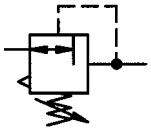
Pressure regulating valve

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 ∅30.5 Bracket		
Medium temperature Ambient temperature	Max. 60 °C 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 ∅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, cmpl. - Valve cone, cmpl. - O-ring 9 x 1.5	**22.480.4**
Pr. gauge ∅ 40, G 1/8 0 to 4 bar 0 to 10 bar 0 to 16 bar	 110.44-KD 110.46-KD 110.47-KD

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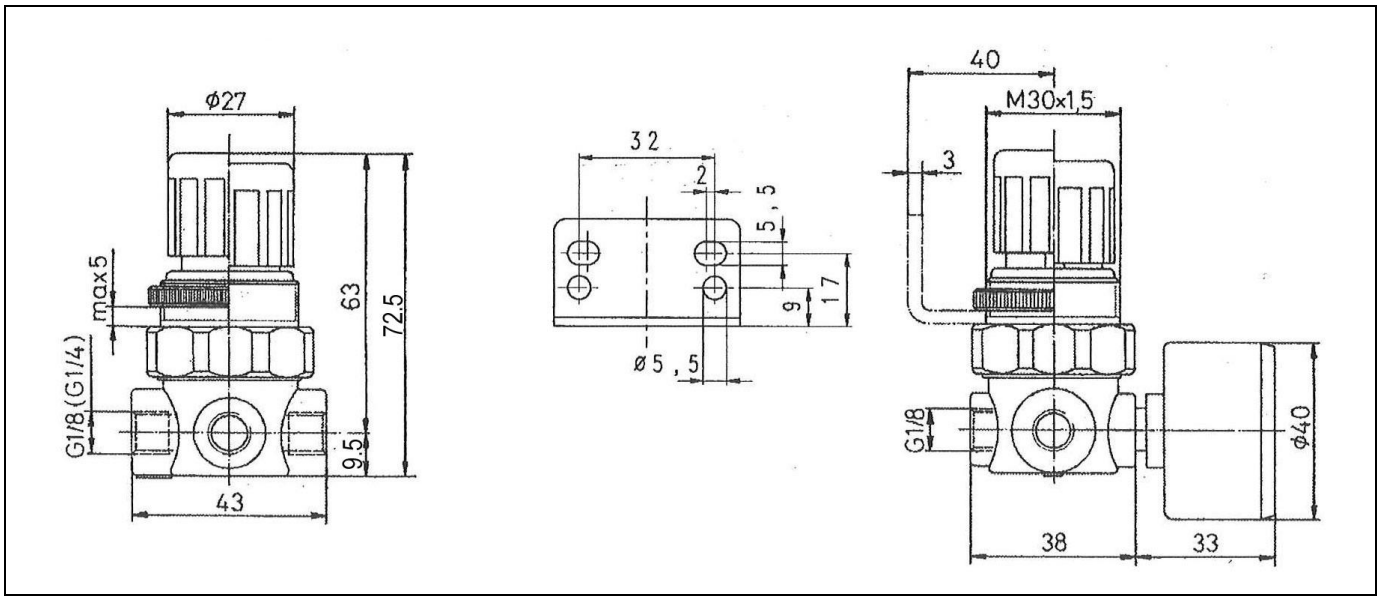
Dimensions [mm]



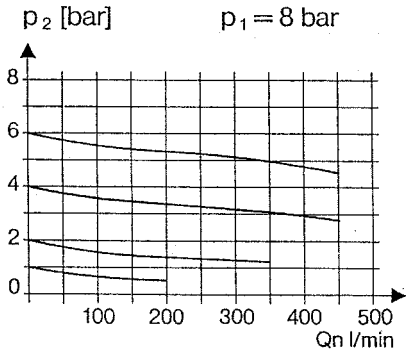
Flow rates

Flow rates at p_1 = **8 bar**

Art. No.		**480.11** **480.12** **480.13**	**480.21** **480.22** **480.23**
Output pressure p_2 = **6** [bar] Nominal flow (Δ_p = 1 bar)	QN m³/h QN l/min	20,4 340	20,4 340

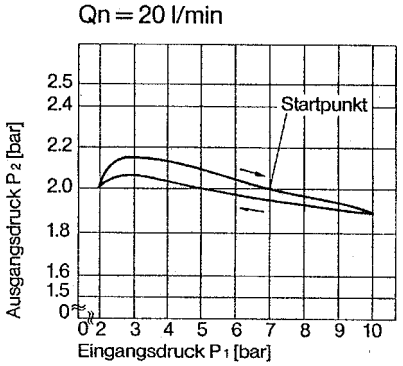
Flow characteristic

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 QN 20 l/min
Basic setting **(starting point)**: **p_1: 7.0 bar**
p_2: 2.0 bar



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