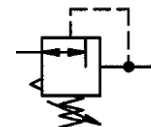




## Pressure regulator

Size 1

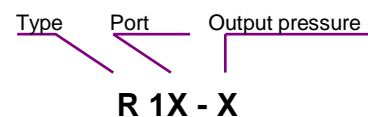
**R 11**
**G 1/4**
**R 12**
**G 3/8**

 0.1 to 3 bar  
 0.2 to 6 bar  
 0.5 to 10 bar  
 0.5 to 16 bar


### Characteristics

Type	R 11	R 12
Port	G 1/4	G 3/8
Pressure gauge port	G 1/4	
Type of construction	Diaphragm pressure regulator with self-relieving design  <b>Special versions on request</b> e.g. reverse flow port closed	
Max. input pressure $p_1$	16 bar	
Control range $p_2$	0.1 to 3 bar / 0.2 to 6 bar / 0.5 to 10 bar / 0.5 to 16 bar	
Mounting position	Any	
Mounting type	Panel mounting, hole $\varnothing 30.5$ Bracket or two through holes	
Medium temperature	-10 to 60 °C (other temperature ranges on request)	
Ambient temperature	-10 to 60 °C (other temperature ranges on request)	
Weight [g]	330 / 415 with pressure gauge	

### Ordering information


**Order example: R 11 - 10**

#### Port

11	G 1/4
12	G 3/8

### Description

- Block design
- Simple block mounting with other devices using conical clamps and half threads
- 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  $\varnothing 40$  included
- Pressure gauge can be mounted at both ends
- Lockable adjusting knob (**on request**)

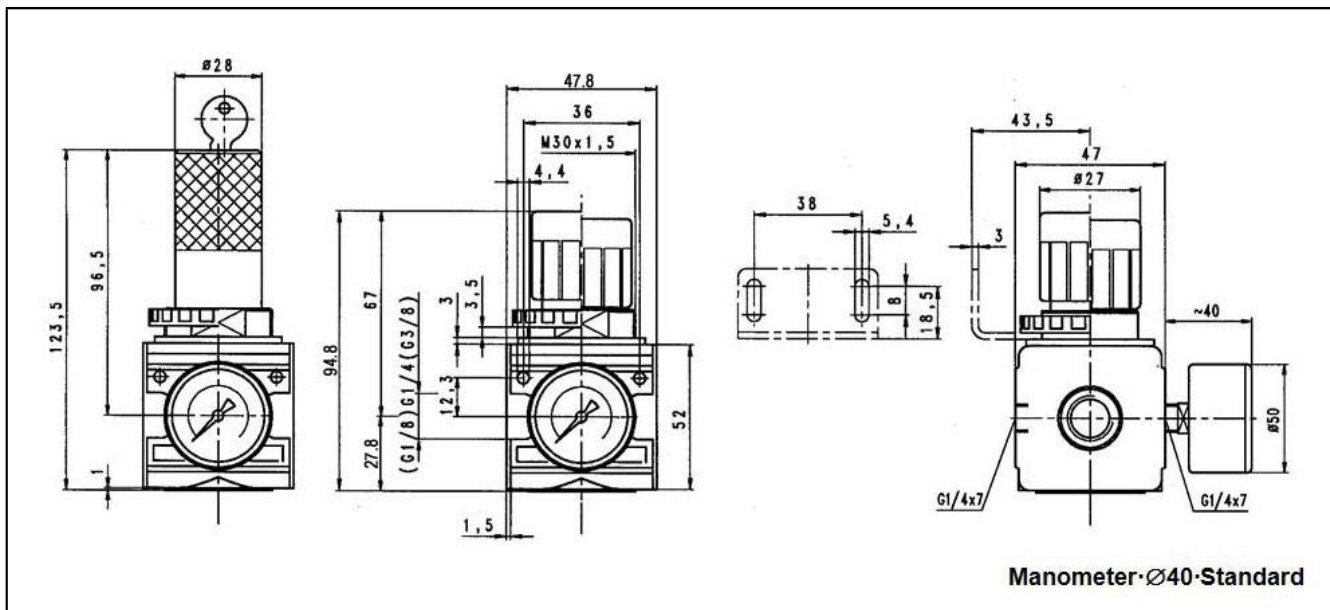
### Main spare parts

Part	Part No.
→ Set of wearing parts - Diaphragm, compl. - Valve cone, compl. - O-ring 30x2	22.1811.4
Pr. gauge $\varnothing 40$ , G1/4 0 to 4 bar	110.01-KD
0 to 10 bar	110.03-KD
0 to 16 bar	110.04-KD
0 to 25 bar	110.05-KD

### Materials

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

## Dimensions [mm]



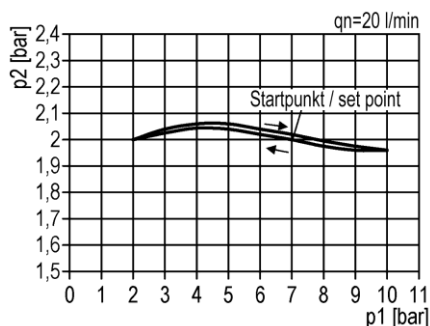
## Flow rates

Flow rates at  $p_1 = 10 \text{ bar}$

Art. No.		R 11 - 3 R 11 - 6 R 11 - 10 R 11 - 16	R 12 - 3 R 12 - 6 R 12 - 10 R 12 - 16
		Output pressure $p_2 = 6.3 \text{ [bar]}$ Nominal flow ( $\Delta p = 1 \text{ bar}$ )	QN m <sup>3</sup> /h l/min

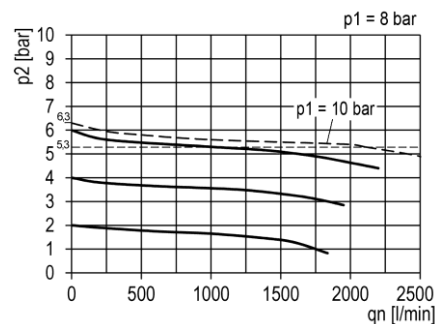
## Hysteresis

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):  $p_1: 7.0 \text{ bar}$   
 $p_2: 2.0 \text{ bar}$



## Flow characteristic

Control range 0.5 to 10 bar



## Accessories

Designation	Order No.
Nut M30x1.5	R 11-55
Mounting bracket with nut R 11-55	MV 30
Mounting bracket + 2 screws, compl.	ZW 11
Joiner set(s) for block mounting with other devices	KP 11
Joiner set for narrow diverter block	KP 11 Z