

400 Series Regulators

The 428 Series regulators are intended for secondary pressure control of the highest purity gases or as point of use pressure control in high purity gas distribution systems.

- Single Stage
- 316L Stainless Steel Barstock Body
- Three Port Configuration
- Face Seal Connections

Typical Applications

Semiconductor process gases

Photovoltaic manufacturing

Ultra-high purity gases

Pharmaceutical processing

Aerospace systems

Nanotechnology research



428 3302-001 shown

Features

Metal-to-Metal Diaphragm Seal

No possibility of gas contamination

CAPSULE® Seat

Increased serviceability and life

Butt-Welded Face Seal Connections Highest leak integrity available

316L Stainless Steel Barstock Body Increased corrosion resistance

Front and Rear Panel-Mountable

Versatile system configuration

3000 PSIG Inlet Pressure Rating

Safe use with high pressure cylinders

Pressure Ranges 0-15 to 0-500 PSIG (0-1 to 0-34 BAR)

Broad range of applications

Materials

Body

316L stainless steel barstock

Bonne

Chrome-plated brass barstock

Seat

PTFF

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)

Gauge

2" (53mm) diameter stainless steel

Ports

1/4" face seal connection

Helium Leak Integrity

1 x 10⁻⁹ scc/sec

Cv

0.1

See page 202 for flow curves

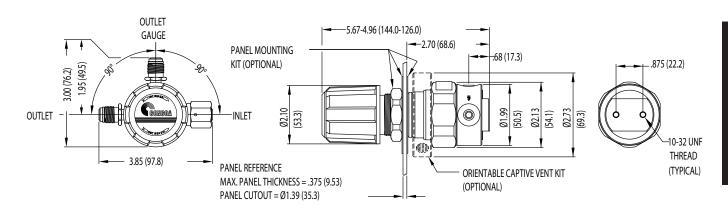
Weight (428 3302-001)

2.46 lbs. (1.12 kg)

400 Series Regulators



Installation Dimensions



Ordering Information									
428	Α	В	С	D					
Series 428	Outlet Pressure	Outlet Gauge	Inlet Gauge	Connections - inlet/outlet					
	1: 0-15 PSIG (0-1 BAR)	0: None	0: None	1: Female face seal/male face seal					
	2: 0-30 PSIG (0-2 BAR)	1: 30"-0-30 PSIG/-1-0-2 BAR		2: Male face seal/male face seal					
	3: 0-50 PSIG (0-3.5 BAR)	2: 30"-0-60 PSIG/-1-0-4 BAR		3: Male face seal/female face seal					
	4 : 0-100 PSIG (0-7 BAR)	3: 30"-0-100 PSIG/-1-0-7 BAR		4: Female face seal/female face seal					
	5 : 0-250 PSIG (0-17 BAR)	4: 30"-0-200 PSIG/-1-0-14 BAR							
	6: 0-500 PSIG (0-34 BAR)	5: 0-400 PSIG/0-27 BAR							
	7: 0-150 PSIG (0-10 BAR)	6: 0-1000 PSIG/0-70 BAR							

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 x 10° cc/sec			