Compressed air conditioning



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

Туре	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 Ø50.5 Bracket or two through holes		
Medium temperature	-10 to 60 °C		
Ambient temperature	-10 to 60 °C		
Weight [g]	850 / 935 with pressure gauge		

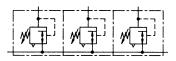
Materials

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-AI
Lock cylinder		Brass

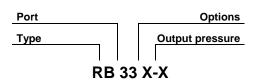
Accessories

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

Typical application



Ordering information



Port		
33	G 1/2	
Options		
K	Lockable adjusting	
	knob	

Order example: RB 33 K-10

Description

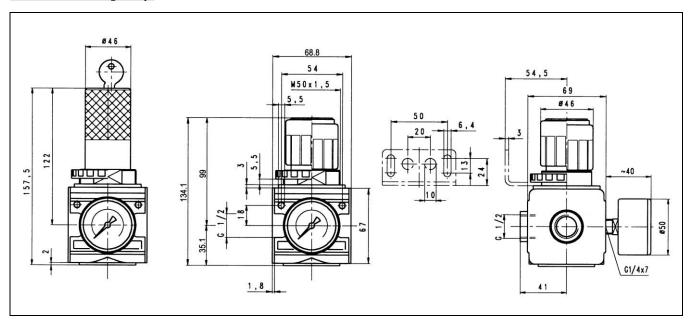
- Simple block mounting using conical clamps and half threads
- Joiner sets (KP 33) required for block mounting
- Pressure setting can be locked by pushing the knob down
- Flow direction indicated by arrows
- Entry in direction of arrow
- Independent of inlet pressure
- Pressure gauge ∅50 included
- Lockable adjusting knob (on request)

Main spare parts

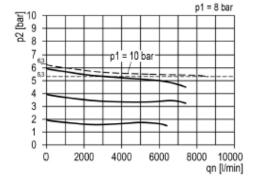
Part	Part No.
→ Set of wearing parts - Diaphragm, cmpl Valve cone, cmpl O-ring 50 x 2	22.1833.4

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Dimensions [mm)

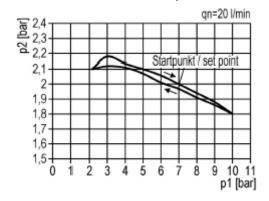


Flow characteristic



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

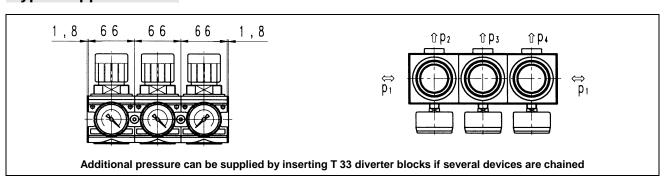


Flow rates

Flow rates at $p_1 = 8 bar$

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	Art. No.		RB 33-3	RB 33-6	RB 33-10
	Output pressure $p_2 = 6.3$ [bar]	QN m ³ /h	510	510	510
	Nominal flow ($\Delta p = 1 \text{ bar}$)	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