

Single Stage Pressure Regulators

VSR-410UB Series

VIGOUR®

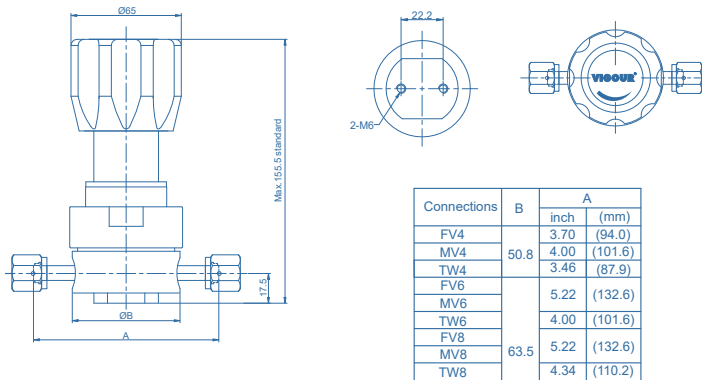
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We offer solutions regarding your ideas!

Product Feature

- Single-stage pressure regulator
- 10µin. Ra surface finish (25µin. Ra optional)
- Minimized internal volume for short purge times
- All gas-wetted parts made of stainless steel SS 316L, Hastelloy C276 and PCTFE respectively
- Internal connectors for pressure gauges
- High inlet pressure type: Max. 3000 psig
- High control accuracy
- Metal-to-metal seal to atmosphere
- Simple outlet pressure limitation by hand-wheel
- 100% helium-leak-tested
- Cleaned for O₂ service
- Tied-diaphragm design
- Sub-atmospheric pressure delivery option



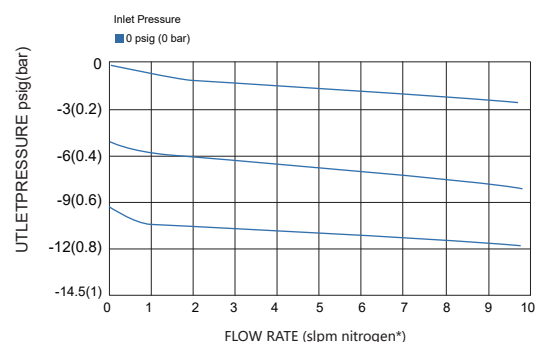
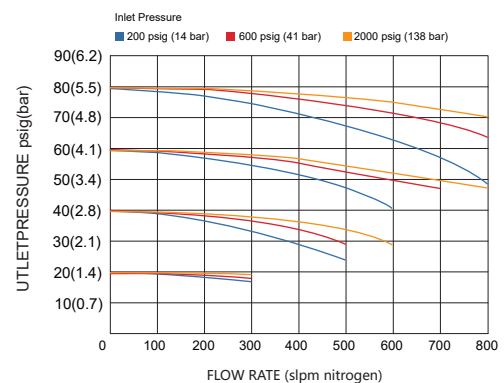
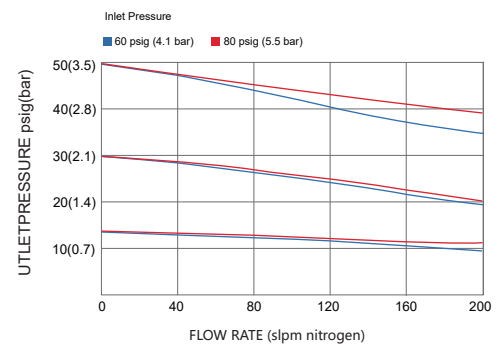
Dimensions (mm)



Technical Data

Type	single-stage
Inlet pressure P1	max. 3000 psig
Outlet pressure P2	-12.5~30/30/60/100/150 psig
Surface finish	10µin. Ra (25µin. Ra optional)
Materials	
Body	see ordering info
Valve seat	PCTFE (VespeI® optional)
Diaphragm	Hastelloy® C276
Inlets and Outlets	1/4" / 3/8" or 1/2" ace seal or tube weld
Bonnet port	1/8" NPT(F) (on panel mount option, bonnet port is not threaded)
Temperature range	-40°F to +160°F (-40°C to +71°C)
Leak rate (to atmosphere)	1x10 ⁻⁹ mbar l/s He
Leak rate (via seat)	1x10 ⁻⁸ mbar l/s He
Flow capacity	Cv=0.45
Weight	approx. 2.0kg
Supply pressure effect	1.6 psig rise in delivery pressure per 100 psig source pressure drop

