

# Miniature-Filter/regulator stainless steel 1/4" PTF

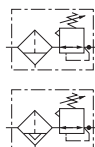
## Metallic parts meet NACE\*

Designed for use in corrosive environments

Adjusting knob has snap-action lock

Applications include marine environment, oil and gas production, chemical and industrial compressed air systems

\* National Association of Corrosion Engineers (NACE) MR-01-75) defines requirements for sulphide stress cracking resistant materials used in well-head and other corrosive environments.



## Technical features

### Medium:

Compressed air or neutral gases  
Other media on request

### Operating pressure:

20 bar (290 psi) max

### Pressure range:

0,3 ... 8,5 bar, 0,3 ... 3,5 bar  
(4,35 ... 123 psi, 4,35 ... 51 psi)

### Element:

5 or 40 µm

### Diaphragm:

Relieving or non-relieving

### Typical flow:

see below

### Gauge ports:

1/8 PTF

### Fluid/Ambient temperature:

-25 ... +66°C (-13 ... +151°F)

(Acetal bonnet)

-25 ... +80°C (-13 ... +176°F)

(T-handle)

- 40°C (-40°F) version on request

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

### Materials:

Body, valve and bowl: 1.4104 [316] stainless steel

Bonnet: 1.4104 [316] stainless steel with T-handle or Acetal

adjusting knob

Valve seat: Acetal

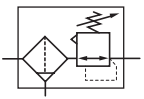
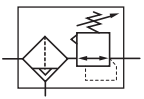
Springs: 1.4319 [302] stainless steel

Drain: stainless steel or Acetal

Element: sintered polypropylene

Elastomers: FPM, automatic drain NBR

## Technical data, standard models

Symbol	Port size	Pressure range (bar)	Flow * (dm³/s)	Diaphragm	Element (µm)	Bonnet type	Drain type (material)	Weight (kg)	Model
	1/4" PTF	0,3 ... 8,5	7	Relieving	5	Knob (Acetal)	Manual (Acetal)	0,38	B05-233-M1LA
	1/4" PTF	0,3 ... 8,5	7	Relieving	5	T-handle (stainless steel)	Manual (stainless steel)	0,54	B05-238-M1LA
	1/4" PTF	0,3 ... 8,5	7	Relieving	5	Knob (Acetal)	Automatic (stainless steel)	0,38	B05-233-A1LA

\* Flow with 5 µm element, 10 bar inlet pressure, 6,3 bar set pressure and 1 bar droop form set.

## Option selector

**B05-2★★-★★★A**

Bonnet	Substitute
Relieving, acetal knob	33
Non relieving, acetal knob	35
Relieving, stainless steel T-handle	38 *1)
Non-relieving, stainless steel T-handle	41 *1)
Drain	Substitute
Automatic (stainless steel)	A
Manual (Acetal)	M

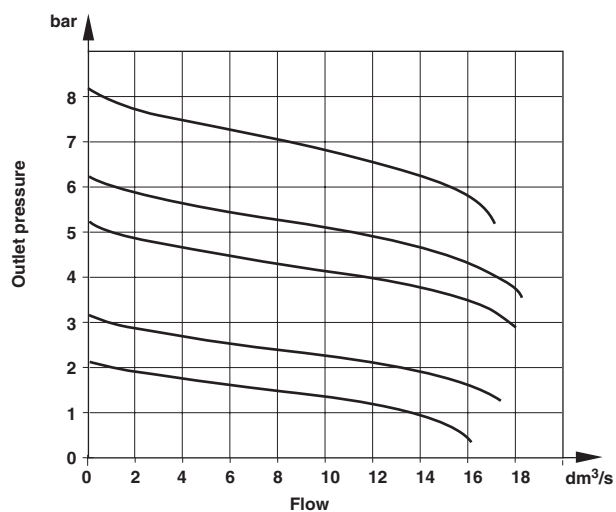
\*1) Options 38 and 41 have stainless steel manual drains as standard.

