

Single Stage Pressure Regulators

VSR-610UC Series

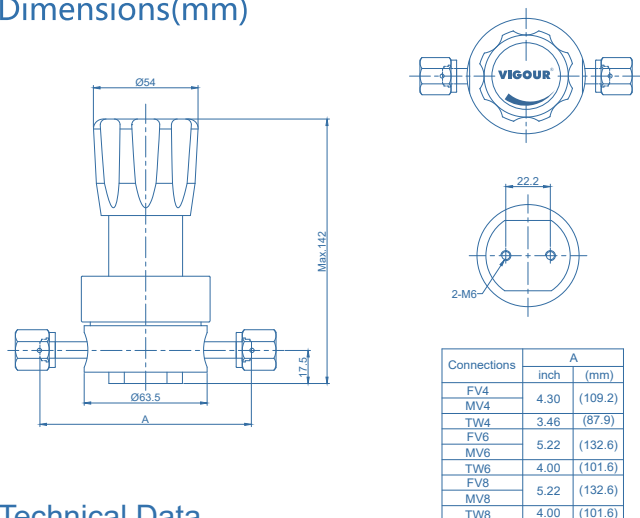
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Product Feature

- Single-stage pressure regulator
- 15µin. Ra max, 10µin. Ra average surface finish (10µin. Ra max, 7µin. Ra max, 5µin. Ra max 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
- Flow capacity: to 100 slpm
- High control accuracy
- Metal-to-metal seal to atmosphere
- Simple outlet pressure limitation by hand-wheel
- 100% helium-leak-tested
- Cleaned for O₂ service

Dimensions(mm)

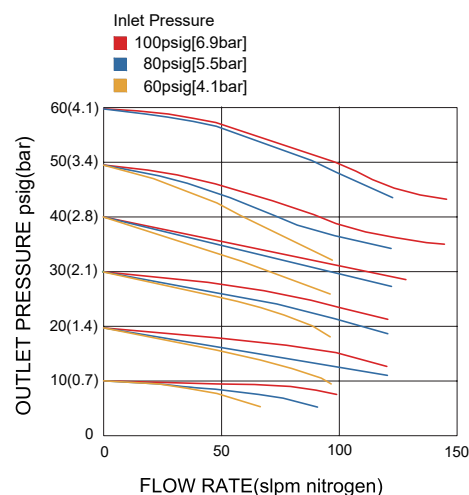
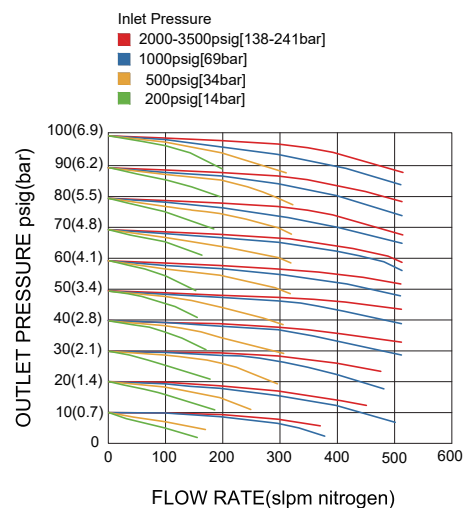


Technical Data

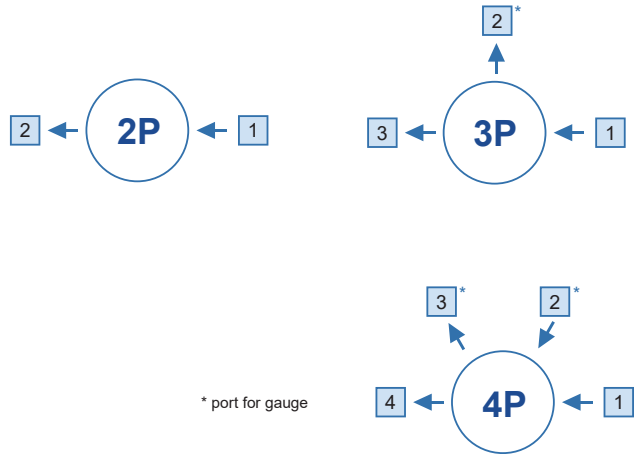
Type	single-stage
Inlet pressure P1	max. 3500 psig
Outlet pressure P2	10/30/60/100 psig
Surface finish	15µin. Ra max / 10µin. Ra avg (10µin. Ra max., 7µin. Ra max., 5µin. Ra max optional)
Materials	
Body	see ordering info
Valve seat	PCTFE
Diaphragm	Hastelloy® C276
Inlets and Outlets	1/4" / 3/8" or 1/2" face seal or tube weld
Bonnet port	1/8" NPT(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=0.13
Weight	approx. 1.54kg (depending on connections or options)
Supply pressure effect	0.25 psig rise in delivery pressure per 100 psig source pressure drop



Flowchart



Ordering Information

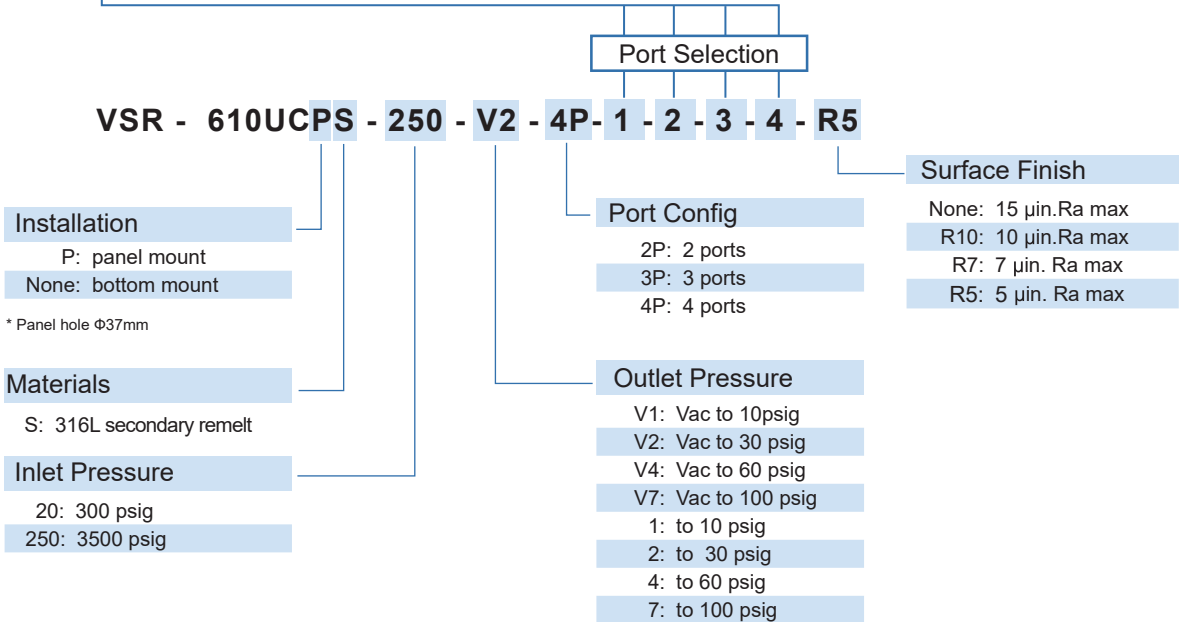


* port for gauge

Inlet/outlet Connection

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

* Other connection standard, consult factory



Ordering Example

VSR - 610UCS - 250 - V4 - 2P - MV4 - FV4
1 - 2

