



Pressure regulators G 3/4 – G 1 1/2

Pressure regulators regulate the line pressure (p_1) of a compressed air system to the preset 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. Secondary venting (reverse control) and extensive inlet pressure independence is given. **Control ranges for p_2 from 0.5–3/6/10/16 and 25 bar.** Actuation: BG 55 (compact) up to 10 bar with handwheel, 16 bar with toggle; BG 60 (large) and BG 80 (max) up to 10 bar with toggle, 16 and 25 bar with hexagon head screw AF 19. 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 3/4 to G 1 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.



280.3104
BG 60/80

406.294
BG 55



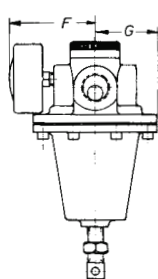
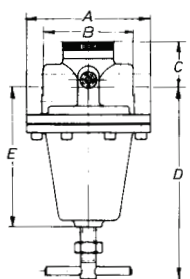
406-17



280-219



280-218



Dimensions (mm)

	BG 55		BG 60		BG 80	
	G 3/4	G 1	G 3/4	G 1	G 1 1/4	G 1 1/2
A	–	–	116	116	116	116
B	96	90	95	83	128	114
C	47	47	41	41	50	50
D	139	139	175	175	190	190
E	89	89	–	–	–	–
F	77	77	80	80	80	80
G	39	39	58	58	58	58

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

Size	Order No.			
	G 3/4*	G 1	G 1 1/4*	G 1 1/2
BG 55 (compact)	406.283	406.293	–	–
BG 60 (large)	280.383	280.393	–	–
BG 80 (max)	–	–	280.3103	280.3113

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

Order key for all variants

BG 55 406.XXX

- | | | |
|---|---|--|
| 1 | 0.5–3 bar | control range
sec. pressure (p_2) |
| 2 | 0.5–6 bar | |
| 3 | 0.5–10 bar | |
| 4 | 0.5–16 bar | |
| 8 | G 3/4 | thread |
| 9 | G 1 | |
| 2 | handwheel, with gauge (up to 10 bar) | |
| 3 | toggle, with pressure gauge | |
| 4 | handwheel, without gauge (up to 10 bar) | |
| 6 | toggle, without pressure gauge | |

BG 60/ BG 80 280.XX(X)X

- | | | |
|----|----------------------------------|--|
| 1 | 0.5–3 bar | control range
sec. pressure (p_2) |
| 2 | 0.5–6 bar | |
| 3 | 0.5–10 bar | |
| 4 | 0.5–16 bar | |
| 5 | 0.5–25 bar | |
| 8 | G 3/4 | thread |
| 9 | G 1 | |
| 10 | G 1 1/4 | |
| 11 | G 1 1/2 | |
| 3 | toggle, with pressure gauge** | |
| 5 | toggle, without pressure gauge** | |

** 16 and 25 bar with hexagon head screw

Spare parts and accessories

Size	Order No.		
	BG 55	BG 60	BG 80
Mounting set for mounting at the bottom of the cover or on the mounting screws	406-17	280-239	280-239
Panel mounting with thread: M28 × 1.5	406-18	–	–
Pressure gauge horizontally***	Ø 63	Ø 63	Ø 63
Display range 0–6 bar (for p_2 up to 3 bar)	213	213	213
Display range 0–10 bar (for p_2 up to 6 bar)	214	214	214
Display range 0–16 bar (for p_2 up to 10 bar)	215	215	215
Display range 0–25 bar (for p_2 up to 16 bar)	216	216	216
Display range 0–40 bar (for p_2 up to 5 bar)	–	217	217
Sealing cone , complete	406-32	280-218	280-235
Diaphragm , complete	406-50	280-219	280-219
Double diaphragm , complete (for 0.5 to 25 bar)	–	280-249	280-249

*** pressure gauges starting from page 154

Technical data

Size	BG 55		BG 60		BG 80	
Thread	G ¾	G 1	G ¾	G 1	G 1 ¼	G 1 ½
Nominal flow rate****	5,800 l/min		8,510 l/min		13,220 l/min	
Max. operating pressure (p ₁)	25 bar (PN 25)		40 bar (PN 40)			
Max. secondary pressure (p ₂)	10 bar (optionally 3, 6, 16 and 25 bar)					
Operating temperature	-10 °C up to +90 °C					
Mounting position/flow direction	any/in arrow direction					
Nominal width	DN 20		DN 20		DN 25	
Pre-pressure dependence	< 3 %		< 1.5 %		< 1.5 %	
Reverse control hysteresis	~ 1 bar					
Weight	2.05 kg		3.48 kg		5.26 kg	
Material diaphragm/seals	NBR					
Material housing, spring cover	zinc die-cast		brass		brass	

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