



400 Series Regulators

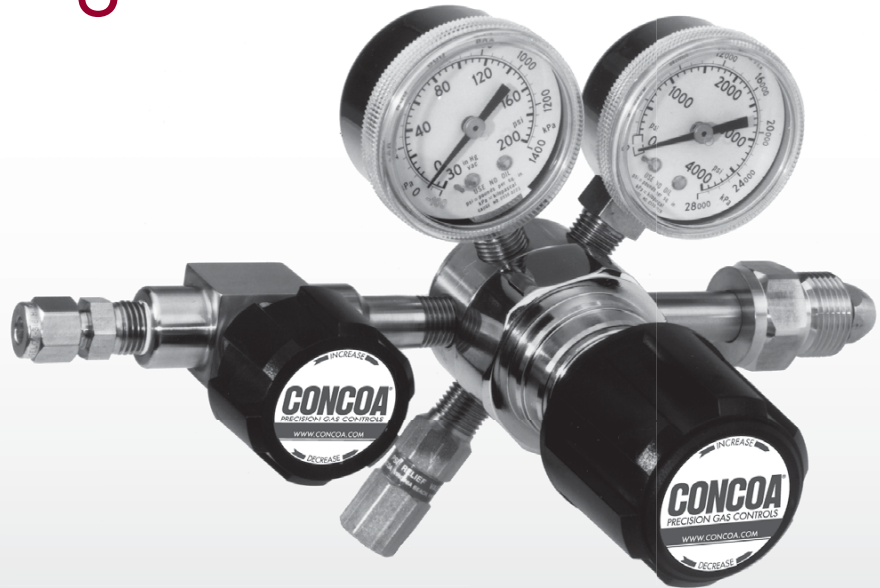
422 Series Regulator

Single Stage

316L Stainless Steel
Barstock Body

Six-Port
Configuration

316L Stainless Steel
Diaphragm



422-3331 shown

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.

Features

- 316L stainless steel barstock body
Increased corrosion resistance
- Front and rear panel-mountable
Versatile system configuration
- Pressure ranges 0-15 to 0-500 PSIG
Broad range of applications

Typical Applications

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

400 Series Advantage

- Metal-to-metal diaphragm seal
No possibility of gas contamination
- Capsule® seat
Increased serviceability and life
- 316L stainless steel diaphragm
No inboard diffusion
- Orientable captured vent capable
Safety in any installation
- Low wetted surface area
Minimal purge requirements
- Field-adjustable pressure limit
Safeguard downstream equipment
- Pipe away relief valve
Safely vents exhaust gases

Materials

- Body
316L stainless steel barstock
- Bonnet
Chrome-plated brass barstock
- Seat
PTFE
PCTFE with 4500 PSIG inlet option
- Filter
10 micron patented stainless steel
multi-layer mesh
- Diaphragm
316L stainless steel
- Internal Seals
PTFE

