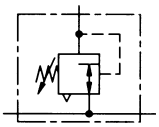
Pressure regulating valve

Size 3

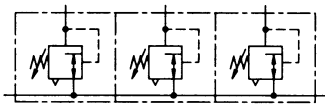
RB 33

G 1/2

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



Typical application



Characteristics

Type	RB 33
Port	**G 1/2**
Pressure gauge port	G 1/4
Type of construction	Diaphragm pressure regulator with self-relieving design **Lockable adjusting knob on request**
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 on request
Mounting position	Any
Mounting type	Panel mounting, hole ∅50.5 Bracket or two through holes
Medium temperature Ambient temperature	Max. 60°C Max. 60°C
Weight [g]	850 / 935 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 50 x 2	➔	NBR
Bottom screw		PBT
Spring bonnet, lockable		POM-Al
Lock cylinder		Brass

Accessories

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

Ordering information

Port	
33	**G 1/2**
Options	
K	**Lockable** adjusting knob

Order example: RB 33 **K**-10

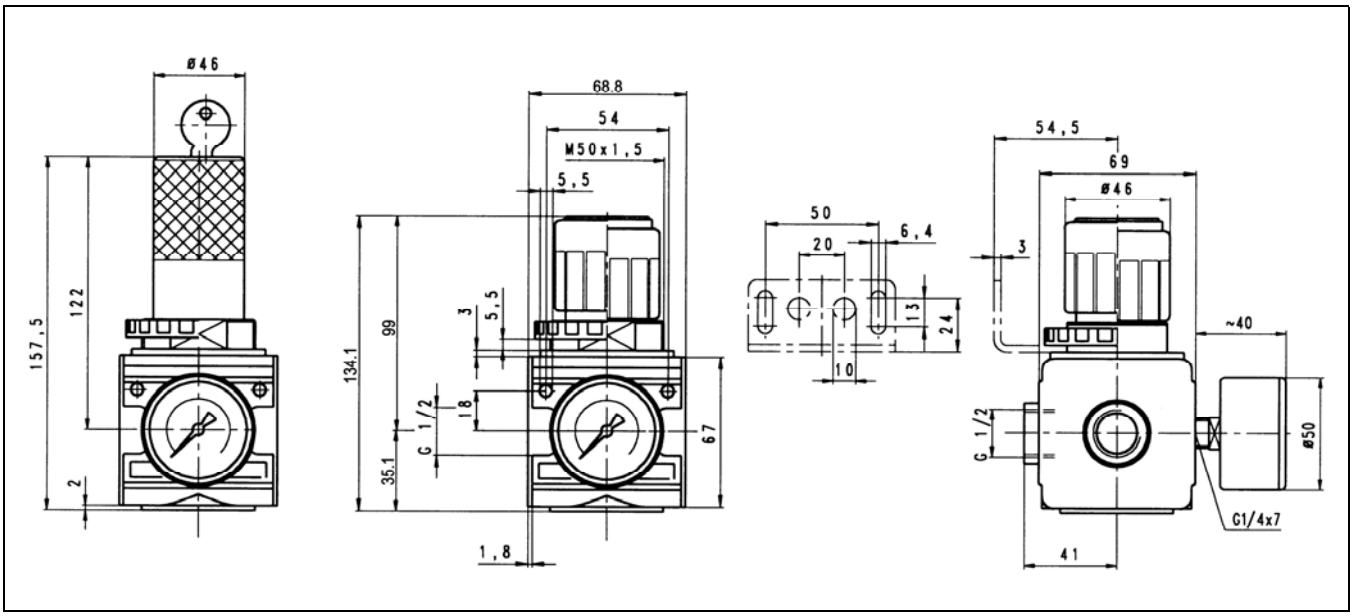
Description

- Simple block mounting 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
- Lockable adjusting knob **(on request)**

Main spare parts

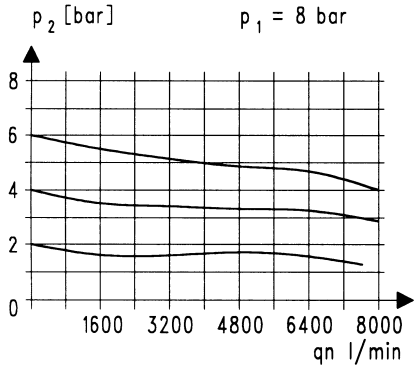
Part	Part No.
➔**Set of wearing parts** - Diaphragm, cmpl. - Valve cone, cmpl. - O-ring 50 x 2	**22.1833.4**

Dimensions [mm]



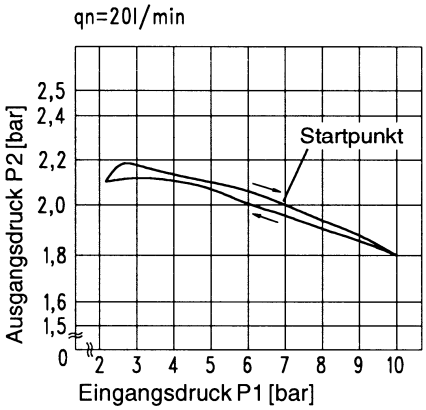
Flow characteristic

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 bar**
p_2: 2.0 bar

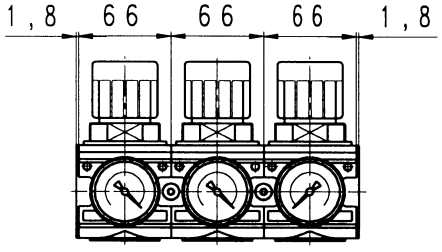


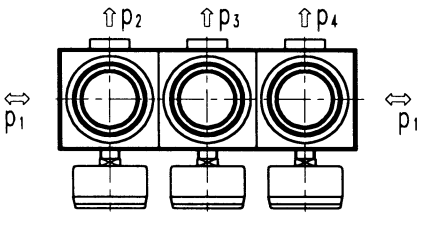
Flow rates

Flow rates at p_1 = **8 bar**

Art. No.		RB 33-3	RB 33-6	RB 33-10
Output pressure p_2 = **6** [bar]	QN m^3/h	330	330	330
Nominal flow (Δp = 1 bar)	l/min	5500	5500	5500

Typical application





Additional pressure can be supplied by inserting T 33 diverter blocks if several devices are chained

Art. No.	Ident No.
RB 33-3	100451
RB 33-6	100452
RB 33-10	100453
RB 33 K-3	124604
RB 33 K-6	124605
RB 33 K-10	124603
R 33-55	100440
MV 50	100439
KP 33	100442
KP 33 Z	100443
ZW 33	100441
22.1833.4	100444