



## Precision pressure regulator

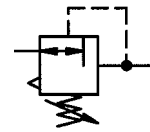
- Pneumatic remote contr
- High relieving capaci

### 637.603

G 1/2

External pilot regulator 637.92 to 637.94

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



### Characteristics

<b>Order No.</b>	<b>637.603</b>
<b>Port</b>	<b>1/2</b>
Relief port	G 3/8
Control air port	G 1/8
Pressure gauge port	G 1/4
Medium	<b>Compressed air, filtered 0.01 µm, oil-free</b>
Type of construction	Diaphragm pressure regulator with self-relieving design
Max. input pressure $p_1$	16 bar
Max. pilot pressure	10 bar; <b>7 bar recommended</b>
<b>Own air consumption at input pressure</b>	<b>&lt; 6 l/min</b> $p_1 = 16 \text{ bar}$
Mounting position	Any / <b>note direction of arrow</b>
Mounting type	Panel mounting, hole $\varnothing 20.5$
Medium temperature	-35 to 60 °C
Ambient temperature	-35 to 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, cmpl.	NBR-brass
Counter-pressure spring	Stainless steel
Bottom screw	Brass-NBR

### Accessories

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

### Applications

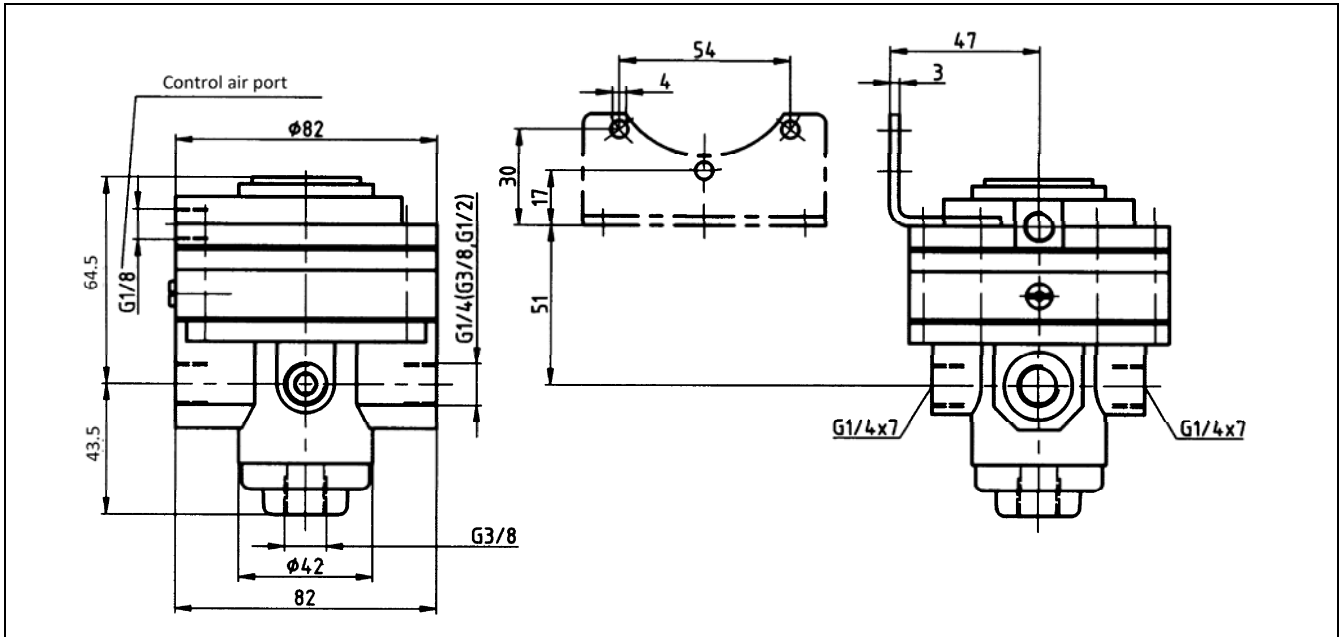
Precision regulator for use in open and closed-loop control systems in process engineering, the chemical industry, mineral oil production and refining, metallurgy, the paper industry, etc.

### Main spare parts

**No spare parts can be supplied.**

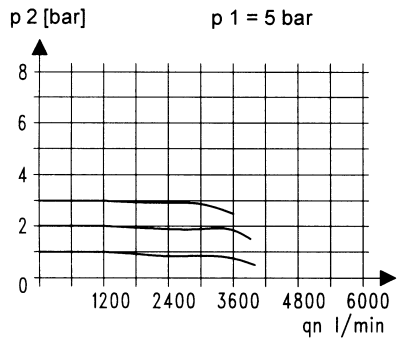
**Regulator 637.603 is only allowed to be opened and repaired in the factory.**

### Dimensions [mm]



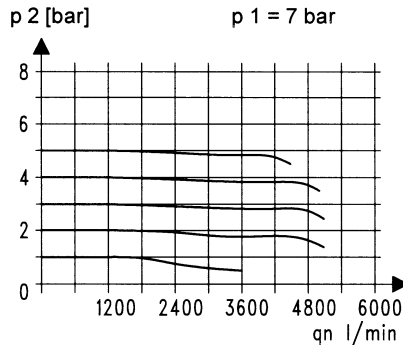
### Flow characteristic

0,05 - 3 bar



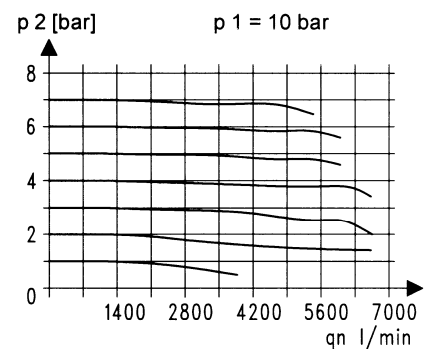
### Flow characteristic

0,05 - 5 bar



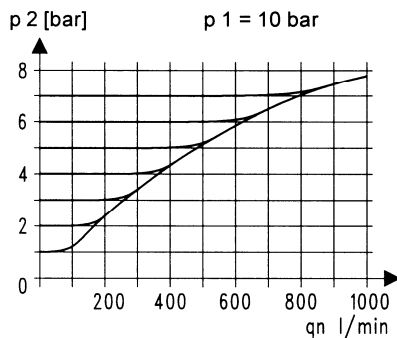
### Flow characteristic

0,05 - 7 bar



### Relief characteristic

0,05 - 7 bar



### 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

