High Purity Stainless Steel Two Stage Regulator
HSS2 - Series

DESCRIPTION

The HSS2 regulators are designed and constructed for both high purity and general purpose applications. While compact in design these regulators provided outstanding performance, but are rugged and versatile enough for laboratory or plant applications. They are ideally suited for use for applications where precise control of pressure is required.

FEATURES

- Minimal internal volume:
- Seat area protected by a 10 micron filter.
- Five delivery pressure ranges available.
- Stainless steel diaphragm eliminates contamination from diffusion or out gassing.
- 1 x 10^{-9} cc/sec. inboard helium leak rate

APPLICATIONS

The HSS2 series regulators are ideally suited for use with cylinders of research purity, high purity, ultra high purity and corrosive gases up to 6.0 purity. They are an excellent choice for ultra high purity gases or gas mixtures used with instrumentation requiring up to 6.0 purity.

SPECIFICATIONS

Max. Inlet Pressure:	3,000 psig
Operating Temperature Range:	-20°F to 120°F
Internal Volume:	
Leakage:	
Flow Coefficient (C_V):	0.05
Shipping Weight:	4.43 lbs.

MATERIALS OF CONSTRUCTION

Body:	316L Stainless Steel Barstock
Bonnet:	Brass Barstock, Chrome Plated
Diaphragm:	316L Stainless Steel
Seat:	PTFE Teflon
Seals:	PTFE Teflon
Filters:	10 Micron Sintered Stainless Steel
Gauges:	2” Stainless Steel

OPTION SPECIFICATIONS

Optional Diaphragm Valve:	Stainless Steel Body Kel-f Seat, Eigiloy Diaphragm and Viton seals

Warning: A purge assembly is strongly suggested when using the above regulator with any corrosive gas.

Model Selection Guide

Example: HSS2125V320 = model HSS2 with up to 125 psig delivery pressure, with diaphragm outlet valve and CGA320 connection

Specify:	Maximum Delivery Pressure		Outlet Port	CGA Inlet Connection
HSS2	**[***}**		**[*]**	**[***]**
	Delivery Pressure Range **015** = 0-15 psig **050** = 0-50 psig **125** = 0-125 psig **250** = 0-250 psig **500** = 0-500 psig	**Delivery Pressure Gauge** 30” Hg - 30 psig 30” Hg - 100 psig 30” Hg - 200 psig 0 - 400 psig 0 - 1000 psig	**0** = No Valve (1/4” NPT female) **V** = Diaphragm Valve	000 = None (1/4” NPT female) 240 = Ammonia 320 = Carbon Dioxide 326 = Nitrous Oxide 330 = Corrosive Gases 346 = Zero Air, Compressed Air 350 = Hydrogen 540 = Oxygen 580 = Argon, Helium, Nitrogen 590 = Zero Air 660 = Refrigerant Gases 705 = Ammonia