



Pressure regulating valve

- Pilot-controlled

Size 5

R 55

G 1

0.1 to 3.0 bar
0.2 to 6.0 bar
0.5 to 10.0 bar
0.5 to 16.0 bar

General

Pilot-controlled pressure regulating valve in block design. This design is characterised by convenient operation, precise control behaviour and high flow rates. The pressure setting can be locked by pushing the knob down.

Optional: Controller with lockable adjusting knob.

Characteristics

Type	On request	R 55	
Pipe thread	G 3/4	G 1	
Pressure gauge port	G 1/4		
Type of construction	Diaphragm pressure regulator with self-relieving design - Pilot control Special versions on request		
Input pressure p_1 [bar]	Max. 16 bar		
Control range p_2 [bar]	0.1 to 3.0 / 0.2 to 6.0 / 0.5 to 10.0 / 0.5 to 16.0		
Mounting position	Any		
Mounting type	Two through holes / in-line		
Medium temperature	-10 to 60 °C		
Ambient temperature	-10 to 60 °C		
Weight [g]	1460 / 1554 with pressure gauge		
Internal air consumption	Depending on secondary pressure		

Materials

Part	Material
Head piece (body)	Al
Diaphragm	→ NBR / brass / Al
Valve cone	→ Brass / NBR
Spring bonnet	POM / brass
Diaphragm (pilot)	→ NBR / brass
Pressure spring (pilot)	Galvanised steel
Valve cone	→ Brass / NBR
Counter-pressure spring	Stainless steel
Spring bonnet, lockable	POM / Al
O-ring 81 x 2	→ NBR

Accessories

Designation	Order No.
Mounting bracket with 2 screws, cmpl.	ZW 55
Joiner sets for block mounting with other devices	KP 55
Joiner sets for block mounting with ball valve (K 55 Z)	KP 55 Z
Nut M 30 x 1.5	R 11-55

Ordering information

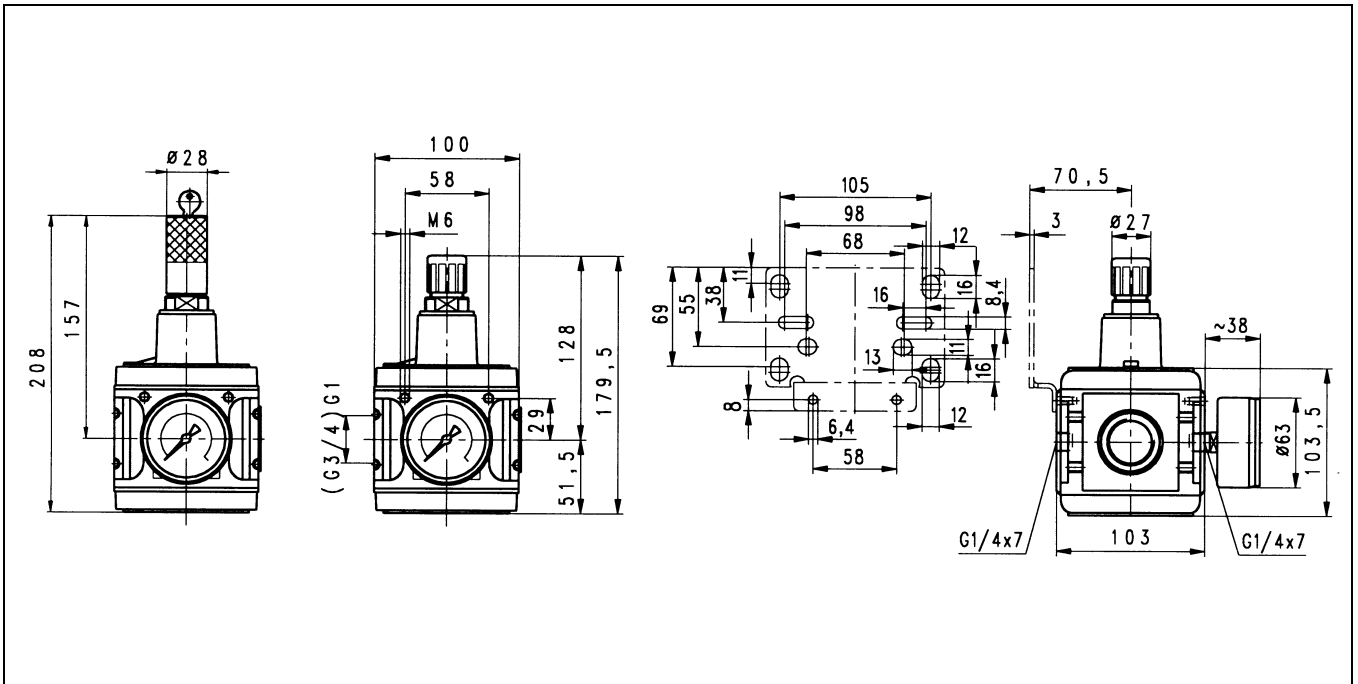
Type	Control range
R 55 - X	

Port	
X	Thread
55	G 1 G 3/4 (on request)

Description

- Simple block mounting with other devices using conical clamps and half threads
- Joiner sets (**KP 55**) required for block mounting
- Joiner sets (**KP 55 Z**) required for block mounting with ball valve (**K 55**)
- 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 included
- Pressure gauge can be mounted at both ends

Dimensions



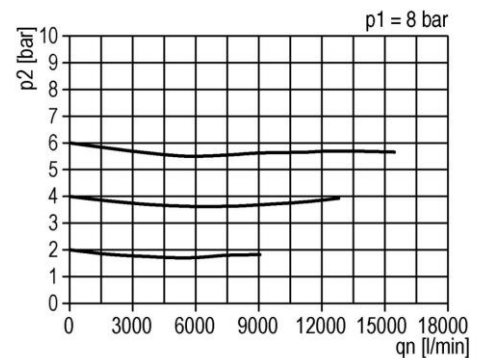
Flow rates

Flow rates at $p_1 = 8 \text{ bar}$

Art. No.	QN m^3/h l/min	R 55 - 3	R 55 - 10
		R 55 - 6	R 55 - 16
Output pressure $p_2 = 6 \text{ [bar]}$		750	750
Nominal flow ($\Delta p = 1 \text{ bar}$)		12500	12500

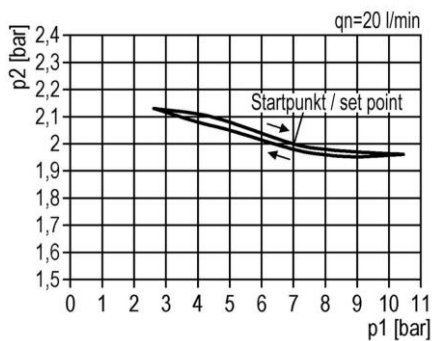
Flow characteristic

Control range 0.5 to 10 bar



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



Main spare parts

Part	Part No.
→ Set of wearing parts	22.1855.4
Pr. gauge $\varnothing 63, G \frac{1}{4}$	
0 to 4 bar	215-KD
0 to 10 bar	217-KD
0 to 16 bar	218-KD
0 to 25 bar	219-KDB

Art. No.	Ident No.
R 55 - 3	100431
R 55 - 6	100432
R 55 - 10	100433
R 55 - 16	100434
ZW 55	100445
KP 55	100446
KP 55 Z	123922
R 11-55	100345
22.1855.4	100447
215-KD	101223
217-KD	101244
218-KD	101398
219-KDB	139827