

# 425 SINGLE STAGE STAINLESS STEEL LINE REGULATOR

The 425 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.

#### Highlighted Features

- ➢ Single Stage
- > 316L Stainless Steel Barstock Body
- ➢ Four 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
- Liquified hydrocarbon gas control
- Control of cryogenic gases
- Corrosive gases



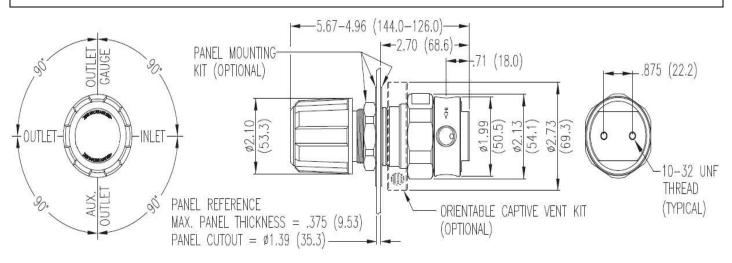
Features	Materials	Specifications		
Metal-to-Metal Diaphragm Seal	Body	Maximum Inlet Pressure		
No possibility of gas contamination	316L stainless steel barstock	3000 PSIG (210 BAR)		
CAPSULE® Seat	Bonnet	Temperature Range		
Increased serviceability and life	Chrome-plated brass barstock	-40°F to 140°F (-40°C to 60°C)		
316L Stainless Steel Barstock Body	Seat	Gauge		
Increased corrosion resistance	PTFE	2" (53mm) diameter stainless steel		
Front and Rear Panel-Mountable	Filter	Ports		
Versatile system configuration	Patented 10 micron 316 mesh	1/4" FPT		
Pressure Ranges 0-15 to 0-500 PSIG (0-1 to	Diaphragm	Helium Leak Integrity		
0-34 BAR)	316L stainless steel	1 x 10-9 scc/sec		
Broad range of applications	Internal Seals	Cv		
3000 PSIG (210 BAR) Inlet Pressure Rating	PTFE	0.1 (Max outlet 50 PSIG/1 BAR or below)		
Safe use with high pressure cylinders		0.2 (Max outlet above 50 PSIG/3.5 BAR)		
Pipe Away Relief Valve		Flow curves on pages to follow		
Safety vents exhaust gases		Weight (425 2021-TF4)		
		2.58 lbs. (1.17 kg)		

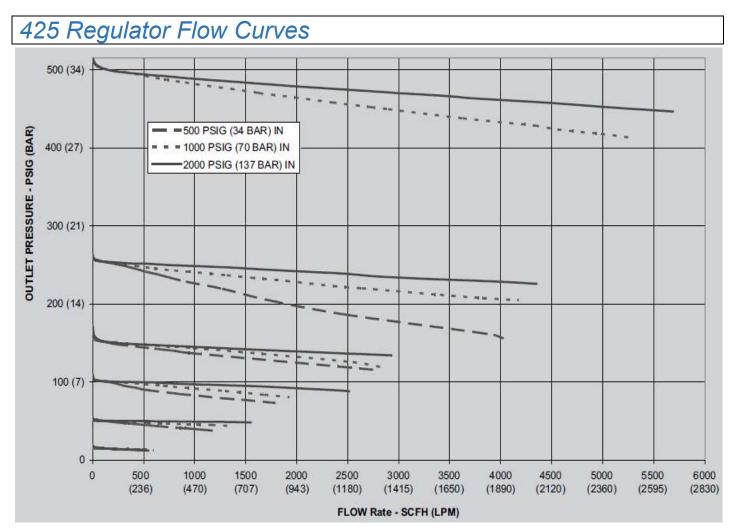
Model		Α	В	С	D	-CON	OPTIONS
Series	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly/Gauges	Inlet Connections	Installed Options
425	1: 0-15 PSIG	30"-0-30 PSIG/	0: None	0: 1/4" FPT port	0: Bare body	000: 1/4" FPT	M: Protocol station
	(0-1 BAR)	-1-0-2 BAR					
	2: 0-50 PSIG	30"-0-100 PSIG/		<b>1:</b> 1/4" MPT	1: Cleanroom	TF2: 1/8" tube	Q: Protocol purge
	(0-3.5 BAR)	-1-0-7 BAR			assembly (PSIG/kPa gauges)		station
	3: 0-100 PSIG	30"-0-200 PSIG/		2:1/4" tube fitting	2: Cleanroom	TF4: 1/4" tube	S: Stainless steel
	(0-7 BAR)	-1-0-14 BAR		<b>3:</b> Diaphragm valve 1/4" tube fitting	assembly (BAR/PSIG gauges)		bonnet
	4: 0-250 PSIG	PSIG 0-400 PSIG/ 4: Diaphragm valve 1/4" 6: Mirror image	6: Mirror image	<b>TF6:</b> 3/8" tube			
<b>5</b> : 0-500 PS (0-34 BAR) <b>7</b> : 0-150 PS	(0-17 BAR)	0-27 BAR		MPT	(PSIG/kPa gauges)		
	5: 0-500 PSIG	0-1000 PSIG/		5: Needle valve 1/4" MPT	7: Mirror image	<b>M06:</b> 6mm	
	(0-34 BAR) <sup>1</sup>	0-70 BAR		6: 1/8" tube fitting	(BAR/PSIG gauges)		
				7: 3/8" tube fitting			
	7: 0-150 PSIG	30"-0-200 PSIG/		8: Diaphragm valve 1/8"			
	(0-10 BAR)	-1-0-14 BAR		tube fitting			
				<b>9:</b> Diaphragm valve 1/4" FPT			
				M: 6mm tube fitting			
				S: Diaphragm valve 6mm			
				tube fitting			

## Related Options

Part Number	Description
CON 550-0002	Panel mount kit
CON 550-0001	Captured vent kit
CON 476-0002	Helium leak certification

### Installation Dimensions





Can't find what you need? We will be happy to assist you to find the right regulator to fit your needs.