



400 Series Regulators

480 Series Regulator

316L Stainless Steel
Barstock Body

316L Stainless Steel
Diaphragm

Back Pressure Regulator

The 480 Series regulators are intended for upstream or inlet pressure control in ultra-high purity and corrosive applications. Typically, the 480 Series regulators are used to provide system pressure control, acting as a highly accurate relief valve.



480-3001 shown

Features

- Low crack to reseat deviation
Accurate pressure control
- 316L stainless steel barstock body
Increased corrosion resistance
- Front and rear panel-mountable
Versatile system configuration

Typical Applications

- Fluid sampling systems
- Storage vessels
- Gas chromatography
- Pump pressure control
- Research and development laboratories
- Compressors

400 Series Advantage

- Metal-to-metal diaphragm seal
No possibility of gas contamination
- 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 upstream equipment

Materials

- Body
316L stainless steel barstock
- Bonnet
Chrome-plated brass barstock
- Seat
Viton®
- Diaphragm
316L stainless steel
- Internal Seals
PTFE

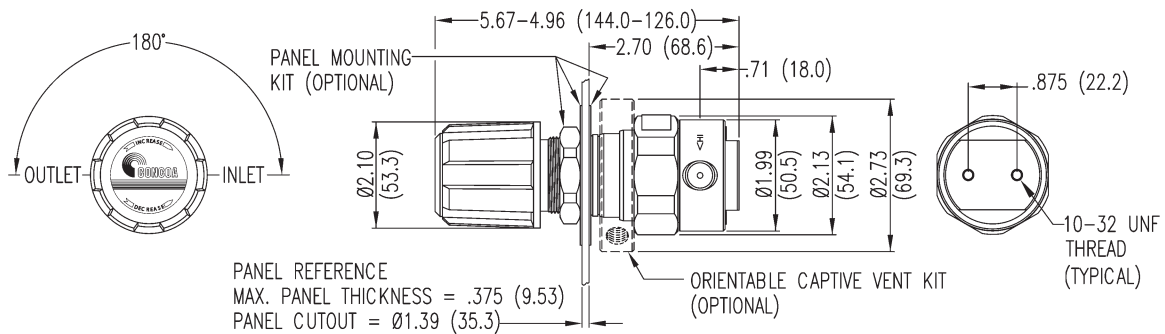
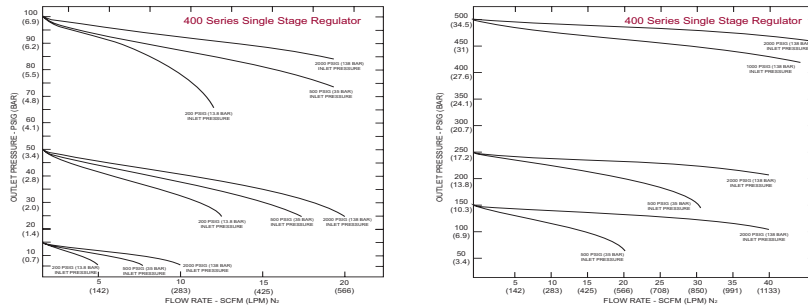
Specifications

- Maximum Inlet Pressure
250 PSIG (17 BAR)
- Temperature Range
-40°F to 140°F (-40°C to 60°C)
- Ports
1/4" FPT
- Helium Leak Integrity
1 x 10⁻⁹ scc/sec
- Cv
0.1
- Weight (480-X021-TF4)
2.3 lbs. (1.04 kg)

400 Series Regulators



Technical Information



400 Series

Ordering Information

480	A	B	C	D	-Inlet	Options
Series 480	Relief Pressure	Inlet Gauge	Outlet Assemblies	Assembly	Connections	Installed Options
	1: 0-15 PSIG	0: None	0: 1/4" FPT Port	1: Standard Assembly	000: 1/4" FPT	None
	2: 0-50 PSIG		2: 1/4" Tube Fitting		TF2: 1/8" Tube	
	3: 0-100 PSIG		6: 1/8" Tube Fitting		TF4: 1/4" Tube	
	4: 0-250 PSIG		7: 3/8" Tube Fitting		TF6: 3/8" Tube	
			M: 6mm Tube Fitting		M06: 6mm Tube	

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 ⁻⁹ cc/sec