VU1000 Series

Pressure Reducing Regulator

This is a versatile, compact regulator for both high and low pressure applications controlling a broad range of corrosive and non-corrosive gases.

Material of Construction

Wetted

Body.....SUS 316L VAR
Poppet.....SUS 316L VAR
Poppet Spring.....Inconel® 625
Nozzle Assy.....SUS 316L VAR
Nozzle Assy Seal..... PCTFE /Teflon®
Seat .....SUS 316L VAR
Diaphragm.....SUS 316L / Hastelloy C-22

Non-Wetted

Cap.....Stainless Steel
Knob.....Alum. Powder Coated

Operating Conditions

Max. Inlet.....4,000psig(240barg)
Outlet.....1~30psig (0.06~2barg) adjustable
2~100psig (7barg)
3~150psig (10barg)
5~300psig (21barg)
10~500psig (34barg)
Temp.....-40°F to 150°F (-40°C to 66°C)

Functional Performance

Flow Capacity.....C_V = 0.2/0.15/ 0.06
(ANSI/ISA S75.02 1988 using water)
Design Leak Rate:
Outboard.....$1x10^{-9}$scc/sec He
Inboard.....$2x10^{-10}$scc/sec He
Across the Seat.....$4x10^{-9}$scc/sec He
Supply Pressure Effect....0.5psig (0.03barg)
per 100psig (6.8barg)

Surface Finishes

Standard Ra.....15-10µin
(0.38-0.25µm)

Approximate Weight

2.42 lbs (1.1kg)

Features

- Instrument grade construction.
- Precise control of high purity gases and liquids.
- Tough rated for 4,000psig (275bar) supply pressure for cylinder use, it functions equally well with low supply pressure for point-of-use applications.
- Self-contained valve seat assembly.

Optional Features

- Pressure gauges, panel mounting, CGA fittings, relief valve and dome loading.