



Pressure regulators G 1/8 – G 1/2

Pressure regulators adjust the line pressure (p_1) of a compressed air system to the selected operating pressure/secondary pressure (p_2) and keep it largely constant, independent of pressure fluctuations and air consumption. Pressure regulator (diaphragm type) in flow-through form. With secondary venting to reduce the secondary pressure (p_2) without air withdrawal. **Control ranges for p_2 from 0.5–3/6/10 and 16 bar.** Actuation by toggle, optional handwheel. Special versions (e.g. without reverse control) on request. Pressure gauge can be mounted on the front or rear side. Panel mounting or mounting kit available as accessory. Connection thread from G 1/8 to G 1/2. Notice: To avoid failures, a compressed air filter should be installed in front of the unit. Also suitable for use with neutral and non-toxic gases. The manometer is enclosed.

Standard version: control range 0.5–10 bar, with toggle and pressure gauge

Size	Order No.			
	G 1/8*	G 1/4*	G 3/8	G 1/2
BG 30 (small)	323.313	323.323	323.333	–
BG 35 (intermediate)	280.313	280.323	280.333	–
BG 40 (medium)	–	–	280.353*	280.363

*inlet and outlet reduced (reductions enclosed) see page 119

Order key for all variants

323/280.XXX

1	0.5–3 bar	control range secondary pressure (p ₂)	
2	0.5–6 bar		
3	0.5–10 bar		
4	0.5–16 bar		
1	G 1/8	BG 30, BG 35	thread
2	G 1/4		
3	G 3/8		
5	G 3/8	BG 40	
6	G 1/2		
2	handwheel, with pressure gauge		
3	toggle, with pressure gauge		
4	handwheel, without pressure gauge		
5	toggle, without pressure gauge		



323.333



280-132

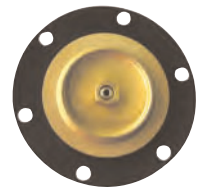
Spare parts and accessories

Size	Order No.		
	BG 30	BG 35	BG 40
Mounting set for fixing at the bottom of the lid	323-68	280-134	280-132
Panel mounting with thread: M14 × 1 (BG 30), M20 × 1.5 (BG 35), M22 × 1 (BG 40)	323-69	323-66	280-133
Pressure gauge horizontally**	Ø 50	Ø 63	Ø 63
Display range 0–6 bar (for p_2 up to 3 bar)	42	213	213
Display range 0–10 bar (for p_2 up to 6 bar)	55	214	214
Display range 0–16 bar (for p_2 up to 10 bar)	85	215	215
Display range 0–25 bar (for p_2 up to 16 bar)	96	216	216
Sealing cone , complete	323-119	406-37	280-220
Diaphragm , complete	323-152	280-223	280-221

**pressure gauges starting from page 154



323-119

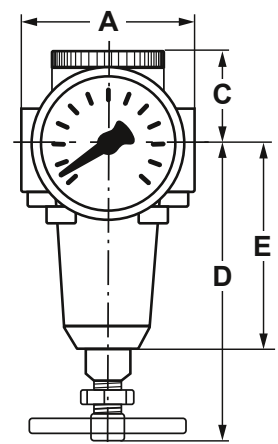


280-221

Technical data

Size	BG 30			BG 35			BG 40	
Thread	G 1/8	G 1/4	G 3/8	G 1/8	G 1/4	G 3/8	G 3/8	G 1/2
Nominal flow rate***	1,090 l/min			2,170 l/min			2,900 l/min	
Max. operating pressure (p ₁)	25 bar (PN 25)							
Max. secondary pressure (p ₂)	10 bar (optionally 3, 6, 16 bar)							
Operating temperature	-10 °C up to +90 °C							
Mounting position/flow direction	any/in arrow direction							
Nominal width	DN 6			DN 10			DN 15	
Pre-pressure dependence	< 3 %			< 2 %			< 2 %	
Reverse control hysteresis	~ 1 bar							
Weight	620 g			1.5 kg			1.35 kg	
Material diaphragm/seals	NBR							
Material housing, spring cover	zinc die-cast							

*** measured at $p_1 = 8$ bar, $p_2 = 6$ bar and $\Delta p = 1$ bar



Dimensions (mm)

	BG 30			BG 35			BG 40	
	G 1/8	G 1/4	G 3/8	G 1/8	G 1/4	G 3/8	G 3/8	G 1/2
A	61	54	77	70	90	82		
C	30	30	33	33	34	34		
D	100	100	127	127	136	136		
E	67	67	78	78	85	85		