

# AIR PREPARATION & CONDENSATE MANAGEMENT



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# AIR PREPARATION & CONDENSATE MANAGEMENT

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### GENERAL PURPOSE FILTERS

General purpose, compressed air filters remove water and particulate material from the air stream to protect downstream equipment from contamination. As air enters the filter, internal baffles create a swirling motion to the air, meaning entrained dirt and liquids are thrown against the sides of the filter bowl and then fall to the sump area at the bottom of the bowl. Additional baffling keeps the air in the sump area relatively quiet; this ensures that the removed material is not returned to the air flow going to the filter element. The filter element will then collect smaller particles.

### COALESCENT FILTERS

A 0.3µm rated coalescing filter element is standard in all coalescing units. They remove 99.99% of oil and solid contaminants larger than 0.3µm. An optional 0.01µm rated element provides extremely fine filtration, but at some reduction in air flow. However, in Series 380 and Vanguard filters, extended bowls with higher capacity coalescing elements are available, which allow significantly increased air flows.

### ADSORBER FILTERS

The adsorbing filters are designed to remove vapours from the air line that cannot be removed by a coalescing filter. They produce air that is virtually free of oil and hydrocarbons, as required by industries, such as food processing, electronics and instrumentation. The filter cartridges contain activated carbon to adsorb hydrocarbon vapours and odours from alcohols, esters and ketones. An optional extended bowl includes a higher capacity adsorbing cartridge, which allows as much as 50 per cent greater airflow.

### ULTRA CLEAN FILTER ASSEMBLIES

These assemblies consist of three filters: a general purpose filter, a coalescing filter and an adsorbing filter. The general purpose filter removes gross contaminants, while the coalescing filter removes oil mists, aerosols and minute particles. Finally, the adsorbing filter virtually eliminates odours from freons, alcohols, esters, ketones and up to 99% of most hydrocarbons.

### PRESSURE REGULATORS

Design parameters, that reflect a "blend" of performance characteristics to best meet the needs of industry, are found in the many series of pressure regulators that Master Pneumatic offers. Air flow, accuracy of pressure settings, variations in air flow and supply pressure, regulated pressure ranges, response time, repeatability, sensitivity and relief capacity, physical size and cost were all major considerations in their design. Pilot operated regulators are available for applications where hands on is not possible or where there are safety issues.

### SEMI-PRECISION PRESSURE REGULATORS

Recommended on applications where "near-instrument quality" pressure control is required at a relatively low cost. A large diaphragm area allows greater sensitivity and adjustment resolution than available with standard miniature pressure regulators. A smaller valve seat results in greater precision and less regulated pressure variation with variations in supply pressure.

### AIR-LINE LUBRICATORS

Master Pneumatic manufacture both wick feed and sight feed lubricators. Each design has unique operating principles, benefits and features.

In a wick feed lubricator, a porous bronze wick is saturated with oil by capillary attraction. Oil is stripped off the wick by air flow in a constant oil-to-air ratio. The design is essentially self-adjusting, however oil delivery can also be varied by manual adjustment. Units will not shut off or clog, even with dirt and moisture in the reservoir.

In the sight feed lubricator, air flows through an automatic flow sensor, which creates a slight pressure differential between the air passage and the oil reservoir. This causes oil to move up a riser tube, through the adjustable metering valve and to drip into a transparent nylon sight feed dome. Sight feed lubricators are easy to adjust, visibly show how much oil is being dispensed and can be filled under pressure. The adjusting knob can be removed to make the lubricator "tamper resistant". All working parts are in an easily replaceable cartridge. For precision lubrication, refer to the SERV-OIL lubrication section.

### RELIEF VALVES

Relief valves are set for a desired maximum system pressure and inserted in a tee, downstream of regulated pressure, to prevent over pressurisation of the system beyond the relief valve setting. If the pressure exceeds the relief valve setting, it will dump system air to atmosphere.

### INTEGRAL FILTER / REGULATORS

These units have essentially the same performance characteristics and features of individual filters and regulators but provide economy of size and a lower cost. They are particularly useful where horizontal space is limited.

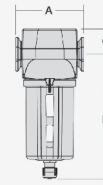
## GENERAL PURPOSE FILTERS

### FEATURES

- Modular or in-line mounting
- BSPP threads, NPTF optional

### SPECIFICATIONS

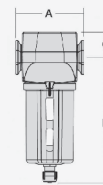
Ambient / media temperature	Plastic bowl, both drain types +4°C to +52°C (+40°F to +125°F) Metal bowl, manual drain +4°C to +79°C (+40°F to +175°F) Metal bowl, auto float drain +4°C to +66°C (+40°F to +150°F)
Head	Die-cast zinc
Bowl	151 ml (5.1 oz) capacity polycarbonate plastic with nylon shatterguard, optional 177 ml (6.0 oz) aluminium bowl with clear nylon sight glass.
Cap colour	Blue standard. Accent grey, yellow and red optional
Filter element	5µm rated polyethylene, optional 5µm, 20µm and 40µm rated sintered bronze element.
Inlet pressure	Plastic bowl & manual drain: 0-10 bar (0-150 psig) Plastic bowl & auto float drain: 2-10 bar (30-150 psig) Metal bowl & manual drain: 0-17 bar (0-250 psig) Metal bowl & auto float drain: 2-14 bar (30-200 psig)
Fluid media	Compressed air
Seals	Nitrile
Dimensions A x B x C	Plastic bowl = 76.2 x 140.6 x 28.3 mm Metal bowl = 76.2 x 163.1 x 28.3 mm



**SERIES F350  
FILTER (MANUAL DRAIN)**

3210

PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-F350-2W	G1/4"	5 micron	£50.37
M-F350-3W	G3/8"	5 micron	£50.37
M-F350-4W	G1/2"	5 micron	£50.37



**SERIES BF350  
FILTER WITH METAL BOWL  
(MANUAL DRAIN)**

3210

PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-BF350-2W	G1/4"	5 micron	£58.90
M-BF350-3W	G3/8"	5 micron	£58.90
M-BF350-4W	G1/2"	5 micron	£58.90

## COALESCENT FILTERS

### FEATURES

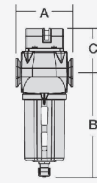
- In-line mounting
- BSPP threads, NPTF optional

### SPECIFICATIONS

Ambient / media temperature	Plastic bowl, both drain types +4°C to +52°C (+40°F to +125°F) Metal bowl, manual drain +4°C to +79°C (+40°F to +175°F) Metal bowl, auto float drain +4°C to +66°C (+40°F to +150°F)
Head	Die-cast zinc
Bowl	151 ml (5.1 oz) capacity polycarbonate plastic with nylon shatterguard, optional 177 ml (6.0 oz) aluminium bowl with clear nylon sight glass. Optional 300 ml (10 oz) extended aluminium bowl with clear nylon sight glass and higher flow filter element.
Cap colour	Blue standard. Accent grey, yellow and red optional
Filter element	0.3µm rated borosilicate glass-fibre, optional. 0.01µm rated element (reduces flow by 20%)
Inlet pressure	Plastic bowl & manual drain: 0-10 bar (0-150 psig) Plastic bowl & auto float drain: 2-10 bar (30-150 psig) Metal bowl & manual drain: 0-17 bar (0-250 psig) Metal bowl & auto float drain: 2-14 bar (30-200 psig)
Fluid media	Compressed air
Seals	Nitrile
Dimensions A x B x C	Plastic bowl = 76.2 x 140.7 x 59.3 mm Metal bowl = 76.2 x 163.1 x 59.3 mm Metal extended = 76.2 x 241.6 x 59.3 mm



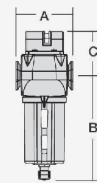
Auto drain:  
available  
upon  
request.



**SERIES FC350  
COALESCING FILTER  
(MANUAL DRAIN)**

3210

PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-FC350S-2W	G1/4"	0.3 micron	£117.44
M-FC350S-3W	G3/8"	0.3 micron	£117.44
M-FC350S-4W	G1/2"	0.3 micron	£117.44



**SERIES BFC350  
COALESCING FILTER WITH  
METAL BOWL AND GAUGE  
(MANUAL DRAIN)**

3210

PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-BFC350S-2W	G1/4"	0.3 micron	£125.98
M-BFC350S-3W	G3/8"	0.3 micron	£125.98
M-BFC350S-4W	G1/2"	0.3 micron	£125.98

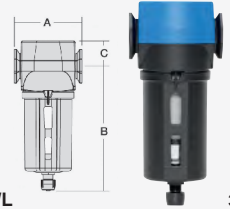
## ADSORBER FILTERS

### SPECIFICATIONS

Ambient / media temperature	Plastic bowl: +4°C to +52°C (+40°F to +125°F) Metal bowl manual drain: +4°C to +79°C (+40°F to +175°F)
Bowl	151 ml (5 oz) capacity polycarbonate plastic with nylon shatterguard, optional 177 ml (6 oz) aluminium bowl with clear nylon sight glass. Optional 300 ml (10 oz) extended aluminium bowl with clear nylon sight glass and extended flow filter element
Bowl ring	Nylon
Cap colour	Yellow standard. Accent grey, blue and red optional
Filter cartridge	Activated carbon with urethane seals
Inlet pressure	Plastic bowl & manual drain: 0–10 bar Metal bowl & manual drain: 0–17 bar
Seals	Nitrile
Dimensions A x B x C	Extended metal bowl: 76 x 241 x 28 mm Standard metal bowl: 76 x 163 x 28 mm Standard plastic bowl: 76 x 140 x 28 mm

### FEATURES

- Modular or in-line mounting
- BSPP port threads, NPTF optional



**SERIES FC350-E9  
MANUAL DRAIN PLASTIC BOWL**

3210

PART NUMBER	PORT SIZE	PRICE
M-FC350-2E9	G1/4"	£133.36
M-FC350-3E9	G3/8"	£133.36
M-FC350-4E9	G1/2"	£133.36

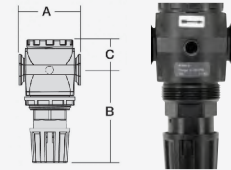
## REGULATORS

### SPECIFICATIONS

Ambient / media temperature	+4°C to +79°C (+40°F to +174°F)
Head	Die-cast zinc
Dome and valve cap	Nylon
Outlet pressure	Adjustable up to 10 bar (150 psig), optional adjusting springs
Pressure gauge	Up to 14 bar, 1/4" BSPT gauge ports front & rear
Panel mounting	52 mm (2.05") hole required
Fluid media	Compressed air
Seals	Nitrile
Valve	Brass
Dimensions A x B x C	76.2 x 114.9 x 37 mm

### FEATURES

- Modular or in-line mounting
- Self-relieving, diaphragm type regulator, non-relieving optional
- Optional, removable, pressure adjustment locking key, tamper resistant pressure setting
- BSPP threads, NPTF optional



**SERIES R350  
DIAPHRAGM TYPE**

3210

PART NUMBER	PORT SIZE	PRICE
M-R350-2W	G1/4"	£49.51
M-R350-3W	G3/8"	£49.51
M-R350-4W	G1/2"	£49.51

**Gauge supplied separately.  
Please see accessories on page 117.**

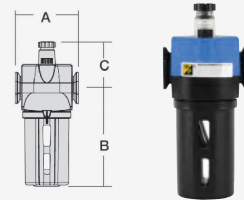
## AIR-LINE LUBRICATORS

### FEATURES

- Modular or in-line mounting
- Sight feed design, transparent dome shows how much oil is being dispensed
- External oil adjusting knob, removable for tamper resistance
- Polycarbonate plastic bowl with nylon shatterguard or aluminium bowl with clear nylon sight glass
- All working parts can be replaced with a single service cartridge
- BSPP threads, NPTF optional

### SPECIFICATIONS

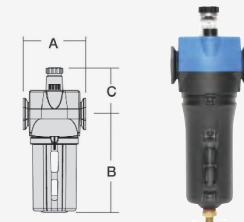
Ambient / media temperature	Plastic bowl: +4°C to +52°C (+40°F to +125°F) Metal bowl: +4°C to +79°C (+40°F to +175°F)
Head	Die-cast zinc
Bowl	151 ml (5.1 oz) capacity polycarbonate plastic with nylon shatterguard, optional 177 ml (6.0 oz) aluminium bowl with clear nylon sight glass. Optional 300 ml (10 oz) extended aluminium bowl with clear nylon sight glass.
Cap colour	Blue standard. Accent grey, yellow and red optional
Sight dome	Nylon
Inlet pressure	Plastic bowl: 10 bar maximum Metal bowl: 17 bar maximum
Fluid media	Compressed air
Seals	Nitrile
Dimensions A x B x C	Plastic bowl = 76.2 x 119.9 x 56.1 mm Metal bowl = 76.2 x 152.9 x 56.1 mm Metal extended = 76.2 x 238 x 56.1 mm



**SERIES L350  
LUBRICATOR**

3210

PART NUMBER	PORT SIZE	PRICE
M-L350D-2W	G1/4"	£54.87
M-L350D-3W	G3/8"	£54.87
M-L350D-4W	G1/2"	£54.87



**SERIES BL350  
LUBRICATOR  
WITH METAL BOWL**

3210

PART NUMBER	PORT SIZE	PRICE
M-BL350D-2W	G1/4"	£63.40
M-BL350D-3W	G3/8"	£63.40
M-BL350D-4W	G1/2"	£63.40

## COMBINED FILTER / REGULATOR

### FEATURES

- Filter and regulator consolidated into a single, space saving assembly
- Modular or in-line mounting
- Self-relieving, diaphragm type regulator, non-relieving optional
- Optional, removable, pressure adjustment locking key, tamper resistant pressure setting
- BSPP threads, NPTF optional

### SPECIFICATIONS

Ambient / media temperature	Plastic bowl, both drain types +4°C to +52°C (+40°F to +125°F) Metal bowl, manual drain +4°C to +79°C (+40°F to +175°F) Metal bowl, auto float drain +4°C to +66°C (+40°F to +150°F)
Head	Die-cast zinc
Dome and valve cap	Nylon
Bowl	151 ml (5.1 oz) capacity polycarbonate plastic with nylon shatterguard, optional 177 ml (6.0 oz) aluminium bowl with clear nylon sight glass
Filter bowl drain	Manual drain
Filter element	5µm rated polyethylene, optional 5µm, 20µm and 40µm rated sintered bronze element.
Inlet pressure	Plastic bowl & manual drain: 0-150 psig (0-10 bar) Plastic bowl & float drain: 30-150 psig (2-10 bar) Metal bowl & manual drain: 0-250 psig (0-17 bar) Metal bowl & float drain: 30-200 psig (2-14 bar)
Outlet pressure	Adjustable up to 10 bar (150 psig), optional adjusting springs
Pressure gauge	Up to 14 bar, 1/4" BSPT gauge ports front & rear
Panel mounting	52 mm (2.05") hole required
Fluid media	Compressed air
Seals	Nitrile
Valve	Brass
Dimensions A x B x C	Plastic bowl = 76.2 x 140.6 x 119 mm Metal bowl = 76.2 x 161.8 x 119 mm



### SERIES CFR350 FILTER / REGULATOR (MANUAL DRAIN)



3210

PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-CFR350-2W	G1/4"	5 micron	£90.17
M-CFR350-3W	G3/8"	5 micron	£90.17
M-CFR350-4W	G1/2"	5 micron	£90.17

Auto drain:  
available  
upon  
request.

### SERIES BCFR350 FILTER / REGULATOR WITH METAL BOWL (MANUAL DRAIN)



3210

PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-BCFR350-2W	G1/4"	5 micron	£98.71
M-BCFR350-3W	G3/8"	5 micron	£98.71
M-BCFR350-4W	G1/2"	5 micron	£98.71

## 350 SERIES ACCESSORIES

### FILTER ELEMENTS FOR USE WITH GENERAL PURPOSE FILTERS F\*350 AND INTEGRAL CFR\*350

3210

PART NUMBER	DESCRIPTION	PRICE
M-A60F-03PE5	5 Micron polyethylene	£6.20
M-A60F-03E5	5 Micron bronze	£8.48
M-A60F-03E4	20 Micron bronze	£8.48
M-A60F-03E3	40 Micron bronze	£8.48

### FILTER ELEMENTS FOR USE WITH COALESCENT FILTERS FC\*350

3210

PART NUMBER	DESCRIPTION	PRICE
M-A60F-23	0.3 micron coalescent plastic	£24.29
M-A60F-23E8	0.01 micron coalescent plastic	£24.29
M-A60F-29	0.3 micron coalescent metal bowl	£41.40
M-A60F-29E8	0.01 micron coalescent metal bowl	£43.47
M-A60F-32E8	0.01 micron coalescent metal ext. 10 oz	£72.87

### FILTER ELEMENTS FOR USE WITH ADSORBER FILTERS FC\*350-\*E9

3210

PART NUMBER	DESCRIPTION	PRICE
M-A60F-29E9	Activated carbon element kit, standard bowl	£66.38
M-A60F-32E9	Activated carbon element kit, extended bowl	£111.91

### MOUNTING BRACKETS AND CONNECTORS

3210

PART NUMBER	DESCRIPTION	PRICE
M-A-127-11	Regulator panel mounting nut & mounting bracket	£9.39
M-127-11	Regulator panel mounting nut	£4.40
M-37-71	Regulator bracket	£9.18
M-A118-105M	Modular connector kit	£20.84
M-A118-105	Modular connector	£11.34
M-A118-103	Mounting bracket and screws	£9.50
M-KA37-68	Gauge port & mounting bracket	£18.78
M-KA37-68L	Gauge port & extended mounting bracket	£24.72
M-UMB-2	1/4" U-bolt bracket	£14.61
M-UMB-3	3/8" U-bolt bracket	£14.61
M-UMB-4	1/2" U-bolt bracket	£14.61

### REGULATOR PRESSURE GAUGE

3210

PART NUMBER	DESCRIPTION	PRICE
M-200-BDD	0-200 psi gauge	£11.67

### COALESCENT FILTER DIFFERENTIAL GAUGE

3210

PART NUMBER	DESCRIPTION	PRICE
M-103-151	Differential slide gauge	£30.53

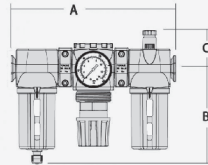
## FILTER / REGULATOR / LUBRICATOR

### SPECIFICATIONS

Ambient / media temperature	Plastic bowl, both drain types +4°C to +52°C (+40°F to +125°F) Metal bowl, manual drain +4°C to +79°C (+40°F to +175°F) Metal bowl, auto float drain +4°C to +66°C (+40°F to +150°F)
Head	Die-cast zinc
Sight dome	Clear nylon
Regulator valve	Brass
Regulator dome & valve cap	Nylon
Cap colour	Blue standard. Accent grey, yellow and red optional
Bowl	151 ml (5.1 oz) capacity polycarbonate plastic with nylon shatterguard, optional 177 ml (6.0 oz) aluminium bowl with clear nylon sight glass. Lubricator bowl has an optional 300 ml (10 oz) extended aluminium bowl with clear nylon sight glass.
Filter drain	Internal automatic float drain, optional manual drain.
Filter element	5µm rated polyethylene, optional 5µm, 20µm and 40µm rated sintered bronze element.
Inlet pressure	Plastic bowl & manual drain: 0-10 bar (0-150 psig) Plastic bowl & auto float drain: 2-10 bar (30-150 psig) Metal bowl & manual drain: 0-17 bar (0-250 psig) Metal bowl & auto float drain: 2-14 bar (30-200 psig)
Outlet pressure	Adjustable up to 10 bar
Pressure gauge	Up to 14 bar, 1/4" BSPT gauge ports front & rear
Seals	Nitrile
Dimensions A x B x C	Plastic bowls = 247.4 x 140.7 x 56.2 mm Metal bowls = 247.4 x 163.1 x 56.2 mm Metal extended = 247.4 x 238 x 56.2 mm

