



Precision pressure regulator

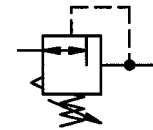
- Pneumatic remote control
- High relieving capacity

637.603

G 1/2

External pilot regulator 637.92 to 637.94

Control range 0.05 to 7 bar (max. 10 bar)



Characteristics

Order No.	637.603
Port	1/2
Relief port	G 3/8
Control air port	G 1/8
Pressure gauge port	G 1/4
Medium	Compressed air, filtered 0.01 µm, oil-free
Type of construction	Diaphragm pressure regulator with self-relieving design
Max. input pressure p ₁	16 bar
Max. pilot pressure	10 bar; 7 bar recommended
Own air consumption at input pressure	< 6 l/min p ₁ = 16 bar
Mounting position	Any / note direction of arrow
Mounting type	Panel mounting, hole Ø20.5
Medium temperature	Max. 60°C
Ambient temperature	Max. 60°C
Weight [g]	1500

Description

- Double nipples (G1/4) required for block mounting with other devices
- Pressure setting can be locked with lock nut
- Flow direction indicated by arrows
- **Entry in direction of arrow**
- Pressure gauge **not** included, can be mounted at both ends
- Panel mounting with nut on cover
- Wall mounting with mounting bracket on body

Operation

- **The regulator is only allowed to be operated with micro-filtered air (filter rating 0.01 µm) (Section 1)**

Materials

Part	Material
Head piece (body)	Zinc - Z 410
Control diaphragm	Z 410-NBR-stainless steel
Pilot diaphragm	NBR-brass
Fixed restrictor	Stainless steel
Valve cone, compl.	NBR-brass
Counter-pressure spring	Stainless steel
Bottom screw	Brass-NBR

Accessories

Designation	Order No.
Mounting bracket	H 822
Panel nut	252 R

Applications

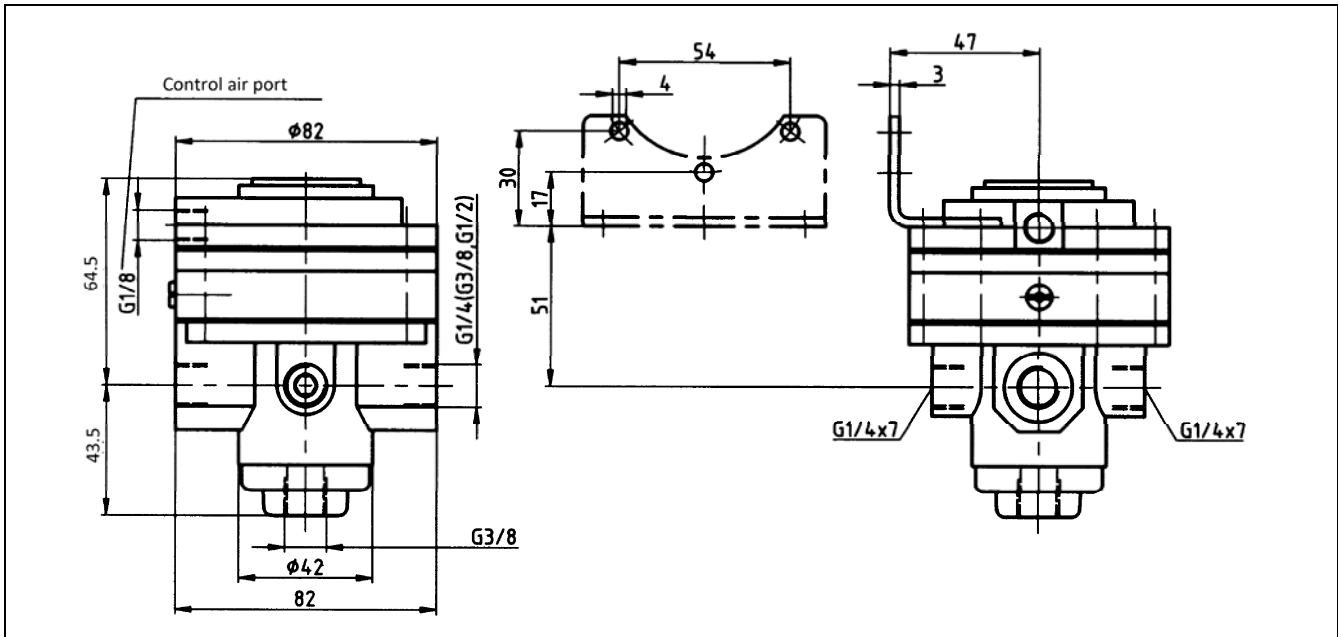
Precision regulator for use in open and closed-loop control systems in process engineering, the chemical industry, mineral oil production and refining, metallurgy, the paper industry, etc.

Main spare parts

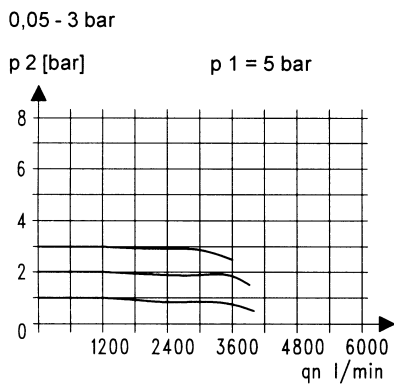
No spare parts can be supplied.

Regulator 637.603 is only allowed to be opened and repaired in the factory.

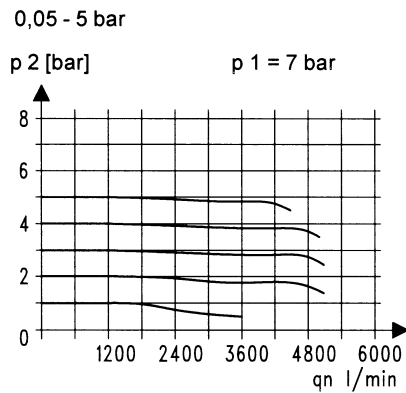
Dimensions [mm]



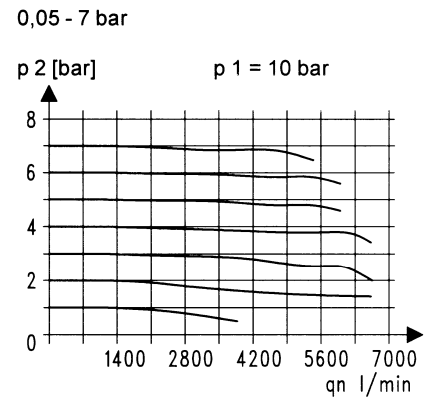
Flow characteristic



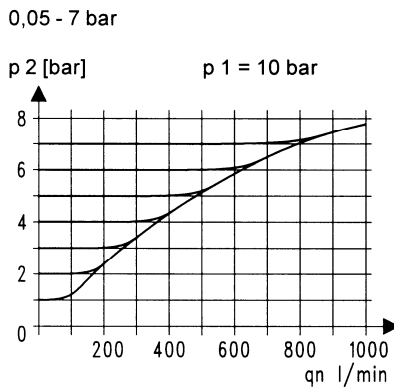
Flow characteristic



Flow characteristic



Relief characteristic



Hysteresis

Hysteresis of p_2 as a function of rising (falling) p_1 at a constant draw-off rate Q_N 20 l/min
 Basic setting (starting point): p_1 : 7.0 bar
 p_2 : 2.0 bar

