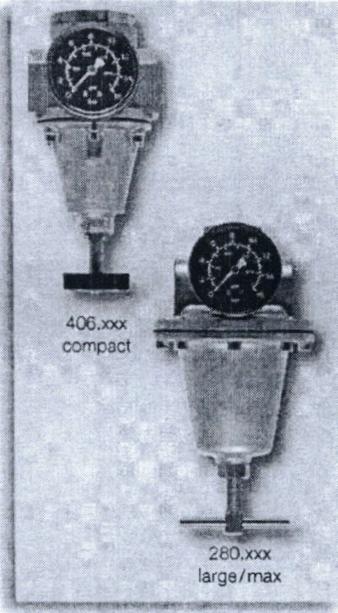


Pressure regulators - G^{3/4} - G1^{1/2}



406.xxx
compact

280.xxx
large/max

Note: Gauge added loosely

Pressure regulators regulate the system pressure (p_1) in a compressed air system to the working pressure (p_2) and keep this pressure, regardless of pressure fluctuations and air consumption, largely constant. The excess pressure valve (secondary venting) allows a reduction of the secondary pressure (p_2) (= exhaust) without air extraction. At the same time compressed air escapes into the atmosphere when the pressure on the secondary side exceeds the set value. Working pressure ranges from 0,5 - 3/6/10/16 and 25 bar. Operation by means of a toggle or handwheel (size large + max for 16 and 25 bar with hexagon screw AF19). Special models (for example, without secondary air exhaust) upon request. Gauge can be mounted on either side. Panel or bracket mounting if desired. Port sizes G^{3/4} to G1^{1/2}. **Note:** To avoid losses an air filter should be installed upstream. **Also suitable for use with neutral and non-toxic gases!**

Standard versions:

Control range 0,5-10bar, with gauge

Size	Order No.			
	Connection threads			
	G ^{3/4} *	G1	G1 ^{1/4} *	G1 ^{1/2}
compact	406.283*	406.293	-	-
large	280.383*	280.393	-	-
max	-	-	280.3103*	280.3113

* inlet and outlet reduced (reductions added loosely, see page 50)

Order key for all variants:

Size compact

406.xxx

406.281

- 1 - 0,5- 3bar
 - 2 - 0,5- 6bar
 - 3 - 0,5- 10bar
 - 4 - 0,5- 16bar
- control range (p_2)
- 8 - G^{3/4}*
 - 9 - G1
- connection threads
- 2 - handwheel with gauge (up to 10bar)
 - 3 - toggle with gauge
 - 4 - handwheel without gauge (up to 10bar)
 - 6 - toggle without gauge

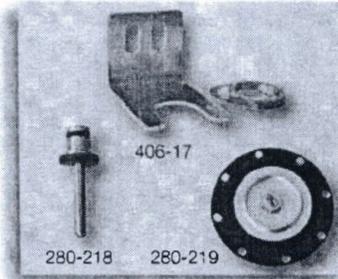
Size large/max

280.xxxx

- 1 - 0,5- 3bar
 - 2 - 0,5- 6bar
 - 3 - 0,5- 10bar
 - 4 - 0,5- 16bar
 - 5 - 0,5- 25bar
- control range (p_2)
- 8 - G^{3/4}*
 - 9 - G1
 - 10 - G1^{1/4}*
 - 11 - G1^{1/2}
- connection threads
- 3 - toggle*** with gauge
 - 5 - toggle*** without gauge

for example:

280.3113 - without gauge and 0,5-25bar = 280.5115



Spare parts and accessories

Bracket mounting for fixing on lid/attachment to the cover fixing screws

Panel mounting panel thread M28x1,5

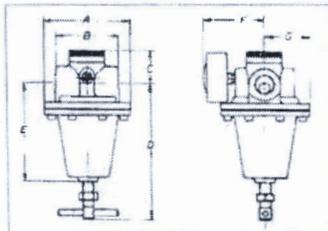
Gauge horizontal, ø63	Display range:	compact	large	max
	0- 6bar (for p_2 up to 3 bar)	213	213	213
	0-10bar (for p_2 up to 6 bar)	214	214	214
	0- 16bar (for p_2 up to 10 bar)	215	215	215
	0-25bar (for p_2 up to 16 bar)	216	216	216
	0-40bar (for p_2 up to 25 bar)	-	217	217

Seal cone complete

Diaphragm complete

Gauges see chapter 11

	Order No.		
	compact	large	max
Bracket mounting	406-17	280-239	280-239
Panel mounting panel	406-18	-	-



Dimensions [mm]

Size	compact		large		max	
	G ^{3/4} *	G1	G ^{3/4} *	G1	G1 ^{1/4} *	G1 ^{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

*inlet and outlet reduced (reductions added loosely)

Fasteners and connecting elements see page 49

Technical data

	Size compact	Size large	Size max
Nominal rates of flow**	5330 NI/min	7830 NI/min	12160 NI/min
Max. operating pressure (p_1)	25 bar (PN25)	40 bar (PN40)	40 bar (PN40)
Max. secondary pressure (p_2)	10bar (optionally 3, 6, 16 bar)		
Operating temperature	-10°C up to +90°C		
Mounting position	any		
Direction of flow	see arrow		
Nominal width	DN20	DN20	DN25
Dependence upon supply pressure	< 3%	< 1,5%	< 1,5%
Reversing control hysteresis	~ 1 bar		
Weight	2050g	3480g	5260g
Material	- diaphragm - seals - housing/spring cover	NBR NBR brass	brass

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

Rates of flow $p_1 = p_2 + 2$ bar

