Pressure regulators - G 1/8 – G 1/2

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 to 3/6/10 and 16 bar. Operation by means of a toggle or handwheel. 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 1/8 to G 1/2.
Note: To avoid losses an air filter should be installed upstream.
Also suitable for use with neutral and non-toxic gases!


323.333

Standard versions:

Control range 0,5 - 10 bar, with toggle, with gauge

Size	Order No. Connection threads G 1/8*	G 1/4*	G 3/8	G 1/2
small	**323.313***	**323.323***	**323.333**	-
intermediate	**280.313***	**280.323***	**280.333**	-
medium	-	-	**280.353***	**280.363**

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

Order key for all variants:

323/280.xxx

- control range (p_2):
  - **1** – 0,5 - 3 bar
  - **2** – 0,5 - 6 bar
  - **3** – 0,5 - 10 bar
  - **4** – 0,5 - 16 bar
- connection threads:
  - **1** – G 1/8*
  - **2** – G 1/4*
  - **3** – G 3/8 *size small, intermediate*
  - **5** – G 3/8* *size medium*
  - **6** – G 1/2
- **2** – handwheel with gauge
- **3** – toggle with gauge
- **4** – handwheel without gauge
- **5** – toggle without gauge

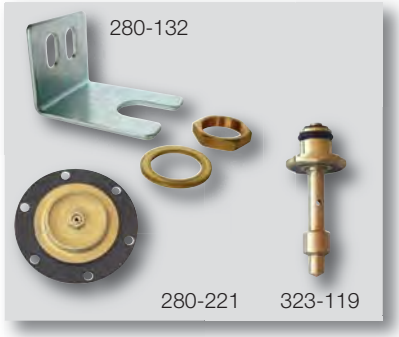
for example:
*323.323 – **without gauge** and **0,5 - 16 bar** = 323.**5**2**4***

Note: Gauge added loosely

Spare parts and accessories

	Order No. small	intermediate	medium
Bracket mounting for fixing on lid	**323-68**	**280-134**	**280-132**
Panel mounting panel thread: M14x1 (small), M20x1,5 (intermediate), M22x1 (medium)	**323-69**	**323-66**	**280-133**
Gauge, horizontal, display ranges: 0 - 6 bar *(for p_2 up to 3 bar)*	**42**	**213**	**213**
ø50 (size small) 0 - 10 bar *(for p_2 up to 6 bar)*	**55**	**214**	**214**
ø63 (size intermediate, medium) 0 - 16 bar *(for p_2 up to 10 bar)*	**85**	**215**	**215**
0 - 25 bar *(for p_2 up to 16 bar)*	**96**	**216**	**216**
Seal cone complete	**323-119**	**406-37**	**280-220**
Diaphragm complete	**323-152**	**280-223**	**280-221**

Gauges see chapter 11

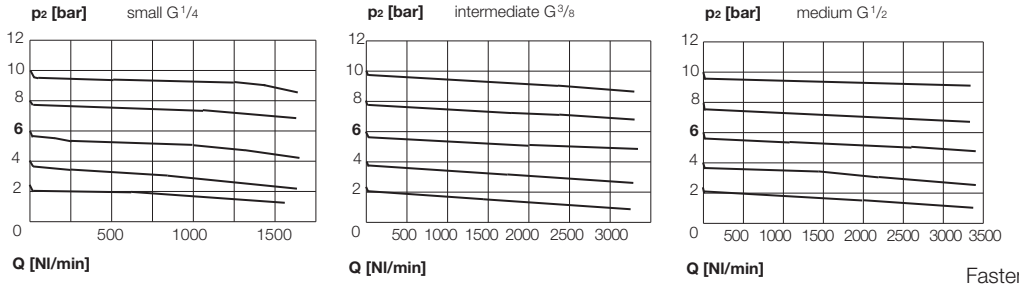


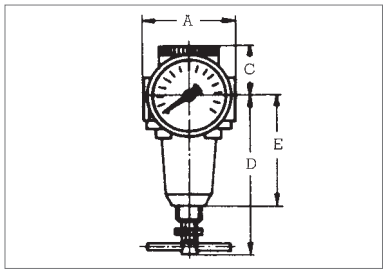
Technical data

	Size small	Size intermediate	Size medium
Nominal rates of flow**	1000 Nl/min	2000 Nl/min	2670 Nl/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	any		
Direction of flow	see arrow		
Nominal width	DN 6	DN 10	DN 15
Dependence upon supply pressure	< 3 %	< 2 %	< 2 %
Reversing control hysteresis	~ 1 bar		
Weight	620 g	1150 g	1350 g
Material - diaphragm, seals	NBR		
- housing/spring cover	zinc alloy		

** measured at p_1 = 8 bar, p_2 = 6 bar and Δp = 1 bar

Rates of flow $p_1 = p_2 + 2$ bar





Dimension [mm]

Size	small		intermediate		medium	
Connection threads	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	90	78	78	85	85

* inlet and outled reduced (reductions added loosely)

Fasteners and connecting elements see page 49