

Precision pressure regulators type 495 - G^{1/4} - G1



Pressure regulator with a **precise regulation for highest demands**. It is suitable for all processes that require a precise regulation of compressed air. Pressure regulators as "diaphragm type" do regulate changing line pressure in the air system (inlet pressure p_1) independent of pressure fluctuations and air consumption. It is mostly constant at a working pressure set (secondary pressure p_2). This guarantees optimal and economical operation of the system. This type has an exceptional little **air consumption of 1,5l/min**. The built-in excess pressure valve (secondary venting) allows a reduction of the secondary pressure (= exhaust) without air extraction. At the same time compressed air escapes into the atmosphere, as soon as the pressure on the secondary side exceeds the set value. To avoid contamination or loss, there should be a *micro-filter* (type 491) pre-connected.

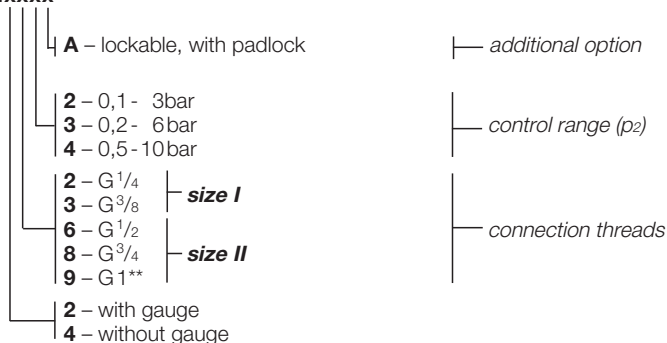
Standard versions:

Control range (p_2) 0,5-10 bar, with gauge

Size	Order No.				
	Connection threads				
	G ^{1/4}	G ^{3/8}	G ^{1/2}	G ^{3/4}	G1**
I	495.224	495.234	-	-	-
II	-	-	495.264	495.284	495.294

Order key for all variants:

495.xxxx



for example:

495.224 – without

gauge = 495.424



495.224

Cover in individual color available upon request (standard: grey)!

Note: Gauge (self-sealing) added loosely

Spare parts

	Order No.	
	size I	size II
Gauge horizontal, $\varnothing 40$ (size I), $\varnothing 50$ (size II) Class 1,6	Display ranges: 0- 4 bar (for p_2 up to 3 bar) 0- 6 bar (for p_2 up to 6 bar) 0- 10 bar (for p_2 up to 10 bar)	401 501 402 502 403 503
Diaphragm complete with slip ring		495-101 495-201
Seal cone complete		481-17 480-218



495-101

481-17

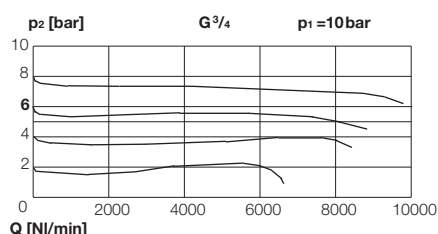
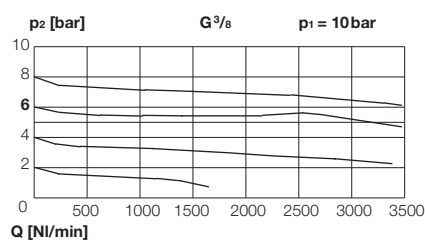
Technical data

	Size I		Size II		
	G ^{1/4}	G ^{3/8}	G ^{1/2}	G ^{3/4}	G1**
Connection threads	G ^{1/4}	G ^{3/8}	G ^{1/2}	G ^{3/4}	G1**
Nominal rates of flow (NI/min)*	2000	3200	7000	8000	8000
Max. operating pressure (p_1)	25 bar				
Max. secondary pressure (p_2)	10 bar (opt. 3,6 bar)				
Max. operating temperature	-10 up to +60 °C				
Flow direction of flow	see arrow				
Dependence upon pre-pressure	< 3 %				
Reversing control hysteresis	< 0,1 bar				
Air consumption (measured at 10 bar pre-pressure (p_1))	< 1,0 l/min				
Material	- housing - seals		zinc alloy NBR		
Weight (without gauge)	390g		950g	950g	1410g

* Measured at 10 bar pre-pressure (p_1), 6 bar secondary pressure (p_2) and $\Delta p = 1$ bar acc. to DIN ISO 6953

** Inlet and outlet only with mounting plates set G1 (included, see page 70)

Rates of flow



Dimensions [mm]

Size	I	II	
Connection thread	G ^{1/4} , G ^{3/8}	G ^{1/2} , G ^{3/4}	G1**
A	48	70	125
B	98	134	134
C	48	70	70
D (\varnothing)	28	39	39
E	68	98	98
F	24	35	35
H	26	33	33
I	M30x1,5	M42x1,5	M42x1,5
J	43	62	62
K	14,5	18	18
L (\varnothing)	4,4	5,4	5,4
M	84	106	106
N (\varnothing)	40	50	50
V	G ^{1/4}	G ^{1/4}	G ^{1/4}

