

Pressure Control Panels

VUP-1U Series

Product Feature

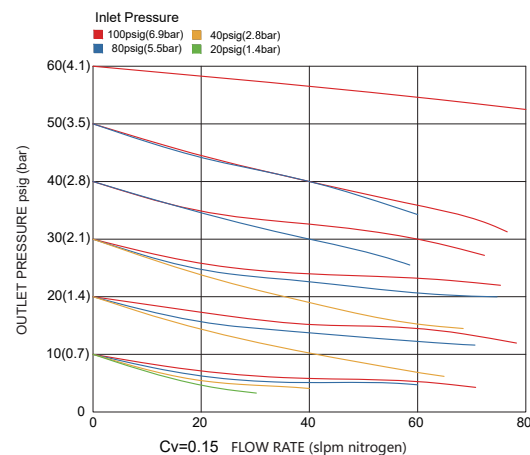
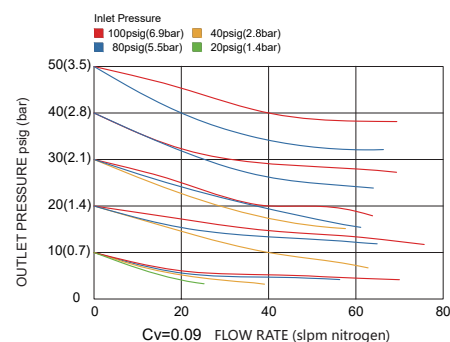
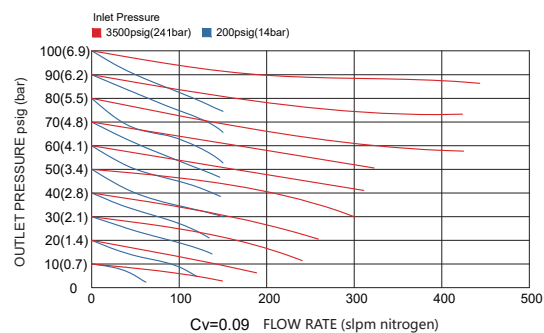
- Pressure Control Panels (Single side type)
- VSR-100UBS / UCS Series Single Stage Regulator
- VDV33UBS Series vent diaphragms Valves
VDV33UBS Series Inlet process diaphragm valves
- Orbital welded VFS-face seal connections
- Modular design
- Suitable for inlet pressure up to 3500 psig (250bar)
- Easy installation into safety cabinet for gas cylinders
- 100% Helium leak tested



Flowchart

Technical Data

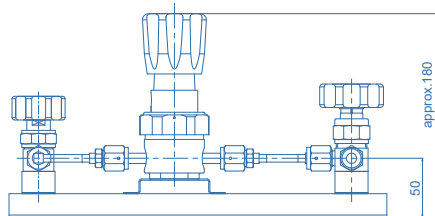
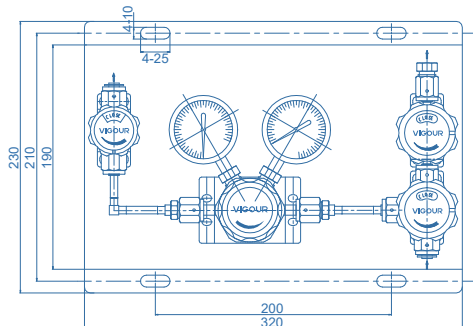
Type:	single-stage
Inlet pressure P1:	max. 3500 psig (250bar)
Outlet pressure P2:	Vac to 10/30/60/100/150/720/1400/2900/3500 psig (0.7/2/4/7/10/50/100/200/250bar)
Surface finish:	10µin. Ra (25µin. Ra optional)
Materials	
Body:	see ordering info
Valve seat (regulator):	PCTFE (Vespe® optional)
(diaphragm valve):	PEEK
Diaphragm (regulator):	Hastelloy® C276
(diaphragm valve):	Elgiloy®
Inlets and Outlets:	1/4" VFS Fitting
Temperature range:	-40°F to +160°F (-40°C to +71°C)
Leak rate: (to atmosphere)	1x10 ⁻⁹ mbar l/s He
(via seat)	1x10 ⁻⁸ mbar l/s He
Supply pressure effect:	0.35 psig rise in delivery pressure per 100 psig source pressure drop @Cv=0.09 0.5psig rise in delivery pressure per 100 psig source pressure drop @Cv=0.15
Flow capacity:	Cv=0.09 (Cv=0.15 option)



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Dimensions (mm)



Ordering Information

VUP - 1US - 250 - 10 - MV4 - MV4 - P - R25 - HF - VS

Body Material

S: 316L
SLV: 316L secondary remelt
SHP: 316L body and nozzle
Hastelloy® C22 poppet

*All options diaphragm material is Hastelloy® C276

Inlet Pressure P₁

20: 300 psig
250: 3500 psig

Outlet Pressure P₂

V0.7: Vac to 10 psig *
V2: Vac to 30 psig
V4: Vac to 60 psig
V7: Vac to 100 psig
V10: Vac to 150 psig
0.7: to 10 psig *
2: to 30 psig
4: to 60 psig
7: to 100 psig
10: to 150 psig
50: to 720 psig
100: to 1400 psig
200: to 2900 psig
250: to 3500 psig

* When the outlet pressure is "V0.7" and "0.7", the inlet pressure can only be "20".

Valve seat Option

None: PCTFE
VS: Vespel®

Cv Option

None: Cv=0.09
HF: Cv=0.15

Surface Finish

None: 10 µin. Ra
R25: 25 µin. Ra

Pressure Indication

None: Inlet / Outlet Pressure gauge
K: Contact gauge

Outlet Connection

MV4: 1/4" face seal male
FV4: 1/4" face seal female

Inlet Connection

MV4: 1/4" face seal male
FV4: 1/4" face seal female