



# 400 Series Regulators

## 432 Series Regulator

Dual Stage

316L Stainless Steel  
Barstock Body

Six-Port Configuration

316L Stainless Steel  
Diaphragm



432-3331 shown

The 432 Series regulators are intended for primary pressure control of ultra-high purity or corrosive gases for applications requiring constant pressure control and delivery regardless of supply pressure variations.

### Features

- 316L stainless steel barstock body  
Increased corrosion resistance
- Front panel-mountable  
Easy installation
- 10 micron filtration in both stages  
Fail-safe seat performance
- Pressure ranges 0-15 to 0-250 PSIG  
Broad range of applications

### Typical Applications

- EPA protocol gases
- Gas and liquid chromatography
- High purity carrier gases
- Zero, span, and calibration gases
- Ultra-high purity chamber  
pressurization
- Corrosive gases

### 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  
PCTFE with 4500 PSIG inlet option
- Filter*  
10 micron patented stainless steel  
multi-layer mesh
- Diaphragm*  
316L stainless steel
- Internal Seals*  
PTFE

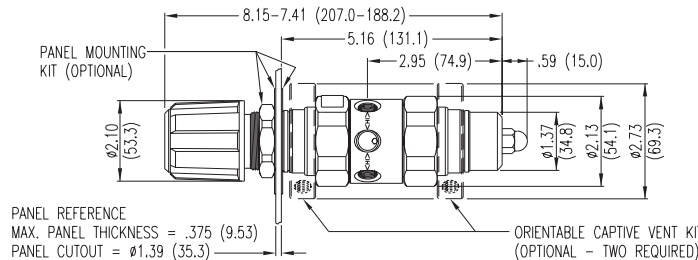
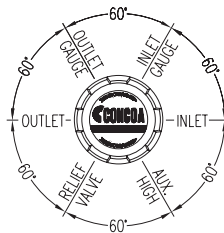
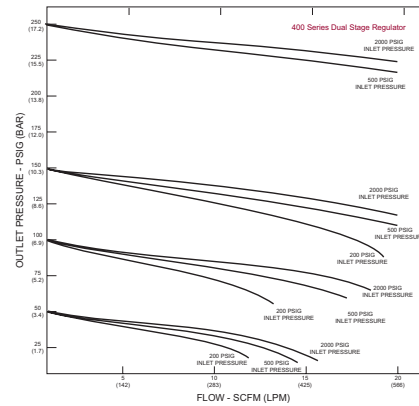
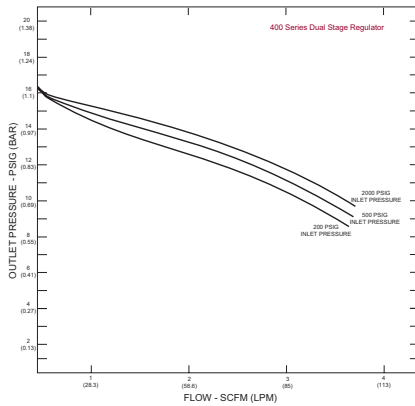
### Specifications

- Maximum Inlet Pressure*  
3000 PSIG (210 BAR)  
4500 PSIG (310 BAR) optional
- Temperature Range*  
-40°F to 140°F (-40°C to 60°C)
- Gauges*  
2" diameter stainless steel
- Ports*  
1/4" FPT
- Helium Leak Integrity*  
1 x 10<sup>-9</sup> scc/sec
- Cv*  
0.1
- Weight (432-2021-580)*  
5.09 lbs. (2.31 kg)

# 400 Series Regulators



## Technical Information



## Ordering Information

432	A	B	C	D	-Inlet	Options	
Series 432	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly/ Gauges	Inlet Connections	Installed Options
	1: 0-15*	30"-0-30 PSIG	0: None	0: 1/4" FPT Port	0: Bare Body	000: 1/4" FPT	A: Protocol Alarm Station (110V)
	2: 0-50	30"-0-100 PSIG	3: 0-4000 PSIG	1: 1/4" MPT	1: Standard Assembly (PSIG/kPa Gauges)	TF2: 1/8" Tube	B: Protocol Alarm Station (220V)
	3: 0-100	30"-0-200 PSIG	5: 0-1000 PSIG	2: 1/4" Tube Fitting	2: Standard Assembly (BAR/PSIG Gauges)	TF4: 1/4" Tube	C: Protocol Switchover Station
	4: 0-250	0-400 PSIG	6: 0-300 PSIG	3: Diaphragm Valve 1/4" Tube Fitting	4: Cleanroom Assembly (PSIG/kPa Gauges)	TF6: 3/8" Tube	D: Deep Purge*
	7: 0-150	30"-0-200 PSIG	8: 0-6000 PSIG*	4: Diaphragm Valve 1/4" MPT	5: Cleanroom Assembly (BAR/PSIG Gauges)	M06: 6mm Tube	G: Protocol Switchover Station with Alarm (110V)
			5: Needle Valve 1/4" MPT				H: Protocol Switchover Station with Alarm (220V)
			6: 1/8" Tube Fitting				M: Protocol Station
			7: 3/8" Tube Fitting				Q: Protocol Purge Station*
			8: Diaphragm Valve 1/8" Tube Fitting				R: Glass Coated
			9: Diaphragm Valve 1/4" FPT				S: Stainless Steel Bonnet
			M: 6mm Tube Fitting				
			S: Diaphragm Valve 6mm Tube Fitting				
		*Maximum inlet pressure 4500 PSIG (310 BAR) with PCTFE Seat Capsule®				CGA DIN 477 BS 341 and others available	
							*Not available w/ 4500 PSIG max inlet pressure

## Related Options

Stock No.	Description
550-0002	Panel Mount Kit
550-0001	Captured Vent Kit
476-0002	Helium Leak Certification
550-0003	Passivation for Fluorine Service