



# 322 SINGLE STAGE STAINLESS STEEL REGULATOR

The 322 Series regulators are intended for primary pressure control of ultra-high purity and corrosive gases in applications where minor fluctuations in outlet pressure due to diminishing inlet supply can be tolerated.

## Highlighted Features

- Single Stage
- 316L Stainless Steel Barstock Body
- Four Port Configuration
- 316L Stainless Steel Diaphragm

## Typical Applications

- ❖ Gas and liquid chromatography
- ❖ High purity carrier gases
- ❖ Zero, span, and calibration gases
- ❖ High purity chamber pressurization
- ❖ Liquefied hydrocarbon gas control
- ❖ Control of cryogenic gases



Features	Materials	Specifications
<p><b>CAPSULE® Seat</b> Increased serviceability and life</p> <p><b>316L Stainless Steel Diaphragm</b> No inboard diffusion</p> <p><b>Low Wetted Surface Area</b> Minimal purge requirements</p> <p><b>Field-Adjustable Pressure Limit</b> Safeguard downstream equipment</p> <p><b>Convolute Diaphragm</b> Smooth pressure changes</p> <p><b>Compact Design</b> Easily transported and integrated into systems</p> <p><b>316L Stainless Steel Barsock Body</b> Increased corrosion resistance</p> <p><b>Rear Panel-Mountable</b> Easy installation</p> <p><b>Pressure Ranges 0-15 to 0-500 PSIG (0-1 to 0-35 BAR)</b> Broad range of applications</p>	<p><b>Body</b> 316L stainless steel barstock</p> <p><b>Bonnet</b> Chrome-plated die-cast zinc</p> <p><b>Seat</b> PTFE</p> <p>PCTFE with 3500 PSIG (240 BAR) or 4500 PSIG (310 BAR) inlet option</p> <p><b>Filter</b> Patented 10 micron 316 mesh</p> <p><b>Diaphragm</b> 316L stainless steel</p> <p><b>Internal Seals</b> PTFE</p>	<p><b>Maximum Inlet Pressure</b> 3000 PSIG (210 BAR) 3500 PSIG (240 BAR) optional 4500 PSIG (310 BAR) optional</p> <p><b>Temperature R</b> -40°F to 140°F (-40°C to 60°C)</p> <p><b>Gauge</b> 2" (53mm) diameter Chrome-plated brass case Stainless steel internals</p> <p><b>Ports</b> 1/4" FPT</p> <p><b>Helium Leak Integrity</b> 1 x 10<sup>-8</sup> scc/sec</p> <p><b>Cv</b> 0.1 <i>Flow curves on pages to follow</i></p> <p><b>Weight (322 2331-580)</b> 3.0 lbs. (1.34 kg)</p>

## Order Information

Model	A	B	C	D	-CON	Installed Options	
Series	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Gauges	Inlet Connections	Installed Options
322	1: 0-15 PSIG (0-1 BAR) <sup>1</sup>	30"-0-30 PSIG/ -1-0-2 BAR	0: None	0: 1/4" FPT port	0: Bare body	000: 1/4" FPT	B: Protocol alarm station with pressure switch gauges
	2: 0-50 PSIG (0-3.5 BAR)	30"-0-100 PSIG/ -1-0-7 BAR	3: 0-4000 PSIG/ 0-310 BAR	1: 1/4" MPT	1: Standard assembly (PSIG/kPa gauges)	TF2: 1/8" tube	C: Protocol switchover station
	3: 0-100 PSIG (0-7 BAR)	30"-0-200 PSIG/ -1-0-14 BAR	5: 0-1000 PSIG/ 0-70 BAR	2: 1/4" tube fitting	2: Standard assembly (BAR/PSIG gauges)	TF6: 3/8" tube	E: Protocol alarm station with intrinsically safe transducer for hazardous environments
	4: 0-250 PSIG (0-17 BAR)	0-400 PSIG/ 0-14 BAR	6: 0-300 PSIG/ 0-21 BAR	3: Diaphragm valve 1/4" tube fitting		M06: 6mm	H: Protocol switchover alarm station with pressure switch gauges
	5: 0-500 PSIG (0-34 BAR)	0-1000 PSIG/ 0-70 BAR	7: 0-400 PSIG/ 0-27 BAR	4: Diaphragm valve 1/4" MPT		CGA DIN 477 BS 341 and others available	J: Protocol alarm station with standard transducer for non-hazardous environments
	7: 0-150 PSIG (0-10 BAR)	30"-0-200 PSIG/ -1-0-14 BAR	8: 0-6000 PSIG/ 0-415 BAR <sup>2</sup>	5: Needle valve 1/4" MPT			K: Protocol switchover alarm station with standard transducer for non-hazardous environments
			G: 0-4000 PSIG/ 0-275 BAR <sup>3</sup>	6: 1/8" tube fitting			M: Protocol station
				7: 3/8" tube fitting			Q: Protocol purge station
				8: Diaphragm valve 1/8" tube fitting			T: Tee purge <sup>1</sup>
				9: Diaphragm valve 1/4" FPT			X: Protocol switchover alarm station with intrinsically safe transducer for hazardous environments
				M: 6mm tube fitting			
				S: Diaphragm valve 6mm tube fitting			

