Vacuum regulators

Vacuum regulators with external leakage — 4 - 70 m³/h

Suitable: With a preset vacuum level this valve breathes the atmospheric air and prevents the vacuum level from exceeding beyond the desired vacuum value. It is used to adjust a vacuum system with the same operating vacuum. The setting is done using a fine thread of the valve and the mechanical opening due to the spring load.

Type **brass nickel-plated**	Thread	Pressure regula. range	Suction performance (m³/h)	L	SW
R 18 VU B	G 1/8"	-1 to -0.33 bar	4	45	12
R 12 VU B	G 1/2"	-1 to -0.33 bar	20	57	24
R 34 VU B	G 3/4"	-1 to -0.33 bar	40	60	30
R 10 VU B	G 1"	-1 to -0.33 bar	70	65	35

The vacuum can also be controlled when there is a permanent leakage in the vacuum system. This can be achieved by one of our needle valves (see page 294).

TIP *The ideal vacuum regulator for small volume flows!*

Vacuum regulators - miniature — 22 l/min

Precision vacuum regulators made of plastic, with high pressure stability, small dimensions and light weight.
20 rotations for the regulation range with hysteresis-free setting.
Materials: Polysulphone, polyurethane, NBR, EPDM, acetal, stainless steel
Temperature range: +4°C to max. +66°C
Setting accuracy: 2.5 mbar
Note: For cleaning or sealing, do not use any dissolving medium!

Type	Thread	Suction performance (l/min)	Pressure gauge connection	Pressure regula. range
RP 50 VU	M5	22	---	-0.35 to 0 bar
RP 50 VU H	M5	22	---	-0.85 to 0 bar

Vacuum regulators without external leakage — 6 - 160 m³/h

manual adjustment

Pneumatic adjustment

Suitable: Using these vacuum regulators it is possible to accurately regulate a vacuum without needing external leakage. They are used in vacuum systems where individual consumer units need to be supplied with different levels of vacuum.
Adjustment: The configuration is carried out using a knurled screw or via a pneumatic signal.
Installation position: Arbitrary
Temperature range: -10°C to max. +80°C

Type **manual adjustment**	Type **pneumatic adjustment**	Thread	Suction performance (m³/h)	Pressure gauge connection	Pressure regulation range	Control pressure for pneumatic setting
Standard controller						
R 14 VU	R 14 VU-P	G 1/4"	6	G 1/8"	-1 to -0.2 bar	0 to 3 bar
R 38 VU	R 38 VU-P	G 3/8"	10	G 1/8"	-1 to -0.2 bar	0 to 3 bar
R 12 VU	R 12 VU-P	G 1/2"	20	G 1/4"	-1 to -0.2 bar	0 to 3 bar
R 34 VU	R 34 VU-P	G 3/4"	40	G 1/4"	-1 to -0.2 bar	0 to 3 bar
R 10 VU	R 10 VU-P	G 1"	80	G 1/4"	-1 to -0.2 bar	0 to 3 bar
R 112 VU	R 112 VU-P	G 1 1/2"	160	G 1/4"	-1 to -0.2 bar	0 to 3 bar
Precision regulator						
R 12-2 VU	R 12-2 VU-P	G 1/2"	20	G 1/4"	-1 to -0.02 bar	0 to 7 bar
R 10-2 VU	R 10-2 VU-P	G 1"	80	G 1/4"	-1 to -0.02 bar	0 to 7 bar

Vacuum regulators - precision versions — 4 - 48 m³/h

Suitable: These vacuum regulators can be used for pressure regulation in the vacuum range as well as in the overpressure range. **Materials:** Body: Aluminium die-casting, internal parts: Stainless steel/brass, diaphragms: NBR and Dacron
Temperature range: -40°C to max. +90°C
These vacuum regulators allow controlling the vacuum as a bypass or using shut-off technology.
1. Bypass adjustment*: This adjustment should be used, if an existing vacuum must be reduced by delivering compressed air. Recommended for adjusting large vacuum quantities.
2. Stop adjustment*: The vacuum is pulled and adjusted by the regulator. Once the desired value is reached, the regulator is closed. Recommended to save vacuum energy.

Type	Thread	Suction perform.	Press. gauge connection	Pressure regula. range	Height	Width	Depth	Mounting bracket
RP 14 VU	G 1/4"	4 m³/h	G 1/4"	-1 to 0.14 bar	184	76	76	RP 14 VU W
RP 34 VU	G 3/4"	48 m³/h	G 1/4"	-1 to 0.7 bar	238	87	87	---

* please ask for separate operating instructions.


Pressure gauge from page 366


Pressure gauge shut-off valves from page 387


Solenoid valves for vacuum from page 409


Spiral hoses from page 220


Suction cups from page 510


Shock absorber from page 502


Filters from page 509


Ball valves from page 280