressure drop	<p>Micron rating of element is too small.</p> <p>Filter is element blocked.</p> <p>Flow requirements are greater than the filter capacity.</p>	<p>Use larger micron element size for application.</p> <p>1. Clean element (not coalescing element). 2. Replace with new element.</p> <p>Use larger filter.</p>
Dirt passing through filter	<p>The element seals are missing or defective. (N.B. Seals not required on some units).</p> <p>Element is damaged.</p>	<p>1. Replace the seal. 2. Tighten the element.</p> <p>Replace the element.</p>
Water passing through filter	<p>The water level in the bowl is above the baffle.</p> <p>Filter's flow capacity is exceeded.</p>	<p>Drain the water.</p> <p>Maintain flow within capacity of filter or change to filter capable of handling desired flows.</p>
Crazing of polycarbonate bowl or milky appearance	<p>The bowl has been cleaned with incompatible fluid.</p> <p>The bowl is being used in an area containing fumes or vapors incompatible with polycarbonate.</p> <p>Compressor oil vapor may be causing problems.</p> <p>Air intake to the compressor may contain fumes or vapor incompatible with polycarbonate.</p>	<p>Replace the bowl (only clean with soap and warm water).</p> <p>Replace the bowl.</p> <p>Remove the cause of the issue or switch to metal bowls from plastic ones.</p> <p>Replace the bowl.</p>
Water beyond the filter	<p>High temperature inlet air cools down downstream, and moisture condenses to water.</p>	<p>Install a dryer, pre-cool the air, or install a filter just before application.</p>

Simple Regulator Troubleshooting

Malfunction	Possible cause	Remedy
Regulator creep (increase in secondary pressure due to leak from primary)	Dirty or cut valve elastomers. Nick in valve seat.	Replace or clean valve. If body or valve seat is damaged it can be replaced on some models. On others replacement of complete regulator is required.
Won't relieve secondary pressure	Non-relieving diaphragm assembly.	If this feature is required, replace with relieving type diaphragm assembly.
Won't reach desired pressure	Regulating spring with low spring rate.	Use regulating spring with spring rate designed to cover desired range.
Excessive leak from relief hole	Damaged relief seat. Ruptured diaphragm. Leakage past valve causing secondary to increase somewhat and open relief seat.	Replace the diaphragm assembly. Replace or clean the valve.
Regulator chatter	A resonant condition is generally only encountered under a certain set of conditions of flow and pressure and then only in some applications in which regulator couples with other system components.	Replace spring with a higher pressure range spring. Replace with a piston type regulator since they have less tendency to chatter.
Regulator difficult to adjust	Adjusting screw or knob locking device in locked position. Contaminants in adjusting screw threads.	Pull to unlock knob and adjust; push knob to lock. Threaded adjusting screws: loosen lock nut, remove adjusting screw, clean thread and lubricate. Place some lubricant on tip of screw.

Simple Lubricator Troubleshooting

Malfunction	Possible cause	Remedy
No drip rate	Oil adjustment knob fully clockwise Low oil level Airflow through lubricator too low Blocked oil filter screen Air leaks	Readjust the knob. Check the oil level. Use a smaller size lubricator. Remove bowl and sight feed adjustment dome and clear siphon tube. Remove sight feed adjustment dome and clean or replace screen located in dome assembly. Check the bowl, filler plug, and sight dome seals. Tighten if necessary.
Oil foaming	Over aeration	Check the bowl seals for slight leaks.
Oil emulsified	Water in lubricator	Place the filter immediately upstream.
Drip rate changes after setting	Fade	Readjust the drip rate.

Series 1 FRLs

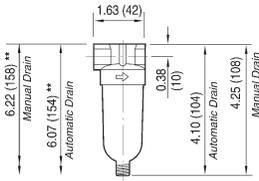
F07-Series Carded Miniature Filters

Features

- 5 micron element
- 1 oz. reservoir
- Transparent bowl

Specifications

- Inlet pressure 150 PSI maximum
- Maximum temperature: 125°F (52°C)



** minimum clearance required to remove bowl

Port Size	Flow (SCFM)	Automatic Drain Part #	Manual Drain Part #
1/4"	24	F07-200AC	F07-200MC



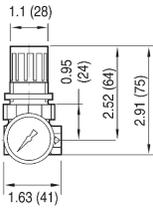
R07-Series Carded Miniature Regulator

Features

- Relieving type
- Supplied with a GC620 gauge

Specifications

- Inlet pressure 250 PSI maximum
- Maximum temperature: 150°F (66°C)
- Pressure range 5-100 PSI



Port Size	Flow (SCFM)	with Gauge Part #
1/4"	15	R07-200RGC



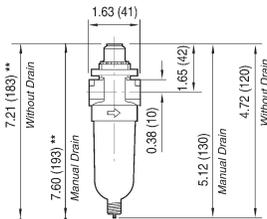
L07-Series Carded Miniature Lubricator

Feature

- 1 oz. reservoir

Specifications

- Inlet pressure 150 PSI maximum
- Maximum temperature: 125°F (52°C)



** minimum clearance required to remove bowl

Port Size	Flow (SCFM)	with Transparent Bowl Part #
1/4"	14	L07-200AC



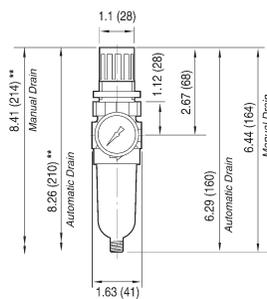
B07-Series Carded Miniature Filter/Regulators

Features

- Relieving type
- 5 micron element
- 1 oz. reservoir
- Push-to-lock adjusting knob
- Supplied with a GC620 gauge
- Bowl guard not available
- Transparent bowl

Specifications

- Pressure range 5-100 PSI
- Inlet pressure 150 PSI maximum
- Maximum temperature: 125°F (52°C)



** minimum clearance required to remove bowl

Port Size	Flow (SCFM)	Automatic Drain Part #	Manual Drain Part #
1/4"	14	B07-202AGC	B07-202MGC



NOTE: FRLs are designed for air service only, unless otherwise indicated. SCFM ratings given at 150 PSIG inlet pressure. SCFM ratings given at 100 PSIG inlet pressure for regulators, 90 PSIG all others.

Series 1 FRLs

F07-Series Miniature Filters



Features

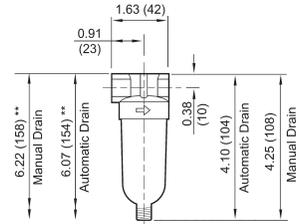
- 5 micron element
- 1 oz. reservoir
- Transparent bowl

Specifications

- Inlet pressure **150 PSI** maximum
- Maximum temperature: **125°F (52°C)**

Port Size	Flow (SCFM)	Automatic Drain Part #	Manual Drain Part #
1/8"	19	F07-100A	F07-100M
1/4"	24	F07-200A	F07-200M

NOTE: SCFM ratings given at 90 PSIG inlet pressure.



** minimum clearance to remove bowl

R07-Series Miniature Regulators



Features

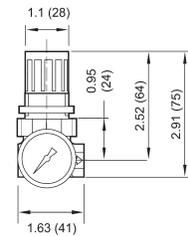
- Relieving type
- RG models supplied with a GC620 gauge
- Panel nut not included

Specifications

- Inlet pressure **300 PSI** max.
- Maximum temperature: **150°F (66°C)**
- Regulation at flows up to 22 SCFM at 100 PSIG
- Pressure range **5-100 PSI**

Port Size	Flow (SCFM)	with Gauge Part #	without Gauge Part #
1/8"	14	R07-100RG	R07-100R
1/4"	15	R07-200RG	R07-200R

NOTE: SCFM ratings given at 100 PSIG inlet pressure.



