ECONOMICAL, CORROSIVE GAS, HIGH PURITY 2-STAGE REGULATOR
Series 3550

DESCRIPTION

The Series 3550 two stage regulators are designed and constructed for use with reactive and corrosive gases and gas mixtures. While compact in design these regulators provide outstanding performance, comparable to most larger diaphragm competitive models. The monel® internal parts installed in a 316L stainless steel body create an economical, high purity, corrosive gas regulator.

FEATURES

- Monel® internal parts for added corrosion resistance.
- High purity diffusion resistant, metal diaphragm construction on both stages.
- Encapsulated seats on both stages.
- Diffusion resistant, stainless steel diaphragm packless control valve installed on outlet as standard.
- Designed to pass an inboard helium leak-rate test of 1×10^{-9} cc per sec.
- All parts ultrasonically cleaned prior to assembly.

APPLICATIONS

The 3550 Series regulators are ideal for critical pressure reduction applications involving higher pressure reactive and/or corrosive gases, where the precise control of pressure or flow is required. They are an excellent choice for use with gas mixtures of such components having a full cylinder pressure of 1000 psig or more.
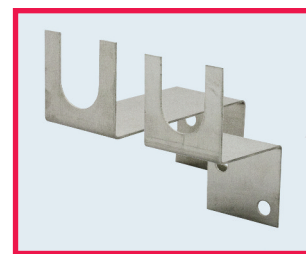
SPECIFICATIONS

Max. Inlet Pressure: 3000 psig
Operating Temp. Range: -40° to +185°F.
Flow Coefficient(C_V): 0.08
Inlet and Outlet: 1/4" NPT female
Outlet Valve Standard
Delivery Pressure Rise: 0.02 psig max. per 100 psi inlet pressure decay.

MATERIALS OF CONSTRUCTION

Body: 316L stainless steel
Seat Assemblies: Monel®
Seats: First and Second Stage: Kel-F®
Diaphragms: Elgiloy
Diaphragm Seal: Teflon®
Inlet Filter: Monel®
Bonnet: nickel plated aluminum
Gauges: stainless steel
Outlet Valve: 316 stainless steel
Outlet Connections: 316 stainless steel

EZ Mounting Brackets (see page 101).

HOW TO ORDER***

Model Number	Del. Press. Range psig	Del. Press. Gauge psig	Inlet Press. Gauge psig
3551-25-CGA*	5-25	0-30	0-3000
3551-50-CGA*	5-50	0-100	0-3000
3551-100-CGA*	10-100	0-200	0-3000

*Specify CGA Connection Number when ordering.
***For panel mounting bonnet add "PM" to base number (i.e., 3551PM-50-CGA).

OUTLET OPTIONS

	P/N Suffix
No Outlet Valve	NV
1/4" Compression Fitting	T4F
1/8" Compression Fitting	T2F
1/4" NPT Male	P4M
1/4" Hose Barb	4HB

Warning: A Purge assembly (see pages 96 and 97) is strongly suggested when using the above regulators with any corrosive gas.