



Precision pressure regulators

without air consumption

101229 ... 101232

G 1/4

0.1 to 1.0 bar

0.1 to 3.0 bar

0.2 to 6.0 bar

0.5 to 10.0 bar



Characteristics

| Order Article No. | 101229 | 101230 | 101231 | 101232 |
|--|---|------------|------------|-------------|
| Order Type 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 ₁ [bar] | 16 bar | | | |
| Control range p ₂ [bar] | 0.1 to 1.0 | 0.1 to 3.0 | 0.5 to 6.0 | 0.5 to 10.0 |
| Medium temperature [°C] | -10 to 60 | | | |
| Ambient temperature [°C] | -10 to 60 | | | |
| 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, compl. | FPM |
| Pressure spring | Galvanised steel |
| Counter-pressure spring | Stainless steel |
| O-ring 16 x 2 | NBR |
| Bottom screw | POM |

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) |

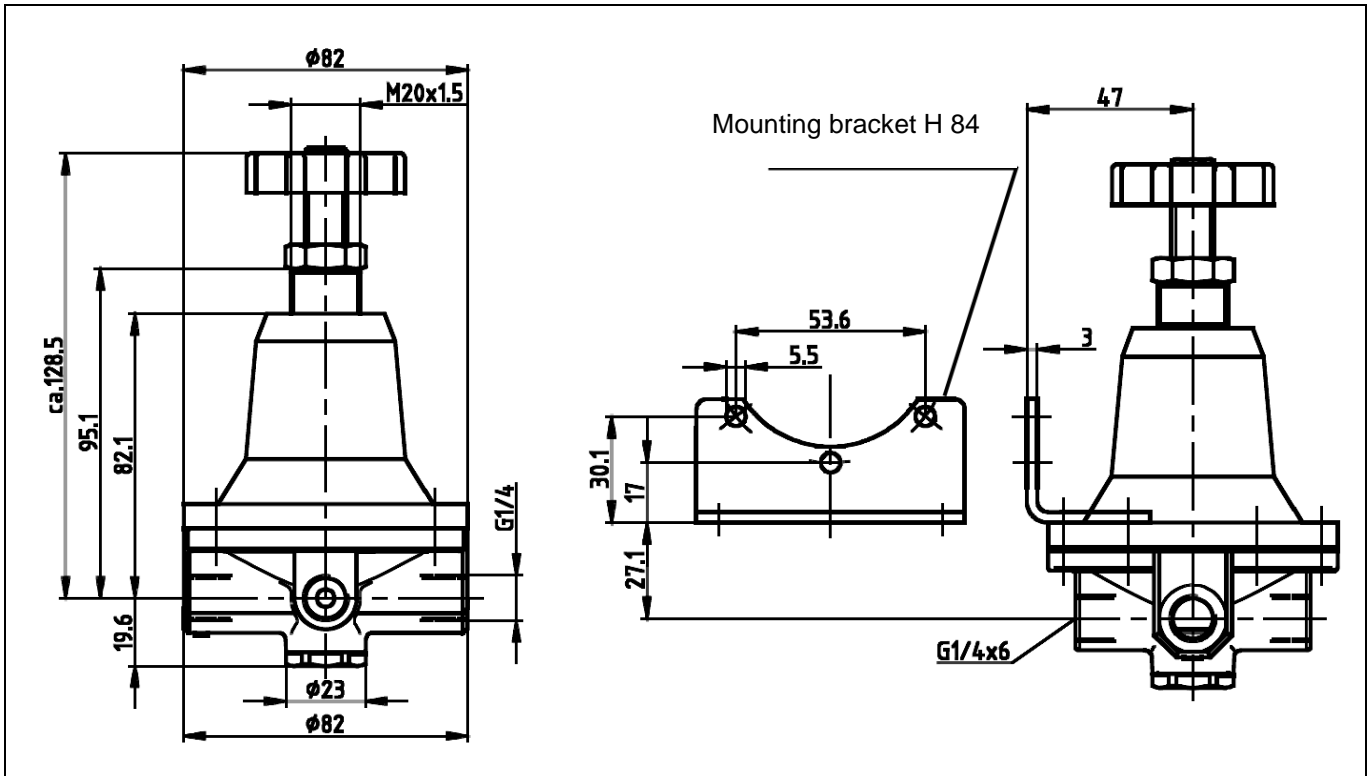
Accessories

| Designation | Order No. |
|--|-----------|
| Mounting bracket | H 84 |
| Pressure gauge (optional) 0 to 1.6 bar | 213-K |
| 0 to 6.0 bar | 216-KD |
| 0 to 10.0 bar | 217-KD |

Main spare parts

On request

Dimensions [mm]