### FEATURES

- Individual filter, regulator and sight feed lubricator
- Internal, automatic float drain included
- Modular or optional in-line mounting
- Self-relieving, diaphragm type regulator, non-relieving optional
- External oil adjustment, tamper resistant
- Optional removable, pressure adjustment locking key
- Pressure gauge; two gauge ports
- BSPP threads; NPTF optional



**SERIES 350 ASSEMBLY WITH GAUGE PLASTIC BOWLS AUTOMATIC FLOAT DRAIN**

3210

PART NUMBER	PORT SIZE	PRICE
M-DAG1A1B6A12	G1/4"	£208.93
M-DAG1A1B6A13	G3/8"	£208.93
M-DAG1A1B6A14	G1/2"	£208.93



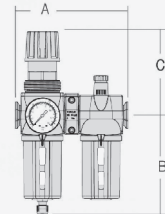
## FILTER / REGULATOR AND LUBRICATOR

### SPECIFICATIONS

Ambient / media temperature	Plastic bowl, both drain types +4°C to +52°C (+40°F to +125°F) Metal bowl, manual drain +4°C to +79°C (+40°F to +175°F) Metal bowl, auto float drain +4°C to +66°C (+40°F to +150°F)
Head	Die-cast zinc
Sight dome	Clear nylon
Regulator valve	Brass
Regulator dome & valve cap	Nylon
Cap colour	Filter / regulator, black only. Blue lubricator, red, yellow and grey optional.
Bowl	151 ml (5.1 oz) capacity polycarbonate plastic with nylon shatterguard, optional 177 ml (6.0 oz) aluminium bowl with clear nylon sight glass.
Filter drain	Internal automatic drain, optional manual drain
Filter element	5µm rated polyethylene, optional 5µm, 20µm and 40µm rated sintered bronze element.
Inlet pressure	Plastic bowl & manual drain: 0-10 bar (0-150 psig) Plastic bowl & auto float drain: 2-10 bar (30-150 psig) Metal bowl & manual drain: 0-17 bar (0-250 psig) Metal bowl & auto float drain: 2-14 bar (30-200 psig)
Outlet pressure	Adjustable up to 10 bar
Pressure gauge	Up to 14 bar, 1/4" BSPT gauge ports front & rear
Fluid media	Compressed air
Seals	Nitrile
Dimensions A x B x C	Plastic bowls = 164.5 x 140.7 x 118.9 mm Metal bowls = 164.5 x 163.1 x 118.9 mm Metal extended = 164.5 x 237.1 x 118.9 mm

### FEATURES

- Filter and regulator consolidated in a single assembly, sight feed lubricator
- Modular or optional in-line mounting
- External tamper resistant oil adjustment
- Self-relieving, diaphragm type regulator, non-relieving optional
- Pressure gauge, two gauge ports
- BSPP threads, NPTF optional



**SERIES 350 INTEGRAL ASSEMBLY GAUGE PLASTIC BOWLS AUTOMATIC FLOAT DRAIN**

3210

PART NUMBER	PORT SIZE	PRICE
M-DAG3A0B6A12	G1/4"	£187.89
M-DAG3A0B6A13	G3/8"	£187.89
M-DAG3A0B6A14	G1/2"	£187.89



## GENERAL PURPOSE FILTERS

### FEATURES

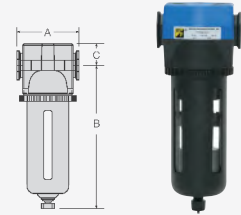
- Modular or in-line mounting
- BSPP threads, NPTF optional

### SPECIFICATIONS

Ambient / media temperature	Plastic bowl, all drain types: +4°C to +52°C (+40°F to +125°F) Metal bowl, manual and auto drain: +4°C to +79°C (+40°F to +175°F) Metal bowl, float drain: +4°C to 66°C (+44° to +150°F)
Head	Die-cast zinc
Bowl	270 ml (9 oz) capacity polycarbonate plastic with steel shatterguard, optional aluminium bowl with clear nylon sight glass
Bowl ring	Nylon
Cap colour	Blue standard. Accent grey, yellow and red optional
Filter element	5µm rated polyethylene, optional 5µm, 20µm sintered bronze and 40µm polyethylene elements
Inlet pressure	Plastic bowl & manual drain: 0-10 bar (0-150 psig) Plastic bowl & auto float drain: 2-10 bar (30-150 psig) Metal bowl & manual drain: 0-17 bar (0-250 psig) Metal bowl & auto float drain: 2-14 bar (30-200 psig)
Fluid media	Compressed air
Seals	Nitrile
Dimensions A x B x C	Plastic bowl: 88 x 195 x 28 mm Metal bowl: 88 x 193 x 28 mm



### SERIES F380 MANUAL DRAIN PLASTIC BOWL

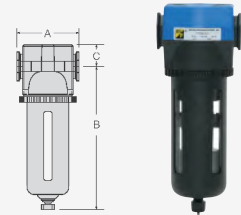


3210

PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-F380-3	G3/8"	5 micron	£66.53
M-F380-4	G1/2"	5 micron	£66.53
M-F380-6	G3/4"	5 micron	£66.53

For spares and accessories, please contact your distributor.

### SERIES FD380 AUTOMATIC DRAIN PLASTIC BOWL



3210

PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-FD380-3	G3/8"	5 micron	£77.16
M-FD380-4	G1/2"	5 micron	£77.16
M-FD380-6	G3/4"	5 micron	£77.16

## COALESCENT FILTERS

### FEATURES

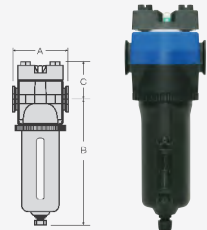
- Modular or in-line mounting
- Differential pressure gauge to indicate when filter element needs changing
- BSPP threads, NPTF optional

### SPECIFICATIONS

Ambient / media temperature	Plastic bowl, all drain types: +4°C to +52°C (+40°F to +125°F) Metal bowl, manual and auto: +4°C to +79°C (+40°F to +175°F) Metal bowl, auto float drain: +4°C to +66°C (+40°F to +150°F)
Head	Die-cast zinc
Bowl	270 ml (9 oz) capacity polycarbonate plastic with steel shatterguard, optional aluminium bowl with clear nylon sight glass. Optional 450 ml (15 oz) extended aluminium bowl, with a clear nylon sight glass and higher flow filter element.
Bowl ring	Nylon
Cap colour	Blue standard. Accent grey, yellow and red optional
Filter element	0.3µm rated borosilicate glass-fibre, optional 0.01µm rated element (reduces flow by 20%)
Inlet pressure	1 bar minimum with automatic drain. 2 bar minimum with auto float drain. Plastic bowl: 10 bar maximum Metal bowl: 14 bar maximum
Fluid media	Compressed air
Seals	Nitrile
Dimensions A x B x C	Plastic bowl: 88 x 195 x 55 mm Metal bowl: 88 x 193 x 55 mm Metal extended: 88 x 284 x 55 mm
Gauge options	Small differential gauge, optional no gauge or large differential.



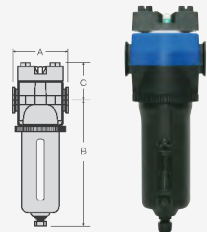
### SERIES FC380 MANUAL DRAIN PLASTIC BOWL WITH SMALL DIFFERENTIAL GAUGE



3210

PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-FC380S-3	G3/8"	0.3 micron	£123.23
M-FC380S-4	G1/2"	0.3 micron	£123.23
M-FC380S-6	G3/4"	0.3 micron	£123.23

### SERIES FCD380 AUTOMATIC DRAIN PLASTIC BOWL WITH SMALL DIFFERENTIAL GAUGE



3210

PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-FCD380S-3	G3/8"	0.3 micron	£133.87
M-FCD380S-4	G1/2"	0.3 micron	£133.87
M-FCD380S-6	G3/4"	0.3 micron	£133.87



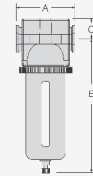
## ADSORBER FILTERS

### SPECIFICATIONS

Ambient / media temperature	Plastic bowl: +4°C to +52°C (+40°F to +125°F) Metal bowl: +4°C to +79°C (+40°F to +175°F)
Head	Die-cast zinc
Bowl	270 ml (9 oz) capacity polycarbonate plastic with steel shatterguard, optional aluminium bowl. Optional 450 ml (15 oz) extended aluminium bowl includes a higher capacity adsorbing cartridge
Bowl ring	Nylon
Cap colour	Blue standard. Accent grey, yellow and red optional
Filter cartridge	Activated carbon
Inlet pressure	Plastic bowl: 10 bar maximum Metal bowl: 14 bar maximum
Seals	Nitrile
Dimensions A x B x C	Extended metal bowl: 88 x 284 x 28 mm Standard metal bowl: 88 x 193 x 28 mm Standard plastic bowl: 88 x 195 x 28 mm

### FEATURES

- Modular or in-line mounting
- BSPP threads, NPTF optional



### SERIES FC380-E9 MANUAL DRAIN PLASTIC BOWL

3210

PART NUMBER	PORT SIZE	PRICE
M-FC380-3E9	G3/8"	£135.81
M-FC380-4E9	G1/2"	£135.81
M-FC380-6E9	G3/4"	£147.64

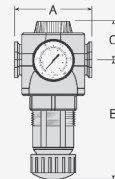
## PRESSURE REGULATORS

### SPECIFICATIONS

Ambient / media temperature	+4°C to +79°C (+40°F to +175°F)
Head	Die-cast zinc
Dome	Nylon and aluminium with optional 0-175 psig spring
Knob	Acetal
Inlet pressure	21 bar maximum
Cap colour	Blue standard. Accent grey, yellow and red optional
Outlet pressure	Adjustable up to 8.6 bar, optional adjusting springs
Pressure gauge	Up to 14 bar; 1/4" BSPT gauge ports front & rear
Panel mounting	52 mm (2-1/16") hole required
Fluid media	Compressed air
Seals	Nitrile
Valve	Brass
Valve cap	Nylon
Dimensions A x B x C	87 x 142 x 40 mm

### FEATURES

- Modular or in-line mounting. Modular mounting allows regulators to be positioned at increments of 45° for ease of adjustment
- Self-relieving diaphragm design, large diaphragm sensing ratio, non-relieving optional
- Pressure gauge
- Pressure adjustment locking key, tamper resistant pressure setting
- BSPP threads, NPTF optional



### SERIES R380 PISTON TYPE

3210

PART NUMBER	PORT SIZE	PRICE
M-R380-3G	G3/8"	£65.71
M-R380-4G	G1/2"	£65.71
M-R380-6G	G3/4"	£65.71

Supplied complete with locking key.

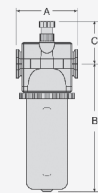
## AIR-LINE LUBRICATORS

### SPECIFICATIONS

Ambient / media temperature	Plastic bowl: +4°C to +52°C (+40°F to +125°F) Metal bowl: +4°C to +79°C (+40°F to +175°F)
Head	Die-cast zinc
Bowl	266 ml (9 oz) capacity polycarbonate plastic with steel shatterguard, optional aluminium bowl with clear nylon sight glass Optional 444 ml (15 oz) extended aluminium bowl with two clear nylon sight glasses
Bowl ring	Nylon
Cap colour	Blue standard. Accent grey, yellow and red optional
Sight dome	Nylon
Inlet pressure	Plastic bowl: 10 bar maximum Metal bowl: 14 bar maximum
Fluid media	Compressed air
Seals	Nitrile
Reservoir capacity	266 ml
Dimensions A x B x C	Plastic: 88 x 179 x 56 mm Metal: 88 x 188 x 56 mm Extended metal: 88 x 269 x 56 mm

### FEATURES

- Modular or in-line mounting
- Sight feed design, transparent dome shows how much oil is being dispensed
- External oil adjusting knob, removable for tamper resistance
- Polycarbonate plastic bowl with steel shatterguard; optional aluminium bowl with sight glass
- Optional extended metal bowl
- All working parts can be replaced with a single service cartridge
- BSPP threads, NPTF optional



### SERIES L380D SIGHT FEED PLASTIC BOWL

3210

PART NUMBER	PORT SIZE	PRICE
M-L380D-3W	G3/8"	£66.93
M-L380D-4W	G1/2"	£66.93
M-L380D-6W	G3/4"	£66.93

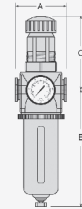
## INTEGRAL FILTER / REGULATORS

### SPECIFICATIONS

Ambient / media temperature	Plastic bowl, all drain types: +4°C to +52°C (+40°F to +125°F) Metal bowl, manual and auto drains: +4°C to +79°C (+40°F to +175°F) Metal bowl, float drain: +4°C to +66°C (+40°F to +150°F)
Head	Die-cast zinc
Dome	Nylon, aluminium wth optional 0-12 bar spring
Bowl	270 ml (9 oz) polycarbonate plastic with steel shatterguard, optional aluminum bowl with clear nylon sight glass
Filter bowl drain	Internal automatic drain, optional manual drain or internal float drain.
Cap colour	Black
Filter element	5µm rated polyethylene, optional 40µm polyethylene, 5µm or 20µm sintered bronze
Inlet pressure	1 bar minimum with automatic drain, 2 bar with float drain Plastic bowl: 10 bar Metal bowl: 14 bar
Outlet pressure	Adjustable up to 8.6 bar, optional adjusting springs
Pressure gauge	Up to 14 bar, 1/4" BSPT gauge ports front & rear
Panel mounting	52 mm (2.05") hole required
Fluid media	Compressed air
Seals	Nitrile
Valve	Brass
Dimensions A x B x C	88 x 195 x 137 mm

### FEATURES

- Filter and regulator consolidated into a single, space saving assembly
- Modular or in-line mounting
- Self-relieving, diaphragm type regulator, non-relieving optional
- Removable pressure adjustment locking key, tamper resistant pressure setting
- Pressure gauge included
- BSPP threads, NPTF optional



**SERIES BCFDR380  
AUTOMATIC DRAIN  
METAL BOWL**

3210

PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-BCFDR383G	G3/8"	5 micron	£146.34
M-BCFDR384G	G1/2"	5 micron	£146.34
M-BCFDR386G	G3/4"	5 micron	£146.34

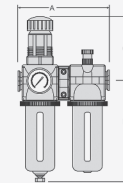
## INTEGRAL FILTER / REGULATOR AND LUBRICATOR

### SPECIFICATIONS

Ambient / media temperature	Plastic bowl, all drain types: +4°C to +52°C (+40°F to 125°F) Metal bowl, manual and auto drain: +4°C to +79°C (+40°F to +175°F) Metal bowl, float drain: +4°C to +66°C (+40°F to +150°F)
Head	Zinc
Sight dome	Clear nylon
Regulator valve	Brass
Cap colour	Filter/regulator, black only. Blue lubricator as standard, accent grey, yellow and red optional.
Bowl	270 ml (9 oz) capacity aluminium bowls with clear nylon sight glass or polycarbonate plastic bowls with steel shatterguard. Optional 450 ml (15 oz) extended aluminium lubricator bowl with two clear, nylon sight glasses
Filter drain	Internal automatic drain, optional manual drain or float drain
Filter element	5µm rated polyethylene, optional 40µm element
Inlet pressure	1 bar minimum with automatic drain, 2 bar minimum with float drain Metal bowls: 13.7 bar maximum Plastic bowls: 10 bar maximum
Outlet pressure	Adjustable up to 8.6 bar
Pressure gauge	Up to 14 bar, 1/4" BSPT gauge ports front & rear
Fluid media	Compressed air
Seals	Nitrile
Dimensions A x B x C	182 x 195 x 137 mm

### FEATURES

- Filter and regulator consolidated in a single assembly, sight feed lubricator
- Modular or in-line mounting
- External oil adjustment, tamper resistant
- Self-relieving, diaphragm type regulator, non-relieving optional
- Pressure gauge, two gauge ports
- BSPP threads, NPTF optional



**SERIES 380  
AUTOMATIC DRAIN  
PLASTIC BOWLS**

3210

PART NUMBER	PORT SIZE	PRICE
M-AM3AB1A13	G3/8"	£289.46
M-AM3AB1A14	G1/2"	£305.05
M-AM3AB1A16	G3/4"	£277.00

For spares and accessories, please contact your distributor.

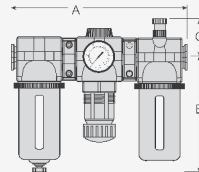
## FILTER / REGULATOR / LUBRICATOR ASSEMBLIES

### SPECIFICATIONS

Ambient / media temperature	Plastic bowl, all drain types: +4°C to +52°C (+40°F to +125°F) Metal bowl, manual and auto drains: +4°C to +79°C (+40°F to +175°F) Metal bowl, float drain: +4°C to +66°C (+40°F to +150°F)
Head	Die-cast zinc
Sight dome	Clear nylon
Regulator valve	Nylon
Cap colour	Blue Standard. Accent grey, yellow and red optional
Bowl	270 ml (9 oz) polycarbonate plastic bowl, optional aluminium bowl
Filter drain	Internal automatic drain, optional manual drain or float drain
Filter element	5µm rated polyethylene, optional 40µm element
Inlet pressure	1 bar minimum with automatic drain, 2 bar minimum with float drain Metal bowls: 13.7 bar maximum Plastic bowls: 10 bar maximum
Outlet pressure	Adjustable up to 8.6 bar
Pressure gauge	Up to 14 bar, 1/4" BSPT gauge ports front & rear
Seals	Nitrile
Fluid media	Compressed air
Dimensions A x B x C	276 x 195 x 56 mm

### FEATURES

- Individual filter, regulator and lubricator
- Modular or in-line mounting
- Self-relieving, diaphragm type regulator, non-relieving optional
- External oil adjustment, tamper resistant
- Removable, pressure adjustment locking key
- Pressure gauge
- BSPP threads, NPTF optional



**SERIES 380  
AUTOMATIC DRAIN  
PLASTIC BOWLS**

3210

PART NUMBER	PORT SIZE	PRICE
M-BM1AB1A13	G3/8"	£235.63
M-BM1AB1A14	G1/2"	£251.34
M-BM1AB1A16	G3/4"	£251.34

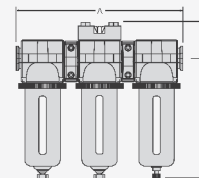
## ULTRA CLEAN FILTER ASSEMBLIES

### SPECIFICATIONS

Ambient / media temperature	Plastic bowl, all drain types: +4°C to +52°C (+40°F to +125°F) Metal bowl, manual and auto drains: +4°C to +79°C (+40°F to +175°F) Metal bowl, float drain: +4°C to +66°C (+40°F to +150°F)
Head	Die-cast zinc
Bowl ring	Nylon
Cap colour	Blue Standard. Accent grey, yellow and red optional
Bowl	270 ml (9 oz) polycarbonate plastic bowl, optional aluminum bowl with sight glass on general purpose and coalescing units. Extended bowls available upon request
Filter drain	Internal automatic drains for general purpose and coalescing filters, manual drain for adsorbing filters
Filter element	General purpose: 5µm rated polyethylene, Coalescing: 0.3µm rated borosilicate glass-fibre, optional 0.01µm rated element, Adsorbing: Activated carbon with urethane seals
Inlet pressure	1 bar minimum 14 bar maximum with metal bowl 10 bar maximum with plastic bowl
Dimensions A x B x C	276 x 195 x 55 mm

### FEATURES

- Modular or in-line mounting
- Differential pressure gauge on coalescing filter to indicate when filter element needs changing
- BSPP threads, NPTF optional



**SERIES 380  
AUTOMATIC DRAINS  
PLASTIC BOWLS**

3210

PART NUMBER	PORT SIZE	PRICE
M-AM1DA1A9C	G3/8"	£506.18
M-AM1DA1A9D	G1/2"	£506.18
M-AM1DA1A9E	G3/4"	£506.18

For pipe systems, see section 16.