Outlet pressure adjustment ranges *	Substitute
0,3 ... 3,5 bar	E
0,3 ... 8,5 bar	L
Element	Substitute
5 µm	1
40 µm	2

\* 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.

## Air flow characteristics

B05 – Port size: 1/4 PTF, inlet pressure: 12 bar,  
pressure range: 0,3 ... 8,5 bar, 5 µm element



## Accessories

Panel nut



2962-89 (Acetal)

Gauge, 0 ... 10 bar,  
Ø 40 mm, Port size: 1/8 PTF



18-013-844 \*1)

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

## Spares kit

Service kit



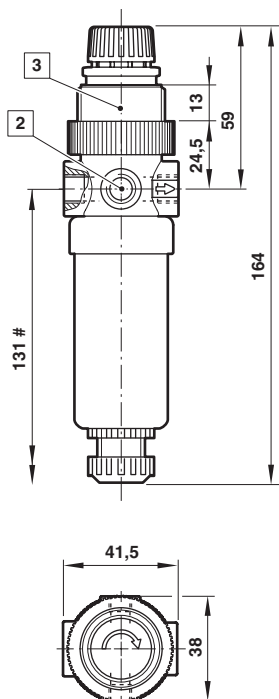
3820-08 (relieving)

3820-09 (non-relieving)

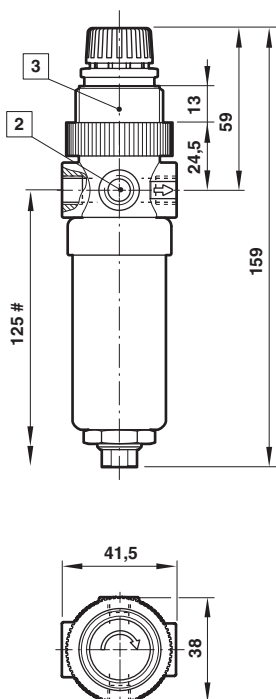
Dimensions shown in mm  
Projection/First angle



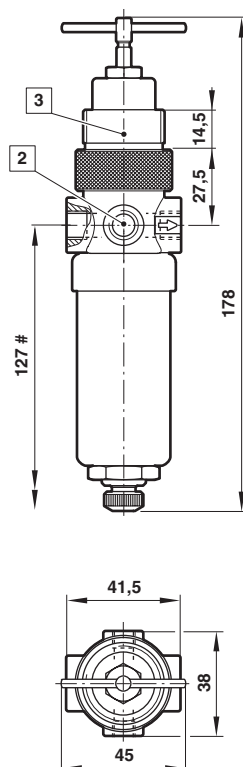
**Filter/Regulator  
with Acetal knob  
and manual drain**



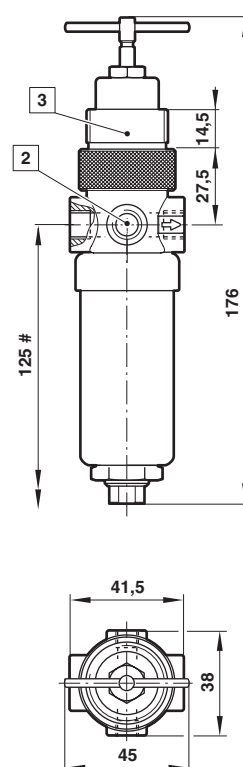
**Filter/Regulator  
with Acetal knob and  
automatic drain**



**Filter/Regulator  
with stainless steel  
T-handle and manual drain**



**Filter/Regulator  
with stainless steel  
T-handle and automatic  
drain**



# Minimum clear distance required  
to remove bowl.

2 Gauge port: 1/8 PTF, standard units  
are shipped with two plugs for  
sealing gauge ports.

3 Panel mounting hole diameter  
30 mm, Panel thickness 0 ... 6 mm

## 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**«.

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 pneumatic 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.