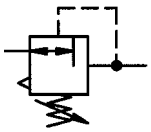
Pressure regulator

Size 1

R 11	R 12
G 1/4	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 Port	R 11 G 1/4		R 12 G 3/8
Pressure gauge port	G 1/4		
Type of construction	Diaphragm pressure regulator with self-relieving design **Special versions on request** 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 ∅30.5 Bracket or two through holes		
Medium temperature Ambient temperature	Max. 60 °C (other temperature Max. 60 °C ranges on request)		
Weight [g]	330 / 415 with pressure gauge		

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

Ordering information

Type Port Output pressure

R 1X - X

Order example: R 11 - 10

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

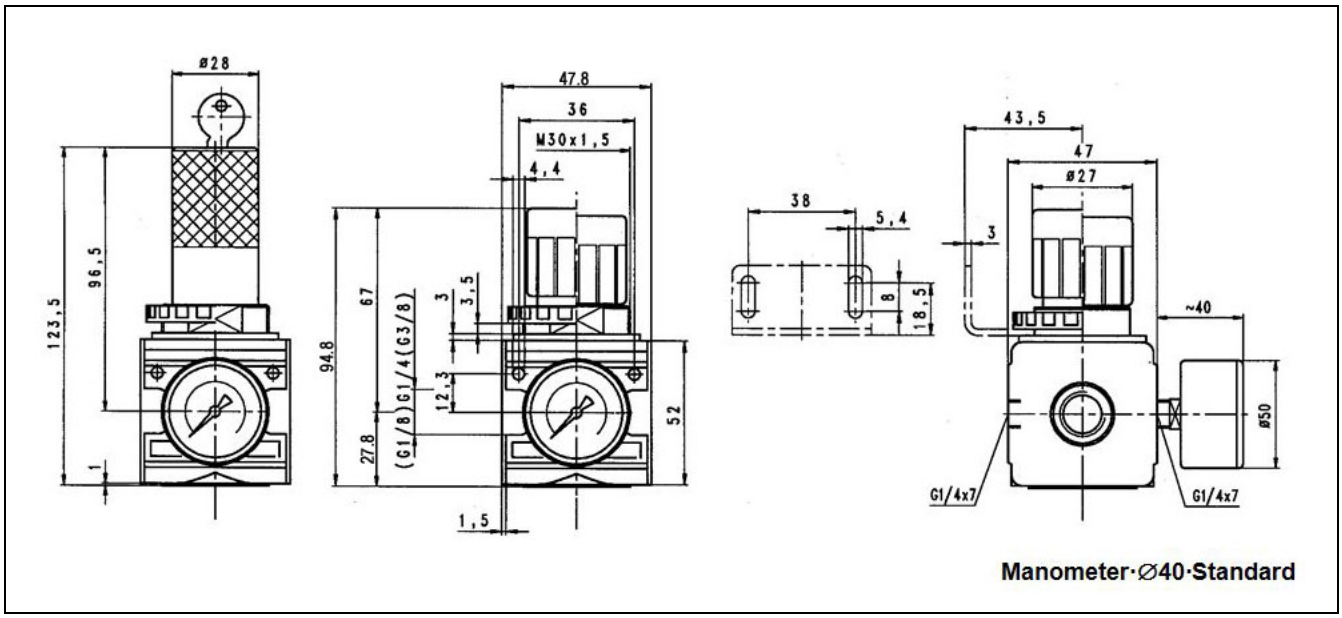
Description

- 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 ∅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, cmpl. - Valve cone, cmpl. - O-ring 30x2	**22.1811.4**
Pr. gauge ∅40, G1/4 0 to 4 bar 0 to 6 bar 0 to 10 bar 0 to 16 bar	 110.01-KD 110.02-KD 110.03-KD 110.04-KD

Dimensions [mm]



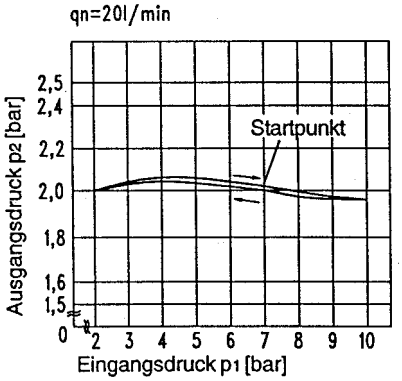
Flow rates

Flow rates at p_1 = **8 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** [bar]	QN m³/h	90	90
Nominal flow (Δp = 1 bar)	l/min	1500	1500

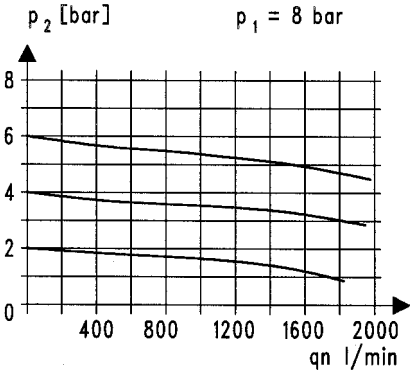
Hysteresis

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**



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, cmpl.	ZW 11
Joiner set(s) for block mounting with other devices	KP 11
Joiner set for narrow diverter block	KP 11 Z