## 380 SERIES ACCESSORIES

### FILTER ELEMENTS FOR USE WITH GENERAL PURPOSE FILTERS F\*380 AND INTEGRAL CF\*R380

3210

PART NUMBER	DESCRIPTION	PRICE
M-A11516PE5	5 micron polyethylene	£9.95
M-A115106E5	5 micron bronze	£18.26
M-A115106E4	20 micron bronze	£18.26
M-A11516PE3	40 micron polyethylene	£9.95

### FILTER ELEMENTS FOR USE WITH COALESCENT FILTERS FC\*380

3210

PART NUMBER	DESCRIPTION	PRICE
M-A115-117	0.3 micron coalescent metal	£42.23
M-A115-117E8	0.01 micron coalescent	£43.94
M-A115-118	0.3 micron coalescent metal	£73.73
M-A115-118E8	0.01 micron coalescent ext. 15 oz	£80.55

### FILTER ELEMENTS FOR USE WITH ADSORBER FILTERS FC\*380.\*E9

3210

PART NUMBER	DESCRIPTION	PRICE
M-A115-117E9	Activated carbon element kit with standard bowl	£67.11
M-A115-118E9	Activated carbon element kit with extended bowl	£113.06

### MOUNTING BRACKETS AND CONNECTORS

3210

PART NUMBER	DESCRIPTION	PRICE
M-K37-71M	Regulator panel mounting nut & mounting bracket	£17.97
M-37-71	Regulator bracket	£9.18
M-A118-105M	Modular connector kit	£20.84
M-A118-105	Modular connector	£11.34
M-A118-103	Mounting bracket and screws	£9.50
M-KA37-68	Gauge port & mounting bracket	£18.78
M-KA37-68L	Gauge port & extended mounting bracket	£24.72
M-UMB-3	3/8" U-bolt bracket	£14.61
M-UMB-4	1/2" U-bolt bracket	£14.61
M-UMB-6	3/4" U-bolt bracket	£29.64

### REGULATOR PRESSURE GAUGE

3210

PART NUMBER	DESCRIPTION	PRICE
M-200-BDD	0-200 psi gauge	£11.67

### COALESCENT FILTER DIFFERENTIAL GAUGE

3210

PART NUMBER	DESCRIPTION	PRICE
M-103-151	Differential slide gauge	£30.53

Other spares and accessories available. Please contact your distributor for further information.



## MASTER PNEUMATIC SEVEN YEAR WARRANTY



The Company warrants to the Purchaser that the equipment described in this catalogue will be free from defects in material and workmanship for seven years. This warranty does not cover normal service parts (such as filter elements) or parts that fail due to chemical attack\*, abuse, improper service, or improper use. This warranty does not cover product not manufactured by Master Pneumatic, Inc. These products will be covered by the original manufacturer's warranty, if any. The foregoing warranty is exclusive and in lieu of all other warranties whether written, oral, express, or implied. There is NO WARRANTY OF MERCHANTABILITY OR FITNESS OF PURPOSE. If it appears within seven years from the date of shipment by the Company, that the equipment has not met the warranties specified above and the purchaser notifies the Company promptly, the Company shall correct any defect, at its option, either by repairing any defective part or parts or by making available at the Company's plant a repaired or replacement part. Except as otherwise specified by the manufacturer, these parts are specifically designed for compressed air service.

Use with any other fluid must be approved by Master Pneumatic, Inc. In no event will Master Pneumatic, Inc., be liable for business interruptions, loss of profits, harm, injury, damage, personal injury, cost of delay, or any special, indirect, incidental, or consequential losses, costs, or damages.

\* It is extremely important that our products be used in a proper environment. Polycarbonate, acetal, nylon, ABS and other plastics are especially vulnerable to attack by certain chemicals and their fumes including compressor oils, cleaners, solvents, etc. When in doubt, please ask your chemical supplier if their products are injurious to the parts used in the Master Pneumatic products.

## GENERAL PURPOSE FILTERS

### FEATURES

- In-line mounting
- BSPP threads, NPTF optional

### SPECIFICATIONS

Ambient / media temperature	Plastic bowl: +4°C to +52°C (+40°F to +125°F) Metal bowl: +4°C to +66°C (+40°F to +150°F)
Head	Aluminium
Bowl	60 ml (2 oz) capacity polycarbonate plastic, optional aluminium bowl
Filter element	5µm rated polyethylene, optional 5µm, 20µm or 40µm sintered bronze
Inlet pressure	1 bar minimum with automatic drain. Plastic bowl: 10 bar maximum. Metal bowl: 14 bar maximum
Fluid media	Compressed air
Seals	Nitrile
Dimensions A x B x C	Plastic bowl: 41 x 99 x 9.5 mm Metal bowl: 41 x 109 x 9.5 mm



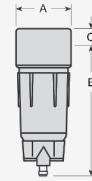
### SERIES F50 MANUAL DRAIN PLASTIC BOWL



3210

PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-F50-1W	G1/8"	5 micron	£23.54
M-F50-2W	G1/4"	5 micron	£23.54

### SERIES FD50 AUTOMATIC DRAIN PLASTIC BOWL



3210

PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-FD50-1W	G1/8"	5 micron	£34.18
M-FD50-2W	G1/4"	5 micron	£34.18

## COALESCENT FILTERS

### SPECIFICATIONS

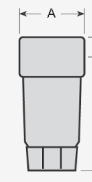
Ambient / media temperature	Plastic bowl: +4°C to +52°C (+40°F to +125°F) Metal bowl: +4°C to +66°C (+40°F to +150°F)
Head	Aluminium
Bowl	60 ml (2 oz) capacity polycarbonate plastic, optional aluminium bowl
Filter element	0.3µm rated borosilicate glass-fibre coalescing element, optional 0.01µm rated element
Inlet pressure	1 bar minimum with automatic drain. Plastic bowl: 10 bar maximum. Metal bowl: 14 bar maximum
Fluid media	Compressed air
Seals	Nitrile
Dimensions A x B x C	Plastic bowl: 41 x 99 x 9.5 mm Metal bowl: 41 x 109 x 9.5 mm

### FEATURES

- In-line mounting
- BSPP threads, NPTF optional



### SERIES FC50 MANUAL DRAIN PLASTIC BOWL



3210

PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-FC50-1W	G1/8"	0.3 micron	£36.64
M-FC50-2W	G1/4"	0.3 micron	£36.64

## PRESSURE REGULATORS

### FEATURES

- In-line mounting
- Optional gauge
- BSPP threads, NPTF optional
- Self-relieving with non-relieving option

### SPECIFICATIONS

Ambient / media temperature	+4°C to +52°C (+40°F to +125°F)
Head	Aluminium
Dome and knob	Acetal and glass filled nylon
Inlet pressure	21 bar maximum
Outlet pressure	Adjustable up to 7 bar
Pressure gauge	0 to 11 bar, 1/8" BSPT gauge ports front & rear
Panel mounting	30 mm (1-3/16") hole required
Fluid media	Compressed air
Seals	Nitrile
Dimensions A x B x C	41 x 68 x 10 mm



### SERIES R55M PISTON TYPE



3210

PART NUMBER	PORT SIZE	PRICE
M-R55M-1W	G1/8"	£19.89
M-R55M-2W	G1/4"	£19.89

### SERIES R56M DIAPHRAGM TYPE



3210

PART NUMBER	PORT SIZE	PRICE
M-R56M-1W	G1/8"	£19.89
M-R56M-2W	G1/4"	£19.89

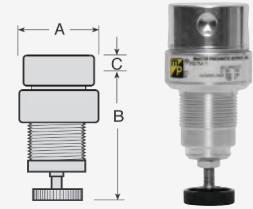
## SEMI-PRECISION PRESSURE REGULATORS

### FEATURES

- In-line mounting
- Diaphragm type design
- Self-relieving, non-relieving optional
- Optional gauge
- Repeatability  $\pm 0.017$  bar with 7 bar inlet pressure
- BSPP threads, NPTF optional

### SPECIFICATIONS

Ambient / media temperature	+4°C to +52°C (+40°F to +125°F)
Head	Aluminium
Dome	Aluminium
Inlet pressure	21 bar maximum
Outlet pressure	Adjustable up to 3.4 bar. Adjustable up to 4.14 bar with optional springs
Pressure gauge	0 to 11 bar, 1/8" BSPT gauge ports front & rear
Panel mounting	30 mm (1-3/16") hole required
Fluid media	Compressed air
Seals	Nitrile
Dimensions A x B x C	44 x 86 x 10 mm



**SERIES R57  
DIAPHRAGM TYPE**

3210

PART NUMBER	PORT SIZE	PRICE
M-R57-1W	G1/8"	£45.74
M-R57-2W	G1/4"	£45.74

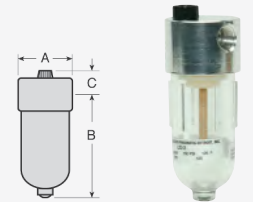
## AIR-LINE LUBRICATORS

### FEATURES

- In-line mounting
- Wick feed design
- Internal, tamperproof adjustment
- BSPP threads, NPTF optional

### SPECIFICATIONS

Ambient / media temperature	Plastic bowl: +4°C to +52°C (+40°F to +125°F) Metal bowl: +4°C to +66°C (+40°F to +150°F)
Head	Aluminium
Bowl	60 ml (2 oz) capacity polycarbonate plastic; optional aluminium bowl
Inlet pressure	Plastic bowl: 10 bar maximum Metal bowl: 14 bar maximum
Oil adjustment	Internal, tamperproof
Fluid media	Compressed air
Seals	Nitrile
Dimensions A x B x C	Plastic bowl: 41 x 91 x 17 mm Metal bowl: 41 x 97 x 17 mm



**SERIES L50  
WICK FEED  
PLASTIC BOWL**

3210

PART NUMBER	PORT SIZE	RESERVOIR CAPACITY	PRICE
M-L50-1W	G1/8"	60 ml	£36.08
M-L50-2W	G1/4"	60 ml	£36.08

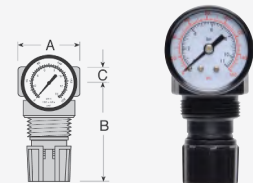
## RELIEF VALVES

### FEATURES

- In-line mounting
- Diaphragm type design
- Optional pressure gauge
- BSPP threads, NPTF optional

### SPECIFICATIONS

Ambient / media temperature	+4°C to +52°C (+40°F to +125°F)
Head	Aluminium
Dome and knob	Nylon and acetal
Inlet pressure	20 bar maximum
Relieving range	0.07 to 6.9 bar
Maximum relief flow range	10 to 30 SCFM (4.7 to 14 l/s) with a pressure differential of 0.7 to 1 bar
Minimum relief flow	5 ml/minute
Pressure gauge	0 to 11 bar, 1 1/2 inch dial face, 1/8" BSPT gauge ports front & rear
Panel mounting	30 mm (1-3/16") hole required
Fluid media	Compressed air
Seals	Nitrile
Dimensions A x B x C	41 x 68 x 10 mm



**SERIES RV56  
DIAPHRAGM TYPE**

3210

PART NUMBER	PORT SIZE	PRICE
M-RV56-1W	G1/8"	£19.89
M-RV56-2W	G1/4"	£19.89

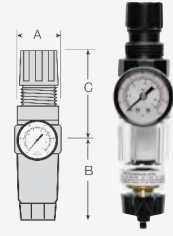
## INTEGRAL FILTER / REGULATORS

### FEATURES

- Filter and regulator consolidated in a single assembly
- In-line mounting
- Piston type regulator (CFDR55M and CFR55M model)
- Diaphragm type regulator (CFDR56M and CFR56M model)
- Self-relieving regulator, non-relieving optional
- Pressure gauge included
- BSPP threads, NPTF optional

### SPECIFICATIONS

Ambient / media temperature	+4°C to +52°C (+40°F to +125°F)
Head	Aluminium
Bowl	60 ml (2 oz) capacity polycarbonate plastic; optional aluminium bowl
Dome and knob	Nylon and Acetal
Filter drain	Internal automatic drain, optional manual drain
Filter element	5-µm-rated polyethylene, optional 5-µm, 20-µm or 40-µm sintered bronze
Inlet pressure	1 bar minimum with automatic drain Plastic bowl: 10 bar maximum Metal bowl: 14 bar maximum
Outlet pressure	Adjustable up to 7 bar
Pressure gauge	Up to 11 bar, 1/8" BSPT gauge ports front & rear
Panel mounting	30 mm (1-3/16") hole required
Fluid media	Compressed air
Seals	Nitrile
Dimensions A x B x C	Plastic: 41 x 99 x 67 mm Metal: 41 x 109 x 67 mm



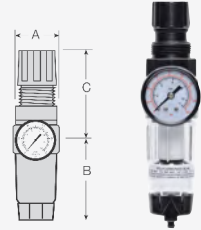
### SERIES CFDR55 PISTON TYPE WITH AUTOMATIC INTERNAL DRAIN, PLASTIC BOWL

3210

PART NUMBER	PORT SIZE	DRAIN TYPE	FILTRATION	PRICE
M-CFDR55-1W	G1/8"	Automatic	5 micron	£66.63
M-CFDR55-2W	G1/4"	Automatic	5 micron	£66.63

### SERIES CFDR56 DIAPHRAGM TYPE WITH AUTOMATIC INTERNAL DRAIN

M-CFDR56-1W	G1/8"	Automatic	5 micron	£66.63
M-CFDR56-2W	G1/4"	Automatic	5 micron	£66.63



### SERIES CFR55M PISTON TYPE WITH MANUAL DRAIN PLASTIC BOWL

3210

PART NUMBER	PORT SIZE	DRAIN TYPE	FILTRATION	PRICE
M-CFR55-1W	G1/8"	Manual	5 micron	£55.99
M-CFR55-2W	G1/4"	Manual	5 micron	£55.99

### SERIES CFR56 DIAPHRAGM TYPE WITH MANUAL DRAIN

M-CFR56-1W	G1/8"	Manual	5 micron	£55.99
M-CFR56-2W	G1/4"	Manual	5 micron	£55.99

Other spares and accessories available. Please contact your distributor for further information.

## MINIATURE RANGE ACCESSORIES

### FILTER ELEMENTS FOR USE WITH COALESCENT FILTERS

FC\*50 3210

PART NUMBER	DESCRIPTION	PRICE
M-A10F-16	0.3 micron coalescent	£31.05
M-A10F-16E8	0.01 micron coalescent	£31.05

### FILTER ELEMENTS FOR GENERAL PURPOSE FILTERS WITH F\*50 AND INTEGRAL CF\*R55M, CFR56M

3210

PART NUMBER	DESCRIPTION	PRICE
M-KA1327PE5	5 micron polyethylene	£7.79
M-KA1327E5	5 micron bronze	£9.20
M-KA1327E4	20 micron bronze	£9.20
M-KA1327E3	40 micron bronze	£9.20

### MOUNTING BRACKETS

3210

PART NUMBER	DESCRIPTION	PRICE
M-33-82	Regulator mounting bracket	£3.45
M-A33-82	Regulator panel mount nut and bracket	£4.42
M-10R-26	Regulator panel mount nut	£1.54
M-UMB-2	1/4" U-bolt bracket kit	£14.61

### REGULATOR PRESSURE GAUGE

3210

PART NUMBER	DESCRIPTION	PRICE
M-70MDD	0-160 psi gauge	£11.00

## GENERAL PURPOSE FILTERS

### FEATURES

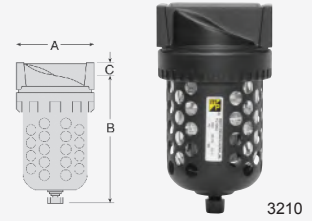
- Modular or in-line mounting
- BSPP threads, NPTF optional

### SPECIFICATIONS

Ambient / media temperature	Plastic, all drains: +4°C to +52°C (+40°F to +125°F) Metal, manual and auto: +4°C to +79°C (+40°F to +175°F) Metal, float: +4°C to +66°C (+40°F to +150°F)
Head	Die cast zinc
Bowl	240 ml (8 oz) capacity polycarbonate plastic with steel shatterguard, optional zinc bowl with clear nylon sight glass
Filter element	5µm rated polyethylene, optional 5µm, 20µm or 40µm sintered bronze
Inlet pressure	1 bar minimum with auto drain 2 bar minimum with float drain Plastic bowl: 10 bar maximum Metal bowl: 14 bar maximum
Fluid media	Compressed air
Seals	Nitrile
Dimensions A x B x C	Plastic bowl: 89 x 146 x 16 mm Metal bowl: 89 x 163 x 16 mm
Bowl drain	Manual. Optional automatic, internal, float and brass float

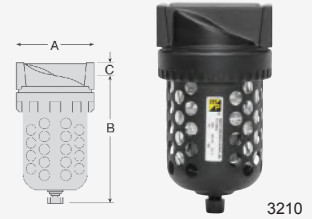


### SERIES F100 MANUAL DRAIN PLASTIC BOWL



PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-F100-2W	G1/4"	5 micron	£68.49
M-F100-3W	G3/8"	5 micron	£68.49
M-F100-4W	G1/2"	5 micron	£68.49
M-F100-6X	G3/4"	5 micron	£76.26

### SERIES FD100 AUTOMATIC DRAIN PLASTIC BOWL



PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-FD100-2W	G1/4"	5 micron	£79.13
M-FD100-3W	G3/8"	5 micron	£79.13
M-FD100-4W	G1/2"	5 micron	£79.13
M-FD100-6X	G3/4"	5 micron	£86.90

## COALESCENT FILTERS

### FEATURES

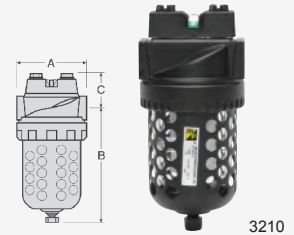
- Modular or in-line mounting
- Differential pressure gauge
- BSPP threads, NPTF optional

### SPECIFICATIONS

Ambient / media temperature	Plastic, all drains: +4°C to +52°C (+40°F to +125°F) Metal, manual and auto: +4°C to +79°C (+40°F to +175°F) Metal, float: +4°C to +66°C (+40°F to +150°F)
Head	Die cast zinc
Bowl	240 ml (8 oz) capacity polycarbonate plastic with steel shatterguard, optional zinc bowl with clear nylon sight glass. Optional 600 ml (20 oz) extended polycarbonate or zinc bowl has higher flow filter element.
Bowl ring	Aluminium
Filter element	0.3µm rated borosilicate glass-fibre coalescing element, optional 0.01µm rated element
Inlet pressure	1 bar minimum with auto drain 2 bar minimum with float drain Plastic bowl: 10 bar maximum Metal bowl: 14 bar maximum
Fluid media	Compressed air
Seals	Nitrile
Dimensions A x B x C	Plastic bowl: 89 x 146 x 45 mm Extended bowl: 89 x 260 x 45 mm
Bowl drain	Manual. Optional automatic, internal, float and brass float