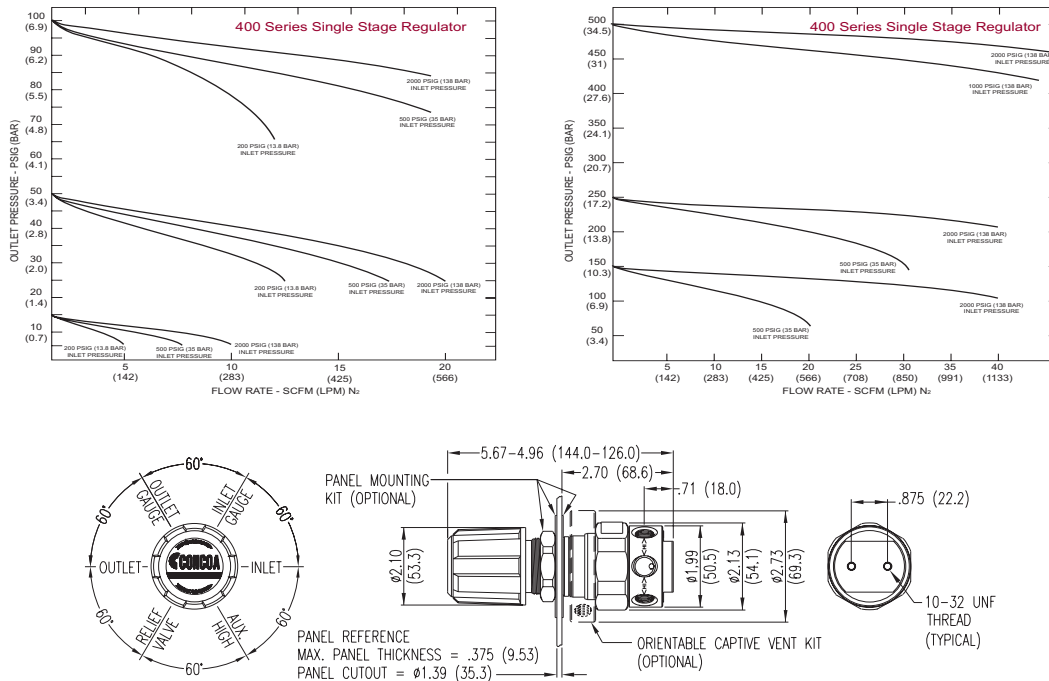
Specifications

- Maximum Inlet Pressure
3000 PSIG (210 BAR)
4500 PSIG (310 BAR) optional
- Temperature Range
-40°F to 140°F (-40°C to 60°C)
- Gauges
2" diameter stainless steel
- Ports
1/4" FPT
- Helium Leak Integrity
1 x 10⁻⁹ scc/sec
- Cv
0.1
- Weight (422-2331-580)
3.8 lbs. (1.73 kg)

400 Series Regulators



Technical Information



400 Series

Ordering Information

422	A	B	C	D	-Inlet	Options	
Series 422	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly/ Gauges	Inlet Connections	Installed Options
1: 0-15*	30"-0-30 PSIG	0: None	0: 1/4" FPT Port	0: 1/4" FPT Port	0: Bare Body	000: 1/4" FPT	A: Protocol Alarm Station (110V)
2: 0-50	30"-0-100 PSIG	3: 0-4000 PSIG	1: 1/4" MPT	1: 1/4" MPT	1: Standard Assembly (PSIG/kPa Gauges)	TF2: 1/8" Tube	B: Protocol Alarm Station (220V)
3: 0-100	30"-0-200 PSIG	5: 0-1000 PSIG	2: 1/4" Tube Fitting	2: 1/4" Tube Fitting	2: Standard Assembly (BAR/PSIG Gauges)	TF4: 1/4" Tube	C: Protocol Switchover Station
4: 0-250	0-400 PSIG	6: 0-300 PSIG	3: Diaphragm Valve 1/4" Tube Fitting	3: Diaphragm Valve 1/4" Tube Fitting	4: Cleanroom Assembly (PSIG/kPa Gauges)	TF6: 3/8" Tube	D: Deep Purge*
5: 0-500**	0-1000 PSIG	7: 0-400 PSIG	4: Diaphragm Valve 1/4" MPT	4: Diaphragm Valve 1/4" MPT	5: Cleanroom Assembly (BAR/PSIG Gauges)	M06: 6mm Tube	G: Protocol Switchover Station with Alarm (110V)
7: 0-150	30"-0-200 PSIG	8: 0-6000 PSIG*	5: Needle Valve 1/4" MPT	5: Needle Valve 1/4" MPT	6: Mirror Image PSIG/ kPa Gauges	CGA DIN 477 BS 341 and others available	H: Protocol Switchover Station with Alarm (220V)
			6: 1/8" Tube Fitting	6: 1/8" Tube Fitting	7: Mirror Image BAR/PSI Gauges		M: Protocol Station
			7: 3/8" Tube Fitting	7: 3/8" Tube Fitting			Q: Protocol Purge Station*
			8: Diaphragm Valve 1/8" Tube Fitting	8: Diaphragm Valve 1/8" Tube Fitting			R: Glass Coated
			9: Diaphragm Valve 1/4" FPT	9: Diaphragm Valve 1/4" FPT			S: Stainless Steel Bonnet
			M: 6mm Tube Fitting	M: 6mm Tube Fitting			
			S: Diaphragm Valve 6mm Tube Fitting	S: Diaphragm Valve 6mm Tube Fitting			
	*Not available with 4500 PSIG maximum inlet pressure	*Maximum inlet pressure 4500 PSIG (310 BAR) with PCTFE Seat Capsule®					
	**Standard assembly does not include relief valve						
							*Not available with 4500 PSIG max inlet pressure

Related Options

Stock No.	Description
550-0002	Panel Mount Kit
550-0001	Captured Vent Kit
476-0002	Helium Leak Certification
550-0003	Passivation for Fluorine Service