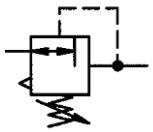
Pressure regulating valve

Size 3

R 33	R 34
G 1/2	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 Port	R 33 G 1/2	R 34 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 ∅50.5 Bracket or two through holes	
Medium temperature Ambient temperature	-10 to 60 °C (other temperature Max. -10 to 60 °C ranges on request)	
Weight [g]	850 / 935 with pressure gauge	

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

Ordering information

Type Port Output pressure

R 3X - X

Order example: R 33 - 10

Port	
33	G 1/2
34	G 3/4

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 ∅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 ∅50, G1/4 0 to 4 bar 0 to 10 bar 0 to 16 bar 0 to 25 bar	 204-KD 206-KD 207-KD 110.88-KDB

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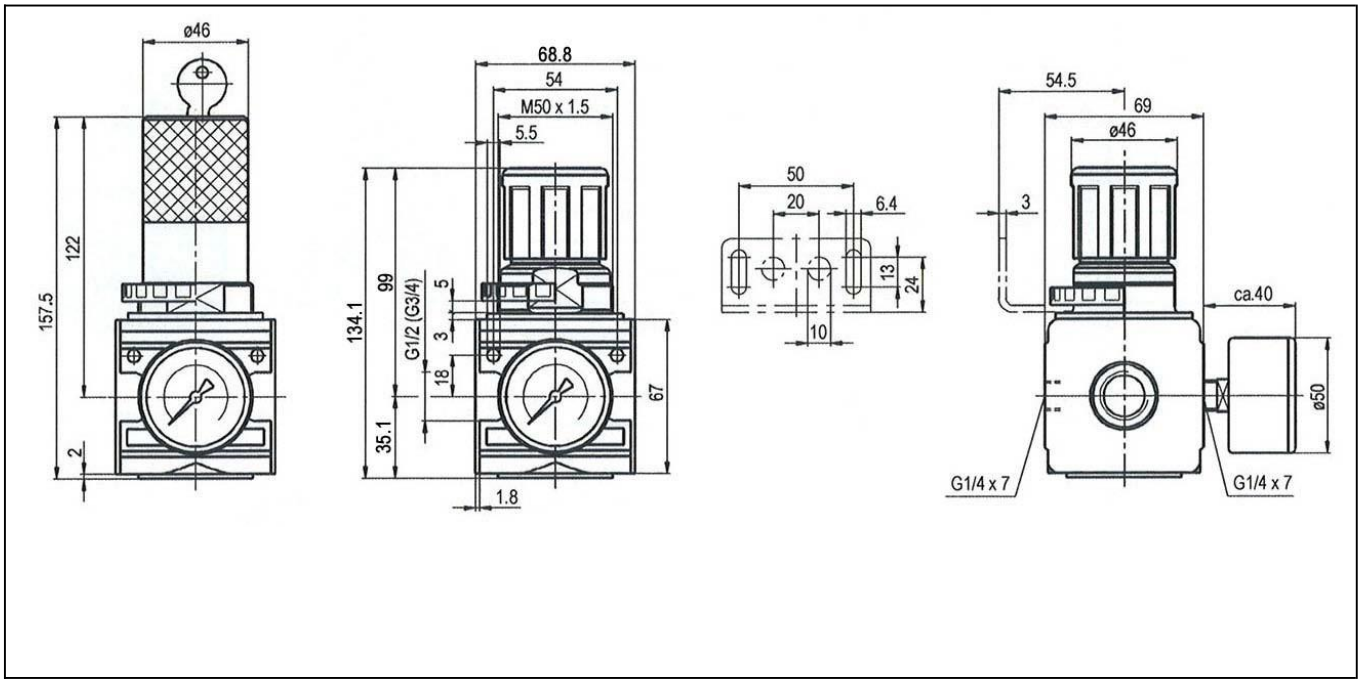
Dimensions [mm]



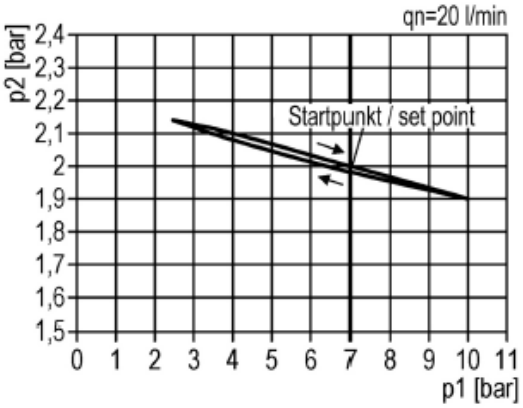
Flow rates

Flow rates at p_1 = **10 bar**

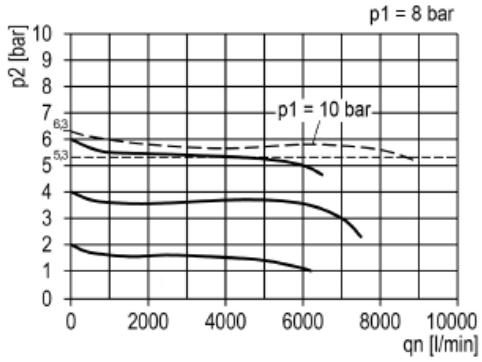
Art. No.		**R 33 - 3 R 33 - 6**	**R 33 - 10 R 33 - 16**	**R 34 - 3 R 34 - 6**	**R 34 - 10 R 34 - 16**
Output pressure p_2 = **6.3** [bar] Nominal flow (Δp = 1 bar)	QN m³/h l/min	522 8700	522 8700	522 8700	522 8700

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



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

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