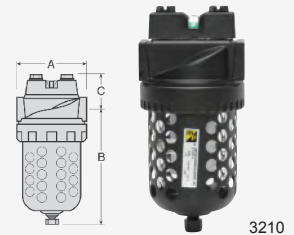


### SERIES FC101H MANUAL DRAIN EXTENDED PLASTIC BOWL



PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-FC101H2W	G1/4"	0.3 micron	£160.59
M-FC101H3W	G3/8"	0.3 micron	£160.59
M-FC101H4W	G1/2"	0.3 micron	£160.59

### SERIES FC101 MANUAL DRAIN PLASTIC BOWL



PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-FC101-2W	G1/4"	0.3 micron	£125.11
M-FC101-3W	G3/8"	0.3 micron	£125.11
M-FC101-4W	G1/2"	0.3 micron	£125.11



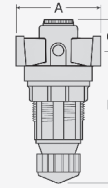
## PRESSURE REGULATORS

### FEATURES

- Modular assembly and in-line mounting
- Diaphragm type design
- Optional gauge
- Removable, pressure adjustment locking key
- BSPP threads, NPTF optional
- Self-relieving with non-relieving option

### SPECIFICATIONS

Ambient / media temperature	+4°C to +79°C (+40°F to +175°F)
Head	Die cast zinc
Dome	Nylon and aluminium with optional 0-175 psig spring
Knob	Acetal
Inlet pressure	21 bar maximum
Outlet pressure	Adjustable up to 8.6 bar
Pressure gauge	Up to 14 bar, 1/4" BSPP gauge ports front & rear
Panel mounting	52 mm (2 1/16") hole required
Fluid media	Compressed air
Seals	Nitrile
Valve	Brass
Valve cap	Nylon
Dimensions A x B x C	88.9 x 146 x 33.3 mm



**SERIES R100  
DIAPHRAGM TYPE**

3210

PART NUMBER	PORT SIZE	PRICE
M-R100-2W	G1/4"	£56.61
M-R100-3W	G3/8"	£56.61
M-R100-4W	G1/2"	£56.61
M-R100-6W	G3/4"	£68.28

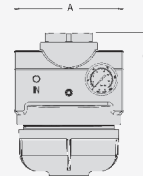
## EXTERNALLY PILOTED REGULATORS

### FEATURES

- In-line mounting
- Piston-type design
- Self-relieving
- Pressure gauge
- Optional remote sensing
- Aluminium body and dome
- Flow rates exceeding 4,000 SCFM
- BSPP port threads; optional NPTF threads

### SPECIFICATIONS

Ambient / media temperature	4°C to 79°C (40°F to 175°F)
Body and dome	Aluminium
Valve and Valve cap	Aluminium
Fluid media	Compressed air
Inlet pressure	21 bar (300 psi) maximum
Outlet pressure	0 to 14 bar (0 to 200 psi) NOTE: Outlet pressure depends on the selection of control regulator
Pilot ports	1/4" BSPP
Pressure gauge	14 bar (0 to 200 psi); 1/4" BSPP gauge ports front and rear
Seals	Nitrile, optional Viton
Dimensions A x B x C	214 x 187 x 95 mm



**SERIES PR300  
PISTON TYPE**

3210

PART NUMBER	PORT SIZE	PRICE
M-PR300-24W	3" BSPP	£1162.68

### RECOMMENDED

Pilot Control Regulators (sold separately)

General purpose applications, order:  
R56M-2, R60-2, R67-2, R100-2 or R380-3.

For spares and accessories, please contact your distributor.

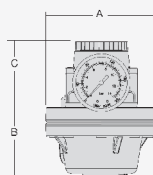
## HIGH RELIEF EXTERNALLY PILOTED REGULATORS

### FEATURES

- In-line mounting
- Diaphragm design
- Optional pressure gauges
- BSPP port threads: NPTF optional threads
- HPR100 series flow rates exceed 150 scfm
- HPR180 flow rates exceed 400 scfm
- High Relief characteristics up-to 200 scfm

### SPECIFICATIONS

Ambient / media temperature	-18°C to 70°C (0°F to 158°F)
Body and dome	Zinc
Valve cap	Glass filled Nylon
Valve	Brass
Elastomers	Nylon
Fluid media	Compressed air
Inlet pressure	0.7 bar (10 psi) min, 27.6 bar (400 psi) max
Outlet pressure	Adjustable up to 17.3 bar (250 psi)
Dimensions A x B x C	HPR100: 106 x 89.3 x 39.1 mm HPR180: 106 x 101.3 x 47.5 mm



3210

### SERIES HPR100 PISTON TYPE

PART NUMBER	PORT SIZE	GAUGE PORT SIZE	PRICE
M-HPR100-2W	1/4" BSPP	1/4" BSPP	£404.41
M-HPR100-3W	3/8" BSPP	3/8" BSPP	£404.41
M-HPR100-4W	1/2" BSPP	1/2" BSPP	£404.41

### SERIES HPR180

M-HPR180-6W	3/4" BSPP	1/2" BSPP	£504.02
M-HPR180-8W	1" BSPP	1/2" BSPP	£504.02
M-HPR180-10W	1 1/4" BSPP	1/2" BSPP	£504.02

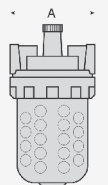
## AIR-LINE LUBRICATORS

### FEATURES

- Modular or in-line mounting
- L28D has a sight feed design, L28W has a wick feed design
- External oil adjusting knob, removable for tamper resistance
- BSPP threads, NPTF optional

### SPECIFICATIONS

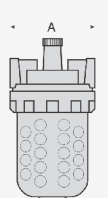
Ambient / media temperature	Plastic bowl: +4°C to +52°C (+40°F to +125°F) Metal bowl: +4°C to +79°C (+40°F to +175°F)
Head	Die cast zinc
Bowl	236 ml (8 oz) capacity polycarbonate plastic with steel shatterguard, optional zinc bowl with sight glass. Optional 592 ml (20 oz) extended polycarbonate or zinc bowl
Bowl ring	Aluminium
Sight dome	Nylon
Inlet pressure	Plastic bowl: 10 bar maximum Metal bowl: 14 bar maximum
Fluid media	Compressed air
Seals	Nitrile
Dimensions A x B x C	Plastic L28D: 89 x 132 x 32 mm Metal L28D: 89 x 135 x 32 mm Plastic Extended L28D: 89 x 246 x 32 mm Metal Extended L28D: 89 x 249 x 32 mm Plastic L28W: 89 x 132 x 17 mm Metal L28W: 89 x 135 x 17 mm



3210

### SERIES L28D SIGHT FEED PLASTIC BOWL

PART NUMBER	PORT SIZE	RESERVOIR CAPACITY	PRICE
M-L28D-2W	G1/4"	236 ml	£68.49
M-L28D-3W	G3/8"	236 ml	£68.49
M-L28D-4W	G1/2"	236 ml	£68.49
M-L28D-6W	G3/4"	236 ml	£75.84



3210

### SERIES L28W WICK FEED PLASTIC BOWL

PART NUMBER	PORT SIZE	RESERVOIR CAPACITY	PRICE
M-L28W-2W	G1/4"	236 ml	£68.49
M-L28W-3W	G3/8"	236 ml	£68.49
M-L28W-4W	G1/2"	236 ml	£68.49
M-L28W-6W	G3/4"	236 ml	£75.84

For spares and accessories, please contact your distributor.

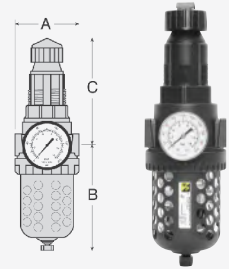
## INTEGRAL FILTER / REGULATORS

### FEATURES

- Filter and regulator consolidated in a single assembly
- Modular or in-line mounting
- Self-relieving diaphragm type regulator, non-relieving optional
- Removable pressure adjustment locking key
- Pressure gauge included
- BSPP threads, NPTF optional

### SPECIFICATIONS

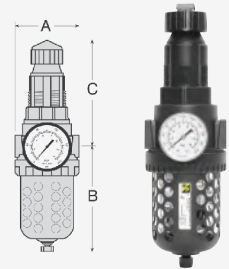
Ambient / media temperature	Plastic bowl, all drain types: +4°C to +52°C (+40°F to +125°F) Metal bowl, manual and auto drains: +4°C to +79°C (+40°F to +175°F) Metal bowl with float drain: +4°C to +66°C (+40°F to +150°F)
Head	Die-cast zinc
Bowl	236 ml (8 oz) capacity polycarbonate plastic with steel shatterguard, optional zinc bowl with clear nylon sight glass
Dome	Nylon. Aluminium with heavy spring
Knob	Acetal
Filter drain	Internal automatic drain, optional manual drain or external Hydro-Jector drain, internal float drain
Filter element	5µm rated polyethylene, optional 5µm, 20µm or 40µm sintered bronze
Inlet pressure	1 bar minimum with automatic drain and 2 bar with float drain Plastic bowl: 10 bar maximum Metal bowl: 14 bar maximum
Outlet pressure	Adjustable up to 8.6 bar
Pressure gauge	Up to 14 bar, 1/4 BSPT gauge ports front & rear
Panel mounting	52 mm (2-1/16") hole required
Fluid media	Compressed air
Seals	Nitrile
Dimensions A x B x C	Plastic: 89 x 146 x 146 mm Metal: 89 x 163 x 146 mm



**SERIES CFDR100  
AUTOMATIC DRAIN  
PLASTIC BOWL**

3210

PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-CFDR1002W	G1/4"	5 micron	£140.07
M-CFDR1003W	G3/8"	5 micron	£140.07
M-CFDR1004W	G1/2"	5 micron	£140.07
M-CFDR1006W	G3/4"	5 micron	£144.57



**SERIES CFR100  
MANUAL DRAIN  
PLASTIC BOWL**

3210

PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-CFR100-2W	G1/4"	5 micron	£129.43
M-CFR100-3W	G3/8"	5 micron	£129.43
M-CFR100-4W	G1/2"	5 micron	£129.43
M-CFR100-6W	G3/4"	5 micron	£133.93

## VANGUARD MODULAR RANGE ACCESSORIES

### FILTER ELEMENTS FOR USE WITH COALESCENT FILTERS FC\*101 (H)

3210

PART NUMBER	DESCRIPTION	PRICE
M-A103-160	0.3 micron coalescent	£41.22
M-A103160E8	0.01 micron coalescent	£41.22
M-A103-160L	0.3 micron coalescent, ext. 20 oz bowl	£81.59
M-A103160L8	0.01 micron coalescent, ext. 20 oz bowl	£81.59

### FILTER ELEMENTS FOR USE WITH GENERAL PURPOSE FILTERS F\*100 AND INTEGRAL CFR\*100

3210

PART NUMBER	DESCRIPTION	PRICE
M-KA103-3PE	5 micron polyethylene	£7.72
M-KA103-3E5	5 micron bronze	£14.91
M-KA103-3E4	20 micron bronze	£14.91
M-KA103-3E3	40 micron bronze	£14.91

### MOUNTING BRACKETS AND CONNECTORS

3210

PART NUMBER	DESCRIPTION	PRICE
M-K37-71M	Regulator panel mounting nut & mounting bracket	£17.97
M-37-71	Regulator bracket	£9.18
M-KA37-68	Gauge port & mounting bracket	£18.78
M-KA37-68L	Gauge port & extended mounting bracket	£24.72
M-K30-08	Top mounting "L" bracket	£13.36
M-KA30-04	Modular connector kit	£8.55
M-UMB-2	1/4" U-bolt bracket	£14.61
M-UMB-3	3/8" U-bolt bracket	£14.61
M-UMB-4	1/2" U-bolt bracket	£14.61
M-UMB-6	3/4" U-bolt bracket	£29.64

### REGULATOR PRESSURE GAUGE

3210

PART NUMBER	DESCRIPTION	PRICE
M-200-BDD	0-200 psi gauge	£11.67

### COALESCENT FILTER DIFFERENTIAL GAUGE

3210

PART NUMBER	DESCRIPTION	PRICE
M-103-151	Differential slide gauge	£30.53

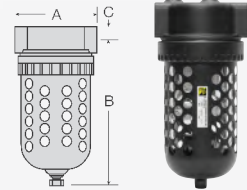
## GENERAL PURPOSE FILTERS

### FEATURES

- In-line mounting • BSPP threads, NPTF optional

### SPECIFICATIONS

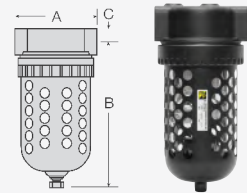
Ambient / media temperature	Plastic, all drains: +4°C to +52°C (+40°F to +125°F) Metal, manual and auto: +4°C to +79°C (+40°F to +175°F) Metal, float drain: +4°C to +66°C (+40°F to +150°F)
Head	Aluminium
Bowl	480 ml (16 oz) capacity polycarbonate plastic with steel shatterguard, optional aluminium bowl with clear nylon sight glass
Bowl drain	Manual, internal automatic drain, float and brass float drains available
Filter element	5µm rated polyethylene, optional 5µm, 20µm or 40µm sintered bronze
Inlet pressure	1 bar minimum with automatic drain 2 bar minimum with float drains Plastic bowl: 10 bar maximum Metal bowl: 14 bar maximum
Fluid media	Compressed air
Seals	Nitrile
Dimensions A x B x C	Plastic bowl: 114 x 203 x 21 mm Metal bowl: 114 x 210 x 21 mm
Bowl drain	Brass float. Optional manual



**SERIES F100  
MANUAL DRAIN  
PLASTIC BOWL**

3210

PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-F100-6W	G3/4"	5 micron	£121.00
M-F100-8W	G1"	5 micron	£121.00



**SERIES FD100  
AUTOMATIC DRAIN  
PLASTIC BOWL**

3210

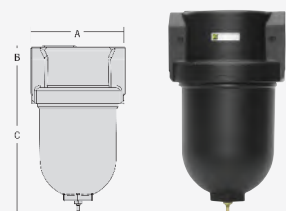
PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-FD100-6W	G3/4"	5 micron	£131.63
M-FD100-8W	G1"	5 micron	£131.63

### FEATURES

- In-line mounting • BSPP threads, NPTF optional

### SPECIFICATIONS

Ambient / media temperature	Metal bowl float drain: 4°C to 66°C (40°F to 150°F) Metal bowl manual drain: 4°C to 79°C (40°F to 175°F)
Head	Aluminium
Bowl	3548 ml (120 oz) capacity aluminium bowl
Options	External Hydro-Jector drain (ask for details)
Bowl ring	Aluminium
Filter element	40µm rated sintered bronze, optional 5µm sintered bronze
Inlet pressure	2 bar minimum with automatic internal float drain, 14 bar maximum
Fluid media	Compressed air
Seals	Nitrile
Dimensions A x B x C	204.7 x 305 x 60.3 mm
Bowl drain	Brass float. Optional manual



**SERIES BFD400  
AUTOMATIC INTERNAL  
BRASS FLOAT DRAIN**

3210

PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-BFD40010W	G1 1/4"	40 micron	£569.45
M-BFD40012W	G1 1/2"	40 micron	£569.45
M-BFD40016W	G2"	40 micron	£569.45

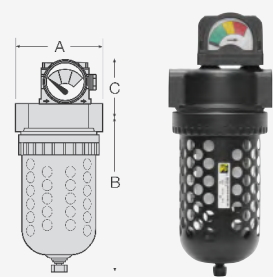
## COALESCENT FILTERS

### FEATURES

- In-line mounting • BSPP threads, NPTF optional

### SPECIFICATIONS

Ambient / media temperature	Plastic, all drains: +4°C to +52°C (+40°F to +125°F) Metal, manual and auto: +4°C to +79°C (+40°F to +175°F). Metal, float drains: +4°C to +66°C (+40°F to +150°F)
Head	Aluminium
Bowl	480 ml (16 oz) capacity polycarbonate plastic with steel shatterguard, optional 480 ml (16 oz) aluminium bowl with clear nylon sight glass
Bowl ring	Aluminium
Filter element	0.3µm rated borosilicate glass-fibre coalescing element, optional 0.01µm rated element
Inlet pressure	Plastic bowl: 10 bar maximum Metal bowl: 14 bar maximum
Fluid media	Compressed air
Seals	Nitrile
Dimensions A x B x C	Plastic bowl: 114 x 203 x 78 mm Metal bowl: 114 x 210 x 78 mm
Bowl drain	Manual. Optional automatic internal, float and brass float



**SERIES FC101  
MANUAL DRAIN  
PLASTIC BOWL**

3210

PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-FC101-6W	G3/4"	0.3 micron	£218.31
M-FC101-8W	G1"	0.3 micron	£218.31

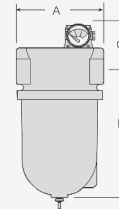
## COALESCENT FILTERS

### FEATURES

- In-line mounting
- BSPP threads, NPTF optional

### SPECIFICATIONS

Ambient / media temperature	Metal, manual: +4°C to +79°C (+40°F to +175°F) Metal, brass float: +4°C to +66°C (+40°F to +150°F)
Head	Aluminium
Bowl	3548 ml (120 oz) capacity aluminium bowl. Optional 6802 ml (230 oz) extended aluminium bowl has higher flow filter element
Filter element	0.3µm rated borosilicate-glass-fibre coalescing element, optional 0.01µm rated element
Inlet pressure	Metal bowl: 14 bar maximum
Fluid media	Compressed air
Seals	Nitrile
Dimensions A x B x C	Metal standard bowl: 205 x 306 x 117 mm Metal extended bowl & 2": 205 x 465 x 177 mm
Bowl drain	Manual. Optional brass float



**SERIES BFC401 (H)  
MANUAL DRAIN**

3210

PART NUMBER	PORT SIZE	FILTRATION	PRICE
M-BFC40110W	G1 1/4"	0.3 micron	£704.72
M-BFC40112W	G1 1/2"	0.3 micron	£704.72
M-BFC401H16W	G2"	0.3 micron	£1169.50

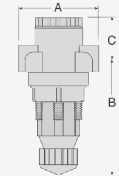
## PRESSURE REGULATORS

### FEATURES

- In-line mounting
- Piston type design
- Self-relieving, non-relieving optional
- Optional gauge
- Removable pressure adjustment locking key
- BSPP threads, NPTF optional

### SPECIFICATIONS

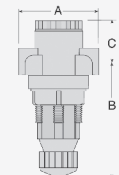
Ambient / media temperature	+4°C to +79°C (+40°F to +175°F)
Head	Zinc
Dome	Nylon, aluminium with optional 0-150 psig spring
Knob	Acetal
Inlet pressure	21 bar maximum
Outlet pressure	Adjustable up to 7 bar
Pressure gauge	Up to 14 bar, 1/4 BSPP gauge ports front & rear
Panel mounting	52 mm (2-1/16") hole required
Fluid media	Compressed air
Seals	Nitrile
Valve	Aluminium
Valve cap	Nylon
Dimensions A x B x C	R180M H series: 111.1 x 153.6 x 61.5 mm R180 H series: 123.8 x 161.5 x 53.5 mm



**SERIES R180M  
PISTON TYPE**

3210

PART NUMBER	PORT SIZE	PRICE
M-R180M-6W	G3/4"	£110.00
M-R180M-8W	G1"	£110.00



**SERIES R180  
PISTON TYPE**

3210

PART NUMBER	PORT SIZE	PRICE
M-R180-10W	G1 1/4"	£141.16
M-R180-12W	G1 1/2"	£141.17

## HIGH RELIEF EXTERNALLY PILOTED REGULATORS

### FEATURES

- Diaphragm design. Excellent pressure regulation and stability
- High relief characteristics up to 200 SCFM
- Balanced valve minimizes effect of pressure changes on inlet pressure
- In-line mounting
- 3/4" BSPP exhaust port
- Self-relieving
- BSPP port threads; NPTF optional
- Integral pilot regulator porting
- 1/4" BSPP auxiliary inlet pressure port

### SPECIFICATIONS

Inlet pressure range	0.7 to 31 bar (10 psi to 450 psi)
Outlet pressure range	HPR251: 0 to 17.2 bar (0 to 250 psi) HPR250: 1.7 to 17.2 bar (25 to 250 psi)
Operating temperature	-18°C to 79°C (0°F to 175°F) Air moisture content must be dry
Flow rating	Flow rates exceed 2,000 SCFM
Body and dome	Cast aluminium
Cap	Teflon coated aluminium
Valve	Nitrile bonded aluminium
Elastomers	Nitrile
Exhaust ports	3/4" BSPP
Dimensions A x B x C	HPR251: 152.4 x 88.9 x 94 mm HPR250: 167.6 x 88.9 x 157.4 mm

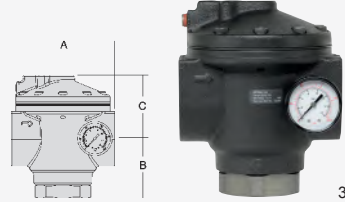
### RECOMMENDED For HPR251-12W and HPR251-16W

Pilot Control Regulators (sold separately)

General purpose applications, order: R56M-2, R350-2 or R67-2.

