



Pressure regulating valve

Size 3

R 33

G 1/2

R 34

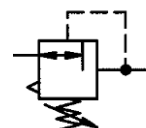
G 3/4

0.1 to 3 bar

0.2 to 6 bar

0.5 to 10 bar

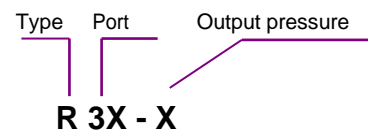
0.5 to 16 bar



Characteristics

Type	R 33	R 34
Port	G 1/2	G 3/4
Pressure gauge port	G 1/4	
Type of construction	Diaphragm pressure regulator with self-relieving design Special versions on request - Reverse flow port closed - Installation without grease	
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 $\varnothing 50.5$ Bracket or two through holes	
Medium temperature	Max. 60°C (other temperature	
Ambient temperature	Max. 60°C ranges on request)	
Weight [g]	850 / 935 with pressure gauge	

Ordering information



Order example: R 33 - 10

Port	
33	G 1/2
34	G 3/4

Materials

Part	Material
Head piece (body)	Zinc - Z 410
Spring bonnet	POM-brass
Diaphragm	→ NBR-brass
Pressure spring	Galvanised steel
Valve cone	→ NBR-brass
Counter-pressure spring	Stainless steel
O-ring 50 x 2	→ NBR
Cover	PBT
Spring bonnet, lockable	POM-Al
Lock cylinder	Brass

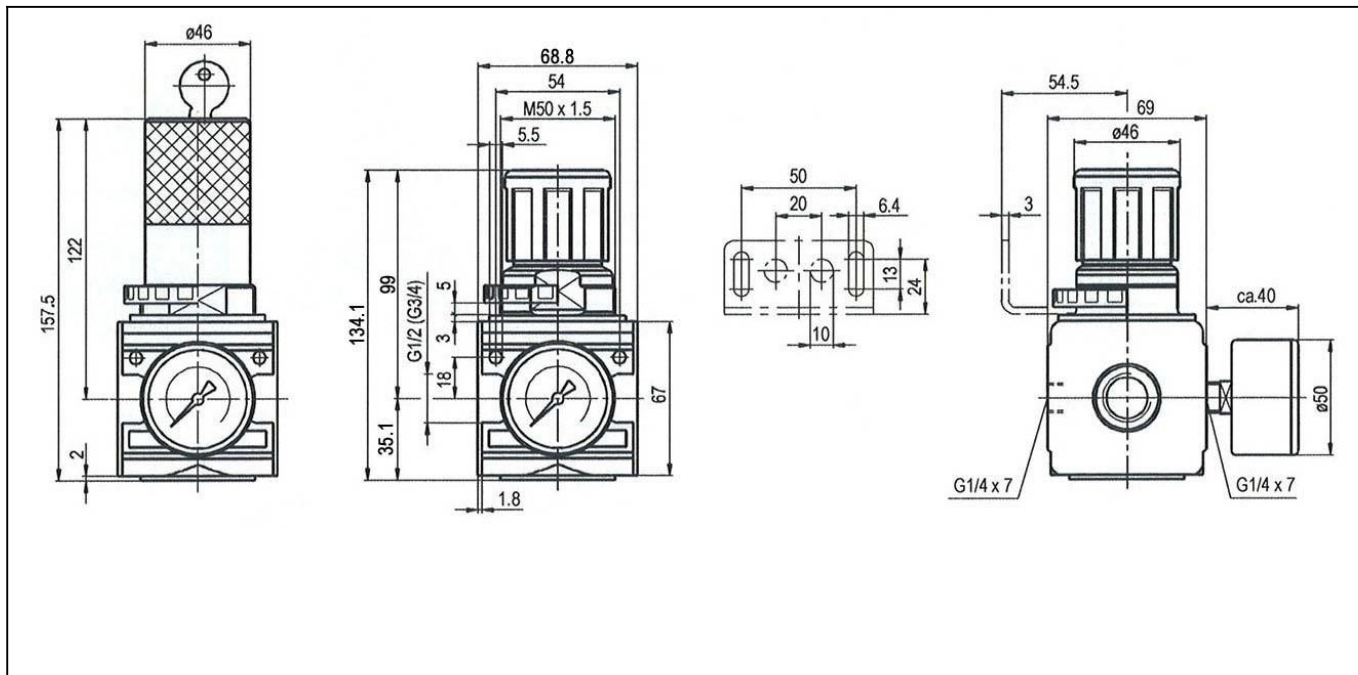
Description

- Block design
- Simple block mounting with other devices using conical clamps and half threads
- Joiner sets (**KP 33**) 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 $\varnothing 50$ 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 50 x 2	22.1833.4
Pr. gauge $\varnothing 50$, G1/4 0 to 4 bar	204-KD
0 to 10 bar	206-KD
0 to 16 bar	207-KD
0 to 25 bar	110.88-KDB

Dimensions [mm]



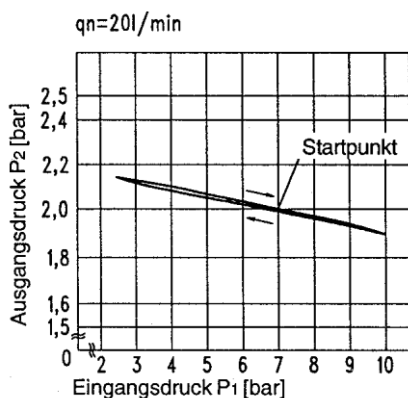
Flow rates

Flow rates at $p_1 = 10$ bar

Art. No.		R 33 - 3 R 33 - 6	R 33 - 10 R 33 - 16	R 34 - 3 R 34 - 6	R 34 - 10 R 34 - 16
Output pressure $p_2 = 6.3$ [bar]	QN m ³ /h	360	360	360	360
Nominal flow ($\Delta p = 1$ bar)	l/min	8700	8700	8700	8700

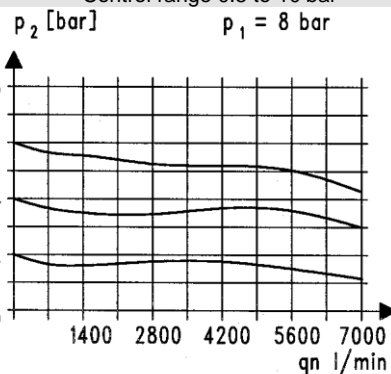
Hysteresis

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



Accessories

Designation	Order No.
Nut M 50 x 1.5	R 33-55
Mounting bracket with nut R 33-55, cmpl.	MV 50
Mounting bracket with 2 screws, cmpl.	ZW 33
Joiner set(s) for block mounting with other devices	KP 33
Joiner set for narrow diverter block	KP 33 Z

Art. No.	Ident No.
R 33 - 3	100423
R 33 - 6	100424
R 33 - 10	100425
R 33 - 16	100426
R 34 - 3	100427
R 34 - 6	100428
R 34 - 10	100429
R 34 - 16	100430
22.1833.4	100444
204-KD	101675
206-KD	101677
207-KD	101678
110.88-KDB	139810
R 33-55	100440
MV 50	100439
ZW 33	100441
KP 33	100442
KP 33 Z	100443