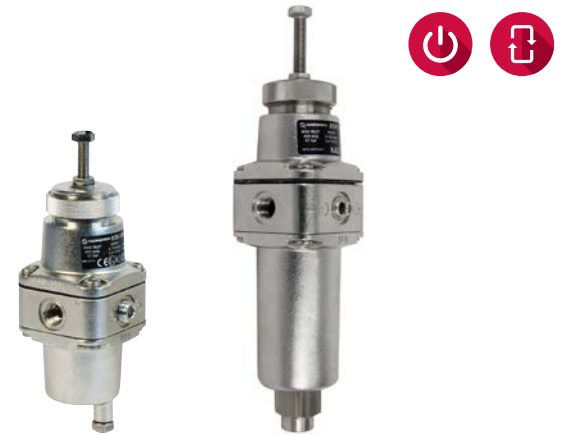


- > **Port size: 1/4 PTF**
- > **Designed for use in corrosive environments**
- > **Metallic parts meet NACE* Standard MR-01-75**
- > **Applications include marine environment, oil and gas production, chemical and food processing, medical analysis**
- > **Model for precision regulation and high flow**

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



Technical features

Medium:

Compressed air only

Maximum inlet pressure:

31 bar (449 psi) (manual drain)
17 bar (246 psi) (auto drain)

Outlet pressure range:

0,04 ... 2 bar (0,5 ... 29 psi)
0,07 ... 4 bar (1 ... 58 psi)
0,25 ... 7 bar (3,6 ... 101 psi)
0,4 ... 10 bar (5,8 ... 145 psi)

Element:

5 or 25 µm

Port sizes:

1/4 PTF
1/4 PTF (gauge), 1/8 PTF (relief)
1/4 PTF (automatic drain)

Drain:

Manual or automatic
Automatic drain operation conditions (float operated):
To close: > 0,3 bar,
To open: < 0,2 bar
Minimum air flow required to close 1 dm³/s

Ambient/Media temperature:

-40 ... +80°C (-40 ... +176 °F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35 °F).

Materials:

Body, bowl, bonnet & adjusting screw: stainless steel
Filter element: High density PUR (25 µm),
Stainless steel (5 µm)
Elastomers: Synthetic rubber

Technical data, standard models, relieving and panel nut

Symbol	Port size	Outlet pressure (bar)	Element (µm)	Flow * (dm ³ /s)	Drain	Weight (kg)	Model
	1/4 PTF	0,25 ... 7	25	8	Manual	1,4	B38-244-B2KA
	1/4 PTF	0,07 ... 4	25	8	Manual	1,4	B38-244-B2FA
	1/4 PTF	0,25 ... 7	25	8	Automatic	1,6	B38-244-A2KA
	1/4 PTF	0,07 ... 4	25	8	Automatic	1,6	B38-244-A2FA

* Typical flow with 7 bar inlet pressure, 1 bar set pressure and a 0,05 bar drop from set.

Option selector

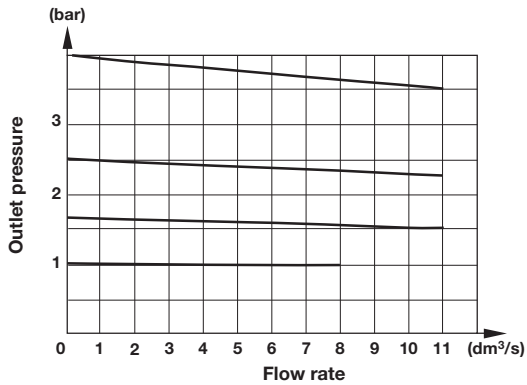
B38-24★-★★★★A

Diaphragm & mounting	Substitute	Outlet pressure adjustment ranges (bar)*	Substitute
Relieving	0	0,04 ... 2	C
Non-relieving	1	0,07 ... 4	F
Relieving with neck mounting bracket	2	0,25 ... 7	K
Non-relieving with neck mounting bracket	3	0,4 ... 10	M
Relieving with panel nut	4		
Non-relieving with panel nut	5		
		Element	Substitute
		5 µm	1
		25 µm	2
		Drain	Substitute
		Automatic - long bowl	A
		Manual - short bowl	B
		Manual - long bowl	M