New

### SERIES HPR251 DIAPHRAGM TYPE

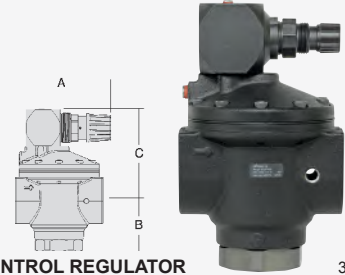


3210

PART NUMBER	PORT SIZE	GAUGE PORT SIZE	PRICE
M-HPR251-12W	1 1/2" BSPP	1/4" BSPP	£576.22
M-HPR251-16W	2" BSPP	1/4" BSPP	£576.22

New

### SERIES HPR250 DIAPHRAGM TYPE C/W INTEGRAL CONTROL REGULATOR



3210

PART NUMBER	PORT SIZE	GAUGE PORT SIZE	PRICE
M-HPR250-0B0A0A-B	1 1/2" BSPP	1/4" BSPP	£797.15
M-HPR250-0B0A0A-D	2" BSPP	1/4" BSPP	£797.15

## AIR-LINE LUBRICATORS

### FEATURES

- In-line mounting
- L29D has a sight feed design and external, removable, oil adjustment knob
- L100 has a wick feed design and internal oil adjustment
- BSPP threads, NPTF optional

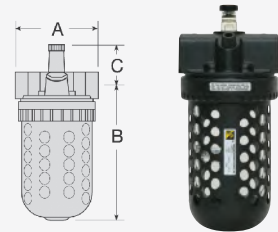
### SPECIFICATIONS

Ambient / media temperature	Plastic bowl: +4°C to +52°C (+40°F to +125°F) Metal bowl: +4°C to +79°C (+40°F to +175°F)
Head	Aluminium
Bowl	473 ml (16 oz) capacity polycarbonate plastic with steel shatterguard. Optional aluminium bowl with sight glass
Bowl ring	Aluminium
Sight dome	Nylon
Inlet pressure	Plastic bowl: 10 bar maximum Metal bowl: 14 bar maximum
Fluid media	Compressed air
Seals	Nitrile
Dimensions A x B x C	Plastic L29D: 108 x 208 x 37 mm Metal L29D: 108 x 185 x 37 mm Plastic L100: 114 x 195 x 21 mm Metal L100: 114 x 208 x 21 mm

Other spares and accessories available. Please contact your distributor for further information.



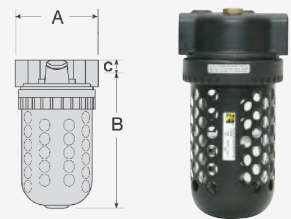
### SERIES L29D SIGHT FEED PLASTIC BOWL



3210

PART NUMBER	PORT SIZE	RESERVOIR CAPACITY	PRICE
M-L29D-6W	G3/4"	473 ml	£124.17
M-L29D-8W	G1"	473 ml	£124.17
M-L29D-10W	G1 1/4"	473 ml	£161.32
M-L29D-12W	G1 1/2"	473 ml	£161.32

### SERIES L100 WICK FEED PLASTIC BOWL



3210

PART NUMBER	PORT SIZE	RESERVOIR CAPACITY	PRICE
M-L100-8W	G1"	473 ml	£111.76

## VANGUARD HIGH CAPACITY MODULAR ACCESSORIES

### FILTER ELEMENTS FOR USE WITH GENERAL PURPOSE FILTERS AND INTEGRALS F\*100 AND CF\*DR100

3210

PART NUMBER	DESCRIPTION	PRICE
M-KA109-3PE	5 micron polyethylene	£12.00
M-KA10903E5	5 micron bronze	£26.61
M-KA10903E4	20 micron bronze	£26.61
M-KA10903E3	40 micron bronze	£26.61

### FILTER ELEMENTS FOR USE WITH COALESCENT FILTERS FC\*101 3/4" AND 1"

3210

PART NUMBER	DESCRIPTION	PRICE
M-A109-106	0.3 micron coalescent plastic	£78.15
M-A109106E8	0.01 micron coalescent plastic	£78.15

### FILTER ELEMENTS FOR USE WITH GENERAL PURPOSE FILTERS BF401 AND BFD401

3210

PART NUMBER	DESCRIPTION	PRICE
M-KA10633E5	5 micron bronze	£151.92
M-KA106-33	40 micron bronze	£145.04

### FILTER ELEMENTS FOR USE WITH COALESCENT FILTERS BFC401 AND BFC401

3210

PART NUMBER	DESCRIPTION	PRICE
M-A106-24	0.3 micron coalescent plastic	£250.92
M-A106-24E8	0.01 micron coalescent plastic	£250.92

### FILTER ELEMENTS FOR USE WITH COALESCENT EXTENDED FILTERS BFC401H AND BFC401H

3210

PART NUMBER	DESCRIPTION	PRICE
M-A106-24L	0.3 Micron coalescent	£380.73
M-A10624LE8	0.1 Micron coalescent metal ext. 23 oz	£380.73

### MOUNTING BRACKETS AND CONNECTORS

3210

PART NUMBER	DESCRIPTION	PRICE
M-K37-71M	Regulator panel mounting nut & mounting bracket	£17.97
M-37-71	Regulator bracket	£9.18
M-KA37-68	Gauge port & mounting bracket	£18.78
M-KA37-68L	Gauge port & extended mounting bracket	£24.72
M-UMB-6	3/4" U-bolt bracket	£29.64
M-UMB-8	1" U-bolt bracket	£29.64



### IN MOUNTING BRACKETS

#### FOR EXTERNAL PILOT REGULATORS

3210

PART NUMBER	DESCRIPTION	PRICE
M-A37-381	HPR100 kit	£40.33
M-37-364	HPR180 bracket	£40.32

### REGULATOR PRESSURE GAUGE

3210

PART NUMBER	DESCRIPTION	PRICE
M-200-BDD	0-200 psi gauge	£11.67

### COALESCENT FILTER DIFFERENTIAL GAUGE

3210

M-106-35	Large differential pressure gauge	£58.72
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## SAFETY LOCK-OUT VALVES

### FEATURES

- Supplied in safety yellow and red (on the same unit)
- Locks in Closed-Exhaust position only (an OSHA requirement)
- Operating sleeve resists accidental shut-off, yet slides smoothly without sticking after long periods between operations
- Sleeve rotates for location of a standard padlock
- 50% to 60% less costly than other valve types
- Takes less space than spool, poppet and ball valves
- No handles to remove or vibrate off the valve
- Controlled exhaust rate muffles exhaust noise
- Operating sleeve cannot be removed while valve is locked

### SPECIFICATIONS

Temperature range	+4°C to +52°C (+40°F to +125°F)
Working pressure	0.07 bar to 17.2 bar (1 to 250 psi)

### MATERIALS

Valve body	Hard anodised teflon coated aluminium
Valve sleeve	Yellow anodised aluminium
Lock-out ring	Red, glass filled nylon
Seals	Pre-lubricated, floating, Buna-N, o-rings
Media	Compressed air only
Padlocks	Any locking device (key or combination) with a shackle diameter not greater than 3/8"

### MEETS OSHA REGULATIONS

In compliance with OSHA standards, the V-35 only locks in the closed / exhaust position. It provides positive lock-out with any shackle diameter up to 3/8".



### GUARDSMAN SERIES V-35 SAFETY LOCK-OUT

3210



PART NUMBER	PORT SIZE	CV AVERAGE	PRICE
M-V35-2W	1/4" BSPP	2.44	£52.37
M-V35-3W	3/8" BSPP	4.59	£52.37
M-V35-4W	1/2" BSPP	5.93	£52.37
M-V35-6W	3/4" BSPP	7.29	£52.37

## DESCRIPTION

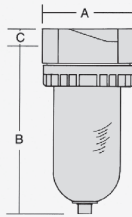
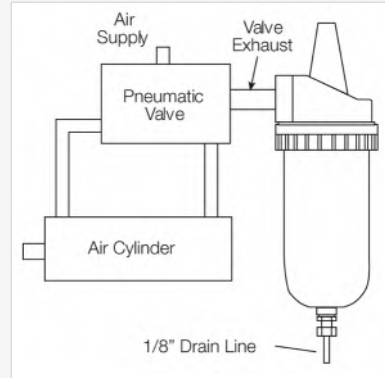
Silencers / reclassifiers are integral silencer and oil separation devices. When installed at the exhaust ports of pneumatic valves, they reduce exhaust noise and capture lubricants contained in the exhausting air. They are used on valve-cylinder applications and on air tools with piped exhausts.

## FEATURES

- Exhaust noise reduced to between 80 and 85 dBA under standard, steady-state test conditions
- Peak impact noise is reduced to between 106 and 108 dBA
- A drain cock is supplied for manual or automatic draining of accumulated liquids
- External oil adjustment, tamper resistant
- Optional 1/8 tube fitting (00142W) is available for automatic draining

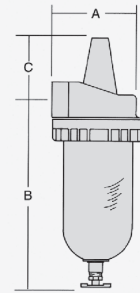
## SPECIFICATIONS

Ambient / media temperature	Plastic bowl: +4°C to +51°C (+40°F to +125°F) RS metal bowl: +4°C to +79°C (+40°F to +175°F)
Bowl	240 ml polycarbonate plastic bowl for RS 480 ml polycarbonate plastic bowl for MRS Optional metal bowl
Element	Sintered bronze
Fluid media	Compressed air
Inlet pressure	5 to 150 wg (0.3 bar to 10 bar) maximum
Dimensions A x B x C	88.9 x 139.7 x 17.5 mm (RS100) 107 x 213 x 69 mm (MRS100)



SERIES RS100

3210

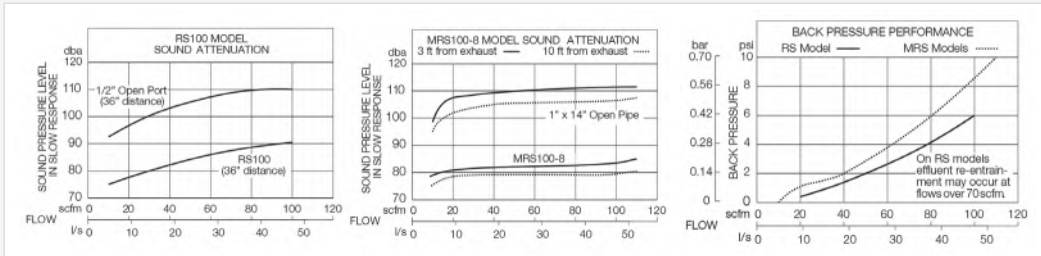


SERIES MRS100

3210

PART NUMBER	PORT SIZE	WEIGHT	PRICE
M-RS100-4W	G1/2"	0.59 kg	£68.49

PART NUMBER	PORT SIZE	WEIGHT	PRICE
M-MRS100-6W	G3/4"	1.27 kg	£110.35
M-MRS100-8W	G1"	1.27 kg	£110.35



## ACCESSORIES

### OPTIONAL ACCESSORIES

#### RS100 & MRS100

3210

PART NUMBER	DESCRIPTION	PRICE
M-KA103-3E4	RS replacement element kit	£14.91
M-KA109-32	MRS replacement element kit	£64.90



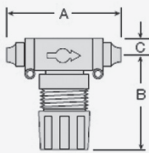
## SENTRY MODULAR RANGE

### FEATURES

- Designed to set pilot pressure of the water for the main valve in a sprinkler system
- Diaphragm type design
- Non-relieving
- Corrosion resistant construction
- Optional large valve seat for water flows up to six gallons per minute
- Threaded ports or quick-connect fittings for tubing up to 10 mm in diameter
- BSPP threads, NPTF optional

### SPECIFICATIONS

Ambient / media temperature	+1.7°C to +52°C (+35°F to +125°F)
Head	Acetal
Dome and knob	Acetal
Main spring	Stainless steel
Fluid media	Water
Inlet pressure	10 bar maximum
Outlet pressure	Adjustable up to 7 bar locking adjustment cap
Panel mounting	30 mm (1-3/16") hole required
Pressure gauge	Optional (0-160 psig)
Seals	Nitrile



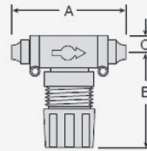
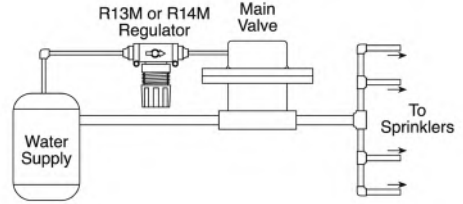
**SERIES R14M  
DIAPHRAGM TYPE**



3210

PART NUMBER	PORT SIZE	DIMENSIONS	PRICE
M-R14M-1AW	G1/8"	76 x 67 x 13 mm	£22.71
M-R14M-2AW	G1/4"	76 x 67 x 13 mm	£22.71

### TYPICAL APPLICATION IN AN IRRIGATION SYSTEM



**SERIES R14M  
DIAPHRAGM TYPE**



3210

PART NUMBER	PORT SIZE	DIMENSIONS	PRICE
M-R14M-04A	1/4" OD	86 x 67 x 13 mm	£36.73
M-R14M-06A	3/8" OD	99 x 67 x 13 mm	£32.35
M-R14M-M4A	4 mm OD	86 x 67 x 13 mm	£36.73
M-R14M-M6A	6 mm OD	86 x 67 x 13 mm	£32.35
M-R14M-M8A	8 mm OD	86 x 67 x 13 mm	£32.35
M-R14M-M10A	10 mm OD	99 x 67 x 13 mm	£32.35

Models above have quick connect fittings for tubing.

## ACCESSORIES AND OPTIONAL EXTRAS

### R14M DIAPHRAGM REGULATOR ASSEMBLY KITS

3210

PART NUMBER	DESCRIPTION	PRICE
M-A33-544A	Non-relieving diaphragm, support and retainer	£1.15

### R14M DIAPHRAGM REGULATOR MOUNTING ACCESSORIES

3210

PART NUMBER	DESCRIPTION	PRICE
M-A33-82	Panel mount nut and bracket	£4.42
M-10R-26	Panel mount nut	£1.54

## FRL PORTABLE ASSEMBLIES

### GUARDSMAN 1/2" INTEGRAL FILTER / REGULATOR FEATURES

- Filter and regulator consolidated in a single assembly
- Self-relieving piston type regulator
- Pressure gauge included
- BSPP threads

### GUARDSMAN 1/2" SIGHT FEED LUBRICATOR FEATURES

- Sight feed design
- External, tamper resistant oil adjustment
- BSPP threads

**SUPPLIED COMPLETE WITH GAUGE, BRACKET KIT AND FRAME**

### FRL PORTABLE ASSEMBLY



3210

PART NUMBER	DESCRIPTION	PRICE
TPD2170	Guardsman 1/2" Integral Filter / Regulator Guardsman 1/2" Sight Feed Lubricator CEJN C103202155 Coupling C103205155 Nipple	£294.74

### VANGUARD 1/2" INTEGRAL FILTER / REGULATOR FEATURES

- Filter and regulator consolidated in a single assembly
- Self-relieving diaphragm type regulator
- Removable pressure adjustment locking key
- BSPP threads

### VANGUARD 1/2" SIGHT FEED LUBRICATOR FEATURES

- Sight feed design
- External oil adjusting knob, removable for tamper resistance
- BSPP threads

**SUPPLIED COMPLETE WITH GAUGE, BRACKET KIT AND FRAME**

### FRL PORTABLE ASSEMBLY



3210

PART NUMBER	DESCRIPTION	PRICE
TPD2171	Vanguard 1/2" Integral Filter / Regulator Vanguard 1/2" Sight Feed Lubricator CEJN C103202155 Coupling C103205155 Nipple	£348.33

### HIGH CAPACITY 3/4" AUTOMATIC DRAIN FILTER FEATURES

- BSPP threads

### VANGUARD 3/4" REGULATOR FEATURES

- Diaphragm type design
- Removable pressure adjustment locking key
- BSPP threads
- Self-relieving

### VANGUARD 3/4" WICK FEED LUBRICATOR FEATURES

- Wick feed design
- External oil adjusting knob, removable for tamper resistance
- BSPP threads

**SUPPLIED COMPLETE WITH GAUGE, BRACKET KIT AND FRAME**

### FRL PORTABLE ASSEMBLY



3210

PART NUMBER	DESCRIPTION	PRICE
TPD2172	High Capacity 3/4" Automatic Drain Filter Vanguard 3/4" Regulator Vanguard 3/4" Wick Feed Lubricator CEJN C104102157 Coupling C104105157 Nipple	£429.07

## ACCESSORIES AND OPTIONAL EXTRAS

### REPLACEMENT FRAMES 3210

PART NUMBER	SIZE	FOR USE WITH	PRICE
TPD1413	Small	TPD2170	£60.70
TPD1416	Large	TPD2171 / TPD2172	£75.37

## MANIFOLD MOUNTED REGULATOR ASSEMBLIES

New

### FEATURES

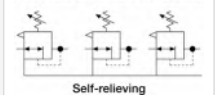
- Manifold assemblies are available in 1, 2, 3, and 4 port regulator assemblies. They can be assembled together for longer in-line regulator assemblies
- Piston-type design (RT55M models) or diaphragm-type (RT56M models)
- Self-relieving design; Non-relieving optional
- BSPP port threads or optional NPTF

### SPECIFICATIONS

Ambient / media temperature	4°C to 52°C (40°F to 125°F)
Body	Aluminium
Dome and knob	Glass filled Nylon and Acetal
Fluid media	Compressed air and inert gas
Inlet pressure	21 bar (300 psi) maximum
Outlet Pressure	Adjustable up to 7 bar (100 psi); optional adjusting springs
Panel mounting	1 3/16" (30 mm) hole required
Seals	Nitrile, optional Viton



ISO SYMBOLS - Manifold regulator



For further details,  
please contact your distributor.