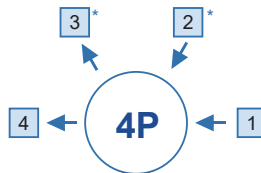
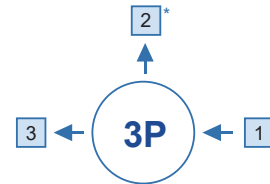
Flowchart



* The volumetric flow rate under normal conditions (0°C, 1 atm) when N₂ gas is flowing.



Ordering Information

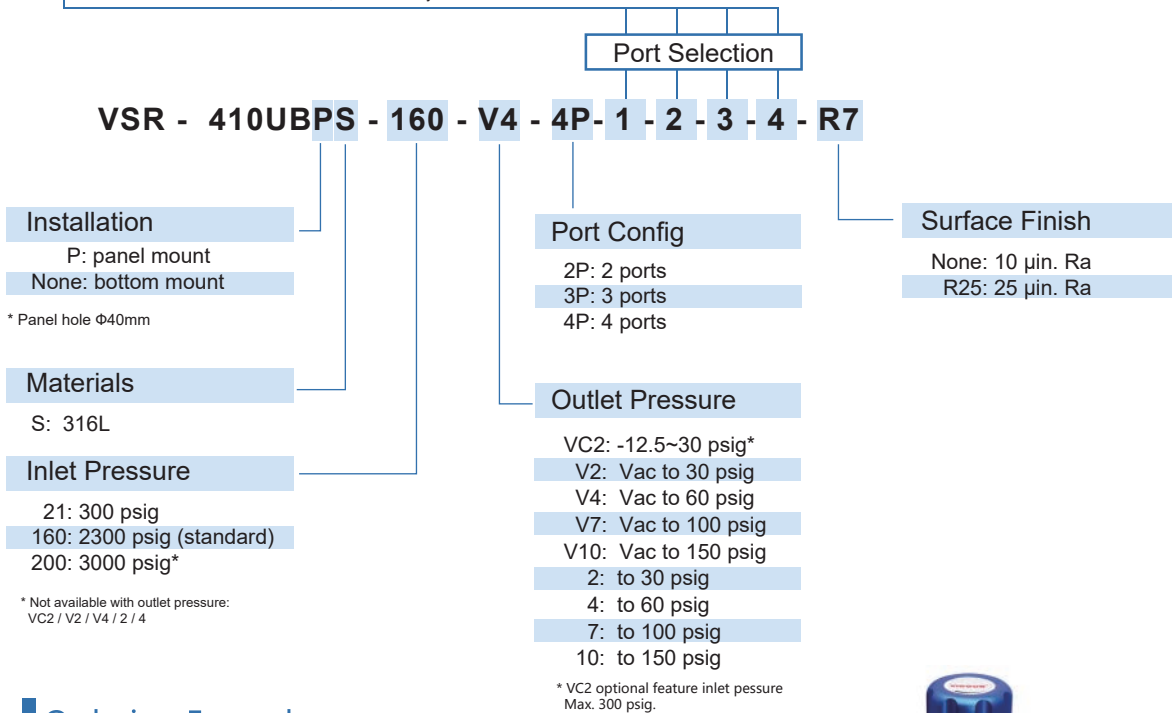


* port for gauge

Inlet/Outlet Connection

FV4: 1/4" face seal female	MV8: 1/2" face seal male
MV4: 1/4" face seal male	TW4: 1/4" tube weld
FV6: 3/8" face seal female	TW6: 3/8" tube weld
MV6: 3/8" face seal male	TW8: 1/2" tube weld
FV8: 1/2" face seal female	P: gauge

* Other connection standard, consult factory



Ordering Example

VSR - 410UBS - 160 - V4 - 2P - MV4 - MV4

1 - 2

