

High performance precision pressure regulators

up to 1250 l/min

Application: High performance precision pressure regulators are used in order to adjust an extremely accurate pressure - regardless of pre-pressure and flow performance. It is used for example for control and regulation units in process engineering, which has the highest pressure stability requirements. The precision pressure regulator convinces through low own air consumption and large relieving system, both of which can be captured and discharged via a G 1/4" borehole.

Version: Resettable (with relieving system) through G 1/4" borehole

Materials: Body: Aluminium, diaphragms and seals: NBR

Temperature range: Temperature range: -10°C to max. +60°C

Input pressure: Max. 12 bar

Flow: 1250 l/min, relieving system: 500 l/min

Own air consumption: < 0.5 l/min (at 8 bar input pressure)

Control accuracy: ± 2.5 mbar

Pressure gauge connection: G 1/8"

Media: Uncoiled, finely filtered compressed air (5 µm), non-toxic and non-inflammable gases

Switch panel thread: M 12 x 1 and M 30 x 1.5

- ✓ **Advantages:**
- Automatic venting in the event of overpressure on the secondary side up to 500 l/min
 - Captured exhaust for relieving system and own air consumption
 - High flow at constant pressure
 - Most precise pressure regulation regardless of the pre-pressure and flow performance

Type	Thread	Pressure regula. range	Mounting bracket
FDR 07-8	G 1/4"	0.05 - 8 bar	MW 1



Suitable pressure gauges can be found on page 372.



Precision pressure regulators for low pressures

up to 8000 l/min

Version: Not resettable (without relieving system)

Materials: Body and spring hood: Aluminium painted (type 1/2": stainless steel spring hood), diaphragm: NBR (PTFE coated), internal parts: Brass, seals: NBR

Temperature range: -20°C to max. +60°C

Input pressure: Max. 6 bar (type G 1": max 7 bar)

Pressure gauge connection: G 1/4"

Media: Oiled and uncoiled compressed air, non-toxic and non-flammable gases (incl. nitrogen)

☞ **Optional:** For CO₂ (EPDM membrane) -CO

Type	Thread	Pressure regula. range	Pressure gauge display	Mounting bracket
Flow 1000 l/min**				
RPM 12-45	G 1/2"	5 - 45 mbar	0 - 60 mbar	RPM W
RPM 12-200	G 1/2"	20 - 200 mbar	0 - 250 mbar	RPM W
RPM 12-700	G 1/2"	150 - 700 mbar	0 - 1 bar	RPM W
Flow 3,000 l/min**				
RPM 10-45	G 1"	5 - 45 mbar	0 - 60 mbar	---
RPM 10-120	G 1"	10 - 120 mbar	0 - 250 mbar	---
RPM 10-400	G 1"	10 - 400 mbar	0 - 1 bar	---
RPM 10-700	G 1"	15 - 700 mbar	0 - 1 bar	---
RPM 10-1200	G 1"	200 - 1200 mbar	0 - 1.6 bar	---
Flow 8,000 l/min**				
RPM 112-50	G 1 1/2"	20 - 50 mbar	0 - 60 mbar	---
RPM 112-150	G 1 1/2"	50 - 150 mbar	0 - 250 mbar	---
RPM 112-300	G 1 1/2"	150 - 300 mbar	0 - 600 mbar	---
RPM 112-3000	G 1 1/2"	0.3 - 3 bar	0 - 4 bar	---
Flow 8,000 l/min**				
RPM 20-50	G 2"	20 - 50 mbar	0 - 60 mbar	---
RPM 20-150	G 2"	50 - 150 mbar	0 - 250 mbar	---
RPM 20-300	G 2"	150 - 300 mbar	0 - 600 mbar	---
RPM 20-3000	G 2"	0.3 - 3 bar	0 - 4 bar	---

* thread outlet 3/4", ** measured at 6 bar input pressure and max. output pressure

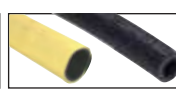
☞ **Order example:** RPM 12-45 **

Standard type

Designation for the options:
For CO₂ (EPDM diaphragm) . . . -CO



Threaded nozzles from page 64



Compressed air rubber hoses from page 212



Ball valves from page 280



Stainless steel screw connections from page 78



Digital and precision pressure gauge from page 381



Electronic pressure switches from page 391

