

405 SINGLE STAGE BRASS LINE REGULATOR

The 405 Series regulators are intended for secondary pressure control of non-corrosive, high purity or liquefied gases or as point of use pressure control in high purity gas distribution systems.

Highlighted Features

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

Typical Applications

- Bulk gas distribution systems
- 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

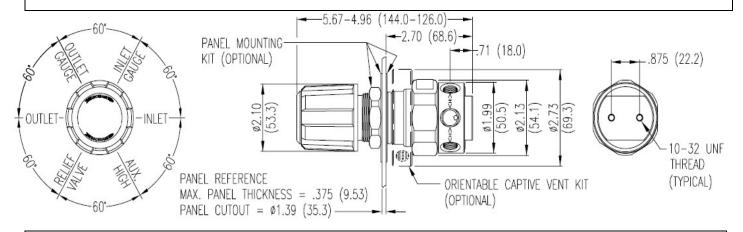


Features	Materials	Specifications		
Metal-to-Metal Diaphragm Seal	Body	Maximum Inlet Pressure		
No possibility of gas contamination	Brass barstock	3000 PSIG (210 BAR)		
CAPSULE® Seat	Bonnet	Temperature R		
Increased serviceability and life	Brass barstock	-40°F to 140°F (-40°C to 60°C)		
Brass Barstock Body	Seat	Gauge		
Smooth surface finish	PTFE	2" (53mm) diameter chrome-plated		
Front and Rear Panel-Mountable	Filter	Ports		
Versatile system configuration	10 micron sintered bronze	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 (3.5 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 (405 2021-000)		
		2.71 lbs. (1.23 kg)		

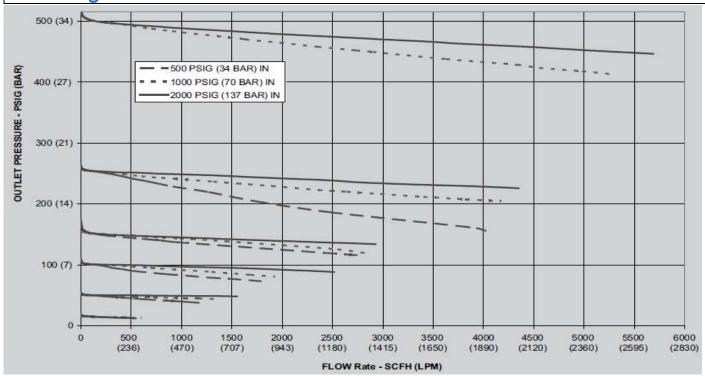
Order Information							
Model Series	Outlet	A Outlet Gauge	B Inlet Gauge	C Outlet Assemblies	D Gauges	-CON Inlet	Installed Options
	Pressure	Outlet Gauge	illet Gauge	Outlet Assemblies	Gauges	Connections	installed Options
4 05	1 : 0-15 PSIG	30"-0-30 PSIG/	0: None	0 : 1/4" FPT port	0: Bare body	000: 1/4" FPT	D: Deep purge*
	(0-1 BAR)*	-1-0-2 BAR					
	2: 0-50 PSIG	30"-0-100 PSIG/		1: 1/4" MPT	1: Cleanroom	TF2: 1/8" tube	M: Protocol station
	(0-3.5 BAR)	-1-0-7 BAR			assembly (PSIG/kPa		Q: Protocol purge station
					gauges)		
	3: 0-100 PSIG	30"-0-200 PSIG/ -		2:1/4" tube fitting	2: Cleanroom	TF4: 1/4" tube	
	(0-7 BAR)	1-0-14 BAR			assembly (BAR/PSIG gauges)		
	4: 0-250 PSIG	0-400 PSIG/		3: Diaphragm valve 1/4"	6: Mirror image	TF6: 3/8" tube	
	(0-17 BAR)	0-27 BAR		tube fitting	(PSIG/kPa gauges)	11 0 1 0/0 tabo	
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	5 : 0-500 PSIG	0-1000 PSIG/		4: Diaphragm valve 1/4"	7: Mirror image	M06: 6mm	
	(0-34 BAR)**	0-70 BAR		MPT	(BAR/PSIG gauges)		
	7: 0-150 PSIG	30"-0-200 PSIG/		5: Needle valve 1/4" MPT		CGA DIN 477	
	(0-10 BAR)	-1-0-14 BAR		5. Needle valve 1/4 IVIF1		BS 341 and	
	(0-10 BAIN)	-1-0-14 BAIX				others	
						available	
				6: 1/8" tube fitting			
	**Standard asser	mbly does not		7: 3/8" tube fitting			
	include relief valv	ve		8: Diaphragm valve 1/8"			
				tube fitting			
				9: Diaphragm valve 1/4"			
				FPT			
				A: 3/8" BSP RH fitting			
				B: Diaphragm valve 3/8"			
				fitting			
				C: 3/8" SP LH fitting			
				D: 6mm brass hose barb			
				(not available if A=4 or 5)			
				G: 1/8" stainless steel			
				tube fitting			
				H: 1/4" stainless steel			
				tube fitting			
				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



405 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.