## THE SERV-OIL INJECTION LUBRICATION SYSTEM

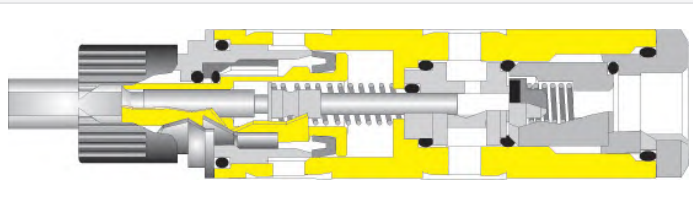
### SERV-OIL LUBRICATES THE COMPONENT, NOT THE AREA

SERV-OIL is the most advanced system for the precision lubrication of pneumatic equipment systems, which is used to provide lubrication to all kinds of pneumatic equipment, fixtures, bearings, slides and ways. It overcomes the control problems encountered with conventional mist lubricators. It also ensures proper lubrication of pneumatic components in complex circuits and delivers lubricant to points at long distances from the lubricator. Positive displacement oil injectors (Servo-Meters) are the heart of SERV-OIL equipment. They put precise amounts of oil right at the points where lubrication is needed. With SERV-OIL, the amount of oil used is greatly reduced and lubrication is more effective because of the accuracy with which the oil is delivered.

### DO YOU NEED SERV-OIL?

If ANY ONE of the following statements describes a situation in your plant, you could reap long term dividends with the use of Serv-Oil products from Master Pneumatic:

- We repair air tools because the vanes are worn and the cylinders and rotors are scored due to insufficient lubrication.
- The appearance of fog or mist lubrication is a hazard in our plant
- Over lubrication costs us money because of the stringent requirements for disposing of used lubricants
- Air cylinders in our plant become sluggish because of varnish or other contaminants
- Torque control in our air tools is variable and doesn't meet our requirements
- We set pressure regulators higher than the work requires just to overcome stiction in valves, cylinders or other air components
- If one pump fails in our lubrication system, the performance of other pumps is adversely affected
- Sometimes lubricators are turned off; unauthorised personnel are tampering with the lubrication adjustments so that control of the lubrication is not in the proper hands
- We use flood coolants to lubricate taps and drills - the cost and environmental impact of this have not been considered
- It would be to our advantage to know exactly what lubrication is being provided and when to fill our lubrication reservoirs



### THE SERVO-METER

Heart of the SERV-OIL family of products. It is a precision, positive displacement oil injector for use in several SERV-OIL assemblies for different industrial lubrication applications.



## THE SERV-OIL PRODUCT RANGE



### MULTIPLE POINT LUBRICATOR

An assembly of Servo-Meters to provide lubrication at many different points.



### DOWNSTREAM SINGLE POINT LUBRICATOR

Provides lubrication for a single cylinder, air motor, etc. Not for use with air tools.



### AUTOMATION PAC.

Self-contained lubrication system, using up to 20 Servo-Meters for 20 lubrication points.



### SINGLE POINT LUBRICATOR FOR AIR TOOLS

Specifically designed for air tools, but not other pneumatic components.



### JETMASTER LIQUID DISPENSER

Servo-Meter actuated dispenser propels a conical air-liquid jet up to 10 inches with pinpoint accuracy.



### LIQUID-ONLY INJECTOR

Servo-Meter actuated dispenser sprays air-free liquid up to 10 inches. Ejector connected to nozzle by tubing.

FOR MORE DETAILS AND PRICES, PLEASE CONTACT YOUR DISTRIBUTOR

**SINGLE POINT INJECTION LUBRICATORS**

**DOWNSTREAM INJECTION LUBRICATORS**

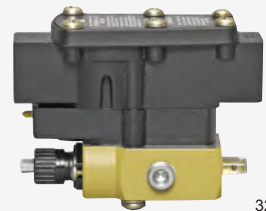
**SERIES A600  
1 DROP LUBRICATOR  
STANDARD**



3250

PART NUMBER	PORT SIZE	PRICE
M-A60041W	G1/2"	£121.51
M-A60061W	G3/4"	£121.51

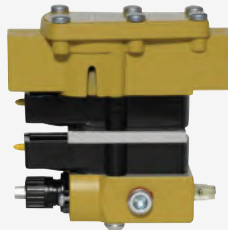
**SERIES D600  
1 DROP LUBRICATOR  
STANDARD**



3250

PART NUMBER	PORT SIZE	PRICE
M-D60041W	G1/2"	£127.95
M-D60061W	G3/4"	£127.95

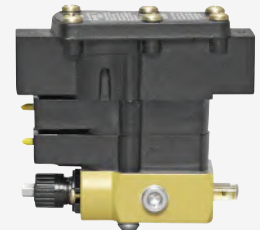
**SERIES A600  
1 DROP LUBRICATOR  
TWO PULSE COUNTER**



3250

PART NUMBER	PORT SIZE	PRICE
M-A60041BBW	G1/2"	£150.80
M-A60061BBW	G3/4"	£150.80

**SERIES D600  
1 DROP LUBRICATOR  
TWO PULSE COUNTER**



3250

PART NUMBER	PORT SIZE	PRICE
M-D60041BBW	G1/2"	£157.24
M-D60061BBW	G3/4"	£157.24

**SERIES A600  
1 DROP LUBRICATOR  
INTEGRAL RESERVOIR**



3250

PART NUMBER	PORT SIZE	PRICE
M-A64041W	G1/2"	£157.45
M-A64061W	G3/4"	£157.45

**SERIES D600  
1 DROP LUBRICATOR  
INTEGRAL RESERVOIR**



3250

PART NUMBER	PORT SIZE	PRICE
M-D64041W	G1/2"	£162.71
M-D64061W	G3/4"	£162.71

**SERIES A600  
1 DROP LUBRICATOR  
INTEGRAL RESERVOIR,  
TWO PULSE COUNTER**



3250

PART NUMBER	PORT SIZE	PRICE
M-A64041BBW	G1/2"	£186.74
M-A64061BBW	G3/4"	£186.74

**SERIES D600  
1 DROP LUBRICATOR  
INTEGRAL RESERVOIR,  
TWO PULSE COUNTER**



3250

PART NUMBER	PORT SIZE	PRICE
M-D64041BBW	G1/2"	£192.00
M-D64061BBW	G3/4"	£192.00



Many more products are available in the Serv-Oil range.

For further information, please contact your distributor and ask for a Serv-Oil brochure.



## MINI SERIES

Three

### FEATURES

- Suitable for high pressure use, corrosion and chemical resistance
- Good performance in chemically working environments and outdoor facility
- Large flow rate and effectively removes water and particles
- Accurate and sensitive pressure setting
- Lightweight, compact size for space saving

### SPECIFICATIONS

Media	Compressed air
Max. inlet pressure	30 bar
Pressure range	0.5 – 20 bar
Media temperature	-10°C to +60°C
Ambient temperature	-10°C to +60°C
Filtration	5 micron
Thread	BSP
Weight	1380 g

### MATERIALS

Body, bowl, filter element & pressure gauge	316 stainless steel
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STAINLESS STEEL FILTER REGULATOR  
0.5 – 20 BAR

1720

PART NUMBER	PORT SIZE	MAX. FLOW RATE @ 6 BAR	DRAIN TYPE	PRICE
SSFR500-02	1/4"	1850 l/min	Semi-auto	£451.01

### FEATURES

- Suitable for high pressure use, corrosion and chemical resistance
- Good performance in chemically working environments and outdoor facility
- Large flow rate and effectively removes water and particles
- Accurate and sensitive pressure setting
- Lightweight, compact size for space saving

### SPECIFICATIONS

Media	Compressed air
Max. inlet pressure	30 bar
Pressure range	0.5 – 20 bar
Ambient temperature	-10°C to +60°C
Weight	1200 g
Thread	BSP

### MATERIALS

Body	316 stainless steel
Pressure gauge	Case – 304 stainless steel Thread – 316 stainless steel



STAINLESS STEEL REGULATOR  
0.5 – 20 BAR

1720

PART NUMBER	PORT SIZE	MAX. FLOW RATE @ 6 BAR	PRICE
SSR200	1/4"	1850 l/min	£353.60

## STANDARD SERIES

### SPECIFICATIONS

Media	Air, water, oil, steam
Pressure range	0 to 16 bar max
Media temperature	-10°C to +200°C max
Ambient temperature	+5°C to +60°C
Pilot media	Air, water, gas
Pilot pressure	5 to 8 bar

### MATERIALS

Body, tube, piston and internal parts	AISI 316 (CF8M) stainless steel
Actuator	AISI 304 stainless steel (Rotation 360°)
Seals and gaskets	Valve – PTFE, Actuator – FKM



STAINLESS STEEL  
ANGLE SEAT PISTON VALVE  
2-WAY DIRECT ACTING –  
NORMALLY CLOSED

1720

PART NUMBER	PORT SIZE	FLOW RATE (KV)	ORIFICE	ACTUATOR	PRICE
ASPV10SS-316	3/8"	75 l/min	10 mm	40 mm	£150.25
ASPV15SS-316	1/2"	15 l/min	15 mm	40 mm	£150.25
ASPV20SS-316	3/4"	20 l/min	20 mm	50 mm	£169.85
ASPV25SS-316	1"	25 l/min	25 mm	50 mm	£189.49
ASPV32SS-316	1 1/4"	32 l/min	32 mm	63 mm	£287.46
ASPV40SS-316	1 1/2"	40 l/min	40 mm	80 mm	£333.37
ASPV50SS-316	2"	50 l/min	50 mm	80 mm	£365.90

**STANDARD SERIES**

**FEATURES**

- Excellent corrosion and chemical resistance
- Good performance for outdoor facility
- Effectively removes water and particles
- Accurate and sensitive pressure testing

**SPECIFICATIONS**

Media	Compressed air
Ambient temperature	-10°C to +70°C
Filtration	5 micron
Thread	BSP

**MATERIALS**

Body, bowl & filter element	316 stainless steel
Pressure gauge	Case – 304 stainless steel Thread – 316 stainless steel



1720

**STAINLESS STEEL  
FILTER REGULATOR  
0.5 – 12 BAR**

PART NUMBER	PORT SIZE	MAX. FLOW RATE @ 6 BAR	DRAIN TYPE	PRICE
USFRB02	1/4"	2200 l/min	Semi auto	£490.68
USFRB03	3/8"	2500 l/min	Semi auto	£490.68
USFRB04	1/2"	3800 l/min	Semi auto	£490.68
USFRB06H	3/4"	8500 l/min	Manual	£1270.01
USFRB08H	1"	8900 l/min	Manual	£1270.01

**12 – 28 BAR**

USFR02	1/4"	2200 l/min	Semi auto	£490.68
USFR03	3/8"	2500 l/min	Semi auto	£490.68
USFR04	1"	3800 l/min	Semi auto	£490.68
USFR06H	3/4"	17000 l/min	Manual	£1270.01
USFR08H	1"	21000 l/min	Manual	£1270.01

**FEATURES**

- Suitable for high pressure use, corrosion and chemical resistance
- Good performance for outdoor facility
- Accurate and sensitive pressure setting

**SPECIFICATIONS**

Media	Air
Max. inlet pressure	30 bar
Test pressure	60 bar
Ambient temperature	-10°C to +70°C
Thread	BSP

**MATERIALS**

Body	316 stainless steel
Pressure gauge	Case – 304 stainless steel Thread – 316 stainless steel



1720

**STAINLESS STEEL REGULATOR  
0.5 – 12 BAR**

PART NUMBER	PORT SIZE	MAX. FLOW RATE @ 6 BAR	PRICE
USRB02	1/4"	1950 l/min	£404.09
USRB03	3/8"	2250 l/min	£404.09
USRB04	1/2"	2520 l/min	£404.09
USRB06	3/4"	9000 l/min	£1067.97
USRB08	1"	9400 l/min	£1067.97

**12 – 28 BAR**

USR02	1/4"	1950 l/min	£404.09
USR03	3/8"	2250 l/min	£404.09
USR04	1/2"	2520 l/min	£404.09
USR06	3/4"	18000 l/min	£1067.97
USR08	1"	22000 l/min	£1067.97

### DESCRIPTION

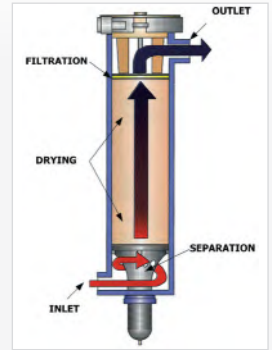
Many compressed air systems require point of use cleaning and drying to supplement a central system. Filenco Dryer / Filter units succeed where conventional dryers and filters fail by reducing the dew point because of their triple action cleaning process. Where temperatures vary and / or applications are critical, Master Pneumatic Filenco clean air products are designed to filter air, drop the pressure dew point and remove oil mist.

### DESICCANT MATERIALS

Master Pneumatic Filenco Dryer / Filters add the ability to drop the pressure dew point, preventing the recurrence of water in the air system and systematically adsorbing sulphuric acid compounds that form into abrasive, gummy varnish or shellac. Three choices of desiccant are available:

- CD – Clay Desiccant
- MS – Molecular Sieve Desiccant
- CDC – Clay Desiccant with Activated Carbon

Dryers require element disk replacements in order to function properly. Please contact your distributor for further details.



**SERIES 25**  
MBA FLOAT DRAIN METAL BOWL  
MOISTURE INDICATOR

3220

PART NUMBER	PORT SIZE	FLOW	DESICCANT	PRICE
M-CD25D4M	G1/4"	7 SCFM (3.3 l/s)	CD	£620.69
M-MS25D4M	G1/4"	7 SCFM (3.3 l/s)	MS	£674.73
M-CDC25D4M	G1/4"	7 SCFM (3.3 l/s)	CDC	£634.57



**SERIES 418**  
MBA FLOAT DRAIN METAL BOWL  
MOISTURE INDICATOR

3220

PART NUMBER	PORT SIZE	FLOW	DESICCANT	PRICE
M-CD41D4M	G1"	70 SCFM (34 l/s)	CD	£1688.91
M-MS41D4M	G1"	70 SCFM (34 l/s)	MS	£1914.80
M-CDC41D4M	G1"	70 SCFM (34 l/s)	CDC	£1703.88



**SERIES 36**  
MBA FLOAT DRAIN METAL BOWL  
MOISTURE INDICATOR

3220

PART NUMBER	PORT SIZE	FLOW	DESICCANT	PRICE
M-CD36D4M	G3/8"	18 SCFM (8.5 l/s)	CD	£709.60
M-MS36D4M	G3/8"	18 SCFM (8.5 l/s)	MS	£816.05
M-CDC36D4M	G3/8"	18 SCFM (8.5 l/s)	CDC	£728.40



**SERIES 625**  
MBA FLOAT DRAIN METAL BOWL  
MOISTURE INDICATOR

3220

PART NUMBER	PORT SIZE	FLOW	DESICCANT	PRICE
M-CD62D4M	G1 1/2"	150 SCFM (70 l/s)	CD	£2468.09
M-MS62D4M	G1 1/2"	150 SCFM (70 l/s)	MS	£2815.22
M-CDC62D4M	G1 1/2"	150 SCFM (70 l/s)	CDC	£2540.58



**SERIES 38**  
MBA FLOAT DRAIN METAL BOWL  
MOISTURE INDICATOR

3220

PART NUMBER	PORT SIZE	FLOW	DESICCANT	PRICE
M-CD38D4M	G1/2"	30 SCFM (14 l/s)	CD	£1030.99
M-MS38D4M	G1/2"	30 SCFM (14 l/s)	MS	£1192.96
M-CDC38D4M	G1/2"	30 SCFM (14 l/s)	CDC	£1048.15



**SERIES 832**  
MBA FLOAT DRAIN METAL BOWL  
MOISTURE INDICATOR

3220

PART NUMBER	PORT SIZE	FLOW	DESICCANT	PRICE
M-CD83D4M	G2"	300 SCFM (142 l/s)	CD	£4246.63
M-MS83D4M	G2"	300 SCFM (142 l/s)	MS	£4657.69
M-CDC83D4M	G2"	300 SCFM (142 l/s)	CDC	£4372.28

**DROPOUT® AUTO-DRAIN**

**DESCRIPTION**

The Dropout® Auto-drain is designed to remove all contaminants from dropout units automatically. It has two 1/2" inlet connections, enabling flexible installation. It is supplied with a metal blanking plug.

**FEATURES / BENEFITS**

- Drains all contaminants (water, oil and solid particles) automatically
- Maintenance free
- No mains power or batteries required
- Easy to install

**SPECIFICATIONS**

Water storage	350 cc
Max. flow rate	5760 l/min
Max. inlet pressure	16 bar
Operating temperature	0°C to +80°C (+32°C to +176°C)

dropout®



**AUTO-DRAIN**

8230

PART NUMBER	INLET / OUTLET CONNECTION	PRICE
PDOAD128	1/2"	£156.20

**DROPOUT® WATER SEPARATOR WITH AUTO-DRAIN**

**DESCRIPTION**

The unique design allows it to efficiently removes 99.9999% of Liquid (Water & Oil) & 99 % solid particulates down to 1 Micron. Exceptional compressed air quality guaranteed. The PDO300PA is a 'Compact' Dropout® unit and is used as an inline point of use liquid (water and oil) separator and contaminant remover. It is used in a wide range of applications and flow rates. Unlike traditional cyclonic separators which rely on constant and stable flows, Dropout® has the ability to maintain its performance levels during start up where it reaches optimum performance in a fraction of a second. All the protection you need in one device instead of having to purchase and maintain a multiplicity of different products. This unique multi-stage Compressed Air Filter requires NO Replacement Filters, and once fitted, the ongoing servicing costs are ZERO. Save money... save energy... save time...

**FEATURES**

- Superior protection for your compressed air equipment at point of use
- Stand-alone replacement for water separators and/or coalescing filters
- Protection upstream of refrigerant and desiccant dryers
- Easy to install, no mains power and no consumables
- No increase in pressure drop caused by blocked filters
- Significantly lower life cycle costs
- Instantaneous recovery from pulsed flows or stop start
- Maintenance free with built-in auto-drain

**SPECIFICATIONS**

Optimum flow rate	283 l/min / 10 cfm
Water storage	50 cc
Max. inlet pressure	16 bar
Working pressure	1 – 15 bar

dropout®



**WATER SEPARATOR WITH AUTO DRAIN  
NYLON**

8230

PART NUMBER	INLET / OUTLET CONNECTION	PRICE
PDO300PA	1/2"	£326.32

**STAINLESS STEEL DROPOUT® WATER SEPARATOR**

**DESCRIPTION**

Dropout® is a unique, scientifically engineered, patent protected, multi-stage compressed air filter that removes 99.9999% of liquid (water & oil) and 99% solid particulated down to 1 micron. This unique, multi-stage, compressed air filter requires no replacement filters and once fitted, the ongoing servicing costs are zero.

**FEATURES / BENEFITS**

- Guaranteed 99.9999% water removal
- Particulate removal to 1 micron
- Low cost of ownership and maintenance free
- Complete with wall bracket and drain valve
- Minimal inlet / outlet pressure drop
- Performance does not depend on the compressed air having a stable flow rate or high velocity
- Modular, scalable design delivers a wide flow rate product range, without compromising the efficiency of removal of water and solid particles
- Unique, patent protected, multiple impact design, operates far more efficiently than conventional filter designs
- No drop in water or particle removal efficiency, regardless of flow rate or duration of time installed
- Certified to ISO 12500 parts 3 & 4
- ATEX Mark - Ex II 2G IIC T6 Gb

**SPECIFICATIONS**

Max. inlet pressure	15 bar
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dropout®



**WATER SEPARATOR  
STAINLESS STEEL**

8230

PART NUMBER	INLET / OUTLET CONNECTION	MAX. FLOW RATE	PRICE
PDO60S	1/4"	90 l/min	£364.62
PDO300S	1/2"	450 l/min	£583.46
PDO600S	3/4"	900 l/min	£692.87
PDO900S	3/4"	1350 l/min	£790.17
PDO1500S	1"	2314 l/min	£1033.25
PDO2000S	1"	3085 l/min	£1212.84



**DROPOUT® WATER SEPARATOR**

**DESCRIPTION**

A unique, patent protected Dropout® Water Separator which is designed to revolutionise the compressed air industry - removes 99.9999% of water from your compressed air system.

