

B38

Precision filter/regulator (stainless steel)

- > Port size: 1/4 NPT
- > Designed for use in corrosive environments
- > Metallic parts meet **NACE* Standard** MR-01-75
- * National Association of Corrosion Engineers - recognised oil-field recommendation for resistance to sulphide stress cracking common in well-head and other corrosive
- > Applications include marine environment, oil and gas production, chemical and food processing, medical analysis
- > Model for precision regulation and high



Technical features

Medium:

Compressed air only

Maximum inlet pressure:

31 bar (450 psig) (manual drain) 17 bar (247 psig) (autodrain)

Outlet pressure range:

0,04 ... 2 bar (0,5 ... 29 psig) 0,07 ... 4 bar (1 ... 58 psig) 0,25 ... 7 bar (3.6 ... 102 psig) 0,4 ... 10 bar (5.8 ... 145 psig)

Element:

 $5 \text{ or } 25 \, \mu m$

Port sizes:

1/4 NPT 1/4 NPT (gauge) 1/8 NPT (relief) 1/4 NPT (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

Standard compliances:

II 2G Ex h IIC T6 Gb EX II 2D Ex h IIIC T85° Db

Ambient/Media temperature: -40 ... +80°C (-40 ... +176 °F)

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+36 °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

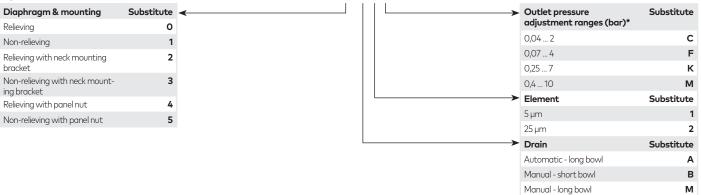
Symbol	Port size	Outlet pressure (bar)	Element (µm)	Flow * (dm³/s)	Drain	Weight (kg)	Model
	1/4 NPT	0,25 7	25	8	Manual	1,4	B38-244-B2KA
	1/4 NPT	0,07 4	25	8	Manual	1,4	B38-244-B2FA
	1/4 NPT	0,25 7	25	8	Automatic	1,6	B38-244-A2KA
	1/4 NPT	0,07 4	25	8	Automatic	1,6	B38-244-A2FA

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





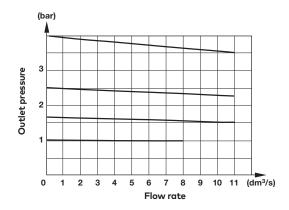
Option selector B38-24*-**A



^{*} 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 μ m, port size: 1/4 NPT



Accessories

Neck mounting bracket	Neck mounting bracket	Gauge *1)	Plastic adjusting knob
5989-02	18-001-973 (includes panel nut)	18-015-913 (0 6 bar, -40 65°C)	74630-04
		18-015-909 (0 10 bar, -40 65°C)	
			5989-02 18-001-973 (includes panel nut) 18-015-913 (0 6 bar, -40 65°C)

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

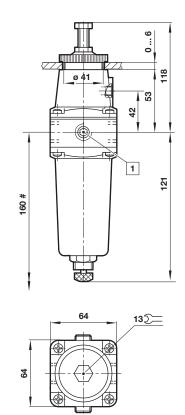
Sevice kits



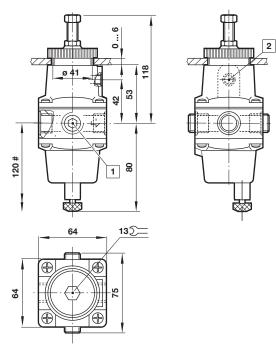


Dimensions Automatic drain

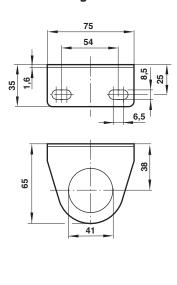
Manual drain, long bowl



Manual drain, short bowl



Neck mounting bracket



Minimum clearance required to remove bowl

1/4 NPT Gauge port

2 1/8 NPT Relief port

Dimensions in mm

Projection/First angle



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 Norgren Ltd.

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.