B07-Series Miniature Filter / Regulators



Features

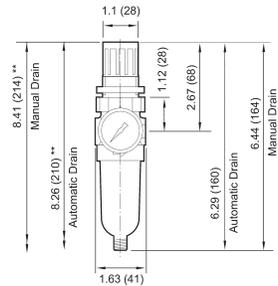
- Relieving type
- 5 micron element
- 1 oz. reservoir
- Push-to-lock adjusting knob
- Supplied with a GC620 gauge
- Bowl guard not available
- Transparent bowl

Specifications

- Inlet pressure **150 PSI** maximum
- Maximum temperature: **125°F (52°C)**
- Pressure range **5-100 PSI**

Port Size	Flow (SCFM)	Automatic Drain Part #	Manual Drain Part #
1/8"	13	B07-102AG	B07-102MG
1/4"	24	B07-202AG	B07-202MG

NOTE: SCFM ratings given at 150 PSIG inlet pressure.



** minimum clearance to remove bowl

L07-Series Miniature Lubricators



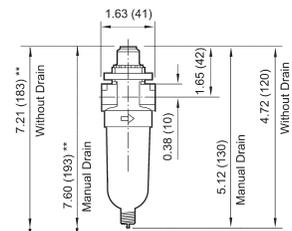
Feature

- 1 oz. reservoir

Specifications

- Inlet pressure **150 PSI** maximum
- Maximum temperature: **125°F (52°C)**

Port Size	Flow (SCFM)	Transparent Bowl Part #
1/8"	10	L07-100A
1/4"	14	L07-200A



** minimum clearance to remove bowl

Series 1 FRLs

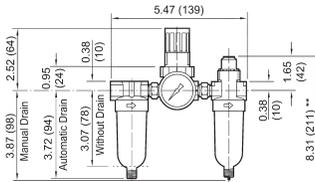
P1A-Series Miniature Combination Units

Features

- 1 oz. reservoir
- Supplied with a GC620 gauge
- Transparent bowl

Specifications

- Inlet pressure **150 PSI** maximum
- Maximum temperature: **125°F (52°C)**
- Pressure range: **5-125 PSI**



** minimum clearance to remove bowl



Port Size	Flow (SCFM)	Automatic Drain Part #	Manual Drain Part #
1/8"	10	P1A-100A	P1A-100M
1/4"	14	P1A-200A	P1A-200M

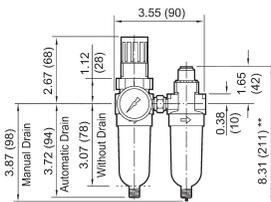
PTH-Series Miniature Combination Units

Features

- Transparent bowl
- Requires only two pipe connections

Specifications

- Inlet pressure **150 PSI** maximum
- Maximum temperature: **125°F (52°C)**
- Pressure range: **5-125 PSI**



** minimum clearance to remove bowl



Port Size	Flow (SCFM)	Automatic Drain Part #
1/8"	10	PTH-100AG
1/4"	14	PTH-200AG

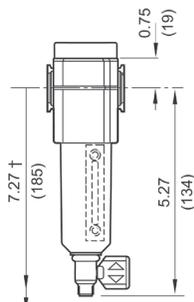
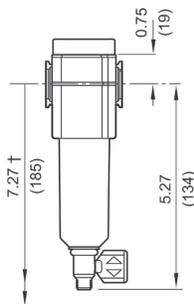
F72-Series Sub-Compact Airline Filters

Features

- Particle removal per ISO 8573-1, Class 5, and Class 3
- 40 micron element
- 2 oz. reservoir
- Quick-release bayonet bowl
- Prismatic lens liquid level indicator

Specifications

- Inlet pressure:
 - transparent bowl: max pressure 150 PSIG (10 bar) and temperature range **-30°F to 125°F (-34°C to 50°C)**
 - metal bowl: max pressure 150 PSIG (10 bar) and temperature range **-30°F to 150°F (-34°C to 66°C)**



with transparent bowl



with metal bowl

Transparent Bowl

Port Size	Flow (SCFM)	Semi-Automatic Drain Part #	Manual Drain Part #
1/4"	55	F72G-2A	F72G-2M

Metal Bowl and Sight Glass

Port Size	Flow (SCFM)	Semi-Automatic Drain Part #	Manual Drain Part #
1/4"	55	F72G-2A-MB	F72G-2M-MB

NOTE: SCFM ratings at 100 PSIG inlet pressure for regulators, 90 PSIG all others.
FRLs are designed for air service only, unless otherwise indicated.

Series 1 FRLs

F73-Series Compact Airline Filters

Features

- Particle removal per ISO 8573-1, Class 5, and Class 3
- 40 micron element
- 4 oz. reservoir
- Quick-release bayonet bowl
- Prismatic lens liquid level indicator

Specifications

- Inlet pressure:
 - transparent bowl: max pressure 150 PSIG (10 bar) and temperature range -30°F to 125°F (-34°C to 50°C)
 - metal bowl: max pressure 250 PSIG (17 bar) and temperature range -30°F to 150°F (-34°C to 66°C)



with transparent bowl



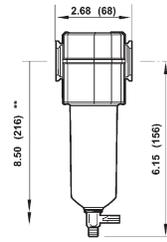
with metal bowl

Transparent Bowl

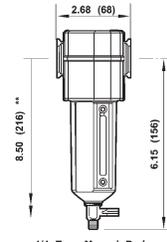
Port Size	Flow (SCFM)	Automatic Drain Part #	Manual Drain Part #
1/4"	53	F73G-2A	F73G-2M
3/8"	65	F73G-3A	F73G-3M
1/2"	69	F73G-4A	F73G-4M

Metal Bowl and Sight Glass

Port Size	Flow (SCFM)	Automatic Drain Part #	Manual Drain Part #
1/4"	53	F73G-2A-MB	F73G-2M-MB
3/8"	65	F73G-3A-MB	F73G-3M-MB
1/2"	69	F73G-4A-MB	F73G-4M-MB



** Minimum clearance required to remove bowl.



** Minimum clearance required to remove bowl.

F74-Series Standard Airline Filters

Features

- Particle removal per ISO 8573-1, Class 5, and Class 3
- 40 micron element
- 7 oz. reservoir
- Quick-release bayonet bowl
- Prismatic lens liquid level indicator

Specifications

- Inlet pressure:
 - transparent bowl: max pressure 150 PSIG (10 bar) and temperature range -30°F to 125°F (-34°C to 50°C)
 - metal bowl: max pressure 250 PSIG (17 bar) and temperature range -30°F to 150°F (-34°C to 66°C)



with transparent bowl



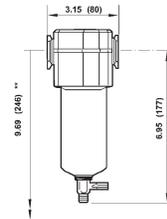
with metal bowl

Transparent Bowl and Guard

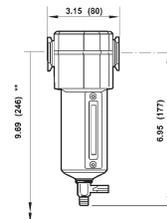
Port Size	Flow (SCFM)	Automatic Drain Part #	Manual Drain Part #
3/8"	112	F74G-3A	F74G-3M
1/2"	140	F74G-4A	F74G-4M
3/4"	140	F74G-6A	F74G-6M

Metal Bowl and Sight Glass

Port Size	Flow (SCFM)	Automatic Drain Part #	Manual Drain Part #
3/8"	112	F74G-3A-MB	F74G-3M-MB
1/2"	140	F74G-4A-MB	F74G-4M-MB
3/4"	140	F74G-6A-MB	F74G-6M-MB



** Minimum clearance required to remove bowl.



** Minimum clearance required to remove bowl.

NOTE: See pages 27-32 for accessories.

