



VACUUM REGULATORS WITH PNEUMATIC ADJUSTMENT

3D drawings are available on vuototecnica.net

Vacuum regulators with pneumatic adjustment differ from the previous ones for the way they adjust the level of vacuum; in fact, instead of acting manually on the adjustment screw, it is necessary to act on the pneumatic cylinder compressed air supply: the higher the pressure, and the higher the level of vacuum and vice-versa. Vacuum regulators are used to adjust the pre-set level of vacuum and keep it constant (secondary vacuum), regardless of the pump vacuum level or the vacuum level (primary vacuum). Unlike the vacuum adjusting valves, regulators do not introduce atmospheric air into the circuit, thus producing more gripping points with different vacuum values, from only one vacuum source.

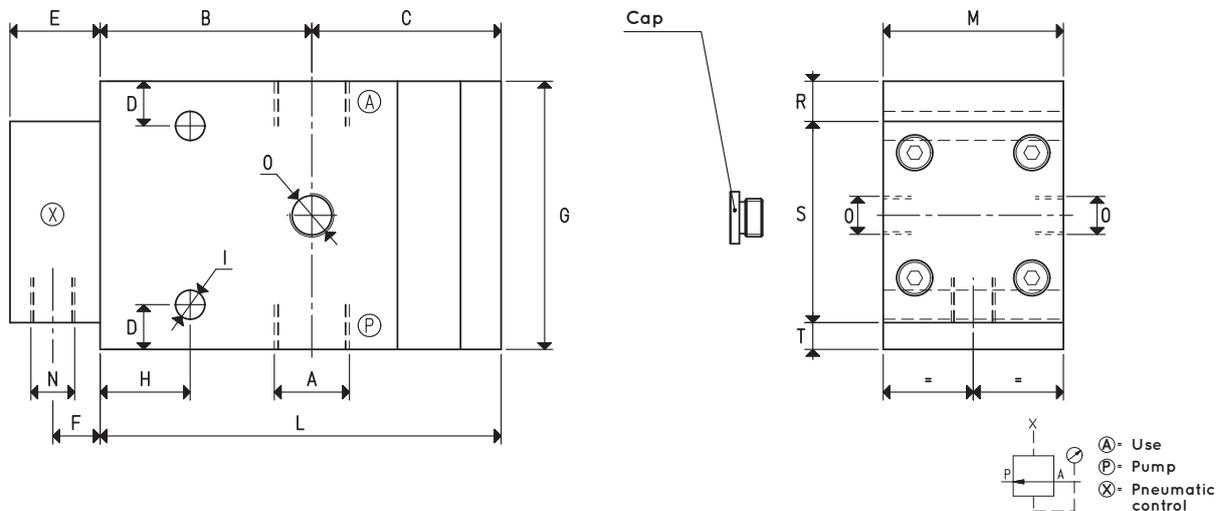
Their operating principle is based on the contrasting action between a pneumatic cylinder with short stroke and a fluctuating piston driven by the pressure differential existing between the secondary vacuum and the atmospheric pressure.

Technical features

- Operation: membrane-piston regulator.
- Supply pressure: from 0 to 3 bar for regulators item 11 .. 30;
from 0 to 5 bar for regulators item 11 .. 80.
- Adjustable working pressure: from 800 to 1 mbar abs. for regulators item 11 .. 30;
from 980 to 1 mbar abs. for regulators item 11 .. 80.
- Flow rate: from 2 to 160 m³/h.
- Room temperature: from -10 to +80 °C.
- Installation position: any.

Usage

Vacuum regulators are mainly used on centralised plants where, regardless of the plant level of vacuum, each grip can be adjusted within that value. Moreover, they are necessary whenever the working vacuum must be lower than the primary vacuum and kept constant. Vacuum regulators with pneumatic adjustment can be installed away from the control point, since it is sufficient to have a pressure regulator on the control panel to act on them.



Item	A Ø	Max capac. m ³ /h	B	C	D	E	F	G	H	I Ø	L	M	N Ø	O Ø	R	S	T	Weight Kg
11 01 30	G1/4"	6	47	42.0	10	20	10.5	60	20	6.5	89.0	40	G1/8"	G1/8"	9.0	45	6.0	0.71
11 02 30	G3/8"	10	47	42.0	10	20	10.5	60	20	6.5	89.0	40	G1/8"	G1/8"	9.0	45	6.0	0.69
11 03 30	G1/2"	20	53	52.0	15	26	16.5	85	25	8.5	105.0	50	G1/8"	G1/4"	16.5	58	10.5	1.32
11 04 30	G3/4"	40	55	55.5	15	26	16.5	100	30	8.5	110.5	50	G1/8"	G1/4"	24.0	58	18.0	1.94
11 05 30	G1"	80	60	58.0	15	26	16.5	120	30	8.5	118.0	60	G1/8"	G1/4"	34.0	58	28.0	2.35
11 06 30	G1 1/2"	160	54	77.5	15	30	19.5	160	20	8.5	131.5	99	G1/4"	G1/4"	37.5	80	42.5	5.56
11 03 80	G1/2"	20	53	52.0	15	26	16.5	120	25	8.5	105.0	60	G1/8"	G1/4"	34.0	58	28.0	2.28
11 05 80	G1"	80	60	58.0	15	26	16.5	120	30	8.5	118.0	100	G1/8"	G1/4"	34.0	58	28.0	3.96
11 06 80	G1 1/2"	160	54	77.5	15	30	19.5	160	20	8.5	131.5	99	G1/4"	G1/4"	37.5	80	42.5	5.60

Accessories and Parts		11 01 30	11 02 30	11 03 30	11 04 30	11 05 30	11 06 30	11 03 80	11 05 80	11 06 80
Sealing kit	item	00 11 122	00 11 123	00 11 124	00 11 125	00 11 126	00 11 127	00 11 128	00 11 129	00 11 130
Vacuum gauge	item	09 03 15	09 03 15	09 03 10	09 03 10	09 03 10	09 03 10	09 03 10	09 03 10	09 03 10
Vacuum switch	item	12 40 10	12 40 10	12 40 10	12 40 10	12 40 10	12 40 10	12 40 10	12 40 10	12 40 10

Note: The vacuum gauges and vacuum switches are not integral parts of the regulators and, therefore, must be ordered separately.

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$ Adapters for GAS - NPT threading available on page 1.134