





# Precision pressure regulators

without air consumption

637.71 ... 637.74

G 1/4

0.1 to 1.0 bar

0.1 to 3.0 bar

0.5 to 6.0 bar

0.5 to 10.0 bar



### **Characteristics**

Order No.	637.71	637.72	637.73	637.74
Connection thread	G 1/4			
Gauge port size	G 1/4			
Type of construction	Diaphragm pressure regulator with self-relieving design			
Max. input pressure p <sub>1</sub> [bar]	16 bar			
Control range p <sub>2</sub> [bar]	0.1 to 1.0	0.1 to 3.0	0.2 to 6.0	0.5 to 10.0
Medium temperature [°C]	Max. 80			
Ambient temperature [°C]	Max. 80			
Mounting type	Panel mounting, hole Ø20.5 Bracket			
Weight [g]	788 (without gauge)			

### **Operation**

- Air purity class 1 to ISO 8573-1

### **Materials**

Part	Material
Head piece	Zinc – Z 410
Spring bonnet	Zinc – Z 410
Diaphragm	FPM
Valve cone, cmpl.	FPM
Pressure spring	Galvanised steel
Counter-pressure spring	Stainless steel
O-ring 16 x 2	NBR
Bottom screw	POM

### Accessories

Designation		Order No.
Mounting bracket Pressure gauge (optional)	0 to 1.6 bar 0 to 6.0 bar 0 to 10.0 bar	210-ND

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### **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 housing
- Connection thread to ISO 228

### **Applications**

- Precise preselection of working pressure
- Control range with high resolution, for use in pneumatic and compressed air applications

### Standards and directives

98/37/EC (PED)	Scope: Art. 3, Section 3 Unmarked (acc. to Annex II, Diagram 2, Art. 3, Section 3 is applicable)
RoHS	Not applicable
ISO 4414	(Pneumatic fluid power – General rules and safety requirements for systems and their components)

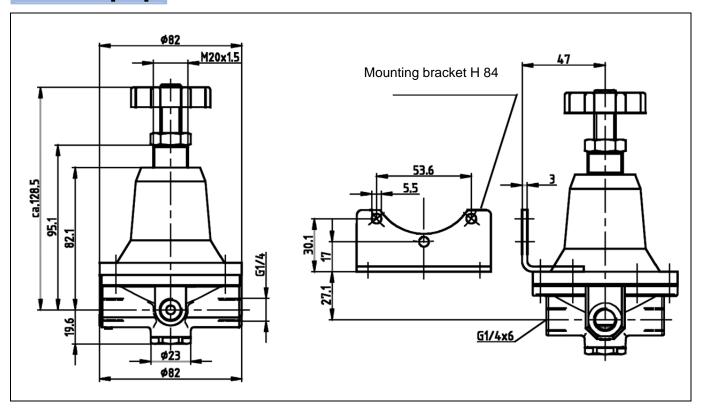
### Main spare parts

On request
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## **Compressed air conditioning**



### **Dimensions** [mm]

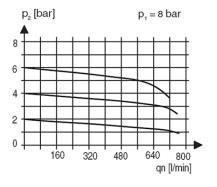


### Flow characteristic

# Regelbereich 0 - 1 bar p<sub>2</sub> [bar] p<sub>1</sub> = 8 bar 1,0 0,8 0,6 0,4 0,2 0 160 320 480 640 800 qn [l/min]

### Flow characteristic

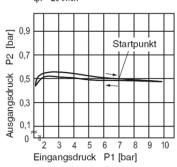
Regelbereich 0,5 - 6 bar



### **Hysteresis**

Hysteresis of  $\mathbf{p_2}$  as a function of rising (falling)  $\mathbf{p_1}$  with a constant draw-off quantity QN 20 l/min Basic setting (starting point):  $\mathbf{p_1}$ : 7.0 bar /  $\mathbf{p_2}$ : 2.0 bar

Regelbereich 0 - 1 bar qn = 20 l/min



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Regelbereich 0,5 - 6 bar qn = 20 l/min

