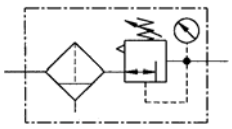
Precision filter regulator

778.82 to 778.85

G 1/4

0.1 to 2.0 bar
0.1 to 3.0 bar
0.2 to 5.0 bar



Characteristics

Order No.	778.82	778.83	778.85
Port	**G 1/4**		
Pressure gauge port	G 1/4		
Type of construction	Diaphragm pressure regulator with self-relieving design Centrifugal filter Sintered filter element		
Max. input pressure p_1	16 bar		
Control range p_2	0.1 to 2.0 bar / 0.1 to 3.0 bar / 0.2 to 5.0 bar		
Own air consumption	0.2 l/min, depending on secondary pressure		
Mounting position	Vertical, drain plug at bottom Entry in direction of arrow		
Filter element	Polyethylene, sintered		
Filter rating	10 µm		
Drain	Manual		
Mounting type	Bracket		
Medium temperature Ambient temperature	Max. 60°C Max. 60°C		
Weight [g]	975		

Materials

Part		Material
Head piece (body)		Zinc - Z 410
Adjusting screw		Stainless steel
Diaphragm	→	NBR-stainless steel
Pressure spring		Galvanised steel
Valve cone, cmpl.	→	NBR-stainless steel
Counter-pressure spring		Stainless steel
O-ring 52.07 x 2.62	→	NBR
Valve seat		Al
Filter element		Polyethylene
Filter holder		Al
Bowl		Zinc - Z 410

Accessories

Designation	Order No.
Mounting bracket with screws	H 820

Description

- Regulator containing **no non-ferrous metals**
- Double nipples (G 1/4) required for block mounting with other devices
- Pressure setting can be locked with lock nut
- Flow direction indicated by arrows
- **Entry in direction of arrow**
- Pressure gauge **not** included, can be mounted at both ends
- Panel mounting with nut on cover
- Wall mounting with mounting bracket on body

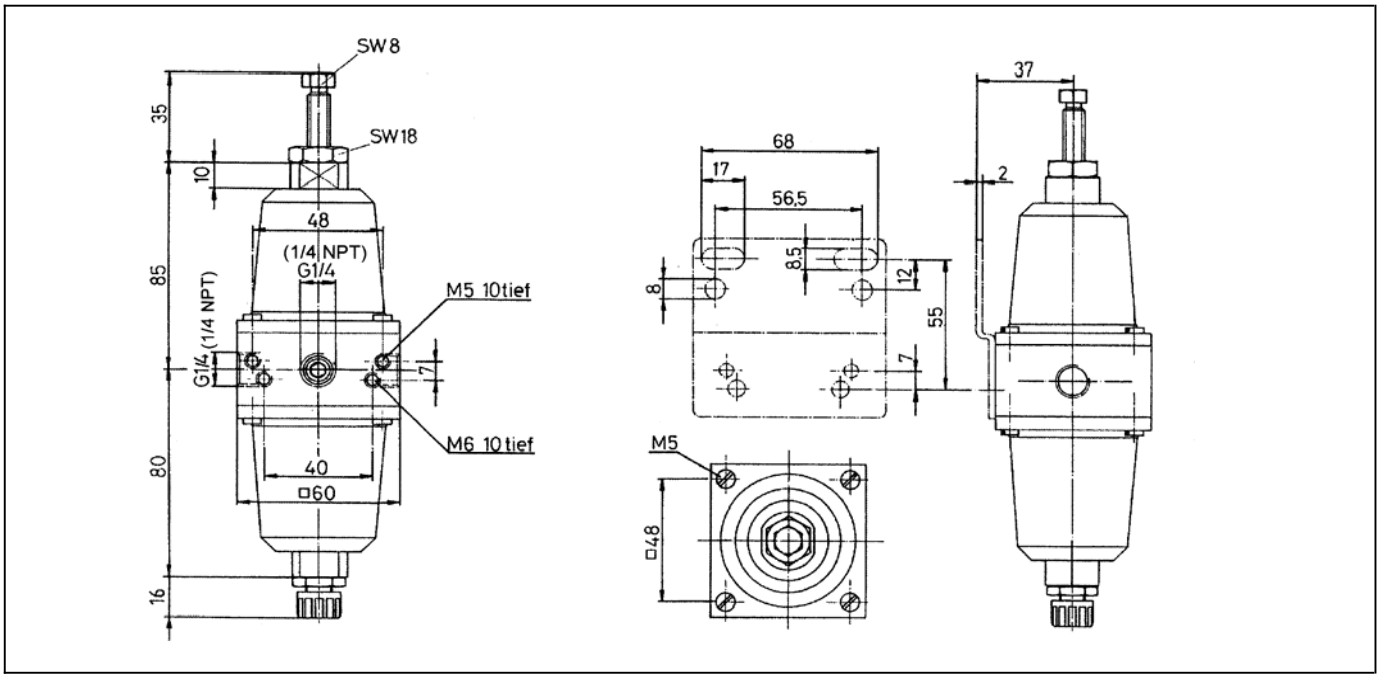
Applications

Precision regulator for use in open and closed-loop control systems in process engineering, the chemical industry, mineral oil production and refining, metallurgy, the paper industry, etc.

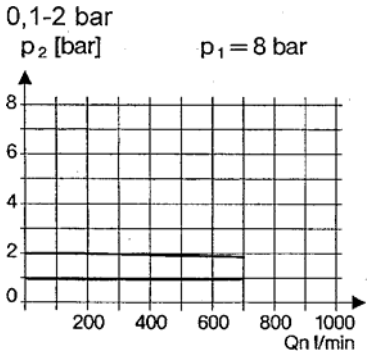
Main spare parts

Part	Part No.
→ **Set of wearing parts** - Diaphragm - Valve cone - Valve seat - O-ring 52.07 x 2.62	**22.662.4**

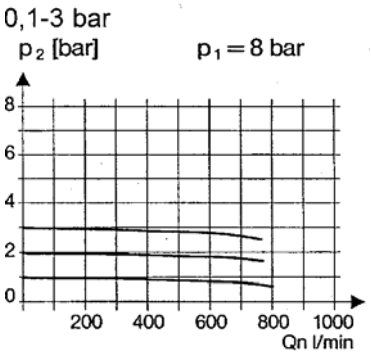
Dimensions [mm]



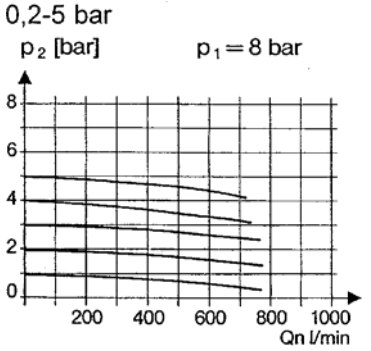
Flow characteristic



Flow characteristic



Flow characteristic



Hysteresis

Hysteresis of **p_2** as a function of rising (falling)
p_1 at a constant draw-off rate QN 20 l/min
Basic setting **(starting point)**: **p_1: 7.0 bar**
p_2: 2.0 bar