FRLs are designed for air service only, unless otherwise indicated.
SCFM ratings at 90 PSIG inlet pressure.



Series 1 FRLs

F17, F18-Series Jumbo Airline Filters

Features

- General purpose with low pressure drop and excellent water removal characteristics
- 40 micron element
- 1 qt. reservoir

Specifications

- Inlet pressure:
 - transparent bowl: max pressure 150 PSIG (10 bar) and temperature range -30°F to 125°F (-34°C to 50°C)
 - metal bowl: max pressure 250 PSIG (17 bar) and temperature range -30°F to 175°F (-34°C to 80°C)

Metal Bowl and Sight Glass

Port Size	Flow (SCFM)	Automatic Drain Part #	Manual Drain Part #
3/4"	325	F17-600A	F17-600M
1"	425	F17-800A	F17-800M
1-1/4"	425	F17-A00A	F17-A00M
1-1/2"	425	F17-B00A	F17-B00M



Features

- 40 micron element
- Quick-release bayonet bowl
- Prismatic lens liquid level indicator
- 7 oz. reservoir

Specifications

- Inlet pressure: max pressure 250 PSIG (17 bar) and temperature range -30°F to 175°F (-34°C to 80°C)

Metal Bowl and Sight Glass

Port Size	Flow (SCFM)	Automatic Drain Part #	Manual Drain Part #
2"	1400	F18-C00A	F18-C00M



F74-Series Oil Removal Filters

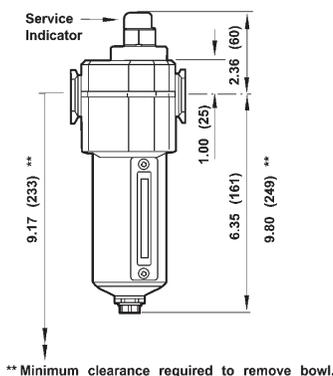
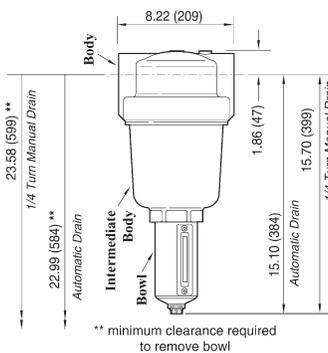
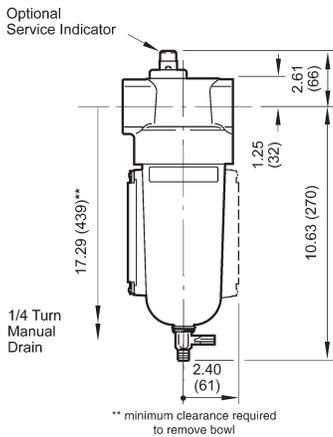
Features

- Provides air quality class 2 hydrocarbon and class 1 particulate removal per ISO 8573-1
- Element removes particles down to 0.01mm. Maximum remaining oil content of air leaving the filter is 0.01 ppm at 70°F (21°C) with an inlet concentration of 8 ppm
- For maximum service life install a general purpose filter upstream of the oil removal filter
- Service life indicator turns from green to red when element needs to be replaced
- In-line or modular installation
- Quick-release bayonet bowl
- Prismatic lens liquid level indicator

Specifications

- Inlet pressure: 250 PSIG (17 bar) and temperature range -30°F to 150°F (-34°C to 65°C)

Port Size	Flow (SCFM) Saturated	SCFM Dry	Automatic Drain Part #
3/8"	35	70	F74C-3A-MB
1/2"	35	75	F74C-4A-MB
1/2"	60	100	F74H-4A-MB
3/4"	60	120	F74H-6A-MB



NOTE: See pages 27-32 for accessories.

FRLs are designed for air service only, unless otherwise indicated. SCFM ratings at 90 PSIG inlet pressure.



Series 1 FRLs

F74-Series Oil Vapor Removal Filters

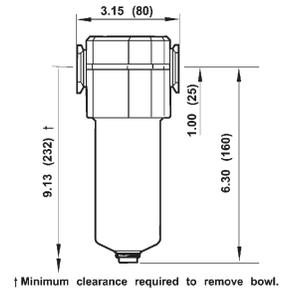
Features

- Provides air quality class 1 particulate removal per ISO 8573-1, when used with the F74C series
- For maximum service life install a general purpose filter and an oil removal filter upstream of the oil vapor removal filter
- Carbon cartridge element provides long service life
- Activated carbon cartridge filter element absorbs oil vapors and removes most hydrocarbon odors
- In-line or modular installation
- Quick-release bayonet bowl
- Metal bowl



Specifications

- Inlet pressure: max pressure 250 PSIG (17 bar) and temperature range **-30°F to 150°F (-34°C to 65°C)**
- Filter and element designs optimizes air velocity and contact time to reduce oil content of air leaving the filter to 0.003 ppm at **70°F (21°C)**
- Minimum service life of 400 hours can be expected if the vapor removal filter is protected upstream by an oil removal (coalescing) filter and if the filtration temperature is in the region of **70° to 80°F (21° to 26°C)**, above this range, oil vapor content of compressed air increases substantially and element service life is reduced



Port Size	Flow (SCFM)	Automatic Drain with Metal Bowl Part #
3/8"	21	F74V-3A-MB
1/2"	21	F74V-4A-MB

NOTE: SCFM ratings at 90 PSIG inlet pressure.

Series 1 FRLs

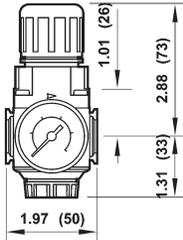
R72-Series Sub-Compact Regulators

Features

- In-line or modular installation
- Two full flow 1/8" NPT gauge ports
- RG models supplied with GC620 gauge

Specifications

- To order **0-60 PSI** range consult Dixon®
- Pressure range: **5-150 PSI**
- Inlet pressure: **300 PSI**
- Maximum temperature: **150°F (66°C)**



Port Size	Flow (SCFM)	with Gauge Part #	without Gauge Part #
1/4"	70	R72G-2RG	R72G-2R
3/8"	70	R72G-3RG	R72G-3R

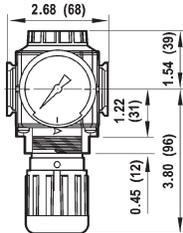
R73-Series Compact Regulators

Features

- In-line or modular installation
- Relieving type
- Two full flow 1/4" NPT gauge ports
- RG models supplied with GC230 gauge

Specifications

- To order **0-60 PSI** range consult Dixon
- Pressure range: **5-150 PSI**
- Inlet pressure: **300 PSI**
- Maximum temperature: **175°F (80°C)**



Port Size	Flow (SCFM)	with Gauge Part #	without Gauge Part #
1/4"	91	R73G-2RG	R73G-2R
3/8"	144	R73G-3RG	R73G-3R
1/2"	144	R73G-4RG	R73G-4R

NOTE: SCFM ratings given at 150 PSIG inlet pressure
 FRLs are designed for air service only, unless otherwise indicated. 
 See pages 27-32 for accessories.

