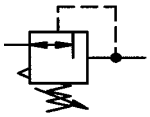
Pressure regulating valve

Size 3

637.40 A to 637.45 D
637.533 A to 637.543 D

G ¾ (red.) **G 1**

0.5 to 3 bar
0.5 to 6 bar (0.2 to 6 bar)
0.5 to 10 bar
0.5 to 16 bar



Characteristics

Order No.	**637.45 A**	**637.45 B**	**637.45 C**	**637.45 D**
	637.533 A	**637.533 B**	**637.533 C**	**637.533 D**
Port	**G 1**			
Order No.	**637.40 A**	**637.40 B**	**637.40 C**	**637.40 D**
	637.543 A	**637.543 B**	**637.543 C**	**637.543 D**
Port	**G 3/4** (reduced)			
Pressure gauge port	G 1/4			
Type of construction	Diaphragm pressure regulator with self-relieving design **Special versions on request**			
Max. input pressure p_1	25 bar			
Control range p_2	0.5 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	-10 to 60 °C			
Ambient temperature	-10 to 60 °C			
Weight [g]	1200 / 1300 with pressure gauge			

Description

- Standard design
- Double nipples (1") 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 ∅63 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-rings	NBR

Main spare parts

Part	**Part No.**
➔**Set of wearing parts** - Diaphragm, cmpl. - Valve cone, cmpl. - O-ring	**22.645.4 K**
Pr. gauge ∅63, G 1/4 0 to 4 bar 0 to 10 bar 0 to 16 bar 0 to 25 bar	 215-KD 217-KD 218-KD 219-KDB

Accessories

Designation	**Order No.**
Nut M 20 x 1.5 and washer	74/1
Mounting bracket, incl. 2 screws	H 822
Mounting kit	75/2
Double nipple G 1"	252.07/2-N
Double nipple R 1" (conical) for block mounting with other devices	252.305-N
Reducing nipple G 1" male to G 3/4" female	251.05-N

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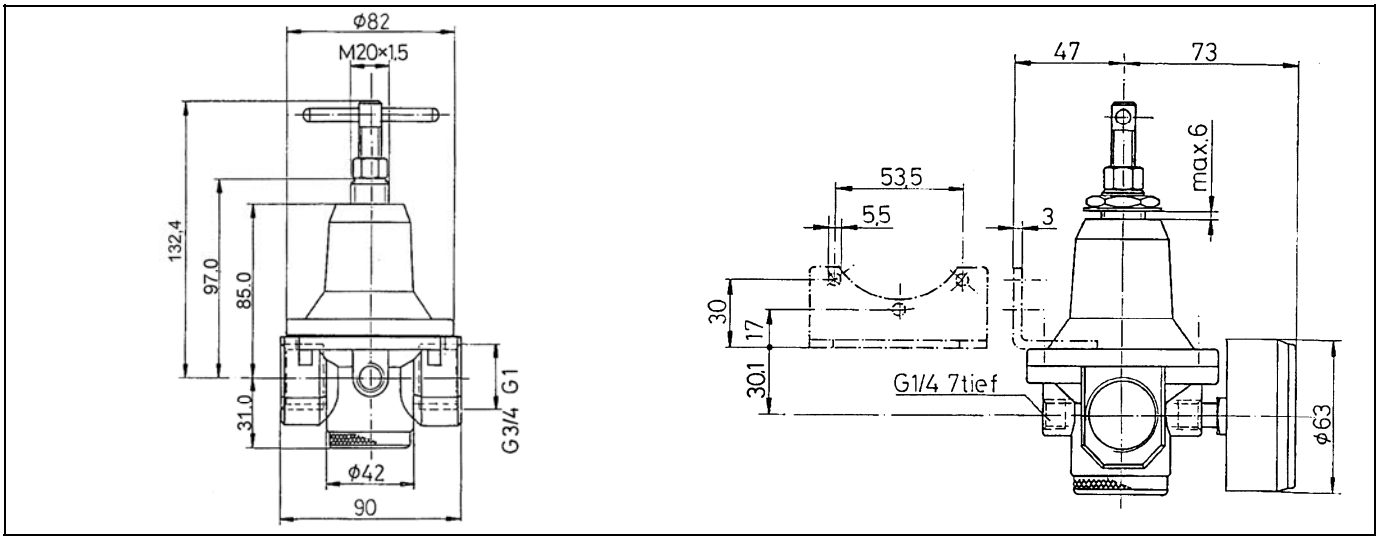
edition 02/2024

Dimensions



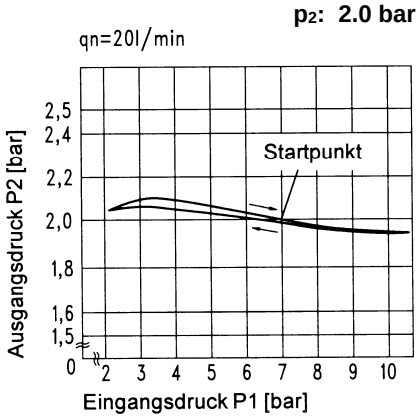
Flow rates

Flow rates at p_1 = **8 bar**

Art. No.		**637.40 A** **637.45 A** **637.533 A** **637.543 A**	**637.40 B** **637.45 B** **637.533 B** **637.543 B**	**637.40 C** **637.45 C** **637.533 C** **637.543 C**	**637.40 D** **637.45 D** **637.533 D** **637.543 D**
Output pressure p_2 = **6** [bar] Nominal flow (Δp = 1 bar)	QN m³/h QN l/min	300 5000	300 5000	300 5000	300 5000

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



Flow characteristic

Control range 0.5 to 10 bar