Dropout® is a unique, scientifically engineered, patent protected multi-stage Compressed Air Filter that removes 99.9999% of liquid (water & oil) and 99% solid particulated down to 1 micron. This unique multi-stage Compressed Air Filter requires no replacement filters, and once fitted, the ongoing servicing costs are zero.

**FEATURES / BENEFITS**

- Guaranteed 99.9999% liquid water removal
- ISO 12500 Certified
- Particulate removal to 1 micron
- Low cost of ownership
- Maintenance free
- Complete with wall bracket and drain valve
- Minimal inlet/outlet pressure drop
- Performance does not depend on the compressed air having a stable flow rate or high velocity
- Modular, scalable design delivers a wide flow rate product range without compromising the efficiency of removal of water and solid particles
- Unique patent protected multiple impact design operates far more efficiently than conventional filter designs
- No drop in liquid water or particle removal efficiency regardless of flow rate or duration of time installed
- Sealed for life aluminium housing
- No requirement for replacement filter cartridges
- No increase in pressure drop caused by blocked filters
- Easy to clean

**SPECIFICATIONS**

Max. inlet pressure	16 bar
Water storage	280 cc

dropout®



WATER SEPARATOR

8230

PART NUMBER	INLET / OUTLET CONNECTION	MAX. FLOW RATE	PRICE
PDO600A	3/4"	1000 l/min	£483.25

**DROPOUT® WATER SEPARATOR TITAN**

**DESCRIPTION**

Dropout® Titan Water Separator has been designed to operate in environments where there is a relatively high flow of air and where efficient bulk liquid water removal is essential.

It has exactly the same water removal efficiency and characteristics of the smaller flow rates (99.9999%) and can be installed at either point of use or down stream of your existing air receiver tank. units are fitted with pressure gauges and auto drain, and are AC main powered.

Dropout® Titan has an integrated auto drain to ensure that liquid water and contamination is efficiently removed. For installations down stream of your existing receiver tank we recommend fitting our smaller flow rates as a final polisher at point of use if required.

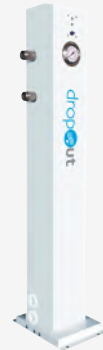
**FEATURES / BENEFITS**

- Integrated auto-drain (no power or batteries required)
- 99.9999% liquid water removal
- Particle removal 1 micron
- No replacement filter element
- Fitted with pressure gauge

**SPECIFICATIONS**

Max. inlet pressure	15 bar
Water storage	600 cc

dropout®



WATER SEPARATOR TITAN

8230

PART NUMBER	INLET / OUTLET CONNECTION	MAX. FLOW RATE	PRICE
PDO4000T	1"	7200 l/min	£5104.03

**DROPOUT® PORTABLE WATER SEPARATOR TITAN**

**DESCRIPTION**

The Dropout® Portable Water Separator enables you to remove water/ solid contaminant cost effectively.

The Dropout® Portable Water Separator allows you to do just that – providing even more value for money; as well as providing for applications requiring a portable solution.

**FEATURES / BENEFITS**

- Portability- small and lightweight enough to carry to your point of use
- 'Plug and play' - transfer easily between applications
- Pressure gauges as standard
- Integrated auto-drain (no power or batteries required)
- 99.9999% liquid water removal
- Particle removal 1 micron
- No replacement filter element

**SPECIFICATIONS**

Max. inlet pressure	15 bar
Water storage	640 cc

dropout®



PORTABLE WATER SEPARATOR TITAN

8230

PART NUMBER	INLET / OUTLET CONNECTION	MAX. FLOW RATE	PRICE
PDO900T8/R	3/4"	1275 l/min	£1998.20

## COMPRESSED AIR ENERGY SAVERS

### DESCRIPTION

For years the AIR-SAVER has helped end users to save valuable compressed air from escaping unnecessarily, reducing compressor running hours and thus extending its lifetime, saving energy and operating costs. The AIR-SAVER is typically installed on the air outlet of the air receiver. Alternatively, it is applied in larger factories to close off certain parts of the compressed air system, where during certain parts of the day no compressed air is required. A typical compressed air system has air loss 24 hours per day through pipe works connections and leaking float type drains, etc. By installing an AIR-SAVER, the end user will limit these types of air losses to the operating hours only. At the end of the working day, the AIR-SAVER will close off the air flow and prevent further loss of valuable compressed air.

### FEATURES / BENEFITS

- No unnecessary compressor start-up during periods when compressed air is not required
- Compressor, dryer and filter activities are reduced during factory closing hours
- At least one air receiver's worth of compressed air savings per day
- Possibility to shut off parts of the pipe line system where compressed air is not needed continuously
- Battery saves the installation set-up during power failure
- Up to 16 bar
- Slow valve opening to avoid hammer strike in pipe line system
- Time programmed or remote controlled
- Fully automatic: maintenance free
- Alkaline batteries protecting the programme
- Micro-Processor controlled (multi-cycle 7 day programme)
- Large LCD display showing programme cycle and current time
- Compact design: easy to install

### SPECIFICATIONS

Pressure range	0 – 16 bar (0 – 230 psi)
Supply voltage options	115 V AC or 230 V AC 50/60Hz. (please state)
Medium temperature	1 – 100°C
Ambient temperature	1 – 50°C
Illuminated lcd display	Indicating day, time, valve status, battery life
Programmable options	Week planner, max. 100 switching points, to be distributed over 1-7 days
Valve housing material	Brass nickel plated
Serviceable valve	Yes
Manual override	Yes
Remote controllable	Yes
Environmental protection	IP54 (NEMA13)

New



**AIR-SAVER G1  
COMPRESSED AIR ENERGY SAVER**

7720

PART NUMBER	INLET / OUTLET	OPENING / CLOSING DURATION	PRICE
JORC7005	1" BSP	30 sec. / 90°	£287.50

New



**AIR-SAVER G2  
COMPRESSED AIR ENERGY SAVER**

7720

PART NUMBER	INLET / OUTLET	OPENING / CLOSING DURATION	PRICE
JORC7007	2" BSP	105 sec. / 90°	£775.00

## AIR-SAVER REMOTE CONTROL

### DESCRIPTION

A typical compressed air system has air loss through pipe work connections, leaking float type drains, etc. At the end of the working shift, the AIR-SAVER will shut the air tank off from the rest of the system. The content of the compressed air tank will be saved, rather than lost through pipe work leakages. The REMOTE SWITCHING KIT allows you to control the AIR-SAVER remotely. This is useful when the AIR-SAVER is installed high off the ground.

### FEATURES / BENEFITS

- Rugged industrial design

### SPECIFICATIONS

Supply voltage	230 V AC max.
Switch type	3-Way (open / close or auto)
Cable length	5 m
Environmental protection	IP65 (NEMA4)

New



**AIR-SAVER REMOTE CONTROL**

7720

PART NUMBER	FOR USE WITH	PRICE
JORC709105	Air-Saver G1 and G2	£175.00

## MAGNETICALLY OPERATED ZERO AIR LOSS DRAINS

### DESCRIPTION

The MAGY and MAGY-UL are magnetically operated, level sensed drains that discharge condensate from all compressed air systems by using a unique technology based on magnetic forces. The MAGY and MAGY-UL use specially selected magnets that operate the 2/2 way direct acting valve assembly. The discharge process of the MAGY and MAGY-UL is automatic and there is no loss of compressed air during the condensate discharge cycle. The specially selected long-life magnets ensure a high operation consistency. The MAGY is easy to install and to service due to the top and side inlet options. The MAGY is ideally suited in applications where power is not available, too expensive or not reliable. Typically the MAGY is installed in refrigerated dryers and under piston compressors. The MAGY-UL is easy to install and to service and can also remain hooked up to the filter while maintenance is being carried out (i.e. the drain does not need to be unthreaded from the filter).

### FEATURES / BENEFITS

- Extremely compact with top and side inlet options
- Level sensed magnetic technology saves air, energy and money
- No operating cost once installed
- Service kits available
- Direct acting valve, for a reliable discharge
- Operating pressure 0 to 16 bar (0 to 230 psi)
- Robust, corrosion resistant aluminium housing, finished with an ElectroPhoretic Coating
- The direct acting valve is serviceable
- The MAGY and MAGY-UL bottom (outlet) can be rotated 360° for installation simplicity

### SPECIFICATIONS

Maximum drainage capacity	200 litres condensate per hour
Pressure range	0 – 16 bar (0 – 230 psi)
Valve type	2/2 way, direct acting
Valve seals	FPM
Inlet connections	1/2" (BSP or NPT, 2 inlet options)
Outlet connection	1/8" BSP
Inlet height	MAGY: 10.3 cm (top) and 9 cm (side) MAGY-UL: 10 cm (top)
Medium temperature	1 – 50°C
Ambient temperature	1 – 50°C
Serviceable valve	Yes
Housing material	Corrosion resistant aluminium, EP coating
Environmental protection	MAGY-UL: IP68 (NEMA6)

New



**MAGY – DUAL INLET  
NO LOSS FILTER DRAIN**

7720

PART NUMBER	NO. OF INLETS	MAXIMUM FILTER CAPACITY	PRICE
JORC3904	2	Unlimited	£106.25

New



**MAGY-UL  
NO LOSS FILTER DRAIN**

7720

PART NUMBER	NO. OF INLETS	MAXIMUM FILTER CAPACITY	PRICE
JORC3902	1	Unlimited	£83.13

## MAGY VALVE SERVICE KIT

### DESCRIPTION

Great care is taken to ensure long lasting components are selected and applied in our products. JORC products are designed in a way that makes servicing simple, quick and error free. Servicing JORC products is a cost effective way to recondition the products for many more years of draining service.

### FEATURES / BENEFITS

- High quality seals are applied, offering you long product life.
- Stainless steel inner parts, offering long life resistance against aggressive medium
- Service manuals are available, offering useful information and guidelines during routine maintenance activities
- All JORC products are designed for quick and easy servicing
- The service kits include all components that wear and tear in our products

New



**MAGY VALVE SERVICE KIT**

7720

PART NUMBER	KIT CONTENTS	PRICE
JORC39000	1 x Valve Assembly Kit and Valve Body 1 x Complete Float Assembly 1 x Seal 1 x NBR Gasket 1 x Allen key for Xtender kit 6 mm	£38.75

**PNEUMATICALLY OPERATED LEVEL SENSED CONDENSATE DRAIN**

**DESCRIPTION**

The NUFORS-CR removes condensate from compressed air systems without using electricity. The discharge process is automatic and is based on a newly developed 3/2 way level controlled valve principle that operates a piston type direct acting valve. The advantage of this valve principle is that the NUFORS-CR's orifice can be 6 mm, offering an increased reliability factor. The NUFORS-CR is ideally suited in applications where power is not available, too expensive or not reliable. In addition, the NUFORS-CR can be applied in applications that demand a higher IP rating (International Protection rating). The NUFORS-CR offers an IP 68/NEMA 6 rating.

**FEATURES / BENEFITS**

- Competitive 'true green' solution
- No operating costs: no electricity required, simply install and go
- Operating pressure up to 16 bar (230 psi)
- Reduced stocking costs: 1 model covers 3500 CFM (100 m³/min)
- Suitable for any type of compressed air system
- No sizing charts required
- Compact and unique design
- Successful draining of condensate due to large orifice (also heavily emulsified condensate)
- Incredibly easy and quick to install and to service
- No complicated external control air balance line required
- Integrated strainer
- Top and side inlets available
- TEST feature
- Robust aluminium housing
- Direct acting valve construction for a reliable condensate discharge operation

**SPECIFICATIONS**

Maximum compressor capacity	3500 CFM (100 m³/min)
Maximum drainage capacity	1062 l/hr @ 16 bar
Pressure range	0 – 16 bar (0 – 230 psi)
Valve type	Direct acting
Valve orifice	6 mm
Valve seals	FPM
Inlet connections	1/2" (BSP or NPT), 3 inlet options
Inlet height	12 cm (top), 9.7 cm and 1.5 cm (side)
Outlet connection	1/4" BSP with hose pipe connector
Medium temperature	1 – 50°C
Ambient temperature	1 – 50°C
Serviceable valve	Yes
Test feature	Yes
Integrated mesh strainer	Yes
Housing material	Corrosion resistant aluminium
Ingress protection	IP 68/NEMA 6



**NUFORS-CR  
NO LOSS DRAIN**

7720

PART NUMBER	OPERATION	PRICE
JORC3805	Pneumatically Operated	£256.25

**NUFORS-CR VALVE SERVICE KIT**

**DESCRIPTION**

Great care is taken to ensure long lasting components are selected and applied in our products. JORC products are designed in a way that makes servicing simple, quick and error free. Servicing JORC products is a cost effective way to recondition the products for many more years of draining service.

**FEATURES / BENEFITS**

- High quality seals are applied, offering you long product life.
- Stainless steel inner parts, offering long life resistance against aggressive medium
- Service manuals are available, offering useful information and guidelines during routine maintenance activities
- All JORC products are designed for quick and easy servicing
- The service kits include all components that wear and tear in our products



**NUFORS-CR VALVE SERVICE KIT**

7720

PART NUMBER	KIT CONTENTS	PRICE
JORC38000	1 x Complete float assembly 1 x Valve plunger set for NUFORS-CR 1 x Testknob set for NUFORS-CR 1 x 3/2-way valve set for NUFORS-CR 1 x Preformed gasket 1 x Valve O-ring for NUFORS-DC top air inlet 1 x Manual NUFORS-CR SERVICE 5 languages	£96.25

**IN-LINE STRAINER FOR ZERO AIR LOSS TYPE DRAIN**



**IN-LINE STRAINER**

7720

PART NUMBER	FEMALE THREAD	MALE THREAD	PRICE
JORC9008	1/2" BSP	1/4" BSP	£16.25

## ELECTRONIC ZERO AIR LOSS CONDENSATE DRAINS

### DESCRIPTION

The KAPTIV-MD is a zero air-loss drain, designed for smaller compressed air applications. The KAPTIV-MD incorporates the reliable JORC direct acting valve assembly with FPM seals, offering a pressure range of 0 to 16 bar (up to 230 PSI). The solid and robust aluminium housing design has also been incorporated into this model, following suit with the larger KAPTIV models. With an inlet connection height of only 74 mm, this is an incredibly compact solution with unrivalled installation versatility and reliability. The weight of the KAPTIV-MD is only 0.5kg. The maximum compressor capacity of this drain is 350 CFM (10 m<sup>3</sup>/min) and typical draining applications include fridge dryers and filters - mainly due to its incredible compact size.

### FEATURES / BENEFITS

- Extremely compact and lightweight unit
- True zero air-loss solution
- One model covers all compressor capacities up to 350 CFM (10m<sup>3</sup>/min)
- No sizing chart required
- The serviceable valve offers maintenance opportunities
- Zero air-loss during the condensate discharge
- Easy to install due to its low inlet height
- External valve position allows for fast and easy maintenance
- Direct acting valve with FPM seal
- Robust, corrosion resistant aluminium housing
- Integrated mesh strainer

### SPECIFICATIONS

Max. compressor capacity	350 CFM (10 m <sup>3</sup> /min)
Maximum drainage capacity	45 litres condensate per hour at 16 bar
Pressure range	0 – 16 bar (0 – 230 psi)
Valve type	2/2 way, direct acting
Valve orifice	2 mm
Valve seals	FPM
Inlet connections	1/2" (BSP or NPT)
Inlet height	7.4 cm
Outlet connection	1/4" BSP
Medium temperature	1 – 50°C
Ambient temperature	1 – 50°C
Supply voltage options	230 VAC / 115 VAC / 24 VAC / 24 VDC
Power connector	DIN 43650-B
Serviceable valve	Yes
Test feature	Yes
Environmental protection	IP65 (NEMA4)
Integrated mesh strainer	Yes
Housing material	Corrosion resistant aluminium, EP coating

**New**



**KAPTIV-MD  
NO LOSS DRAIN**

7720

PART NUMBER	VOLTAGE	DRAIN CAPACITY	PRICE
JORC3402	230 V AC	350 CFM	£187.50
JORC3422	115 V AC	350 CFM	£187.50
JORC3462	24 V AC	350 CFM	£187.50
JORC3482	24 V DC	350 CFM	£187.50

## KAPTIV-MD VALVE SERVICE KIT

### DESCRIPTION

Great care is taken to ensure long lasting components are selected and applied in our products. JORC products are designed in a way that makes servicing simple, quick and error free. Servicing JORC products is a cost effective way to recondition the products for many more years of draining service.

### FEATURES / BENEFITS

- High quality seals are applied, offering you long product life.
- Stainless steel inner parts, offering long life resistance against aggressive medium
- Service manuals are available, offering useful information and guidelines during routine maintenance activities
- All JORC products are designed for quick and easy servicing
- The service kits include all components that wear and tear in our products

**New**



**KAPTIV-MD VALVE SERVICE KIT**

7720

PART NUMBER	KIT CONTENTS	PRICE
JORC34001	1 x Stainless steel mesh 1 x Valve incl. IP set 1 x Preformed gasket 1 x O-ring 1 x Manual KAPTIV-MD Service 5 languages	£25.00

## ELECTRONIC ZERO AIR LOSS DRAINS

### DESCRIPTION

The KAPTIV-CS (Compact Solution) removes all types of condensate from compressed air systems up to 3500 CFM (100 m<sup>3</sup>/min) without the loss of compressed air. The compact robust industrial housing, 2/2 way direct acting valve with a large orifice, alarm NC or NO, and the integrated mesh strainer make the KAPTIV-CS a highly reliable draining solution.

### FEATURES / BENEFITS

- Robust aluminium housing with three inlet options
- Integrated mesh strainer
- Extremely easy to disassemble
- Can be connected to any alarm device; alarm function (NO or NC) standard incorporated
- Successful draining of all types of condensate due to large orifice
- Easy installation and visual display of operating status
- Direct acting valve assembly, ensuring reliable discharge operation
- Including digital sight port / level indicator



**New**

**KAPTIV-CS  
NO LOSS DRAIN  
A3 N/O**

7720

PART NUMBER	VOLTAGE	DRAIN CAPACITY	PRICE
JORC3403A3	230 V AC	3500 CFM	£322.50
JORC3423A3	115 V AC	3500 CFM	£322.50
JORC3463A3	24 V AC	3500 CFM	£322.50
JORC3483A3	24 V DC	3500 CFM	£322.50

### A4 N/C

JORC3403A4	230 V AC	3500 CFM	£322.50
JORC3423A4	115 V AC	3500 CFM	£322.50
JORC3463A4	24 V AC	3500 CFM	£322.50
JORC3483A4	24 V DC	3500 CFM	£322.50

### SPECIFICATIONS

Max. compressor capacity	3500 CFM (100 m <sup>3</sup> /min)
Maximum drainage capacity	665 litres condensate per hour at 16 bar
Pressure range	0 – 16 bar
Valve type	2/2 way, direct acting
Valve orifice	4 mm
Valve seals	FPM
Inlet connections	1/2" (BSP or NPT), 3 inlet options
Inlet height	11 cm (top) and 7.5 & 1.5 cm (side)
Outlet connection	1/4" BSP
Medium temperature	1 – 50°C
Ambient temperature	1 – 50°C
Supply voltage options	230 V AC / 115 V AC / 24 V AC / 24 V DC
Power and alarm connectors	DIN 43650-B
Serviceable valve	Yes
Test feature	Yes
Environmental protection	IP65 (NEMA4)
Integrated mesh strainer	Yes
Alarm feature type	A3: Normally open contacts, closed when in alarm phase. LED on the drain is OFF when in operation and ON when in alarm mode.
Contact output switch (voltage free)	A4: Normally closed contacts, open when in alarm phase. LED on the drain is OFF when in operation and ON when in alarm mode.
Housing material	Corrosion resistant aluminium

**For high pressure models, please contact your distributor.**

## KAPTIV-CS VALVE SERVICE KIT

### DESCRIPTION

Great care is taken to ensure long lasting components are selected and applied in our products. JORC products are designed in a way that makes servicing simple, quick and error free. Servicing JORC products is a cost effective way to recondition the products for many more years of draining service.

