

432 Series Regulator

Dual Stage

*316L Stainless Steel
Barstock Body*

*Six-Port
Configuration*

*316L Stainless Steel
Diaphragm*

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.



432-1331 shown

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

Advanced 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

400 Advantage

Materials

Specifications

- *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

Body

316L stainless steel barstock

Bonnet

Chrome-plated brass barstock

Seat

PTFE

PCTFE with 4500 psig inlet option

Filter

10 micron stainless steel multi-layer mesh

Diaphragm

316L stainless steel

Internal Seals

PTFE

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

¼" FPT

Helium Leak Integrity

1 x 10⁻⁹ scc/sec

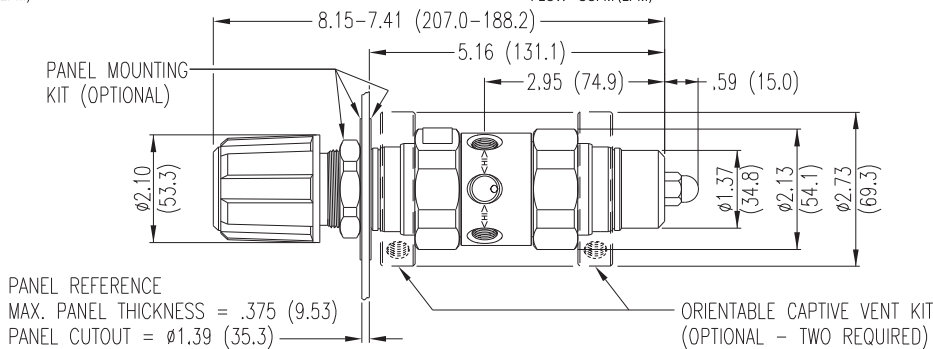
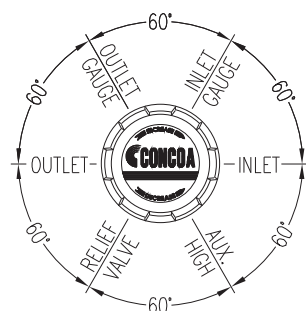
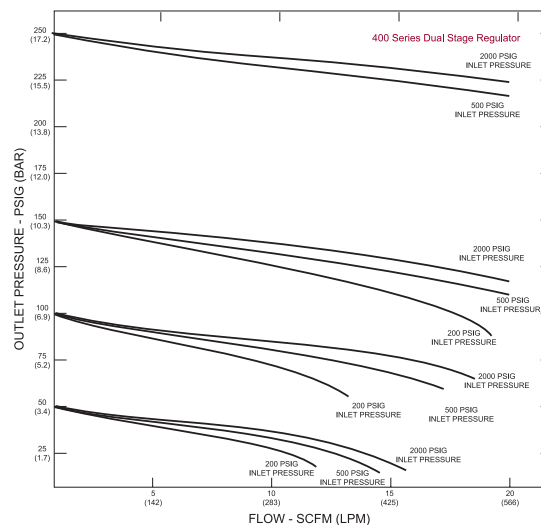
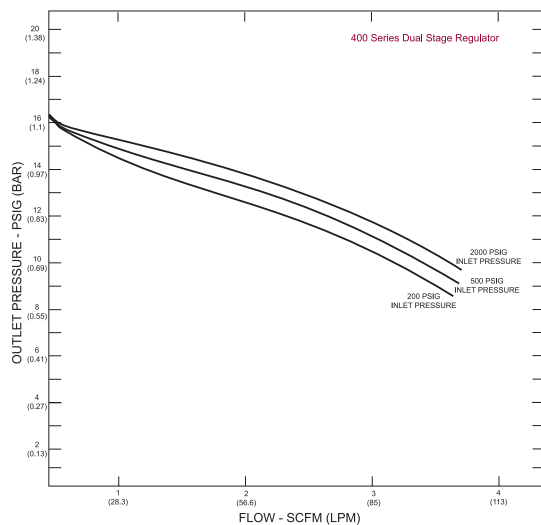
Cv

0.1

Weight (432-2021-580)

5.09 lbs. (2.31 kg)

Flow Performance Curves



Ordering Information *(For information about how to use this table please see page 4.)*

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	7: 0-400 psig	4: Diaphragm Valve 1/4" MPT	5: Cleanroom Assembly (BAR/psig Gauges)	M06: 6mm Tube	G: Protocol Switchover Station with Alarm (110V)
			8: 0-6000 psig*	5: Needle Valve 1/4" MPT		CGA	H: Protocol Switchover Station with Alarm (220V)
			*Maximum inlet pressure 4500 psig (310 BAR) with PCTFE Seat Capsule	6: 1/8" Tube Fitting		DIN 477	M: Protocol Station
				7: 3/8" Tube Fitting		BS 341 and others available	R: Glass Coated
				8: Diaphragm Valve 1/8" Tube Fitting			S: Stainless Steel Bonnet
				9: Diaphragm Valve 1/4" FPT			*Not available w/ 4500 psig max inlet pressure
				M: 6mm Tube Fitting			
				S: Diaphragm Valve 6mm Tube Fitting			
Related Options			- Panel Mount Kit (550-0002) - Captured Vent Kit (550-0001) - Helium Leak Certification (476-0002) - Passivation for Fluorine Service				