

Cylinder Pressure Regulators

VSR-1EM Series

VIGOUR

Product Features

- Cylinder pressure regulator with lightweight materials
- Brass chrome plated or aluminium body and aluminium bonnet for inert, reactive, flammable and oxidizing gas and mixtures up to grade 6.0
- Stainless steel 316L body and aluminium bonnet for corrosive gases
- Accurate and stable pressure control
- Minimal internal volume allows for rapid purging and carry-over
- Various porting configurations are available
- Tested for use with oxygen

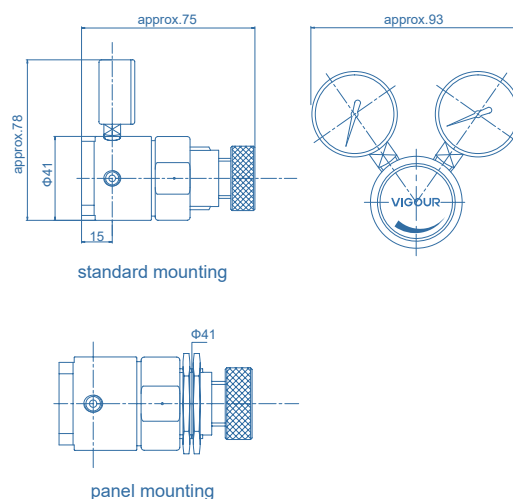
Typical Applications

- Analyzers
- Lecture bottles
- Sampling systems

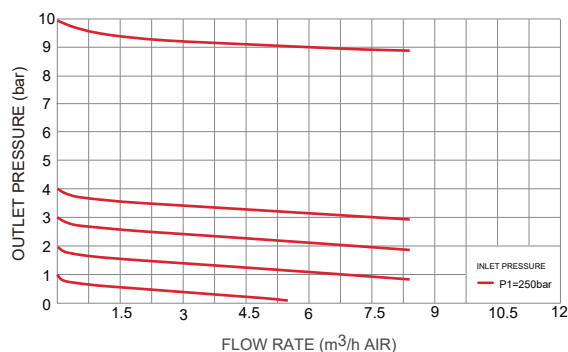
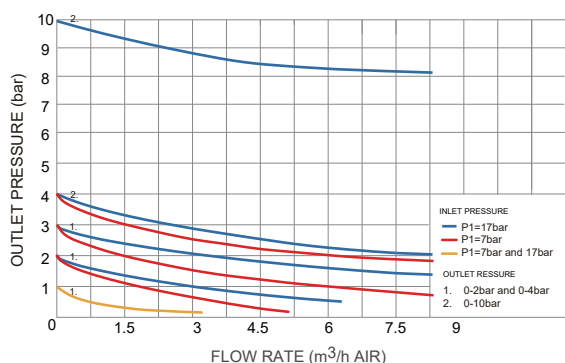
Technical Data

Type:	single-stage
Inlet pressure P1:	max. 250 bar
Outlet pressure P2:	2/4/10 bar
Materials	
Body regulator:	see ordering info
Valve seat:	PCTFE
Diaphragm:	Hastelloy® C276
O-ring:	Viton® (FKM)
(option)	Kalrez® (FFKM)
Filter:	SS 316L
Inlets and Outlets:	1/8", 1/4"NPT(F)
Temperature range:	-30°C to +74°C
Leak rate: (to atmosphere)	1x10 ⁻⁶ mbar l/s He
(via seat)	Bubble-tight
Flow capacity:	Cv=0.06
Weight:	0.47kg

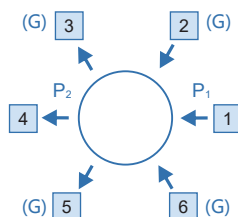
Dimensions (mm)



Flow Chart



Ordering Information



G: Gauge port is 1/8" NPT(F)

Inlets / Outlets

DIN: Germany
CGA: USA
BSP: British
GB: China
UNI: Italy

NF: French
JIS: Japan
F2: 1/8" NPT(F)
F4: 1/4" NPT(F)
M4: 1/4" NPT(M)

02: 1/8" Tube fitting
04: 1/4" Tube fitting
06: 3/8" Tube fitting
6M: 6mm Tube fitting
8M: 8mm Tube fitting

TW6M: 6mm Weld tube
TW8M: 8mm Weld tube
P: Gauge (Psig/bar)
R: Relief valve
B: Plug

* Other connection standard, consult factory.

Port Selection

VSR - 1EMP S - 250 - 10 - 1 - 2 - 3 - 4 - 5 - 6 - N₂

Options

None: Standard mounting
P: Panel mounting

Body Material

S: 316L
C: Chrome plated brass
A: Aluminum

Inlet Pressure P₁

40: 40 bar
100: 100 bar
200: 200 bar
250: 250 bar

Type of Gas

Please specify type of gas

Outlet Pressure P₂

2: to 2 bar
4: to 4 bar
10: to 10 bar

Ordering Example

Example: VSR - 1EMS - 250 - 10 - CGA - P - P - 04 - B - B - O₂

1 - 2 - 3 - 4 - 5 - 6



* For mixed gases, please specify cylinder connection standard and thread when ordering.

