

Industrial Automation

IMI Norgren

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 environments
- Applications include marine environment, oil and gas production, chemical and food processing, medical analysis
- Model for precision regulation and high flow





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 or 25 µm

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:

(Ex) II 2G Ex h IIC T6 Gb 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

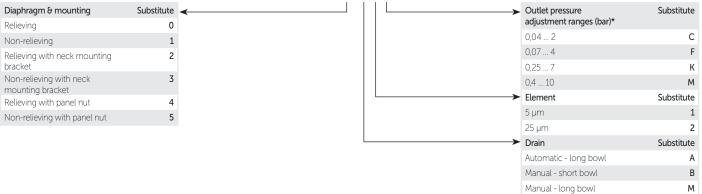
Symbol	Port size	Outlet pressure (bar)	Element (µm)	Flow * (dm ³ /s)	Drain	Weight (kg)	Model
	1/4 NPT	0,25 7	25	8	Manual	1,4	B38-244-B2KA
	1/4 NPT	0,07 4	25	8	Manual	1,4	B38-244-B2FA
	1/4 NPT	0,25 7	25	8	Automatic	1,6	B38-244-A2KA
	1/4 NPT	0,07 4	25	8	Automatic	1,6	B38-244-A2FA

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



Option selector

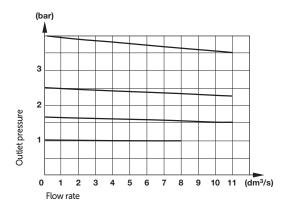
B38-24★-★★A



^{*} 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

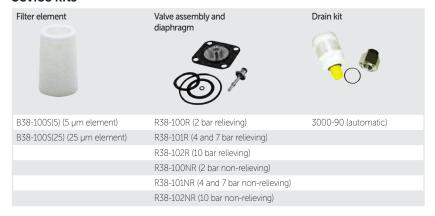


Accessories

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)

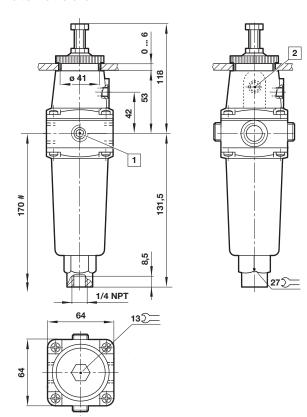
 $[\]star$ 1) Stainless steel items not strictly to NACE standard MR-01-75.

Sevice kits

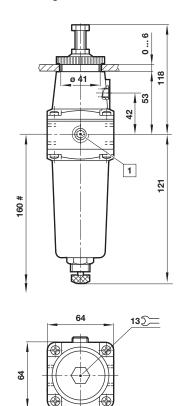




Dimensions Automatic drain



Manual drain, long bowl

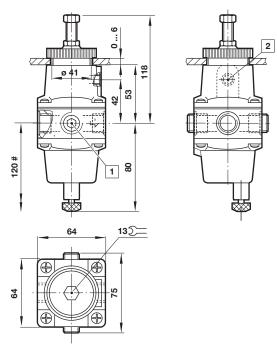


Dimensions in mm Projection/First angle

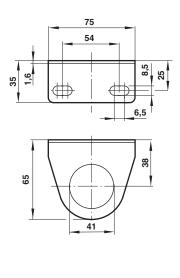




Manual drain, short bowl



Neck mounting bracket



Minimum clearance required to remove bowl 1 1/4 NPT Gauge port 2 1/8 NPT 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 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.