

425 Series

Single Stage Stainless Steel Bodied Scientific Regulator



The 425 Series regulators are intended for secondary pressure control of ultra high purity and corrosive gases or as point of use pressure control in ultra high purity gas distribution systems.

- Covers a broad range of applications
- Stainless steel bar stock body means increased corrosion resistance
- Versatility to configure the regulator with either front or rear panel mounting
- 3000 PSI inlet pressure rating
- Metal-to-metal diaphragm seal prevents gas contamination
- Capsule seat design for greater serviceability and life
- 316L stainless steel diaphragm

Specifications:

Max. Inlet Pressure: 3000 PSI (210 BAR)

Gauges: 2" diameter stainless steel

Temperature Range: -40° C to 60° C

Body Ports: 1/4" NPT(F)

Helium Leak Integrity: 1 x 10⁻⁹ scc/sec

Cv: 0.1 (Max outlet 50 PSI or below)
0.2 (Max outlet above 50 PSI)

Weight: 1.2 kg

Materials:

Body: 316L Stainless steel bar stock

Bonnet: Chrome plated brass bar stock

Seat: PTFE

Filter: 10 micron stainless steel multi-layer mesh

Diaphragm: 316L stainless steel

Internal Seals: PTFE

ORDERING INFORMATION

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Series	Outlet Pressure	Inlet Fitting	Outlet Fitting	Options
S425	15 (0-15 psi)	4F (1/4" NPT Female)	4F (1/4" NPT Female)	02 (Captured Vent)
	50 (0-50 psi)	4M (1/4" NPT Male)	4M (1/4" NPT Male)	03 (Panel mount kit)
	100 (0-100 psi)	2S (1/8" Tube)	2S (1/8" Tube)	04 (Wall mount bracket)
	150 (0-150 psi)	4S (1/4" Tube)	4S (1/4" Tube)	06 (STST non gas wetted)
	250 (0-250 psi)	8S (1/2" Tube)	8S (1/2" Tube)	07 (Fluorine passivation)
	500 (0-500 psi)	Others see outlet fitting chart	2B (1/8" Hose Barb) 4B (1/4" Hose Barb) Others see outlet fitting chart	08 (SilcoNert treatment)

Flow and Basic Dimensions

