

425 Series Regulator



Single Stage 316L Stainless Steel Barstock Body Four-Port Configuration 316L Stainless Steel Diaphragm

The 425 Series regulators are intended for secondary pressure control of ultrahigh purity (grade 5.0 or better) and corrosive gases or for point-of-use pressure control in ultrahigh purity gas distribution systems. Typical applications include bulk gas distribution systems, Gas and Liquid Chromatography, Control of cryogenic gases.



Typical Applications

- Ultra high purity carrier gases
- Bulk or Gas distribution systems
- Zero, span and calibration gases
- Liquefied hydrocarbon gas control
- Corrosive gases

Features

- 316L stainless steel barstock body
- Capsule® seat for increased serviceability and life
- Field adjustable pressure limit
- Metal-to-metal diaphragm seal
- Convuluted SS diaphragm for smooth pressure changes

Materials of Construction

Body	316L stainless steel barstock
Bonnet	Chrome-plated brass barstock
Diaphragm	316L stainless steel
Seat	PTFE Teflon®
Seals	PTFE Teflon®
Filter	10 micron stainless steel mesh

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 (Max. outlet 50 psig or below)
 0.2 (Max. outlet above 50 psig)
 Weight: 1.17 kg (2.58 lbs)

CRN Registry: CRN OH 5216.5C

*Not available with 4500 psig maximum inlet pressure