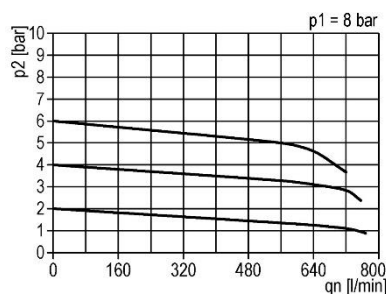
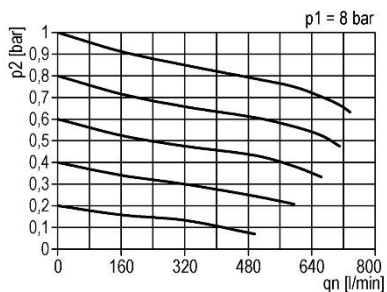


Flow characteristic

Flow characteristic

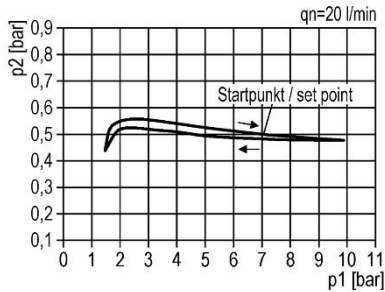
Regelbereich 0,1 - 1 bar

Regelbereich 0,2 - 6 bar



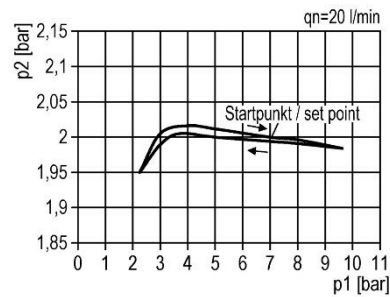
Hysteresis

Hysteresis of p_2 as a function of rising (falling) p_1 with a constant draw-off quantity Q_N 20 l/min
Basic setting (starting point): p_1 : 8.0 bar / p_2 : 2.0 bar



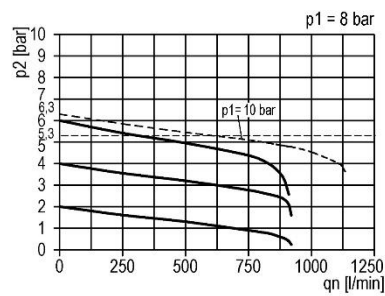
Hysteresis

Hysteresis of p_2 as a function of rising (falling) p_1 with a constant draw-off quantity Q_N 20 l/min
Basic setting (starting point): p_1 : 8.0 bar / p_2 : 2.0 bar



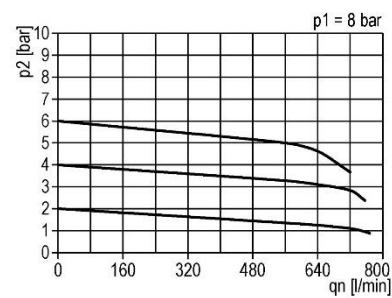
Flow characteristic

Regelbereich 0,5 - 10 bar



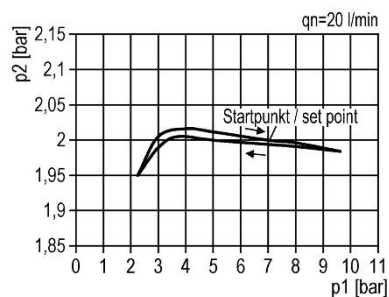
Flow characteristic

Regelbereich 0,1 - 3 bar



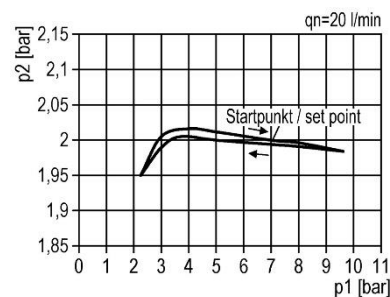
Hysteresis

Hysteresis of p_2 as a function of rising (falling) p_1 with a constant draw-off quantity Q_N 20 l/min
Basic setting (starting point): p_1 : 8.0 bar / p_2 : 2.0 bar



Hysteresis

Hysteresis of p_2 as a function of rising (falling) p_1 with a constant draw-off quantity Q_N 20 l/min
Basic setting (starting point): p_1 : 8.0 bar / p_2 : 2.0 bar



Durchflussmengen

Durchflussmengen bei $p_1=8$ bar

| Artikel-Nr. | | 101229 | 101230 | 101231 | 101232 |
|------------------------------------|-------|--------|--------|--------|--------|
| Ausgangsdruck p_2 | | 1 bar | 2 bar | 6 bar | 2 bar |
| Nenndurchfluss ($\Delta p=1$ bar) | l/min | 740 | 740 | 540 | 500 |