Pressure regulating valve

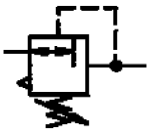
Size 1

637.10 A to 637.10 D
637.503 A to 637.503 D

G 1/4

637.20 A to 637.20 D
637.513 A to 637.513 D

G 3/8



Characteristics

Order No.	**637.20 A**	**637.20 B**	**637.20 C**	**637.20 D**
	637.503 A	**637.503 B**	**637.503 C**	**637.503 D**
Port	**G 3/8**			
Order No.	**637.10 A**	**637.10 B**	**637.10 C**	**637.10 D**
	637.513 A	**637.513 B**	**637.513 C**	**637.513 D**
Port	**G 1/4**			
Pressure gauge port	G 1/4			
Type of construction	Diaphragm pressure regulator with self-relieving design **Special versions on request** e.g. - Reverse flow port closed			
Max. input pressure p_1	**16** bar			
Control range p_2	0.5 to 3 bar (0.1 to 3 bar) / 0.5 to 6 bar (0.2 to 6 bar) / 0.5 to 10 bar /0.5 to 16 bar			
Mounting position	Any / **note direction of arrow**			
Mounting type	Panel mounting, hole ∅20.5 Bracket			
Medium temperature Ambient temperature	-10 to 60°C -10 to 80°C			
Weight [g]	500 / 550 with pressure gauge			

Description

- Standard design
- Double nipples (G 3/8 or G1/4) required for block mounting with other devices
- Pressure setting by means of adjusting screw with plastic knob, setting can be locked with lock nut
- Flow direction indicated by arrows
- **Entry in direction of arrow**
- Virtually independent of inlet pressure
- Pressure gauge ∅50 included, can be mounted at both ends
- Panel mounting with nut and washer on cover
- Wall mounting with mounting bracket on cover

Materials

Part	**Material**
Head piece (body)	Zinc - Z 410
Spring bonnet/adjusting screw	Zinc - Z 410/brass
Diaphragm ➔	NBR-brass
Pressure spring	Galvanised steel
Valve cone ➔	NBR-brass
Counter-pressure spring	Stainless steel
O-ring 24 x 2 ➔	NBR

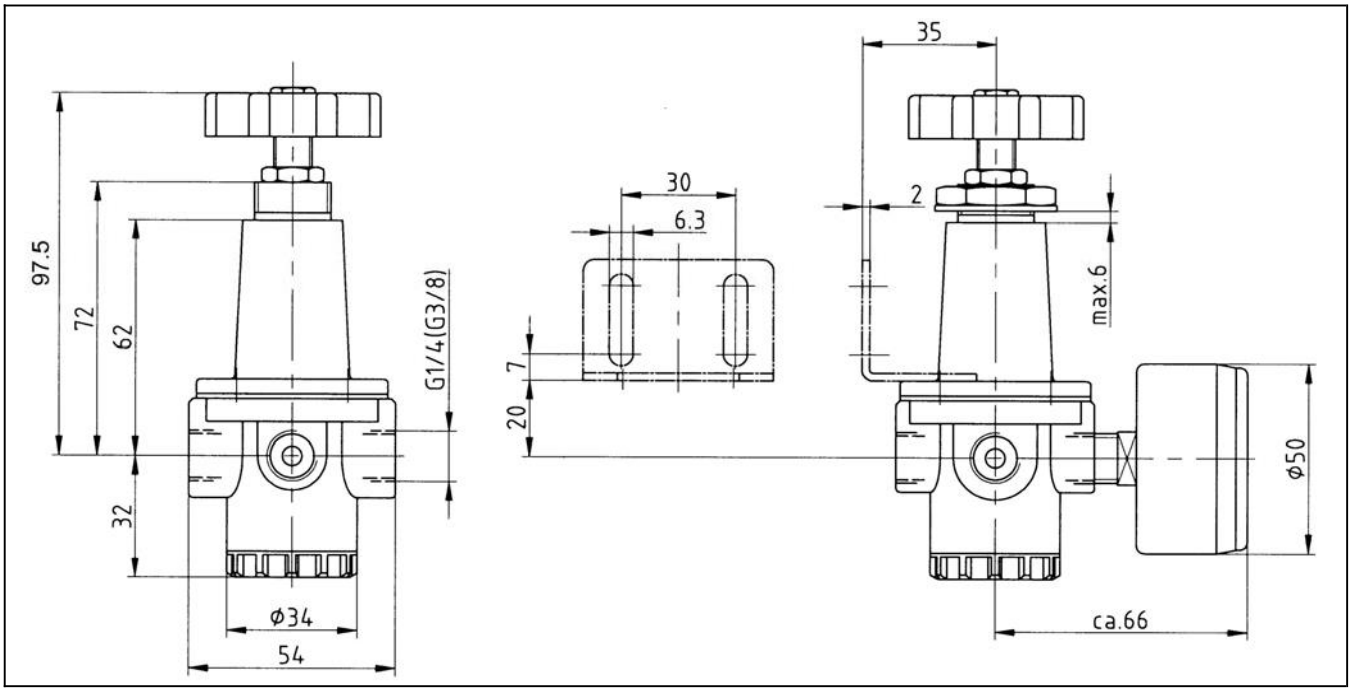
Main spare parts

Part	**Part No.**
➔ **Set of wearing parts** - Diaphragm, cmpl. - Valve cone, cmpl. - O-ring 24 x 2	**22.620.4**
Pr. gauge ∅50, G1/4 0 to 4 bar 0 to 10 bar 0 to 16 bar 0 to 25 bar	 204-KD 206-KD 207-KD 110.88-KDB

Accessories

Designation	**Order No.**
Nut M 20 x 1.5 and washer	74/1
Mounting bracket with nut and washer	75/1
Double nipple G 1/4	252.61
Double nipple G 3/8	MSN2523838
Double nipple G 1/4 (conical)	252.301-N
Double nipple G 3/8 (conical)	252.302-N

Dimensions [mm]



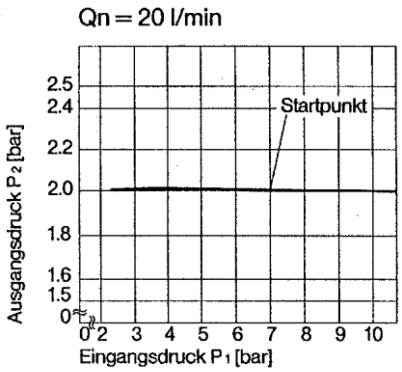
Flow rates

Flow rates at p_1 = **8 bar**

Output pressure p_2		**637.10 A 637.20 A 637.503 A 637.513 A**	**637.10 B 637.20 B 637.503 B 637.513 B**	**637.10 C 637.20 C 637.503 C 637.513 C**	**637.10 D 637.20 D 637.503 D 637.513 D**
Output pressure p_2 = **6** [bar]	QN m³/h	60	60	60	60
Nominal flow (Δp = 1 bar)	QN l/min	1000	1000	1000	1000

Hysteresis

Hysteresis of $\mathbf{p_2}$ as a function of rising (falling) $\mathbf{p_1}$ at a constant draw-off rate QN 20 l/min
Basic setting **(starting point)**: $\mathbf{p_1}$: **7,0 bar**
$\mathbf{p_2}$: **2.0 bar**



Flow characteristic

Control range 0.5 to 10 bar