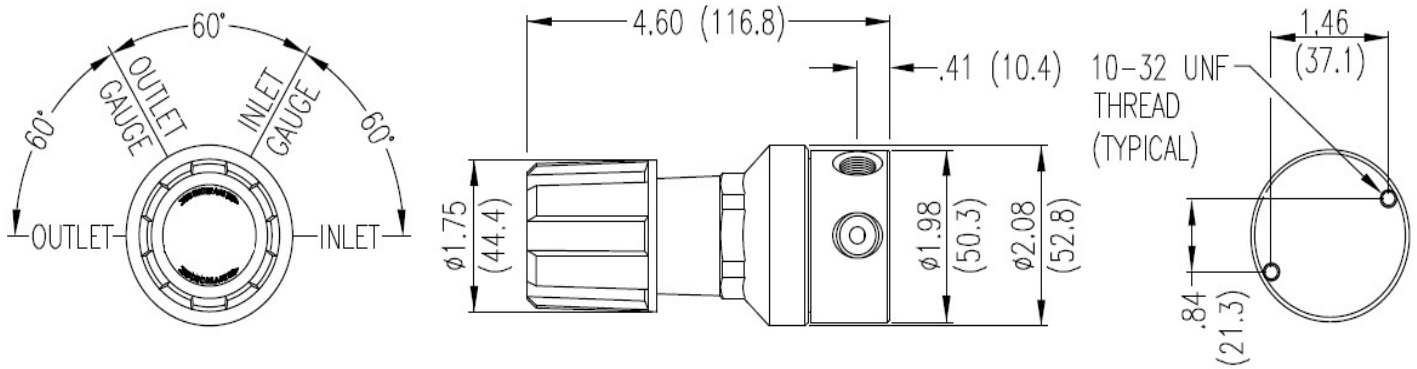
**Notes:**

- <sup>1</sup> Not available with 4500 PSIG (310 BAR) maximum inlet pressure
- <sup>2</sup> Maximum inlet pressure 4500 PSIG (310 BAR) with PCTFE seat CAPSULE®
- <sup>3</sup> Maximum inlet pressure 3500 PSIG (240 BAR) with PCTFE seat CAPSULE®

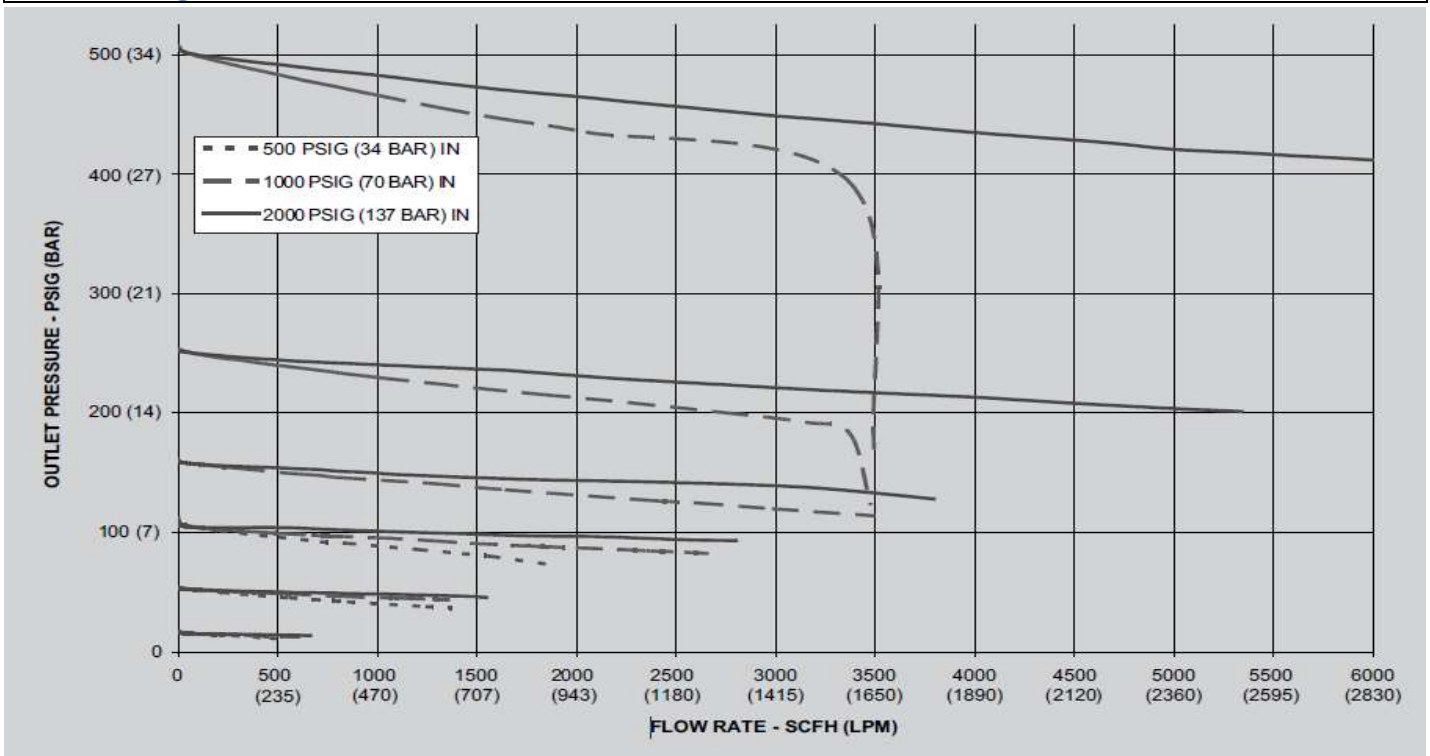
## Related Options

Part Number	Description
CON 835-0204	Rear panel mount kit

## Installation Dimensions



## 322 Regulator Flow Curves



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