



322 SINGLE STAGE STAINLESS STEEL UHP & CORROSIVE GAS 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>CAPSULE® Seat Increased serviceability and life</p> <p>316L Stainless Steel Diaphragm No inboard diffusion</p> <p>Low Wetted Surface Area Minimal purge requirements</p> <p>Field-Adjustable Pressure Limit Safeguard downstream equipment</p> <p>Convolute Diaphragm Smooth pressure changes</p> <p>Compact Design Easily transported and integrated into systems</p> <p>316L Stainless Steel Barsock Body Increased corrosion resistance</p> <p>Rear Panel-Mountable Easy installation</p> <p>Pressure Ranges 0-15 to 0-500 PSIG (0-1 to 0-35 BAR) Broad range of applications</p>	<p>Body 316L stainless steel barstock</p> <p>Bonnet Chrome-plated die-cast zinc</p> <p>Seat PTFE PCTFE with 3500 PSIG (240 BAR) or 4500 PSIG (310 BAR) inlet option</p> <p>Filter Patented 10 micron 316 mesh</p> <p>Diaphragm 316L stainless steel</p> <p>Internal Seals PTFE</p>	<p>Maximum Inlet Pressure 3000 PSIG (210 BAR) 3500 PSIG (240 BAR) optional 4500 PSIG (310 BAR) optional</p> <p>Temperature R -40°F to 140°F (-40°C to 60°C)</p> <p>Gauge 2" (53mm) diameter Chrome-plated brass case Stainless steel internals</p> <p>Ports 1/4" FPT</p> <p>Helium Leak Integrity 1 x 10⁻⁸ scc/sec</p> <p>Cv 0.1 <i>Flow curves on pages to follow</i></p> <p>Weight (322 2331-580) 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) ¹	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 ²	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 ³	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 ¹
				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:

¹ Not available with 4500 PSIG (310 BAR) maximum inlet pressure

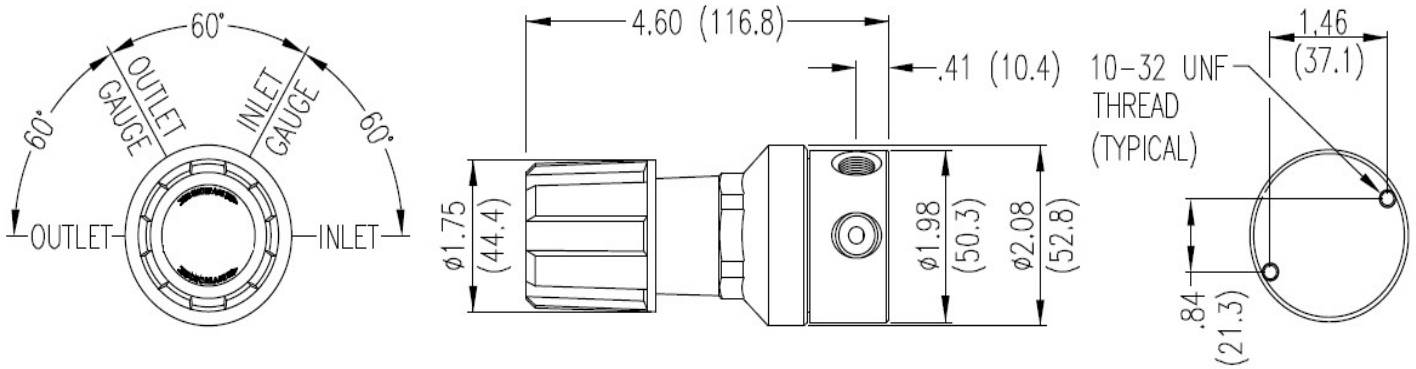
² Maximum inlet pressure 4500 PSIG (310 BAR) with PCTFE seat CAPSULE®

³ Maximum inlet pressure 3500 PSIG (240 BAR) with PCTFE seat CAPSULE®

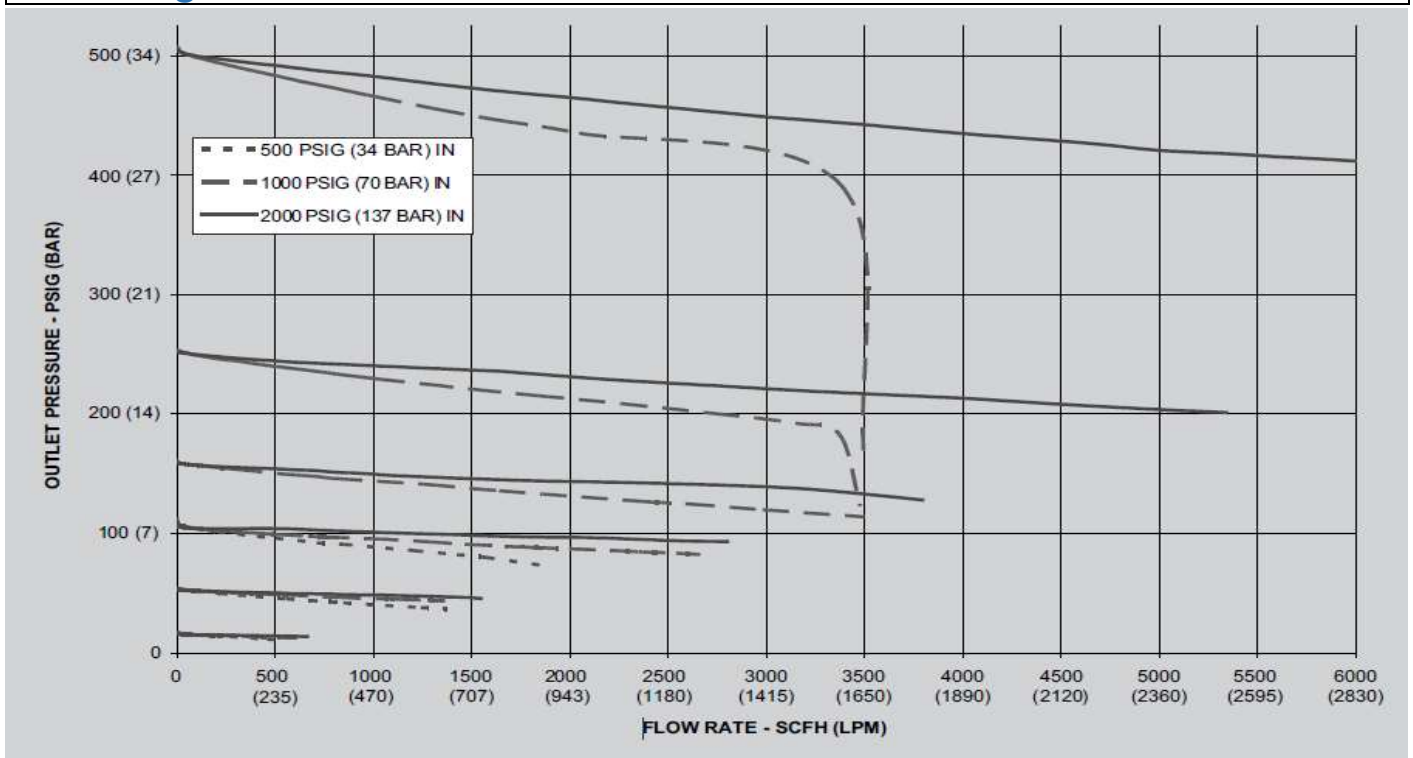
Related Options

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.