



400 Series Regulators

429 Series Regulator

Single Stage

316L Stainless Steel Barstock Body

Four-Port Configuration

Face Seal Connections

The 429 Series regulators are intended for primary pressure control of the highest purity gases or for applications where minor fluctuations in outlet pressure due to diminishing inlet supply pressure can be tolerated.

Features

- 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
Broad range of applications

Typical Applications

- Semiconductor process gases
- Gas and liquid chromatography
- Ultra-high purity carrier gases
- Zero, span, and calibration gases
- Liquefied hydrocarbon gas control
- Control of cryogenic gases



429-2241 shown

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
- Filter*
10 micron patented stainless steel
multi-layer mesh
- Diaphragm*
316L stainless steel
- Internal Seals*
PTFE

Specifications

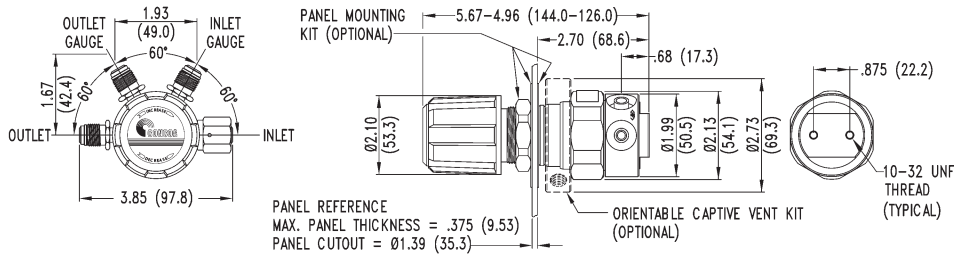
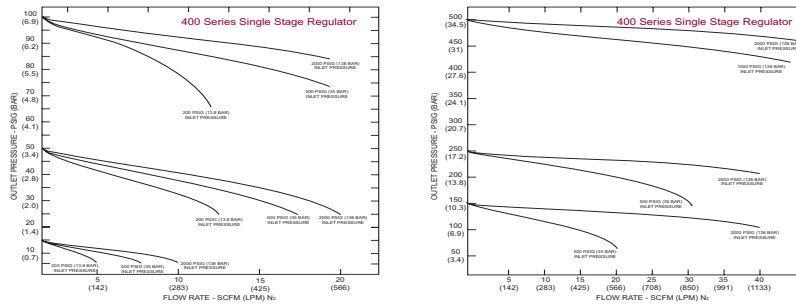
- Maximum Inlet Pressure*
3000 PSIG (210 BAR)
- Temperature Range*
-40°F to 140°F (-40°C to 60°C)
- Gauges*
2" diameter stainless steel
- Ports*
1/4" FSC
- Helium Leak Integrity*
1 x 10⁻⁹ scc/sec
- Cv*
0.1
- Weight (429-1312)*
2.73 lbs. (1.24 kg)

FSC - Face Seal Connections

400 Series Regulators



Technical Information



Ordering Information

429	A	B	C	D
Series 429	Outlet Pressure	Outlet Gauge	Inlet Gauge	Connections
	1: 0-15 PSIG	0: None	0: None	1: FFSC in/MFSC out
	2: 0-30 PSIG	1: 30"-0-30 PSIG	1: 0-4000 PSIG	2: MFSC in/MFSC out
	3: 0-50 PSIG	2: 30"-0-60 PSIG	2: 0-400 PSIG	3: MFSC in/FFSC out
	4: 0-100 PSIG	3: 30"-0-100 PSIG	3: 0-1000 PSIG	4: FFSC in/FFSC out
	5: 0-250 PSIG	4: 30"-0-200 PSIG	4: 0-3000 PSIG	FSC - Face Seal Connection
	6: 0-500 PSIG	5: 0-400 PSIG	5: 30"-0-200 PSIG	
	7: 0-150 PSIG	6: 0-1000 PSIG	6: 30"-0-100 PSIG	
			7: 30"-0-60 PSIG	
			8: 30"-0-30 PSIG	

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 1×10^{-9} cc/sec
Passivation	550-0003	Passivation for Fluorine Service
0.01 micron filter	580-2001	Attached at outlet for low particle count gases (with 1/4" VCR® connections only)