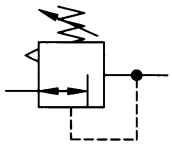
# Pressure regulating valve

**Size 1**

## RP 11

**G 1/4**

**0.1 to 3 bar**
**0.2 to 6 bar**
**0.5 to 10 bar**



## Characteristics

| Type | RP 11 |
|---|---|
| **Port** | **G 1/4** |
| Pressure gauge port | G 1/4 |
| Type of construction | Diaphragm pressure regulator with self-relieving design<br><br>**Lockable adjusting knob on request** |
| Max. input pressure $p_1$ | 16 bar |
| Own air consumption | 2.6 l/min, depending on secondary pressure |
| Control range $p_2$ | **0.1 to 3 bar / 0.2 to 6 bar**<br>**0.5 to 10 bar** / 0.5 to 16 bar on request |
| Mounting position | Any |
| Mounting type | Panel mounting, hole ∅30.5<br>Mounting bracket |
| Medium temperature<br>Ambient temperature | Max. 60°C<br>Max. 60°C |
| Weight [g] | 330 / 430 with pressure gauge |

## Ordering information

Port — Options
Type — Output pressure

**RP 11 X-X**

| Port | |
|---|---|
| **11** | **G 1/4** |
| **Options** | |
| **K** | **Lockable** adjusting knob |

**Order example:** RP 11 **K**-10

## Materials

| Part | Material |
|---|---|
| Head piece (body) | Z 410 |
| Spring bonnet | POM-brass |
| Diaphragm ➔ | NBR-brass |
| Pressure spring | Galvanised steel |
| Valve cone with plastic pressure pin ➔ | NBR-brass |
| Counter-pressure spring | Stainless steel |
| O-ring 30 x 2 ➔ | NBR |
| Bottom screw | POM |
| Spring bonnet, lockable | POM-Al |
| Lock cylinder | Brass |

## Description

- Simple block mounting without tools using conical clamps
- Joiner sets (**KP 11**) required for block mounting
- Pressure setting can be locked by pushing the knob down
- Flow direction indicated by arrows
- **Entry in direction of arrow**
- **Independent of inlet pressure**
- Pressure gauge ∅40 included
- Lockable adjusting knob **(on request)**

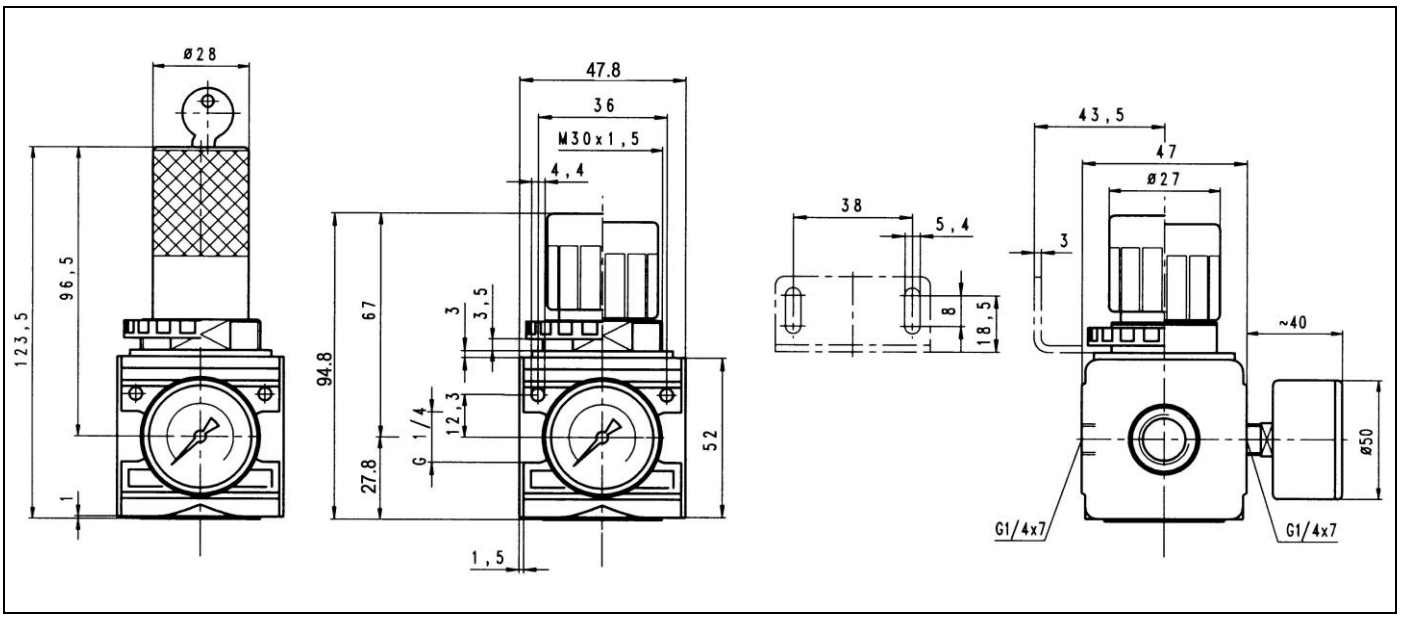
## Accessories

| Designation | Order No. |
|---|---|
| Nut M 30 x 1.5 | R 11-55 |
| Mounting bracket with nut R 11-55 | MV 30 |
| Joiner set(s) for block mounting with other devices | KP 11 |
| Joiner set for narrow diverter block | KP 11 Z |
| Mounting bracket with nut | MV 30 |

## Main spare parts

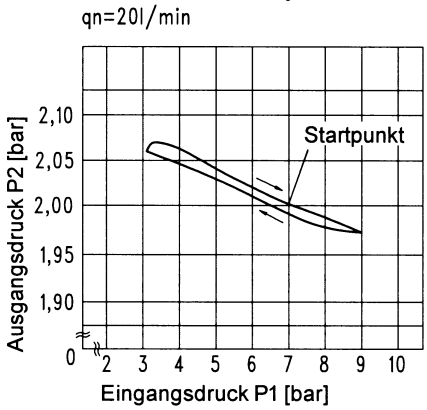
| Part | Part No. |
|---|---|
| ➔ **Set of wearing parts**<br>- Diaphragm, cmpl.<br>- Valve cone, cmpl.<br>- O-ring 30 x 2 | **22.1611.4** |
| Pr. gauge ∅40, G1/4<br>0 to 4 bar<br>0 to 10 bar<br>0 to 16 bar | <br>110.01-KD<br>110.03-KD<br>110.04-KD |

## Dimensions [mm]



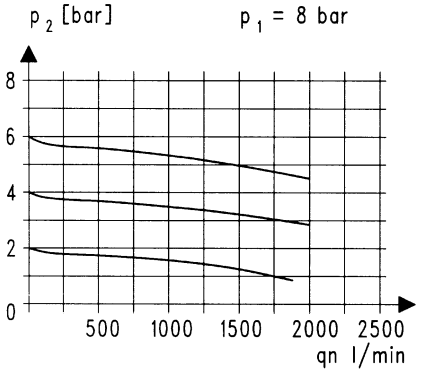

## Hysteresis

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




## Flow characteristic

Control range 0.5 to 10 bar




## Flow rates

Flow rates at $p_1$ = **10 bar**

| Art. No. | | RP 11-3 | RP 11-6 | RP 11-10 |
|---|---|---|---|---|
| Output pressure $p_2$ = **6.3** [bar] | QN m³/h | 90 | 90 | 90 |
| Nominal flow (Δp = 1 bar) | l/min | 2500 | 2500 | 2500 |