

426 SERIES REGULATORS



The 426 Series single stage regulators are intended for secondary pressure control of ultra-high purity and corrosive gases or as point-of-use pressure control in ultra-high purity gas distribution systems.

Typical Applications

- Bulk Gas Distribution Systems
- Gas and Liquid Chromatography
- Ultra-High Purity Carrier Gases
- High Purity Chamber Pressurization
- Liquefied Hydrocarbon Gas Control
- Control of Cryogenic Gases
- Corrosive Gases



426 4831-01-000 shown

Features

CAPSULE® Seat Design features integral 360° filtration in both stages

316L Stainless Steel Barstock Body provides increased corrosion resistance

Cleanroom Assembly eliminates contamination at installation

Front and Rear Panel-Mountable facilitates a variety of system configurations

Metal-to-Metal Diaphragm Seal prevents gas contamination

4500 PSIG (310 Bar) Inlet Pressure Rating provides safe use with high pressure cylinders

Pressure Ranges from 0-15 to 0-500 PSIG (0-1 to 0-34 BAR) accommodate a broad range of applications

Materials and Specifications

Maximum Inlet Pressure (bare body): 4500 PSIG (310 BAR)

Body: 316L stainless steel barstock

Bonnet: Chrome-plated brass barstock

Seat: PCTFE

Filter: 10-micron 316 stainless steel mesh

Temperature Range: -40°F to 140°F (-40°C to 60°C)

Diaphragm: 316L stainless steel

Cv: 0.1 See *flow curves attached*

Helium Leak Integrity: 1×10^{-9} scc/sec

Internal Seals: PTFE

Ports (bare body): 1/4 in FNPT

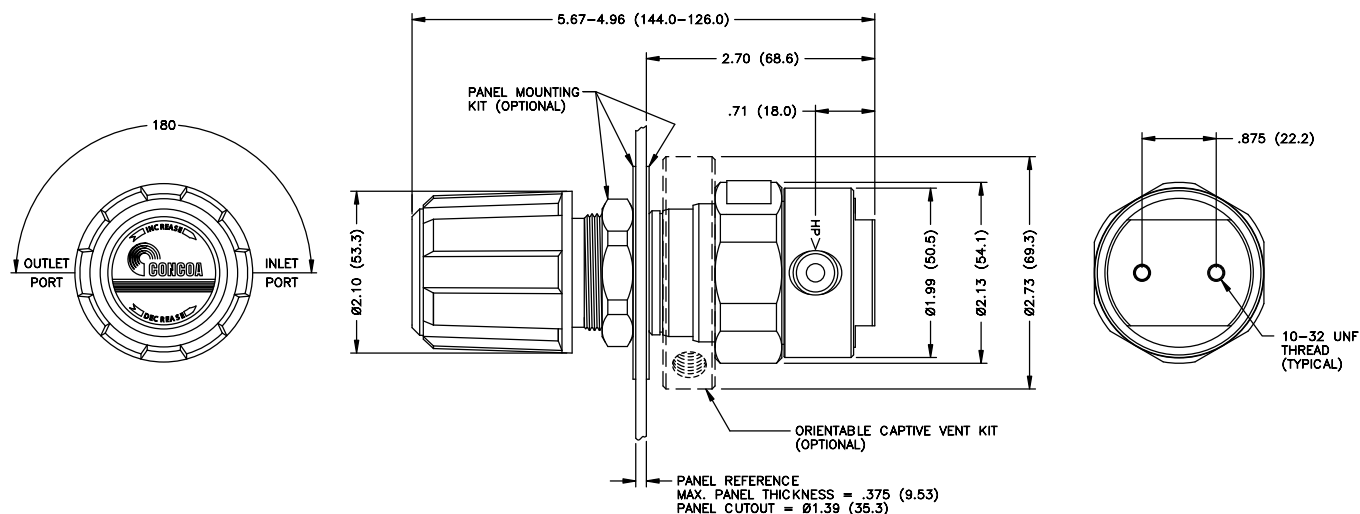
Weight (426 4831-000): 2.2 lbs. (1.01 kg)

Conformances: Cleanliness meets or exceeds CGA G-4.1; PED 2014/68/EU; ANSI/ASME B40.1; CRN OH5216

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Installation Dimensions



Ordering Information

426	A	B	C	D	-CON	Options
Series 426	Outlet Pressure	Inlet Pressure	Outlet Assemblies	Assembly	Inlet Connections	Installed Options
	2: 0-50 PSIG (0-3.5 BAR)	8: 4500 PSIG (310 BAR)	0: 1/4" FNPT port	1: Cleanroom assembly	000: 1/4" FNPT	B: Protocol alarm station with pressure switch gauges
	3: 0-100 PSIG (0-7 BAR)		1: 1/4" MNPT		TF2: 1/8" tube	D: Deep purge*
	4: 0-250 PSIG (0-17 BAR)		2: 1/4" tube fitting		TF4: 1/4" tube	E: Protocol alarm station with intrinsically safe transducer for hazardous environments
	5: 0-500 PSIG (0-34 BAR)		3: Diaphragm valve 1/4" tube fitting		TF6: 3/8" tube	J: Protocol alarm station with standard transducer for non-hazardous environments
	7: 0-150 PSIG (0-10 BAR)		4: Diaphragm valve 1/4" MNPT		M06: 6mm tube	M: Protocol station
			5: Needle valve 1/4" MNPT		CGA DIN 477 BS 341 and others available.	*Only valid with 3000 PSIG cylinder inlet connections.
			6: 1/8" tube fitting			
			7: 3/8" tube fitting			
			8: Diaphragm valve 1/8" tube fitting			
			9: Diaphragm valve 1/4" FNPT			
			M: 6mm tube fitting			
			S: Diaphragm valve 6mm tube fitting			

Related Options

Part No.	Description
550 0001	Captured vent kit
550 0002	Panel mount kit
476 0002	Helium Leak certification

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Flow Curves for 426 Series

