

408 Series Regulator



Single Stage Anodized Aluminum Barstock Body 316L Stainless Steel Diaphragm



The 408 Series regulators are intended for primary pressure control of mildly corrosive high purity gases such as ammonia, hydrogen sulfide and sulfur dioxide or for application requiring the lightweight advantage of an aluminum body regulator. Typical applications include Gas and Liquid Chromatography, Semi-corrosive gases and mixtures and High purity carrier gases.

Typical Applications

- Mildly corrosive gases
- Gas and liquid chromatography
- High purity carrier gases
- Zero, span and calibration
- High purity chamber pressurization

Materials of Construction

Body	Anodized aluminum barstock
Bonnet	Anodized aluminum barstock
Diaphragm	316L stainless steel
Seat	PTFE Teflon®
Seals	PTFE Teflon®
Filter	10 micron stainless steel multi-layer

Features

- Anodized aluminum body
- 10 micron stainless steel filtration for fail-safe seat performance
- Capsule® seat for increased serviceability and life
- Field adjustable pressure limit
- Metal-to-metal diaphragm seal
- Delivery pressure range easily changed for maximum flexibility

Specifications

Maximum Inlet Pressure	Outlet Pressure	Outlet Gauge
3000 psig (210 bar)	0-15 psig	30"-0-30 psig
	0-50 psig	30"-0-100 psig
	0-100 psig	30"-0-200 psig
	0-150 psig	30"-0-200 psig
	0-250 psig	0-400 psig
	0-500 psig	0-1000 psig

Ports: 1/4" FNPT
 Operating Temperature Range: -40 to 60°C
 Helium Leak Rate: 1 X 10⁻⁹ scc/sec
 C_v: 0.1
 Weight: 1.24 kg (2.7 lbs)

Recommended Applications

Gas Service	Standard Inlet Pressure at 70°F	Series Model (408-ABCD)	Standard Connection (CGA)
Ammonia	114 psig	408-A631	CGA 240 CGA 660 CGA 705
Carbonyl Sulfide	160 psig	408-A731	CGA 330
Dimethylamine	15 psig	408-1031	CGA 240 CGA 705
Hydrogen Sulfide	250 psig	408-A631	CGA 330
Methyl Mercaptan	15 psig	408-1031	CGA 330
Monomethylamine	20 psig	408-1031	CGA 705
Sulfur Dioxide	35 psig	408-1031	CGA 660
Trimethylamine	20 psig	408-1031	CGA 240 CGA 705
Vinyl Chloride	30 psig	408-1031	CGA 290 CGA 510
Vinyl Fluoride	355 psig	408-A531	CGA 350
Vinyl Methyl Ether	28 psig	408-1031	CGA 290 CGA 510
Mixtures	< 3000 psig	408-A331	See CGA Bulletin No. V-7

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