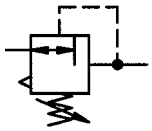
Precision pressure regulator

637.92 to 637.94

G 1/4

0.05 to 2.0 bar
0.05 to 4.0 bar
0.05 to 7.0 bar



Characteristics

Order No.	637.92	637.93	637.94
Port	**G 1/4**		
Pressure gauge port	G 1/8		
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		
Control range p_2	0.05-2.0 bar	0.05-4.0 bar	0.05-7.0 bar
Own air consumption at input pressure	< 2.2 l/min	< 3.0 l/min	< 4.1 l/min
	p_1 = 5 bar	p_1 = 7 bar	p_1 = 10 bar
Mounting position	Any / **note direction of arrow**		
Mounting type	Panel mounting, hole ∅12.5		
Medium temperature	-10 to 60 °C		
Ambient temperature	-10 to 60 °C		
Weight [g]	600		

Materials

Part	Material
Head piece (body)	Zinc - Z 410
Adjusting screw	Stainless steel
Double diaphragm	NBR-Al
Pilot diaphragm	NBR-Al-St
Fixed orifice	Stainless steel
Pressure spring	Galvanised steel
Valve cone, cmpl.	NBR-stainless steel-brass
Counter-pressure spring	Stainless steel
Bottom screw	Brass-NBR
Rubber spring	NBR

Accessories

Designation	Order
Mounting bracket	638.00

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

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.

Operation

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

Main spare parts

No spare parts can be supplied.

Regulators 637.92 to 637.94 are only allowed to be opened and repaired in the factory.

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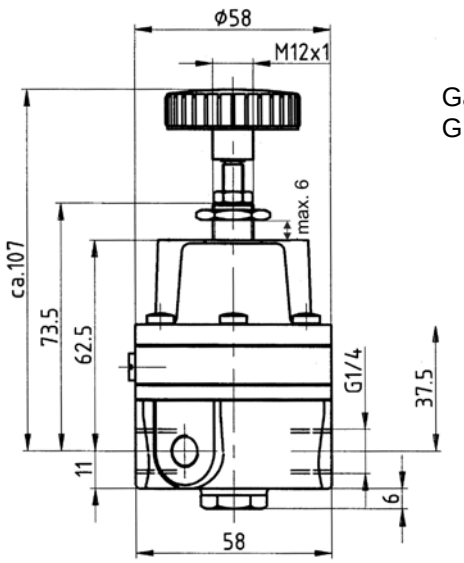
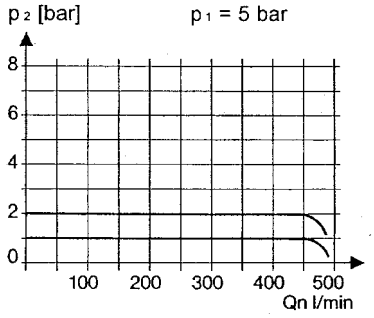
Dimensions [mm]



Gauge-connection thread
G 1/8 female

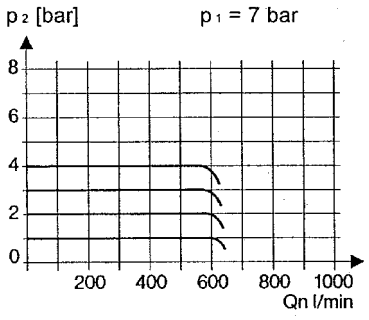
Flow characteristic

0,05 - 2 bar



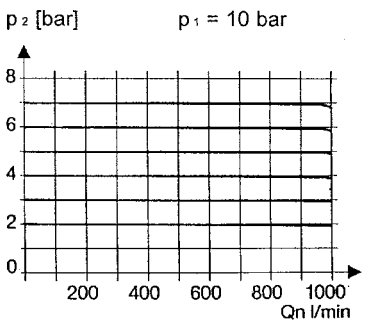
Flow characteristic

0,05 - 4 bar



Flow characteristic

0,05 - 7 bar



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**