Filter/Regulator Stainless Steel Model B38 (Instrumentation)

1/4"PTF

Compact instrument units with high performance

Stable regulation with temperature compensation

Excellent flow and regulation characteristics

Panel Mounting facility

Designed for use in corrosive enviroments

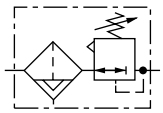
Metallic parts meet NACE Standard MR-01-75*

Lloyd's register type approval

Applications include marine enviroments, oil and gas production, chemical and food processing, medical analysis

Relieving or non relieving models. Relieving models allow reduction of outlet pressure even when the system is dead-ended

* National Association of Corrosion Engineers – recognised oil-field recommendation for resistance to sulphide stress cracking common in well-head and other corrosive environments



TECHNICAL DATA

Medium:
Compressed air only

Maximum inlet pressure:
17 bar (autodrain)
31 bar (manual drain)

Flow:
8 dm^3/s
Typical flow with 7 bar inlet pressure, 1 bar set pressure and 0.05 bar droop from set.

Weight:
1.4 kg

Gauge ports:
1/4"PTF

Relief port:
1/8"PTF

Ambient temperature:
-40°C to +80°C
Consult our Technical Service for use below +2°C

Particle removal:
5 µm or 25 µm filter element

Automatic drain connection:
1/4"PTF

Automatic drain operating conditions (float operated):
To close drain: Greater than 0.3 bar
To open drain: Less than 0,2 bar

Minimum air flow required to close drain 1dm^3/s

Materials

Body – Stainless steel

Bonnet – Stainless steel

Bowl – Stainless steel

Adjusting screw – Stainless steel

Elements: 5µm – Ceramic pyrolith, 25µm – High density polyethylene

Elastomeric materials – Synthetic rubber

Ordering information

To order a relieving type stainless steel filter/regulator with manual drain and panel nut, 0.3 to 7 bar outlet pressure range, 5 µm element and 1/4"PTF threads, quote: B38-244-M1KA.

Options selector

B38-24★-★★★A

Diaphragm	Substitute
Relieving with panel nut	4
Non relieving with panel nut	5

Drain	Substitute
Automatic	A
Manual – short bowl	B

Element	Substitute
5 µm	1
25 µm	2

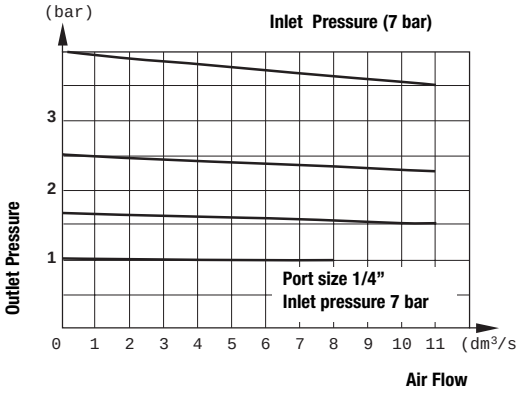
Outlet pressure adjustment range*	Substitute
0,04 ... 2 bar	C
0,07 ... 4 bar	F
0,25 ... 7 bar	K
0,50 ... 10 bar	M

* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

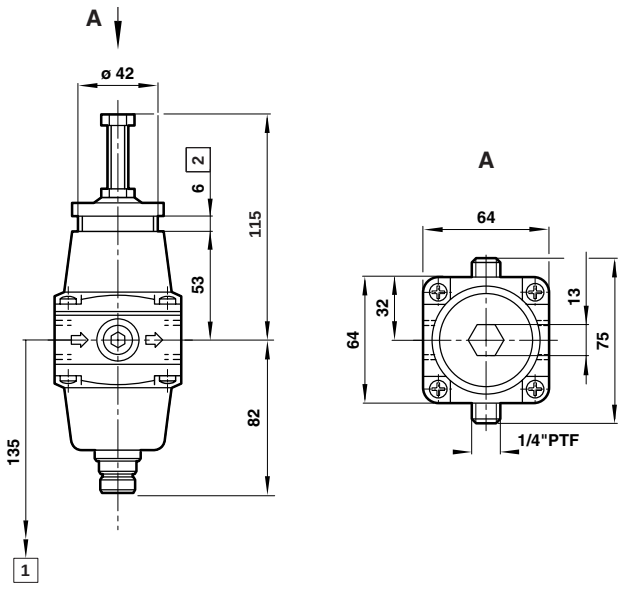
Accessories

Series	Neck mounting bracket	Gauge	Panel mounting	Plastic adjusting knob
				
B38	18-001-973 (includes panel nut)	18-013-909 (0-10bar)	5988-02 (Nut only)	74630-04
		18-013-913 (0-6bar)		

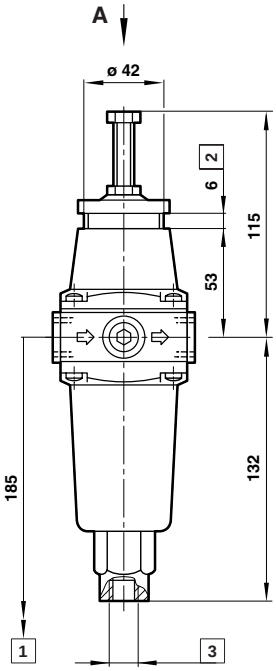
Flow characteristics



B38
Manual drain



B38
Automatic drain



1 **Minimum clearance required to remove bowl**

2 **Maximum panel thickness 6 mm**

3 **Connection 1/4"PTF**

Warning

IMI Norgren do not accept any responsibility or liability for complying with the provisions of the Medical Devices Directive (EC Directive 93/42/EEC) ("MDD") including, without limitation, the provisions relating to quality and control procedures. The customer is responsible for ensuring that the products comply with the MDD in all respects.

These products are intended for use in industrial compressed air and recommended fluids only. Do not use these products where pressures and temperatures can exceed those listed under 'Technical Data'.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult Norgren.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in event of such failure.

System designers must provide a warning to ends users in the system instruction manual if protection against a failure mode cannot be adequately provided. System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

Water vapour will pass through these units and will condense into liquid if air temperature drops in the downstream system. Install an air dryer if water condensation could have a detrimental effect on the application.