Series 1 FRLs

R74-Series Standard Regulators



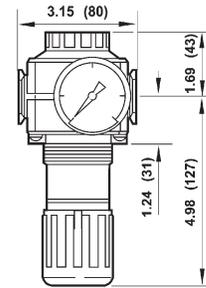
Features

- In-line or modular installation
- Relieving type
- Two full flow 1/4" NPT gauge ports
- RG models supplied with GC230 gauge

Specifications

- Pressure range: **5-150 PSI**
- Inlet pressure: **300 PSI**
- Maximum temperature: **175°F (80°C)**
- To order **0-60 PSI** range consult Dixon®.

Port Size	Flow (SCFM)	with Gauge Part #	without Gauge Part #
3/8"	208	R74G-3RG	R74G-3R
1/2"	220	R74G-4RG	R74G-4R
3/4"	220	R74G-6RG	R74G-6R



R17, R18-Series Jumbo Regulators



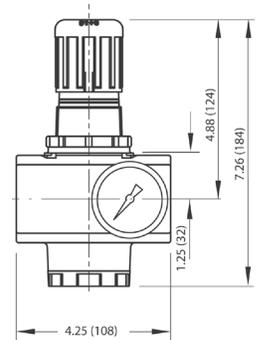
Features

- In-line or modular installation
- Relieving type
- Two full-flow 1/4" NPT gauge ports
- RG models supplied with GC230 gauge

Specifications

- Pressure range: **5-125 PSI**
- Inlet pressure: **300 PSI**
- Maximum temperature: **175°F (79°C)**

Port Size	Flow (SCFM)	with Gauge Part #	without Gauge Part #
3/4"	440	R17-600RG	R17-600R
1"	480	R17-800RG	R17-800R
1-1/4"	400	R17-A00RG	R17-A00R
1-1/2"	440	R17-B00RG	R17-B00R



NOTE: SCFM ratings given at 150 PSIG inlet pressure

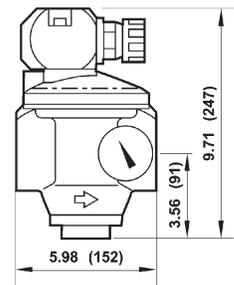
Features

- Relieving type
- Two full flow 1/4" NPT gauge ports
- RG model supplied with GC230 gauge

Specifications

- **5-125 PSI** range
- Inlet pressure: **450 PSI**
- Maximum temperature: **175°F (79°C)**

Port Size	Flow (SCFM)	with Gauge Part #	without Gauge Part #
2"	2000	R18-C05RG	R18-C05R



NOTE: SCFM ratings given at 100 PSIG inlet pressure

R11-Series General T-Handle Regulators

Floating valve pin provides positive seating and dependability. Large diaphragm provides quick response to flow demands and line pressure changes. Balanced valve reduces inlet pressure variations on outlet pressure.



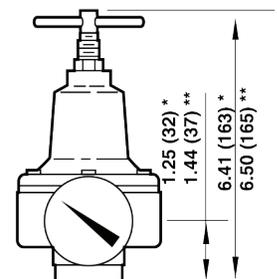
Features

- T-handle adjustment
- Supplied with GC620 gauge

Specifications

- Pressure range: **5-125 PSI**
- Inlet pressure: **400 PSI**
- Maximum temperature: **175°F (79°)**

Port Size	Flow (SCFM)	with Gauge Part #
1/4"	110	R11-013RG
3/8"	110	R11-037RG
1/2"	260	R11-061RG



NOTE: SCFM ratings given at 150 PSIG inlet pressure

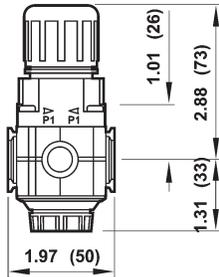
FRLs are designed for air service only, unless otherwise indicated.

See pages 27-32 for accessories.

Series 1 FRLs

R72-Series Manifold Regulators

Manifold up to six regulators on a single air supply. Design allows in-line installation with hex nipple or modular installation with 72-series accessories.



Feature

- RG models supplied with GC620 gauge

Specifications

- Pressure range: **5-150 PSI**
- Inlet pressure: **300 PSI**
- Maximum temperature: **150°F (66°C)**

Port Size	Flow (SCFM)	with Gauge Part #	without Gauge Part #
1/4"	83	R72M-2RG	R72M-2R
3/8"	83	R72M-3RG	R72M-3R

NOTE: SCFM ratings at 150 PSIG.



R83-Series Cylinder Gas Regulator

Applications

- UL listed for service with carbon dioxide, water, pumped air, nitrogen, argon, helium, krypton, neon, and xenon
- Not to be used with flammable gases

Features

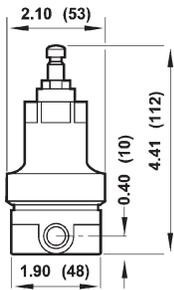
- Relieving type
- Two ports for high pressure and two ports for service

Specifications

- Pressure range: **5-125 PSI**
- Inlet pressure: **3,000 PSI**
- Maximum temperature: **140°F (60°C)**

Port Size	Flow (SCFM)	without Gauge Part #
1/4"	10	R83-200R

NOTE: SCFM ratings given at 1000 PSIG inlet pressure.



R91-Series Miniature Water Regulator

Application

- Designed for use with deionized water and potable water systems, plastic and metal components in contact with fluid are approved by the National Sanitation Foundation (NSF) or meet Food and Drug Administration (FDA) recommendations for use in potable water systems

Features

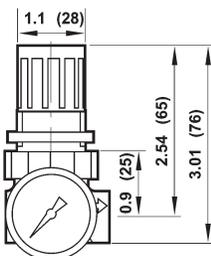
- Non-relieving type
- Supplied with GC620 gauge
- Food grade elastomers

Specifications

- Inlet pressure: **150 PSI**
- Maximum temperature: **125°F (52°C)**
- Pressure range **5-125 PSIG**

Port Size	Flow (GPM)	with Gauge Part #
1/4"	1.75	R91-221RG

NOTE: SCFM ratings given at 100 PSIG inlet pressure
 FRLs are designed for air service only, unless otherwise indicated.



Series 1 FRLs

R43-Series Water Pressure Regulators

Application

- Used in water systems to reduce and maintain pressure at a nearly constant level despite changes in the inlet pressure and changes in downstream flow requirements

Features

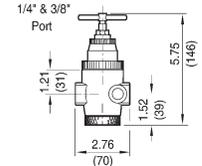
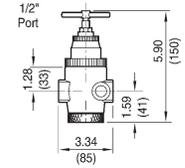
- T-handle adjustment
- Brass body and aluminum bonnet
- Non-relieving type
- Gauge port is full-flow and can be used as an outlet port
- Supplied with GC230 gauge

Specifications

- Pressure range: 5-125 PSI
- Inlet pressure: 400 PSI
- Temperature range:
 - water service: 35° to 200°F (2°C to 93°C)
 - air service: -30° to 200°F (-34°C to 93°C)



Port Size	Flow (GPM)	with Gauge Part #
1/4"	5	R43-201RG
3/8"	5	R43-301RG
1/2"	10	R43-406RG



11-009-Series Water Regulators

Application

- Balanced valve minimizes effects of the inlet pressure variations on outlet pressure

Features

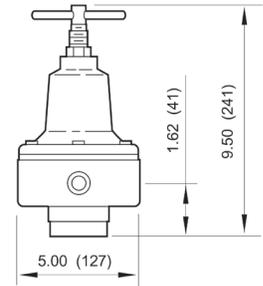
- T-handle adjustment
- Non-relieving type
- Body, valve, and bottom plug are brass; bonnet is aluminum and steel
- Elastomers are nitrile

Specifications

- Inlet pressure: 400 PSI
- Temperature range:
 - water service: 35° to 200°F (2° to 93°C)
 - air service: -30° to 200°F (-34° to 93°C)
- Pressure range: 5-125 PSIG



