



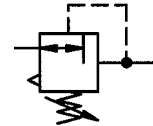
Pressure regulating valve

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	28 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 $\varnothing 30.5$ Bracket			
Medium temperature	Max. 60 °C			
Ambient temperature	Max. 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 $\varnothing 40$ 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-brass
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

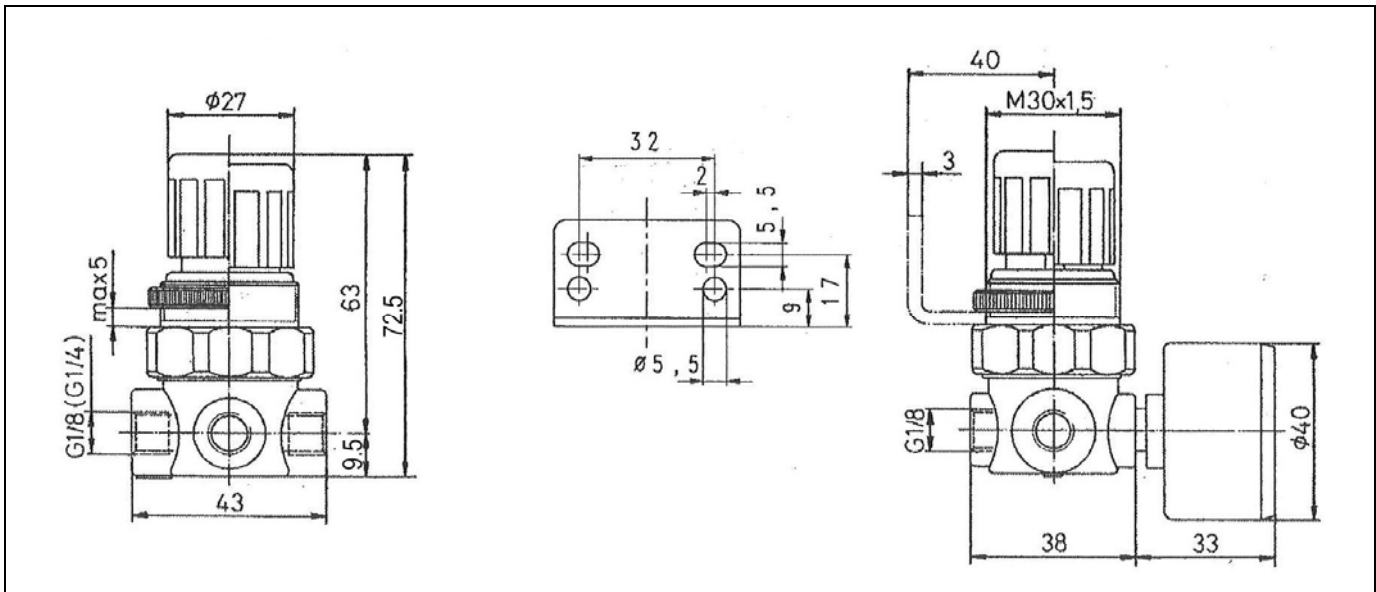
Accessories

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 - Diaphragm, compl. - Valve cone, compl. - O-ring 9 x 1.5	22.480.4
Pr. gauge $\varnothing 40$, 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]



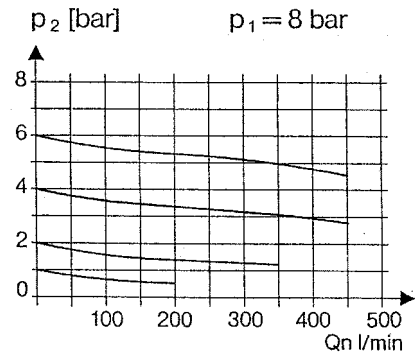
Flow rates

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	340	340

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 $Q_n 20 \text{ l/min}$

Basic setting (starting point): $p_1: 7.0 \text{ bar}$

$p_2: 2.0 \text{ bar}$

