



400 Series Regulators

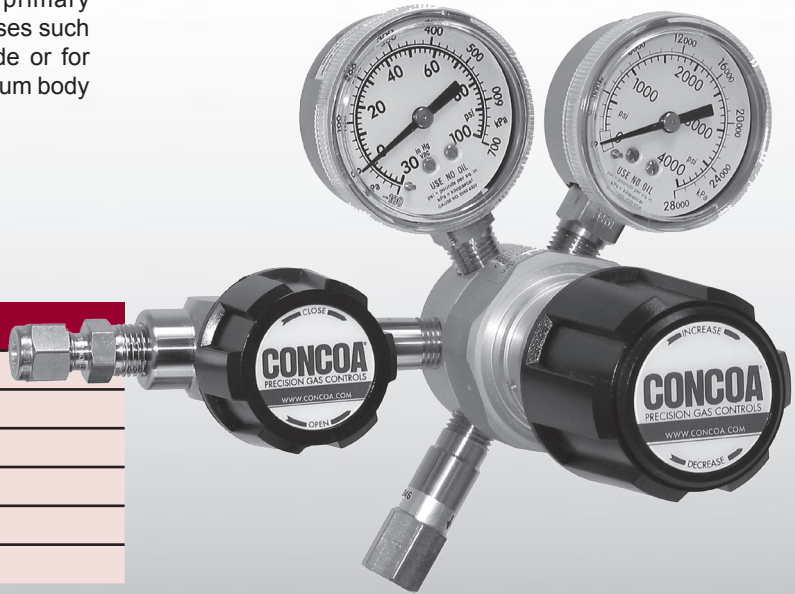
408 SERIES

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

Metal-to-Metal Diaphragm Seal
No possibility of gas contamination

CAPSULE® Seat
Increased serviceability and life

Anodized Aluminum Body
Cost-effective corrosion resistance

Front and Rear Panel-Mountable
Versatile system configuration

**Pressure Ranges 0-15 to 0-500 PSIG
(0-1 to 0-34 BAR)**
Broad range of applications

Pipe Away Relief Valve
Safely vents exhaust gases

Materials

Body
Anodized aluminum barstock

Bonnet
Anodized aluminum barstock

Seat
PTFE

Filter
Patented 10 micron 316 mesh

Diaphragm
316L stainless steel

Internal Seals
PTFE

Specifications

Maximum Inlet Pressure
3000 PSIG (210 BAR)

Temperature Range
-40°F to 140°F (-40°C to 60°C)

Gauges
2" (53mm) diameter stainless steel

Ports
1/4" FPT

Helium Leak Integrity
1 x 10⁻⁹ scc/sec

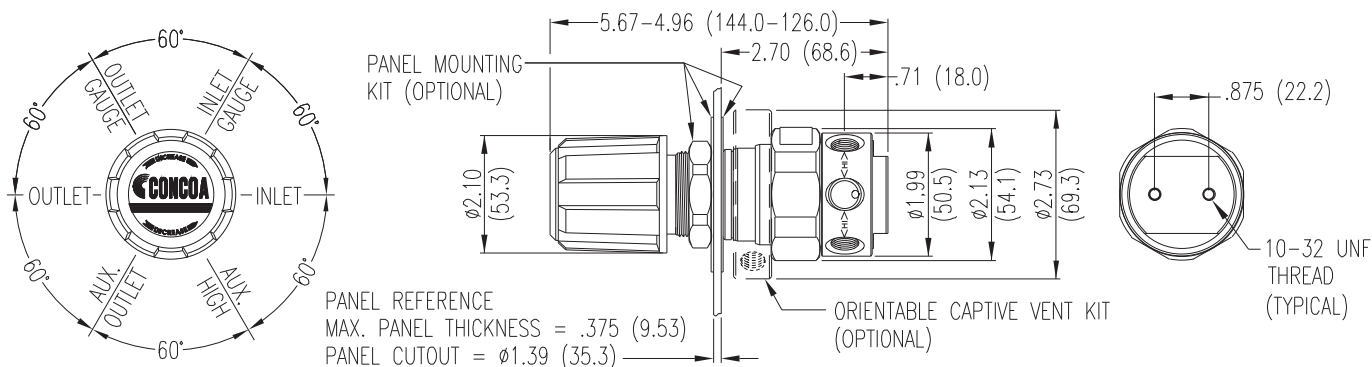
Cv
0.1
See page 202 for flow curves

Weight (408 2331-000)
2.7 lbs. (1.24 kg)

400 Series Regulators



Installation Dimensions



REGULATORS

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

Related Options

Order No.	Description
550 0002	Panel mount kit
550 0001	Captured vent kit
476 0002	Helium Leak certification



Regulator Flow Curves

Flow Curves for 302, 304, 305, 307, 322, 324, 327, 401, 402, 408, 420, 422, 426, 427, 428, 429 Series