Port Size	Flow (GPM)	without Gauge Part #
3/4"	27.5	11-009-065
1"	27.5	11-009-081



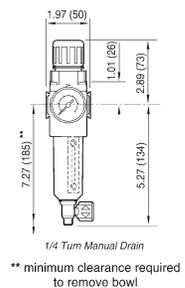
B72-Series Sub-Compact Filter/Regulators

Features

- Particle removal per ISO 8573-1, Class 5, and Class 3
- In-line or modular installation
- 40 micron element
- 2 oz. reservoir
- Quick-release bayonet bowl
- Prismatic lens liquid level indicator
- Supplied with GC620 gauge

Specifications

- Pressure range: 5-150 PSI
- Inlet pressure:
 - transparent bowl: max pressure 150 PSIG (10 bar) and temperature range -30°F to 125°F (-34°C to 50°C)
 - metal bowl: max pressure 250 PSIG (17 bar) and temperature range -30°F to 150°F (-34°C to 66°C)

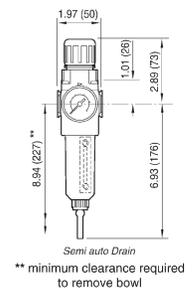


Transparent Bowl

Port Size	Flow (SCFM)	Semi-Automatic Drain Part #	Manual Drain Part #
1/4"	80	B72G-2AG	B72G-2MG

Metal Bowl and Sight Glass

Port Size	Flow (SCFM)	Semi-Automatic Drain Part #	Manual Drain Part #
1/4"	80	B72G-2AG-MB	B72G-2MG-MB
3/8"		B72G-3AG-MB	B72G-3MG-MB



NOTE: SCFM ratings given at 150 PSIG inlet pressure
FRLs are designed for air service only, unless otherwise indicated.
See pages 27-32 for accessories.



Series 1 FRLs

B73-Series Compact Filters/Regulators

Features

- Particle removal per ISO 8573-1, Class 5, and Class 3
- In-line or modular installation
- 40 micron element
- 3.5 oz. reservoir
- Quick-release bayonet bowl
- Prismatic lens liquid level indicator
- Supplied with GC230 gauge

Specifications

- Pressure range: **5-150 PSI**
- Inlet pressure:
 - transparent bowl: max pressure 150 PSIG (10 bar) and temperature range **-30°F to 125°F (-34°C to 50°C)**
 - metal bowl: max pressure 250 PSIG (17 bar) and temperature range **-30°F to 175°F (-34°C to 80°C)**

Transparent Bowl

Port Size	Flow (SCFM)	Automatic Drain Part #	Manual Drain Part #
1/4"	78	B73G-2AG	B73G-2MG
3/8"	123	B73G-3AG	B73G-3MG
1/2"	123	B73G-4AG	B73G-4MG

Metal Bowl and Sight Glass

Port Size	Flow (SCFM)	Automatic Drain Part #	Manual Drain Part #
1/4"	78	B73G-2AG-MB	B73G-2MG-MB
3/8"	123	B73G-3AG-MB	B73G-3MG-MB
1/2"	123	B73G-4AG-MB	B73G-4MG-MB

B74-Series Standard Filters / Regulators

Features

- 40 micron element
- 7 oz. reservoir
- Relieving type
- Supplied with GC230 gauge

Specifications

- Pressure range: **5-150 PSI**
- Inlet pressure:
 - transparent bowl: max pressure 150 PSIG (10 bar) and temperature range **-30°F to 125°F (-34°C to 50°C)**
 - metal bowl: max pressure 250 PSIG (17 bar) and temperature range **-30°F to 175°F (-34°C to 80°C)**

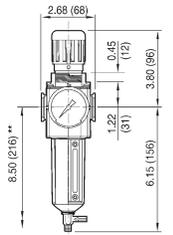
Transparent Bowl and Guard

Port Size	Flow (SCFM)	Automatic Drain Part #	Manual Drain Part #
1/2"	212	B74G-4AG	B74G-4MG
3/4"	212	B74G-6AG	B74G-6MG

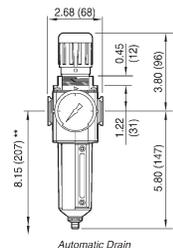
Metal Bowl and Sight Glass

Port Size	Flow (SCFM)	Automatic Drain Part #	Manual Drain Part #
3/8"	163	B74G-3AG-MB	B74G-3MG-MB
1/2"	212	B74G-4AG-MB	B74G-4MG-MB
3/4"	212	B74G-6AG-MB	B74G-6MG-MB

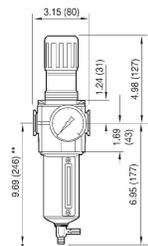
NOTE: SCFM ratings given at 150 PSIG inlet pressure
 FRLs are designed for air service only, unless otherwise indicated.
 See pages 27-32 for accessories.



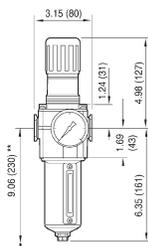
1/4 Turn Manual Drain
 ** minimum clearance required to remove bowl



Automatic Drain
 ** minimum clearance required to remove bowl



Manual Drain
 ** minimum clearance required to remove bowl



Automatic Drain
 ** minimum clearance required to remove bowl



with transparent bowl



with metal bowl



with guard



with metal bowl

Series 1 FRLs

B17-Series Filter/Regulator



Automatic

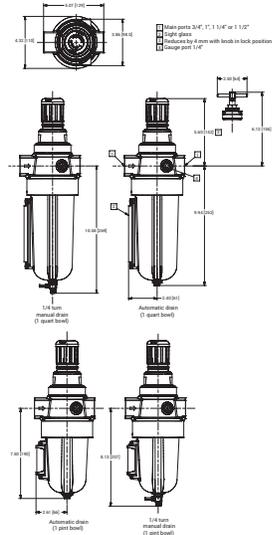
Features

- 5 micron
- 1 qt. reservoir
- Supplied with gauge

Specification

- Adjusting pressure range 5-125 PSI
- Max pressure 250 PSIG (17 bar) and temperature range -30°F to 175°F (-34C to 80C)

Port Size	Flow (SCFM)	Automatic Part #	Manual Part #
1"	650	B17-08AGMB	B17-08MGMB



L72-Series Sub-Compact Micro-Fog Lubricators

Application

- Micro-fog lubricators, identified by a red adjusting screw, are used for applications containing one or more points of lubrication, cylinders, and multiple or single tools
- Air flow through the lubricator lifts oil from the reservoir to the sight-feed dome; oil is dropped into the fog generator and atomized into a fine mist; lightweight particles are delivered downstream for lubrication; heavier particles fall back into the reservoir
- The micro-fog lubricator delivers 10% of the oil drops visible through the transparent sight-feed dome
- Micro-fog lubricators cannot be filled under pressure



with transparent bowl

Features

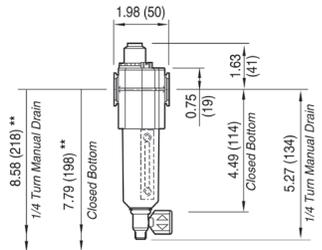
- 2 oz. reservoir
- In-line or modular installation
- Quick release bayonet bowl
- Micro-fog design delivers aerosol mist

Specifications

- Recommended lubricants: misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at 100°F (38°C)
- Maximum operating conditions:
 - transparent bowl: max pressure 150 PSIG (10 bar) and temperature range -30°F to 125°F (-34°C to 51°C)
 - metal bowl: max pressure 250 PSIG (17 bar) and temperature range -30°F to 150°F (-34°C to 66°C)

Port Size	Flow (SCFM)	Transparent Bowl Part #	Metal Bowl Part #
1/4"	51	L72M-2	L72M-2MB

NOTE: SCFM ratings given at 90 PSIG inlet pressure.



