



# 400 Series Regulators

# 426 SERIES

The 426 Series 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.

- Low Dead Volume
- 316L Stainless Steel Barstock Body
- Two Port Configuration
- 316L Stainless Steel Diaphragm

## Typical Applications

- Bulk gas distribution systems
- Gas and liquid chromatography
- Ultra-high purity carrier gases
- Zero, span, and calibration gases
- High purity chamber pressurization
- Liquefied hydrocarbon gas control
- Control of cryogenic gases
- Corrosive gases



426 3001-000 shown

## Features

- Metal-to-Metal Diaphragm Seal**  
No possibility of gas contamination
- CAPSULE® Seat**  
Increased serviceability and life
- 316L Stainless Steel Barstock Body**  
Increased corrosion resistance
- Front and Rear Panel-Mountable**  
Versatile system configuration
- Pressure Ranges 0-15 to 0-500 PSIG (0-1 to 0-34 BAR)**  
Broad range of applications
- 4500 PSIG (310 BAR) Inlet Pressure Rating**  
Safe use with high pressure cylinders

## Materials

- Body**  
316L stainless steel barstock
- Bonnet**  
Chrome-plated brass barstock
- Seat**  
PCTFE
- Filter**  
Patented 10 micron 316 mesh
- Diaphragm**  
316L stainless steel
- Internal Seals**  
PTFE

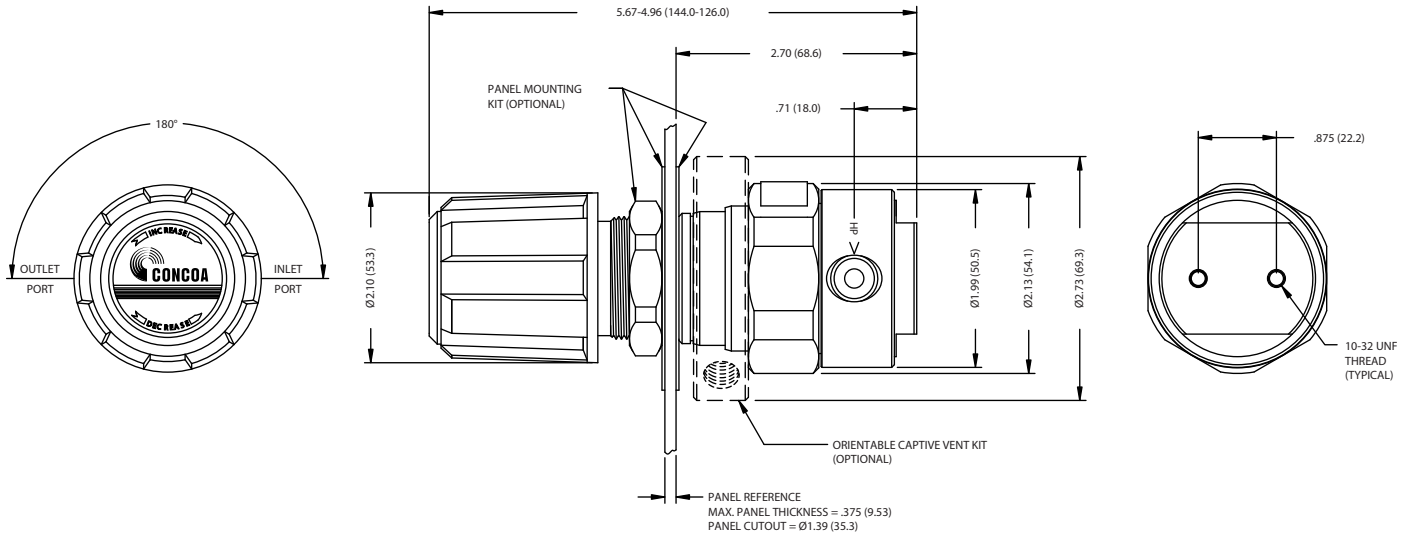
## Specifications

- Maximum Inlet Pressure**  
4500 PSIG (310 BAR)
- Temperature Range**  
-40°F to 140°F (-40°C to 60°C)
- Ports**  
1/4" FPT
- Helium Leak Integrity**  
1 x 10<sup>-9</sup> scc/sec
- Cv**  
0.1  
*See page 202 for flow curves*
- Weight (426 3801-000)**  
2.2 lbs (1.01 kg)

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## Installation Dimensions



REGULATORS

## Ordering Information

426	A	B	C	D	-CON	Options
Series 426	Outlet Pressure	Inlet Pressure	Outlet Assemblies	Assembly	Inlet Connections	Installed Options
	<b>2:</b> 0-50 PSIG (0-3.5 BAR)	<b>8:</b> 4500 PSIG (310 BAR)	<b>0:</b> 1/4" FPT port	<b>1:</b> Cleanroom assembly	<b>000:</b> 1/4" FPT	<b>B:</b> Protocol alarm station (110/220 VAC)
	<b>3:</b> 0-100 PSIG (0-7 BAR)		<b>1:</b> 1/4" MPT		<b>TF2:</b> 1/8" tube	<b>D:</b> Deep purge*
	<b>4:</b> 0-250 PSIG (0-17 BAR)		<b>2:</b> 1/4" tube fitting		<b>TF4:</b> 1/4" tube	<b>M:</b> Protocol station
	<b>5:</b> 0-500 PSIG (0-34 BAR)		<b>3:</b> Diaphragm valve 1/4" tube fitting		<b>TF6:</b> 3/8" tube	*Only valid with 3000 PSIG cylinder inlet connections
	<b>7:</b> 0-150 PSIG (0-10 BAR)		<b>4:</b> Diaphragm valve 1/4" MPT		<b>M06:</b> 6mm tube	
			<b>5:</b> Needle valve 1/4" MPT		CGA DIN 477 BS 341 and others available	
			<b>6:</b> 1/8" tube fitting			
			<b>7:</b> 3/8" tube fitting			
			<b>8:</b> Diaphragm valve 1/8" tube fitting			
			<b>9:</b> Diaphragm valve 1/4" FPT			
			<b>M:</b> 6mm tube fitting			
			<b>S:</b> Diaphragm valve 6mm tube fitting			

## Related Options

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

