



# 400 Series Regulators

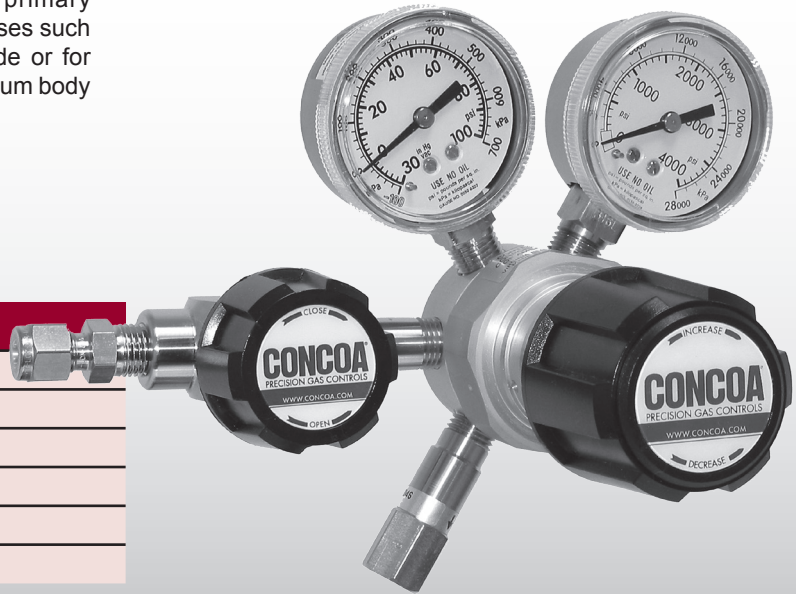
# 408 SERIES

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 applications requiring the light weight of an aluminum body regulator.

- Single Stage
- Anodized Aluminum Barstock Body
- 316L Stainless Steel Diaphragm