** minimum clearance required to remove bowl

L73-Series Compact Micro-Fog Lubricators

Features

- 4 oz. reservoir
- In-line or modular installation
- Quick release bayonet bowl
- Micro-fog design delivers aerosol mist

Specifications

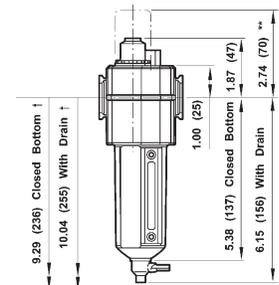
- Recommended lubricants: misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at 100°F (38°C)

- Maximum operating conditions:
 - transparent bowl: max pressure 150 PSIG (10 bar) and temperature range -30°F to 125°F (-34°C to 51°C)
 - metal bowl: max pressure 250 PSIG (17 bar) and temperature range -30°F to 175°F (-34°C to 80°C)

Port Size	Flow (SCFM)	Transparent Bowl Part #	Metal Bowl Part #
1/4"	60	L73M-2	L73M-2MB
3/8"	60	L73M-3	L73M-3MB
1/2"	60	L73M-4	L73M-4MB

NOTE: SCFM ratings given at 90 PSIG inlet pressure

FRLs are designed for air service only, unless otherwise indicated. See pages 27-32 for accessories.



with transparent bowl

Series 1 FRLs

Applications

- Micro-fog lubricators, identified by a red adjusting screw, are used for applications containing one or more points of lubrication, cylinders, and multiple, or single tools

Features

- Air flow through the lubricator lifts oil from the reservoir to the sight-feed dome; oil is dropped into the fog generator and atomized into a fine mist; lightweight particles are delivered downstream for lubrication; heavier particles fall back into the reservoir
- The micro-fog lubricator delivers 10% of the oil drops visible through the transparent sight-feed dome
- Micro-fog lubricators cannot be filled under pressure

L74-Series Standard Micro-Fog Lubricators

Features

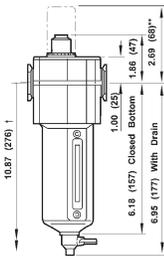
- 7 oz. reservoir
- In-line or modular installation
- Quick release bayonet bowl
- Micro-fog design delivers aerosol mist

Specifications

- Recommended lubricants: misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at 100°F (38°C)

- Maximum operating conditions:

- transparent bowl: max pressure 150 PSIG (10 bar) and temperature range -30°F to 125°F (-34°C to 51°C)
- metal bowl: max pressure 250 PSIG (17 bar) and temperature range -30°F to 175°F (-34° to 80°C)



** Optional pyrex sight-feed dome.
† Minimum clearance required to remove bowl.

Port Size	Flow (SCFM)	Transparent Bowl Part #	Metal Bowl Part #
3/8"	114	L74M-3	L74M-3MB
1/2"	154	L74M-4	L74M-4MB
3/4"	142	L74M-6	L74M-6MB

NOTE: SCFM ratings given at 90 PSIG inlet pressure.



transparent bowl

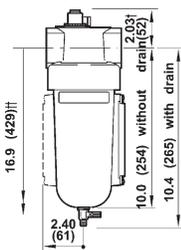
L17-Series Jumbo Micro-Fog Lubricators

Features

- 1 qt. reservoir
- Oil level sight gauge
- One turn threaded bowl attachment permits easy maintenance

Specifications

- Inlet pressure: 250 PSI
- Maximum temperature: 175°F (79°C)



1 quart US (1 liter) reservoir
1/4 turn drain

Port Size	Flow (SCFM)	Metal Bowl with Sight Glass Part #
3/4"	160	L17-600A
1"	275	L17-800A
1-1/4"	275	L17-A00A
1-1/2"	275	L17-B00A

NOTE: SCFM ratings given at 90 PSIG inlet pressure.



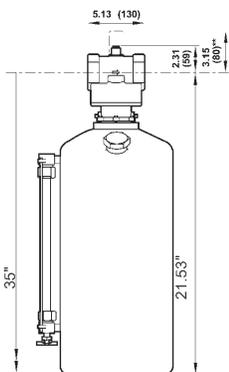
10-076-Series Jumbo General Purpose Oil-Fog Lubricators

Features

- 2 gallon reservoir
- Oil flow can be positively set
- Reservoir is ASME constructed
- Oil level sight gauge

Specifications

- Inlet pressure: 250 PSI
- Maximum temperature: 175°F (79°C)



2 and 5 gallon (8 and 20 liter) reservoir
** Optional pyrex sight-feed dome.
† Minimum clearance required to remove bowl.

Port Size	Flow (SCFM)	Metal Bowl with Sight Glass Part #
2"	1000	10-076-004

NOTE: SCFM ratings given at 100 PSIG inlet pressure.
See pages 27-32 for accessories.
See page 32 for air tool lubricant.
FRLs are designed for air service only, unless otherwise indicated.



Series 1 FRLs

Micro-Fog Lubricator with Pyrex Sight Feed Dome

Applications

- Designed for use with alcohol or other anti-freeze agents when units are installed in cold temperature environments
- Micro-fog lubricators are used for applications containing one or more points of lubrication, cylinders, and multiple or single tools
- Air flow through the lubricator lifts oil from the reservoir to the sight-feed dome; oil is dropped into the fog generator and atomized into a fine mist; lightweight particles are delivered downstream for lubrication; heavier particles fall back into the reservoir

Features

- High-pressure sight feed dome with aluminum case and fluorocarbon O-rings and seals; high pressure sight glass on bowls and metal petcock drain
- The micro-fog lubricator delivers 10% of the oil drops visible through the transparent sight-feed dome
- Micro-fog lubricators cannot be filled under pressure 

L73-Series Compact

Features

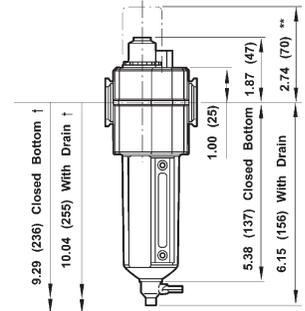
- 4 oz. reservoir
- In-line or modular installation
- Quick release bayonet bowl
- Micro-fog design delivers aerosol mist

Specifications

- Recommended lubricants: misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at **100°F (37°C)**
- Inlet pressure: **250 PSI**
- Maximum temperature: **175°F (79°C)**



Port Size	Flow (SCFM)	Metal Bowl with Sight Glass Part #
3/8"	60	L73M-3MBPX



L74-Series Standard

Features

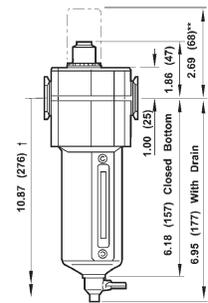
- 7 oz. reservoir
- In-line or modular installation
- Quick release bayonet bowl
- Micro-fog design delivers aerosol mist

Specifications

- Recommended lubricants: misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at **100°F (37°C)**
- Inlet pressure: **250 PSI**
- Maximum temperature: **175°F (79°C)**



Port Size	Flow (SCFM)	Metal Bowl with Sight Glass Part #
3/8"	114	L74M-3MBPX
1/2"	154	L74M-4MBPX
3/4"	142	L74M-6MBPX



** Optional pyrex sight-feed dome.
 † Minimum clearance required to remove bowl.

NOTE: SCFM ratings given at 90 PSIG inlet pressure.
 See pages 27-32 for accessories.

