

# 422 Series Single Stage Stainless Steel Bodied Scientific Regulator



The 422 Series regulators are intended for primary pressure control of ultra high purity and corrosive gases in applications where minor fluctuations in outlet pressure due to diminishing inlet supply can be tolerated.

- Pressure ranges of 0-15 to 0-500 PSIG are available to cater for a broad range of applications
- 316L Stainless steel bar stock body means increased corrosion resistance
- Versatility of configuring the regulator with either front or rear panel mounting
- Metal-to-metal diaphragm seal prevents gas contamination
- Capsule seat design for greater serviceability and life
- 316L stainless steel diaphragm
- Leak test certificate

### Applications:

- Gas and liquid chromatography
- Ultra high purity carrier gases
- Zero, span and calibration gases
- High purity chamber pressurization
- Control of cryogenic gases
- Corrosive gases

### Specifications:

**Max. Inlet Pressure:** 3000 PSIG (210 BAR)  
4500 PSIG (310 BAR) Option

**Gauges:** 2" diameter stainless steel

**Temperature Range:** -40° C to 60° C

**Body Ports:** 1/4" NPT(F)

**Helium Leak Integrity:** 1 x 10<sup>-9</sup> scc/sec

**Cv:** 0.1

**Weight:** 1.8 kg

### Materials:

**Body:** 316L Stainless steel bar stock

**Bonnet:** Chrome plated brass bar stock

**Seat:** PTFE  
PCTFE with 4500 PSIG inlet option

**Filter:** 10 micron stainless steel multi-layer mesh

**Diaphragm:** 316L stainless steel

**Internal Seals:** PTFE

### ORDERING INFORMATION

S422 - XXX - XXX - XXX - XX

Series	Outlet Pressure	Inlet Fitting	Outlet Fitting	Options
S422	15 (0-15 psig)	T10 (AS2473 Type 10)	4F (1/4" Female Port)	01 (Cross Purge)
	50 (0-50 psig)	T20 (AS2473 Type 20)	4M (1/4" Male Fitting)	02 (Captured Vent)
	100 (0-100 psig)	T44 (AS2473 Type 44)	DK (1/4" DRK valve)	03 (Panel mount kit)
	150 (0-150 psig)	T45 (AS2473 Type 45 or BS341 No 15)	2S (1/8" Swagelok)	04 (Wall mount bracket)
	250 (0-250 psig)	T50 (AS2473 Type 50)	4S (1/4" Swagelok)	05 (310 Bar inlet pressure)
	500 (0-500 psig)	330 (CGA 330)	8S (1/2" Swagelok)	06 (STST non gas wetted)
		350 (CGA 350)	FA (Fine adjust valve)	07 (Fluorine passivation)
		660 (CGA 660)	Others see outlet fitting chart	08 (SilcoNert treatment)
		4F (1/4" Female NPT)		
		4M (1/4" Male NPT)		
		Others refer inlet fitting chart		

# Flow and Basic Dimensions

