



Pressure regulating valve

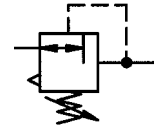
Size 0

480.11 to 480.23

G 1/8

G 1/4

0.10 to 3.5 bar
0.15 to 7.0 bar
0.50 to 10.0 bar



Characteristics

Order No.	480.11	480.12	480.13
Port	G 1/8		
Order No.	480.21	480.22	480.23
Port	G 1/4		
Pressure gauge port	G 1/8		
Type of construction	Diaphragm pressure regulator with self-relieving design		
Max. input pressure p ₁	25 bar		
Control range p ₂	0.1 to 3.5 bar / 0.15 to 7.0 bar / 0.5 to 10.0 bar		
Mounting position	Any / note direction of arrow		
Mounting type	Panel mounting, hole Ø30.5 Bracket		
Medium temperature	-10 °C to 60 °C		
Ambient temperature	-10 °C to 60 °C		
Weight [g]	140 / 220 with pressure gauge		

Description

- Standard design
- Double nipples (G1/8 or G1/4) required for block mounting with other devices
- Pressure setting can be locked by pushing the knob down
- Flow direction indicated by arrows
- **Entry in direction of arrow**
- Pressure gauge Ø40 included, can be mounted at both ends
- Panel mounting with nut on cover
- Wall mounting with nut and mounting bracket on cover

Materials

Part	Material
Head piece (body)	Zinc - Z 410
Spring bonnet/adjusting screw	POM
Diaphragm →	NBR-brass
Pressure spring	Galvanised steel
Valve cone →	NBR-brass
Counter-pressure spring	Stainless steel
O-ring 9 x 1.5 →	NBR
Valve seat	POM

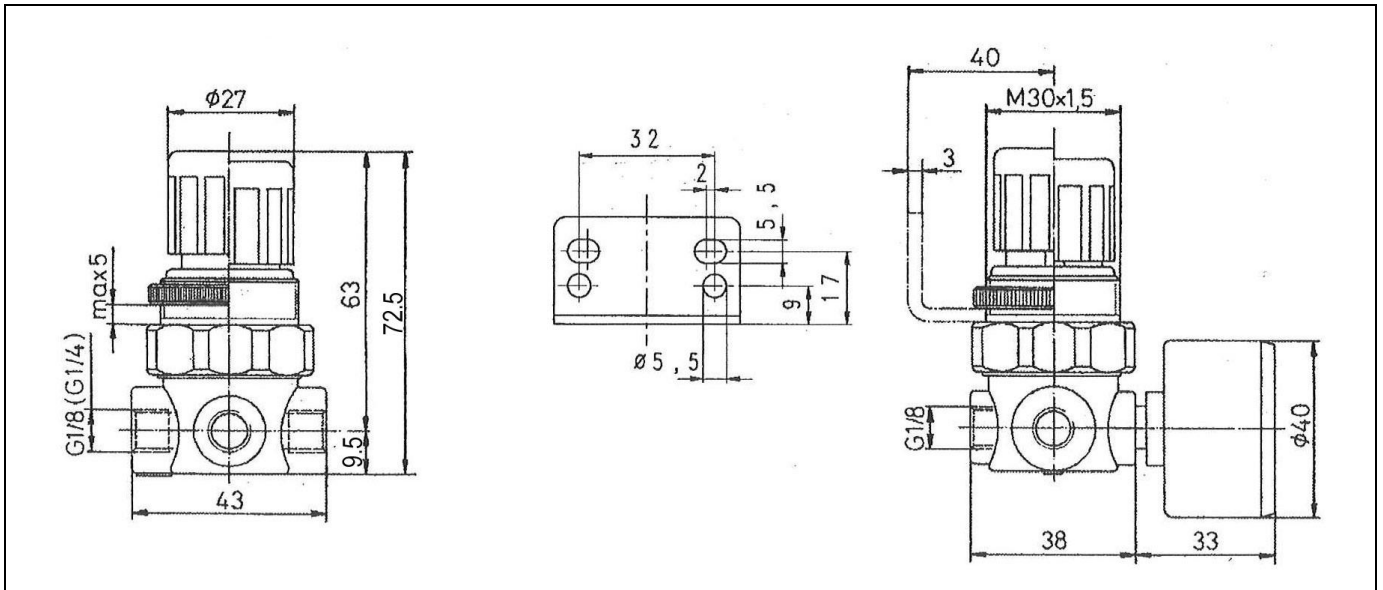
Accessories

Designation	Order No.
Nut M 30 x 1.5	R 11-55
Mounting bracket with nut	MV 30
Double nipple G 1/4	252.61
Double nipple G1/4 (conical)	252.301-N

Main spare parts

Part	Part No.
→ Set of wearing parts	22.480.4
- Diaphragm, compl.	
- Valve cone, compl.	
- O-ring 9 x 1.5	
Pr. gauge Ø 40, G 1/8	
0 to 4 bar	110.44-KD
0 to 10 bar	110.46-KD
0 to 16 bar	110.47-KD

Dimensions [mm]



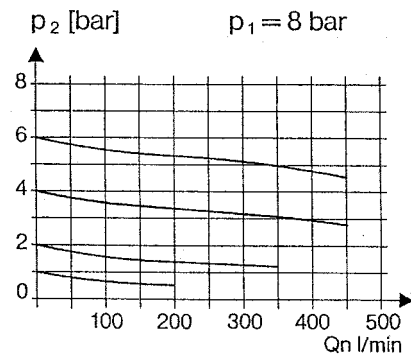
Flow rates

Flow rates at $p_1 = 8 \text{ bar}$

Art. No.		480.11	480.21
		480.12	480.22
		480.13	480.23
Output pressure $p_2 = 6 \text{ [bar]}$	QN m^3/h	20,4	20,4
Nominal flow ($\Delta p = 1 \text{ bar}$)	QN l/min	450	450

Flow characteristic

Control range 0.5 to 10 bar



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): $p_1: 7.0 \text{ bar}$
 $p_2: 2.0 \text{ bar}$