Air tool lubricant available. (part numbers DATL016, DATL128)

FRLs are designed for air service only, unless otherwise indicated. 

Series 1 FRLs

L74-Series Standard Oil-Fog Lubricators

Application

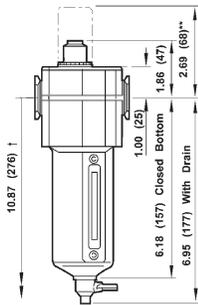
- Oil-fog lubricators, identified by a green adjusting screw, are used for lubricating a single air tool or air motor and should be installed as near the device as possible

Features

- All the oil visible dropping through the transparent sight-feed dome goes to the airstream
- L72C, L73C, and L74C oil-fog lubricators can be filled under pressure
- In-line or modular installation
- Quick-release bayonet bowl
- 7 oz. reservoir

Specifications

- Maximum operating conditions:
 - transparent bowl: max pressure 150 PSIG (10 bar) and temperature range **-30°F to 125°F (-34°C to 51°C)**
 - metal bowl: max pressure 250 PSIG (17 bar) and temperature range **-30°F to 175°F (-34°C to 80°C)**
- Recommended lubricants: misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at **100°F (37°C)**



** Optional pyrex sight-feed dome.
† Minimum clearance required to remove bowl.



metal bowl

Port Size	Flow (SCFM)	Transparent Bowl Part #	Metal Bowl Part #
3/8"	118	L74C-3	L74C-3MB
1/2"	192	L74C-4	L74C-4MB
3/4"	186	L74C-6	L74C-6MB

L17-Series Jumbo Oil-Fog Lubricators

Application

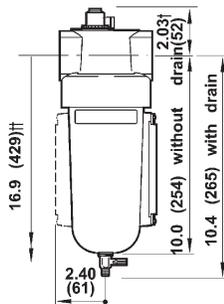
- Oil-fog lubricators, identified by a green adjusting screw, are used for lubricating a single air tool or air motor and should be installed as close to the device as possible

Features

- 1 qt. reservoir
- Oil level sight gauge
- All the oil visible dropping through the transparent sight-feed dome goes to the airstream
- One-turn threaded bowl attachment permits easy maintenance

Specifications

- Inlet pressure: **250 PSI**
- Maximum temperature: **175°F (79°C)**



1 quart US (1 liter) reservoir
1/4 turn drain

Port Size	Flow (SCFM)	Metal Bowl with Sight Glass Part #
3/4"	160	L17-600D
1"	275	L17-800D
1-1/2"	275	L17-B00D



metal bowl

NOTE: SCFM ratings given at 90 PSIG inlet pressure.

See pages 27-32 for accessories.

See page 32 for air tool lubricant.

FRLs are designed for air service only, unless otherwise indicated.

Series 1 FRLs

E73-Series Compact Combination Units

Features

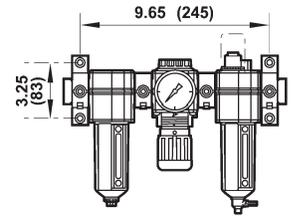
- 4 oz. reservoir
- Supplied with a G230 gauge
- Connected modularly
- Includes (2) clamps and wall mounting brackets #4314-52, (2) clamps #4314-51, and (2) NPT pipe adapters #4315-01.

Specifications

- 5-150 PSI range
- Inlet pressure:
 - transparent bowl: 150 PSI and 125°F (52°C)
 - metal bowl: 250 PSI and 175°F (79°C)



metal bowls



Transparent Bowl

Port Size	Flow (SCFM)	Automatic Drain Part #	Manual Drain Part #
1/4"	70	E73-2A	E73-2M
3/8"	70	E73-3A	E73-3M
1/2"	70	E73-4A	E73-4M

Metal Bowl

Port Size	Flow (SCFM)	Automatic Drain Part #	Manual Drain Part #
3/8"	70	E73-3A-MB	E73-3M-MB
1/2"	70	E73-4A-MB	E73-4M-MB

E74-Series Standard Combination Units

Features

- 7 oz. reservoir
- Models supplied with a GC230 gauge
- Connected modularly
- Includes (2) clamps and wall mounting brackets #4314-52, (2) clamps #4314-51, and (2) NPT pipe adapters

Specifications

- Inlet pressure:
 - transparent bowl: 150 PSI and 125°F (52°C)
 - metal bowl: 250 PSI and 175°F (79°C)
- Pressure range: 5-150 PSI



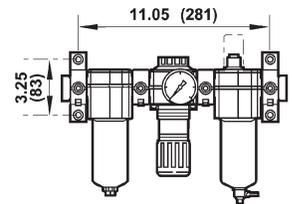
transparent bowl with guard

Transparent Bowl and Guard

Port Size	Flow (SCFM)	Automatic Drain Part #	Manual Drain Part #
1/2"	150	E74-4A	E74-4M
3/4"	140	E74-6A	E74-6M

Metal Bowl and Sight Glass

Port Size	Flow (SCFM)	Automatic Drain Part #	Manual Drain Part #
3/8"	110	E74-3A-MB	E74-3M-MB
1/2"	150	E74-4A-MB	E74-4M-MB
3/4"	140	E74-6A-MB	E74-6M-MB



with metal bowls

P8A Jumbo Combination Units

Feature

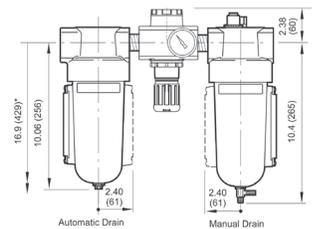
- 1 qt. reservoir

Specifications

- Pressure range: 5-125 PSI
- Inlet pressure: 250 PSI
- Maximum temperature: 175°F (79°C)

Metal Bowl and Sight Glass

Port Size	Flow (SCFM)	Automatic Drain Part #	Manual Drain Part #
1"	275	P8A-860A	P8A-860M



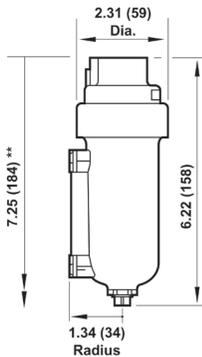
* Minimum clearance required to remove bowl.

NOTE: SCFM ratings given at 90 PSIG inlet pressure.
FRLs are designed for air service only, unless otherwise indicated.