### FEATURES / BENEFITS

- High quality seals are applied, offering you long product life.
- Stainless steel inner parts, offering long life resistance against aggressive medium
- Service manuals are available, offering useful information and guidelines during routine maintenance activities
- All JORC products are designed for quick and easy servicing
- The service kits include all components that wear and tear in our products

**New**



**KAPTIV-CS VALVE SERVICE KIT**

7720

PART NUMBER	KIT CONTENTS	PRICE
JORC34000	1 x Mesh strainer 1 x Valve 1 x O-rings 1 x Manual KAPTIV-CS Service 5 languages	£25.00

## IN-LINE STRAINER FOR ZERO AIR LOSS TYPE DRAIN

**New**



**IN-LINE STRAINER**

7720

PART NUMBER	FEMALE THREAD	MALE THREAD	PRICE
JORC9008	1/2" BSP	1/4" BSP	£16.25

## ELECTRONIC TIMER DRAINS

### DESCRIPTION

The EZ-1 will be supplied including a ball valve strainer. The incorporated shut-off valve supports maintenance activity on the drain and the integrated stainless steel mesh will protect the valve construction against large particles.

### FEATURES / BENEFITS

- Does not air-lock during operation
- Any type of compressed air systems and up to 16 bar (230 psi)
- TEST (micro-switch) feature
- Accurate time cycles
- Large (4 mm) valve orifice
- Various connection sizes available
- Quick servicing advantage

### SPECIFICATIONS

Max. compressor capacity	Any size
Pressure range	0 – 16 bar (0 – 230 psi)
Supply voltage options	24 – 230 V AC / DC 50/60Hz. (please state)
Medium temperature	1 – 55°C
Ambient temperature	1 – 55°C
Timer cycle range (on / off)	0.5 – 10 seconds / 0.5 – 45 minutes
Timer PCB	SMD technology, ensuring consistency in production
Timer cycle indication	Bright LED illumination
Test feature	Yes
Valve type	2/2 way, direct acting
Valve orifice	4 mm
Valve seals	FPM
Inlet/outlet connections	1/4", 3/8", 1/2" (BSP or NPT)
Inlet connection height	1 cm
Serviceable valve	Yes
Valve housing material	Brass
Power connection	DIN 43650-A
Environmental protection	IP65 (NEMA4)

For high pressure models, please contact your distributor.

New



**EZ-1  
TIMER DRAIN  
INCL. BALL VALVE STRAINER**

7720

PART NUMBER	VOLTAGE	CONNECTION	PRICE
JORC2301MD	230 V AC	1/4"	£74.75
JORC2321MD	115 V AC	1/4"	£74.75
JORC2361MD	24 V AC	1/4"	£74.75
JORC2381MD	24 V DC	1/4"	£74.75
JORC2302BL	230 V AC	3/8"	£74.75
JORC2322BA	115 V AC	3/8"	£74.75
JORC2362BL	24 V AC	3/8"	£74.75
JORC2382BL	24 V DC	3/8"	£74.75

New



**COMBO-EZ-1  
BALL VALVE / STRAINER INTEGRATED**

7720

PART NUMBER	VOLTAGE	CONNECTION	PRICE
JORC2505	230 V AC	1/2"	£88.75
JORC2525	115 V AC	1/2"	£88.75

## EZ-1 / COMBO-EZ-1 SERVICE KIT

### DESCRIPTION

Great care is taken to ensure long lasting components are selected and applied in our products. JORC products are designed in a way that makes servicing simple, quick and error free. Servicing JORC products is a cost effective way to recondition the products for many more years of draining service.

### FEATURES / BENEFITS

- High quality seals are applied, offering you long product life.
- Stainless steel inner parts, offering long life resistance against aggressive medium
- Service manuals are available, offering useful information and guidelines during routine maintenance activities
- All JORC products are designed for quick and easy servicing
- The service kits include all components that wear and tear in our products

New



**EZ-1 / COMBO-EZ-1 SERVICE KIT**

7720

PART NUMBER	KIT CONTENTS	PRICE
JORC298114	1 x Valve incl. seals	£17.50

## DIGITAL TIMER DRAIN WITH INTEGRATED STRAINERS

### DESCRIPTION

The COMBO-D-LUX feature is a digital timer setting applied on time controlled condensate drains designed to automatically remove condensate from compressed air systems. The COMBO-D-LUX is designed to remove condensate from compressors, compressed air dryers and receivers up to any size, type or manufacturer. The COMBO-D-LUX is an all in one digital timer drain with an integrated ball valve and strainer. The unit offers true digital time cycle programming luxury ranging from milliseconds to 99 hours.

### FEATURES / BENEFITS

- Does not air-lock during operation
- Suitable for all types of compressed air systems
- TEST (micro-switch) feature
- Bright digital illuminated cycle display



7720

### COMBO-D-LUX DIGITAL TIMER DRAIN WITH INTEGRATED STRAINER

PART NUMBER	VOLTAGE	CONNECTION	PRICE
JORC2507	230 V AC	1/2"	£102.50
JORC2527	115 V AC	1/2"	£102.50
JORC2567	24 V AC	1/2"	£105.00
JORC2587	24 V DC	1/2"	£105.00

### SPECIFICATIONS

Maximum compressor capacity	Any size
Pressure range	0 – 16 bar (0 – 230 psi)
Supply voltage options	12 – 230 V AC / DC 50/60Hz. (please state)
Medium temperature	1 – 55°C
Ambient temperature	1 – 55°C
Timer cycle range (on / off)	0.01 second to 99 hours (both ON and OFF)
Timer PCB	SMD technology, ensuring consistency in production
Timer cycle indication	Bright LED illumination, clear LED display
Test feature	Yes
Valve type	2/2 way, direct acting
Valve orifice	4 mm
Valve seals	FPM
Inlet/outlet connections	1/4" & 1/2" (BSP or NPT) / 1/2" (BSP or NPT)
Inlet connection height	1 cm
Serviceable valve	Yes
Valve housing material	Brass
Power connection	DIN 43650-A
Environmental protection	IP65 (NEMA4)

## COMBO-D-LUX SERVICE KIT

### DESCRIPTION

Great care is taken to ensure long lasting components are selected and applied in our products. JORC products are designed in a way that makes servicing simple, quick and error free. Servicing JORC products is a cost effective way to recondition the products for many more years of draining service.

### FEATURES / BENEFITS

- High quality seals are applied, offering you long product life.
- Stainless steel inner parts, offering long life resistance against aggressive medium
- Service manuals are available, offering useful information and guidelines during routine maintenance activities
- All JORC products are designed for quick and easy servicing
- The service kits include all components that wear and tear in our products



7720

### COMBO-D-LUX SERVICE KIT

PART NUMBER	KIT CONTENTS	PRICE
JORC298114	1 x Valve incl. seals	£17.50



## UNBLOCKABLE MOTORISED BALL VALVE DRAINS

### DESCRIPTION

The TEC-44 is a microprocessor operated ball valve, designed to remove condensate from deliquescent dryers, rusty old tanks, vessels and refrigerated dryers. The TEC-44 is a powerful, timer controlled, motorised ball valve, designed to remove condensate from deliquescent dryers, tanks, vessels and refrigerated dryers. The TEC-44 is designed to remove heavy contaminated condensate up to pressure ratings of 40 bar. This condensate drain cannot be blocked and is applied where all else fails. Draining applications with a high level of contamination (rust, scale, etc.) require the TEC-44. The TEC-44 is impossible to block due to its powerful ball valve rotation and large orifice.

### FEATURES / BENEFITS

- Stainless steel ball valve, offering you crushing power
- Digital cycle display, offering you a visual display of drain status
- Large (full bore) 12 mm orifice, offering you a drain that cannot block
- Does not air-lock during operation
- For compressed air applications up to 40 bar
- Suitable for all types of compressed air systems with a high contamination of its condensate (rust, scale)
- TEST (micro-switch) feature
- Micro-processor controlled (high level of time cycle accuracy).
- Medium pressure up to 40 bar
- Remote control – optional



**New**

**TEC-44 UNBLOCKABLE MOTORISED BALL VALVE DRAIN** 7720

PART NUMBER	VOLTAGE	CONNECTION	PRICE
JORC4008	230 V AC	1/2" BSPP	£268.75
JORC4028	115 V AC	1/2" BSPP	£268.75

### SPECIFICATIONS

Max. compressor capacity	Any size
Pressure range	0 - 40 bar (0 – 600 psi)
Supply voltage options	24 V DC, 115 V AC and 230 V AC 50/60Hz. (please state)
Medium temperature	1 - 60 °C
Ambient temperature	1 - 55 °C
Timer cycle range (on / off)	7 seconds to 15 minutes ON / 4 minutes to 24 hours OFF
Actuator PCB	SMD technology, ensuring consistency in production
Timer cycle indication	Bright LED illumination, LED program indicator
Test feature	Yes
Valve type	2/2 way, motorised ball valve
Valve orifice	12 mm
Valve seals	FPM and Teflon
Inlet/outlet connections	1/2" (BSP or NPT)
Inlet connection height	1.0 cm
Serviceable valve	Yes
Valve housing material	Brass nickel plated, ball valve stainless steel
Power connection	Cable and plug
Environmental protection	IP65 (NEMA4)
Remote switch option	Yes

## OIL / WATER SEPARATORS

### DESCRIPTION

The SEPREMIUM 2 drops into its holding bracket (supplied as standard). Servicing involves disconnecting the inlet and outlet, removing the separator and placing the new unit in the holding bracket.

### FEATURES / BENEFITS

- Maximum compressor capacity 70 CFM (2 m<sup>3</sup>/min)
- High performance filtration materials applied
- Simple, fast and clean installation and maintenance procedure
- Successful separation of mineral oil, synthetic lubricants and stable emulsions
- Fixing bracket included for wall mounting
- Brass hose connections for quick and easy installation/servicing
- Operates with all JORC type drains (both timer controlled and level sensed)



**New**

**SEPREMIUM 2 DISPOSABLE OIL / WATER SEPARATOR** 7720

PART NUMBER	COMPRESSOR CAPACITY	ELEMENT OIL ADSORPTION	PRICE
JORC9602	70 CFM (2 m <sup>3</sup> /min)	2 litres	£125.00

### SPECIFICATIONS

Max. Compressor capacity	70 CFM (2 m <sup>3</sup> /min)
Max. Oil adsorption in the elements	2 litres
High performance white element	1
Activated carbon element	1
Inlet connection	1/2"
Outlet connection	1/2"
Test valve	Yes
Housing material	ABS
Housing colour	Black
Lid colour	Grey
Test kit included	Yes
Target oil residue output value	<10 ppm
Inlet and outlet hose pipe connectors	Included
Mineral lubricants	Yes
Synthetic lubricants	Yes
Stabile condensate emulsions	Yes
Polyglycol, Roto-Inject, Sigma Mol*	Yes
DIBt certificate	Yes, referred to as PURO-CT 2

**New**

### SERVICE UNIT WITHOUT BRACKET

7720

PART NUMBER	FOR USE WITH	PRICE
JORC9602WB	SEPREMIUM 2	£112.50

\*Please contact your distributor for special elements and / or 24 / 7 applications. Roto-Inject and Sigma Mol are registered trade names of producers of compressor lubricants.

## OIL / WATER SEPARATORS

### FEATURES / BENEFITS

- Separation of all types of compressor lubricants
- Compact design and small footprint, offering easy handling and flexible installation benefits
- Successful separation of mineral oil, synthetic lubricants and stable emulsions
- Clothing kit included



7720

**SEPREMIUM 3.5  
OIL / WATER SEPARATOR**

PART NUMBER	COMPRESSOR CAPACITY	ELEMENT OIL ADSORPTION	PRICE
JORC9603	125 CFM (3.5 m <sup>3</sup> /min)	4 litres	£325.00

### SPECIFICATIONS

Max. Compressor capacity	125 CFM (3.5 m <sup>3</sup> /min)
Max. Oil adsorption in the elements	4 litres
Brass inlet connection	1/2" (hose barb included)
Brass outlet connection	1/2" (hose barb included)
Test kit	Yes
Target output value	<10 ppm
Housing material	PE
Total recyclable	Yes
Housing colour	Black
Lid colour	Grey
DIBt certificate	Yes



7720

**New**

### SERVICE PACKS

PART NUMBER	FOR USE WITH	PRICE
JORC9609	SEPREMIUM 3.5	£127.75

### FEATURES / BENEFITS

- Lighter and easier replacement of elements
- Successful separation of mineral oil, synthetic lubricants and stable emulsions
- Multiple condensate inlets
- Alarm indicator
- Sample bottle and test drain for output testing/measuring the ppm value (indication)
- Operates with all JORC type drains (both timer controlled and zero air loss)

**\*Please contact your distributor for special elements and / or 24 / 7 applications. Roto-Inject and Sigma Mol are registered trade names of producers of compressor lubricants.**

### SPECIFICATIONS

High performance white element	2
Activated carbon element	
SEPREMIUM 5, 10, 20, 30	1
SEPREMIUM 60	2
Inlet connection	1/2" (2 off)
Outlet connection	1"
Test valve	Yes
Housing material	PE
Housing colour	Black
Lid colour	Grey
Alarm indicator	Yes
Element life indicator	Yes
Service drain for sectional draining	
SEPREMIUM 5	No
SEPREMIUM 10, 20, 30, 60	Yes (2 off)
Test kit included	Yes
Target oil residue output value	<10 ppm
Inlet and outlet hose pipe connectors	Included
Mineral lubricants	Yes
Synthetic lubricants	Yes
Stable condensate emulsions	Yes
Polyglycol, Roto-Inject, Sigma Mol*	Yes
DIBt certificate	Yes

**New**

**SEPREMIUM 5  
OIL / WATER SEPARATOR**



7720

PART NUMBER	COMPRESSOR CAPACITY	ELEMENT OIL ADSORPTION	PRICE
JORC9605	175 CFM (5 m <sup>3</sup> /min)	5 litres	£662.50

**New**

**SEPREMIUM 10  
OIL / WATER SEPARATOR**



7720

PART NUMBER	COMPRESSOR CAPACITY	ELEMENT OIL ADSORPTION	PRICE
JORC9610	350 CFM (10 m <sup>3</sup> /min)	10 litres	£837.50

**New**

### SERVICE PACKS

PART NUMBER	FOR USE WITH	PRICE
JORC9609	SEPREMIUM 5	£187.50



7720

**New**

### SERVICE PACKS

PART NUMBER	FOR USE WITH	PRICE
JORC96109	SEPREMIUM 10	£200.00



7720

## OIL / WATER SEPARATORS

Three

### FEATURES / BENEFITS

- Lighter and easier replacement of elements
- Successful separation of mineral oil, synthetic lubricants and stable emulsions
- Multiple condensate inlets
- Alarm indicator
- Sample bottle and test drain for output testing/measuring the ppm value (indication)
- Operates with all JORC type drains (both timer controlled and zero air loss)

### SPECIFICATIONS

High performance white element	2
Activated carbon element	
SEPREMIUM 5, 10, 20, 30	1
SEPREMIUM 60	2
Inlet connection	1/2" (2 off)
Outlet connection	1"
Test valve	Yes
Housing material	PE
Housing colour	Black
Lid colour	Grey
Alarm indicator	Yes
Element life indicator	Yes
Service drain for sectional draining	
SEPREMIUM 5	No
SEPREMIUM 10, 20, 30, 60	Yes (2 off)
Test kit included	Yes
Target oil residue output value	<10 ppm
Inlet and outlet hose pipe connectors	Included
Mineral lubricants	Yes
Synthetic lubricants	Yes
Stable condensate emulsions	Yes
Polyglycol, Roto-Inject, Sigma Mol*	Yes
DIBt certificate	Yes

New

### SEPREMIUM 20 OIL / WATER SEPARATOR



7720

PART NUMBER	COMPRESSOR CAPACITY	ELEMENT OIL ADSORPTION	PRICE
JORC9620	750 CFM (20 m³/min)	15 litres	£1125.00

New

### SERVICE PACKS



7720

PART NUMBER	FOR USE WITH	PRICE
JORC96209	SEPREMIUM 20	£362.50

New

### SEPREMIUM 60 OIL / WATER SEPARATOR



7720

PART NUMBER	COMPRESSOR CAPACITY	ELEMENT OIL ADSORPTION	PRICE
JORC9660	2500 CFM (60 m³/min)	50 litres	£2875.00

New

### SEPREMIUM 30 OIL / WATER SEPARATOR



7720

PART NUMBER	COMPRESSOR CAPACITY	ELEMENT OIL ADSORPTION	PRICE
JORC9630	1250 CFM (30 m³/min)	25 litres	£1437.50

New

### SERVICE PACKS



7720

PART NUMBER	FOR USE WITH	PRICE
JORC96609	SEPREMIUM 60	£850.00

New

### SERVICE PACKS



7720

PART NUMBER	FOR USE WITH	PRICE
JORC96309	SEPREMIUM 30	£487.50

\*Please contact your distributor for special elements and / or 24 / 7 applications. Roto-Inject and Sigma Mol are registered trade names of producers of compressor lubricants.

**COMPRESSED AIR CONDENSATE DISTRIBUTOR**

**DESCRIPTION**

Large compressor systems might require two or more oil/water separators to be installed to match the total compressor capacity of an installation. To connect the oil/water separators together and to ensure an even distribution of condensate into the oil/water separators, you require the DISTRIBUTOR. The DISTRIBUTOR ensures an equal distribution of the condensate into the oil/water separators and the elements are subsequently saturated evenly. The DISTRIBUTOR has two 1" condensate inlets and six 1/2" outlets with integrated ball valves, allowing you to connect two and up to six oil/water separators. To service the DISTRIBUTOR, simply loosen the 4 top screws and remove the lid. This will give you instant access to the inner working mechanism. The depressurising chamber ensures compressed air condensate depressurisation and the subsequent distribution into the oil/water separators. The DISTRIBUTOR is supplied with an installation kit.

**FEATURES / BENEFITS**

- Even distribution of condensate
- Installation kit included
- Easy to service

**SPECIFICATIONS**

Oil/water separator connection points	6
Condensate inlet thread connection	1" BSP (2 off)
Inlet hose connection	26 mm (hose inner diameter)
Condensate outlet thread connection	1/2" BSP (6 off)
Outlet hose connection	15 mm (hose inner diameter)
Integrated ball valves	Yes
Housing material	PP
Total recyclable	Yes
Housing colour	Black
Installation kit included	Yes
Installation kit consists of:	Wall mounting bracket and fixing material, spirit level



DISTRIBUTOR

7720

PART NUMBER	INLET CONNECTION	OUTLET CONNECTION	PRICE
JORC9520	1" BSP	1/2" BSP	£1875.00

**UPGRADE ELEMENTS**



HIGH PERFORMANCE ELEMENTS

7720

PART NUMBER	DESCRIPTION	PRICE
JORCKA	Upgrade KA-element	£62.50



POLYGLYCOL ELEMENTS

7720

PART NUMBER	DESCRIPTION	PRICE
JORCPG	Upgrade PG-element	£62.50