## Typical Applications

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



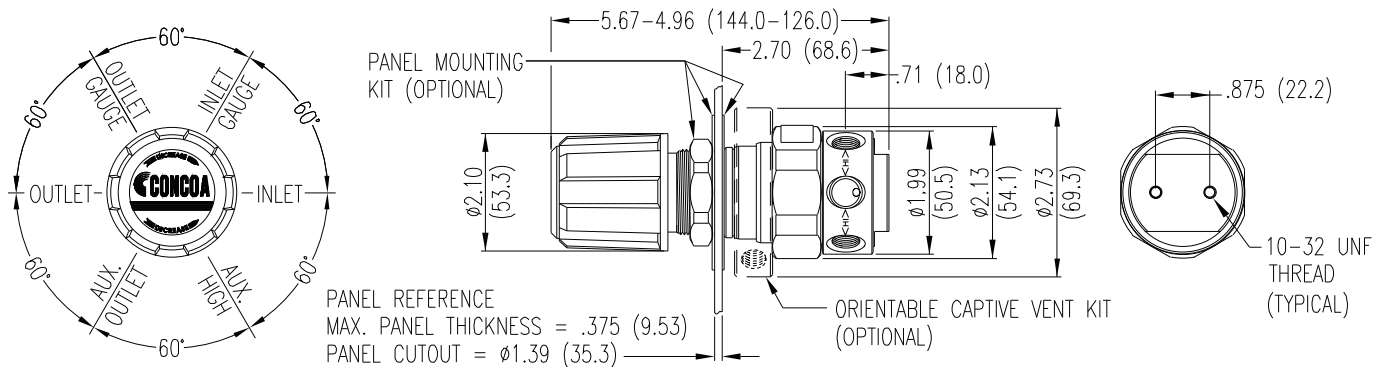
408 2331-000 shown

Features	Materials	Specifications
<p><b>Metal-to-Metal Diaphragm Seal</b> No possibility of gas contamination</p> <p><b>CAPSULE® Seat</b> Increased serviceability and life</p> <p><b>Anodized Aluminum Body</b> Cost-effective corrosion resistance</p> <p><b>Front and Rear Panel-Mountable</b> Versatile system configuration</p> <p><b>Pressure Ranges 0-15 to 0-500 PSIG (0-1 to 0-34 BAR)</b> Broad range of applications</p> <p><b>Pipe Away Relief Valve</b> Safely vents exhaust gases</p>	<p><b>Body</b> Anodized aluminum barstock</p> <p><b>Bonnet</b> Anodized aluminum barstock</p> <p><b>Seat</b> PTFE</p> <p><b>Filter</b> Patented 10 micron 316 mesh</p> <p><b>Diaphragm</b> 316L stainless steel</p> <p><b>Internal Seals</b> PTFE</p>	<p><b>Maximum Inlet Pressure</b> 3000 PSIG (210 BAR)</p> <p><b>Temperature Range</b> -40°F to 140°F (-40°C to 60°C)</p> <p><b>Gauges</b> 2" (53mm) diameter stainless steel</p> <p><b>Ports</b> 1/4" FPT</p> <p><b>Helium Leak Integrity</b> 1 x 10<sup>-9</sup> scc/sec</p> <p><b>Cv</b> 0.1 <i>See page 188 for flow curves</i></p> <p><b>Weight (408 2331-000)</b> 2.7 lbs. (1.24 kg)</p>

# 400 Series Regulators



## Installation Dimensions



## Ordering Information

408	A	B	C	D	-CON	Options	
Series 408	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly/Gauges	Inlet Connections	Installed Options
	<b>1:</b> 0-15 PSIG (0-1 BAR)	30"-0-30 PSIG/ -1-0-2 BAR	<b>0:</b> None	<b>0:</b> 1/4" FPT port	<b>0:</b> Bare body	<b>000:</b> 1/4" FPT	<b>M:</b> Protocol station
	<b>2:</b> 0-50 PSIG (0-3.5 BAR)	30"-0-100 PSIG/ -1-0-7 BAR	<b>3:</b> 0-4000 PSIG/ 0-310 BAR	<b>1:</b> 1/4" MPT	<b>1:</b> Cleanroom assembly (PSIG/kPa gauges)	<b>TF2:</b> 1/8" tube	<b>D:</b> Deep purge
	<b>3:</b> 0-100 PSIG (0-7 BAR)	30"-0-200 PSIG/ -1-0-14 BAR	<b>5:</b> 0-1000 PSIG/ 0-70 BAR	<b>2:</b> 1/4" tube fitting	<b>2:</b> Cleanroom assembly (BAR/PSIG gauges)	<b>TF4:</b> 1/4" tube	<b>Q:</b> Protocol purge station
	<b>4:</b> 0-250 PSIG (0-17 BAR)	0-400 PSIG/ 0-27 BAR	<b>6:</b> 0-300 PSIG/ 0-21 BAR	<b>3:</b> Diaphragm valve 1/4" tube fitting		<b>TF6:</b> 3/8" tube	
	<b>5:</b> 0-500 (0-34 BAR)**	0-1000 PSIG/ 0-70 BAR	<b>7:</b> 0-400 PSIG/ 0-27 BAR	<b>4:</b> Diaphragm valve 1/4" MPT		<b>M06:</b> 6mm tube	
	<b>7:</b> 0-150 PSIG (0-10 BAR)	30"-0-200 PSIG/ -1-0-14 BAR		<b>5:</b> Needle valve 1/4" MPT		CGA DIN 477 BS 341 and others available	
	<b>**No relief valve</b>			<b>6:</b> 1/8" tube fitting			
				<b>7:</b> 3/8" tube fitting			
				<b>8:</b> Diaphragm valve 1/8" tube fitting			
				<b>9:</b> Diaphragm valve 1/4" FPT			
				<b>M:</b> 6mm tube fitting			
				<b>S:</b> Diaphragm valve 6mm tube fitting			

## Related Options

Options	Order No.	Description
Panel mount kit	550 0002	To mount the regulator using bonnet threads. Material: Nickel-plated brass
Captured vent kit	550 0001	360° Orientation pipes vented gases to safe location in the event of diaphragm failure. Material: Nickel-plated brass
Helium Leak certification 476 0002		Inboard Helium Leak certification to less than $1 \times 10^{-9}$ cc/sec