Series 1 FRLs

17-016-Series Drip Leg Automatic Drain



** Minimum clearance to remove bowl.

Application

- Used in compressed air systems to automatically expel liquids from piping systems, installed at low points in piping and at end of pipe network where water is likely to accumulate

Features

- Metal bowl
- Drain is ported to 1/8" NPT

Specifications

- Inlet pressure: 250 PSIG
- Maximum temperature: 175°F (79°C)



Port Size	Part #
1/2"	17-016-107

Filter Elements

Used On	Description	Part #
F07	5 micron	3652-11
F08	5 micron	3161-16
	40 micron	3161-18
F17	5 micron bronze	5311-01
	25 micron bronze	5311-02
	40 micron bronze	5311-03
F18	5 micron bronze	5882-11
	25 micron bronze	5882-12
	50 micron bronze	5882-13
F72	5 micron	5925-03
	40 micron	5925-02
F73	5 micron	4438-01
	40 micron	4438-03
F74	5 micron	4338-04
	40 micron	4338-05



5 micron element
5925-03

Filter Bowl / Bowl Guards

Used On	Description	Part #
F07	polycarbonate bowl with auto drain	3646-51
	polycarbonate bowl with manual drain	3646-53
F08	transparent bowl with manual drain	3776-50
F17	metal bowl with petcock drain	5390-77
F72	transparent bowl with manual drain	4266-50RF
	transparent bowl with semi-automatic drain	4266-52RF
F73	transparent bowl with manual drain, 1/4 turn	4425-50RF
	transparent bowl with auto drain	4425-51RF
F74	plastic bowl assembly with guard and 1/4 turn manual drain	4325-51R
	plastic bowl assembly with guard and automatic drain	4325-52R



transparent bowl and guard
4325-51R

Series 1 FRLs Accessories

Filter Drains



Used On	Description	Part #
F17, F74	auto drain	3000-10
	manual drain	619-50
	manual drain assembly	2796-52
F72, F73	auto drain	4000-51R
F72, F73 F74	manual drain	619-50

Filter Lens Kits



Used On	Description	Part #
F72	liquid level lens kit	4380-020
F73	liquid level lens kit	4380-030
F74	high pressure dome sight glass kit	4380-051

Filter Indicator Conversion Kit

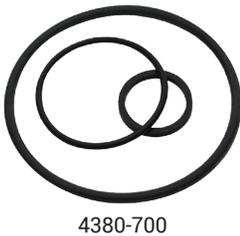
Features

- Allows addition of service life indicator in the field
- For general purpose and oil removal filters



Used On	Description	Part #
F72, F73, F74	service life indicator	5797-50

Filter Service Kit



Used On	Description	Part #
F17	O-rings, seals, and gaskets	5578-05
F18		5945-50
F73		4380-600
F74		4380-700

Filter Oil/Vapor Removal Filters



Used On	Description	Part #
F74C	oil removal filter	4344-01
F74H	oil removal filter	4344-02
F74V	vapor removal filter	4341-01

Series 1 FRLs Accessories

Regulator Springs

Used On	Pressure Ratings	Part #
R74	5-60 PSI	4332-01
	5-150 PSI	4332-02



4432-02

Tamper-Resistant Covers

Features

- Helps prevent unauthorized pressure adjustment setting
- Cover can be locked in place with up to four padlocks
- Installs on adjusting knob

Used On	Description	Part #
R72	tamper-resistant cover with seal wire	4255-51
R73		4455-51
R74		4355-51



Regulator Panel Nuts

Used On	Description	Part #
R07	plastic panel nut	2962-89
R08	plastic panel nut	5191-89
R17	metal panel nut	5226-97
R72	plastic panel nut	4248-89
R73	zinc panel nut	5191-88
R74	zinc panel nut	4348-89



4248-89

Regulator Diaphragm Relieving Kits

Used On	Description	Part #
R07	diaphragm, relieving	3407-02
R08		5298-14
R11		529-03
R17		5578-02
R72		4381-500
R73		4381-600
R74		4381-700



3407-02



4381-700

Series 1 FRLs Accessories

Lubricator Bowl/Bowl Guards



3646-54

Used On	Description	Part #
L07	polycarbonate bowl with manual drain	3646-54
L73	transparent bowl with manual drain	4425-50RL
L74	metal bowl with liquid level indicator and 1/4 turn manual drain	4303-77R
	transparent bowl with manual drain	4325-50R

Seal Wire

Feature

- Provides tamper-resistant protection of the lubricator drip rate setting



Used On	Description	Part #
L73, L74	metal wire	2117-01

Domes, Caps, and Plugs



18-011-021



5605-50

Used On	Description	Part #
L08	quick-fill cap	18-011-024
L17, L74	quick-fill cap	18-011-021
L73, L74	aluminum fill plug	5301-55
L17, L72, L73, L74	sight feed dome (micro-fogging design)	4055-50
L72, L74	sight feed dome (oil-fogging design)	4055-51
L74	high pressure sight feed dome	5605-50
	liquid level indicator repair kit	4380-050

Lubricator Seal Kits



5771-02

Used On	Description	Part #
L17	O-rings, seals, and gaskets	5771-02
L73		4382-600
L74		4382-700

Series 1 FRLs Quick-Clamps and Brackets

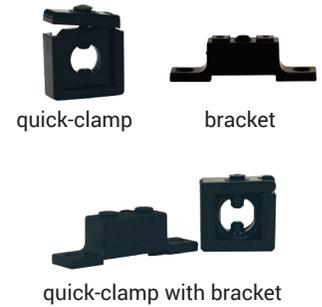
Features

Quick-clamp

- Provides modular installation capability
- Flanges designated to slide into V grooves in clamp
- Face-sealing O-rings provide a positive seal when clamp is closed and screw tightened

Bracket for quick-clamp

- Provides secure mounting to a wall, machine panel, or other flat surface



Used On Filter/ Regulator/ Lubricator Series	Description	Part #
L72	quick-clamp	4214-51
F72	quick-clamp service kit (2 O-rings)	4384-570
R72	quick-clamp and bracket assembly	4214-52
F73, F74, R73, R74, L72, L73	quick-clamp	4314-51
	quick-clamp service kit (2 O-rings)	4384-770
	wall bracket for quick-clamp (uses 7/32" screws)	4313-50
	quick-clamp and bracket assembly	4314-52

Blocks

Features

- Installed with quick-clamps
- Provides additional outlets and manifolding capability



Used On Filter/ Regulator/ Lubricator Series	Description	Part #
F73, F74, R73, R74, L73, L74	porting block, three 1/4" PTF outlets	4316-50
	manifold block, three 3/4" PTF outlets	4328-50

Pipe Adapters

Features

- Installed with quick-clamps
- Provides PTF connections to system piping
- Sold individually



Used On Filter/ Regulator/ Lubricator Series	Description	Part #
L72, F72, R72	1/4" PTF connections	4215-02
	3/8" PTF connections	4215-03
F73, F74, R73, R74, L73, L74	1/4" PTF connections	4315-01
	3/8" PTF connections	4315-02
	1/2" PTF connections	4315-03
	3/4" PTF connections	4315-04

NOTE: Used on filters/regulators/lubricator series

Series 1 FRLs

Mounting Brackets



6212-50

Used On	Description	Part #
F07	mounting bracket only	5939-06
L07	mounting bracket only	5095-17
F17, L17	mounting bracket kit for 3/4" and 1" ported units	6212-50

Wall Mounting Brackets

Features

- Alternate to quick-clamps and pipe adapters
- Used to secure to a wall, machine panel, or other flat surface
- Use close nipples to connect combination unit and then place in bracket



4324-50

Used On Filter/ Regulator/ Lubricator Series	Description	Part #
L72, F72, R72	wall mounting bracket for all F72 series	4224-50
L73, F73, R72	wall mounting bracket for all F73 series	4424-50
L74, F74, R74	wall mounting bracket for all F74 series	4324-50

Regulator Mounting Brackets



18-025-003



5203-06

Used On Filter/ Regulator/ Lubricator Series	Description	Part #
B07, R07	mounting bracket with plastic panel nut	18-025-003
B08, R08		5203-06
R17		5570-04

Air Tool Lubricants

Application

- High grade lubricant prolongs the service life of air tools, cylinders, and accessories

Features

- #10 weight lubricant
- Compound is superior in performance to ordinary lubricants
- Prohibits rust and removes moisture as it lubricates
- Non-corrosive, non-reactive, non-detergent, and does not decompose
- Easy pour spout helps prevent costly spills
- Also for use with the in-line lubricators



Pint



Gallon

Size	Part #	Optional Qty
1 pint	DATL016	12
1 gallon	DATL128	4