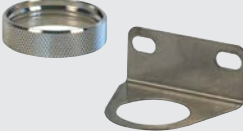


* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

Flow characteristics

Inlet pressure: 7 bar, filter element: 25 µm, port size: 1/4 PTF






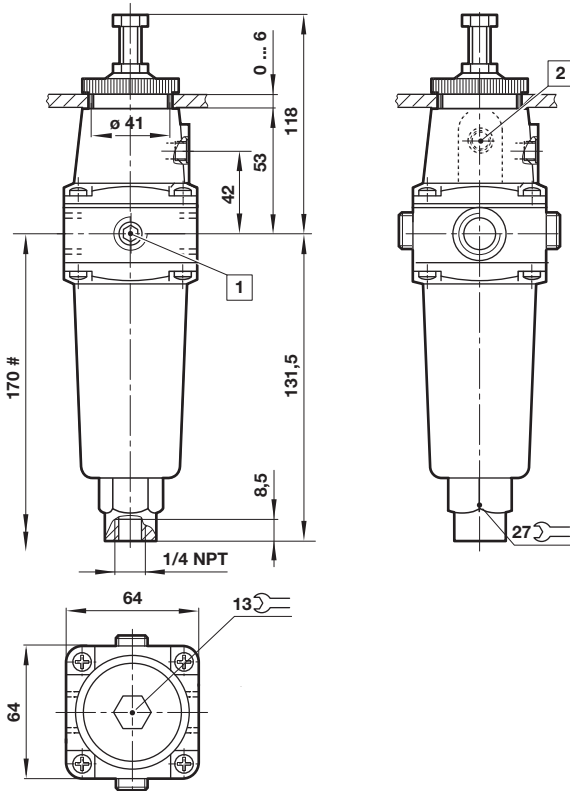
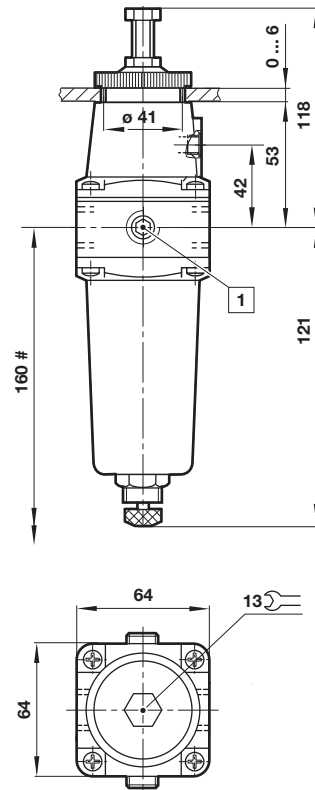
Accessories

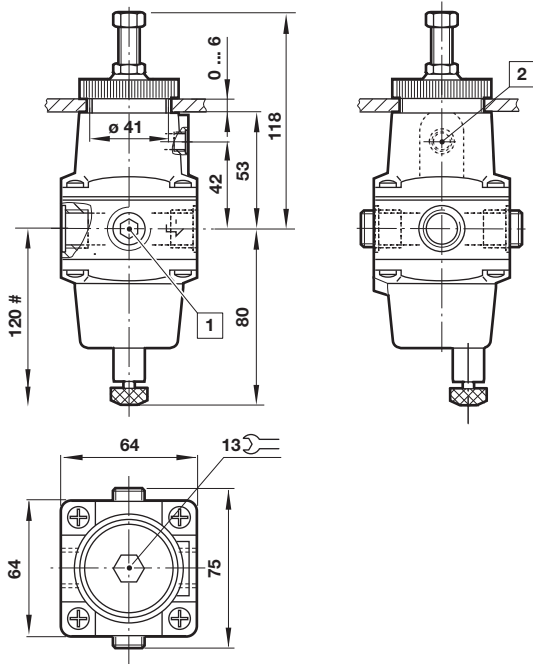
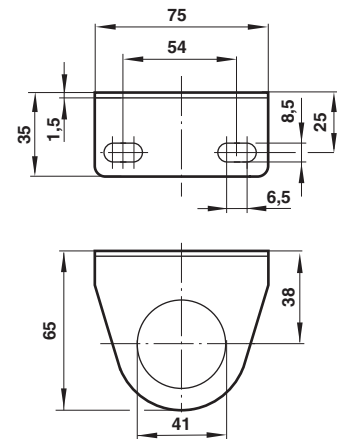
Panel nut	Neck mounting bracket	Neck mounting bracket	Gauge *1)	Plastic adjusting knob
				
5988-02	5989-02	18-001-973 (includes panel nut)	18-013-913 (0 ... 6 bar, -40 ... 65°C) 18-013-909 (0 ... 10 bar, -40 ... 65°C)	74630-04

*1) Stainless steel items not strictly to NACE standard MR-01-75.

Service kits

Filter element	Valve assembly and diaphragm	Drain kit
		
B38-100S(5) (5 µm element)	R38-100R (2 bar relieving)	3000-90 (automatic)
B38-100S(25) (25 µm element)	R38-101R (4 and 7 bar relieving)	
	R38-102R (10 bar relieving)	
	R38-100NR (2 bar non-relieving)	
	R38-101NR (4 and 7 bar non-relieving)	
	R38-102NR (10 bar non-relieving)	

Dimensions
Automatic drain

Manual drain, long bowl

 Dimensions in mm
 Projection/First angle

Manual drain, short bowl

Neck mounting bracket


Minimum clearance required to remove bowl

- 1 1/4 PTF Gauge port
- 2 1/8 PTF Relief port

Warning

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

»**Technical features/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 IMI 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 the event of such failure.

System designers must provide a warning to end users in the system instructional 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.