

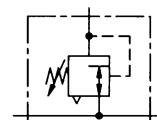


Pressure regulating valve

Size 3

RB 33

G 1/2

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


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 $\varnothing 50.5$ Bracket or two through holes
Medium temperature	-10 to 60 °C
Ambient temperature	-10 to 60 °C
Weight [g]	850 / 935 with pressure gauge

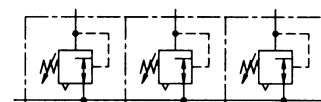
Materials

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

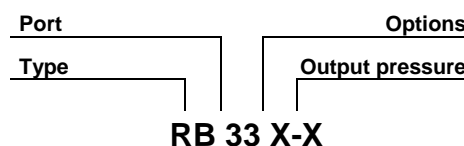
Accessories

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

Typical application



Ordering information



Port	
33	G 1/2
Options	
K	Lockable adjusting knob

Order example: RB 33 K-10

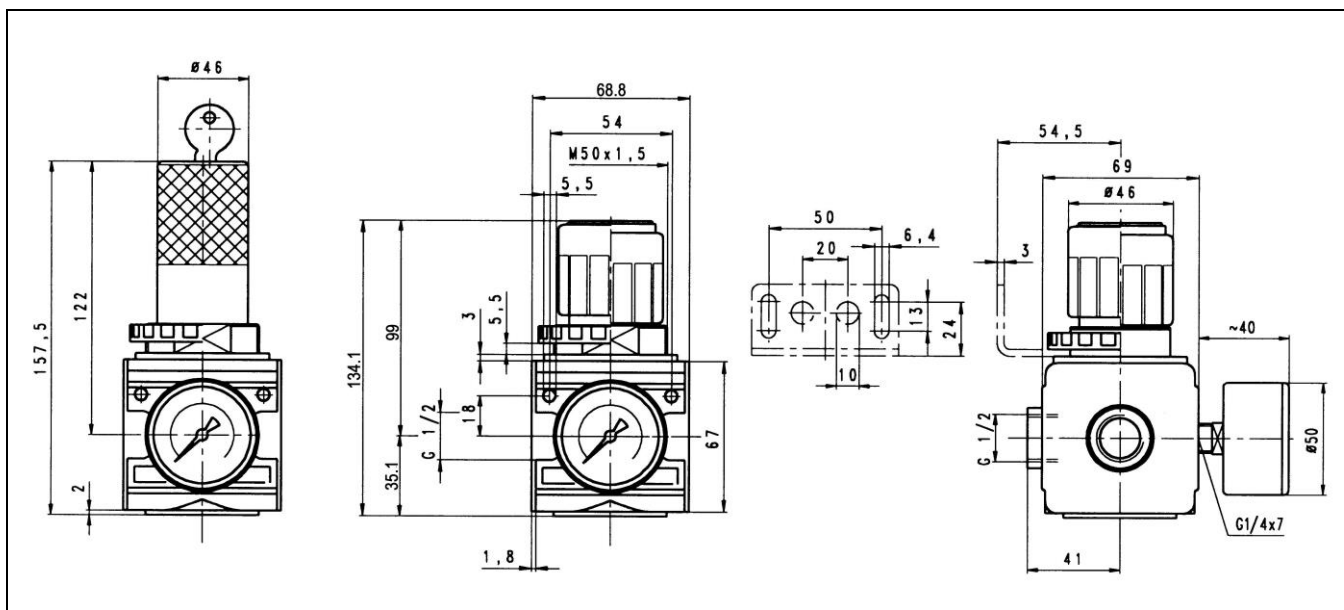
Description

- 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 $\varnothing 50$ included
- Lockable adjusting knob (**on request**)

Main spare parts

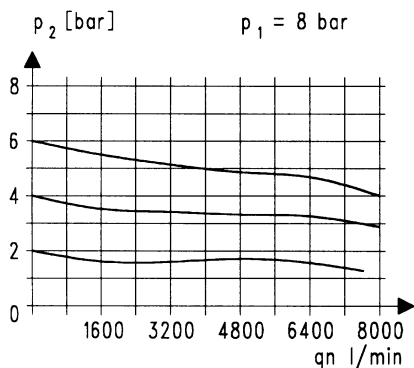
Part	Part No.
→ Set of wearing parts	22.1833.4
- Diaphragm, cmpl.	
- Valve cone, cmpl.	
- O-ring 50 x 2	

Dimensions [mm]



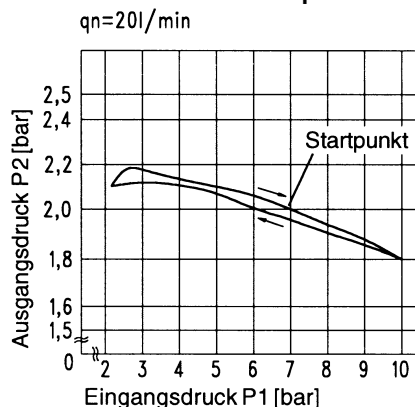
Flow characteristic

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 Q_N 20 l/min
Basic setting (starting point): p_1 : 7.0 bar
 p_2 : 2.0 bar

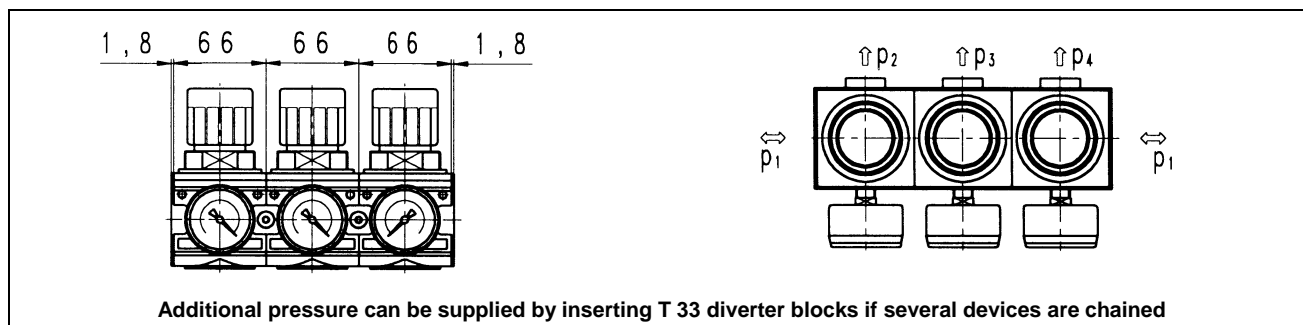


Flow rates

Flow rates at $p_1 = 8$ bar

Art. No.		RB 33-3	RB 33-6	RB 33-10
Output pressure $p_2 = 6$ [bar]	Q_N m ³ /h	330	330	330
Nominal flow ($\Delta p = 1$ bar)	l/min	5500	5500	5500

Typical application



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