

212 SERIES REGULATORS



The 212 Series regulators are designed for primary pressure control of non-corrosive, high purity, or gases supplied from cryogenic liquid cylinders (up to grade 4.5). Two stages of pressure regulation minimize any pressure variation, making the 212 Series regulator ideal for applications requiring constant pressure control and delivery regardless of any supply pressure variation arising from inlet pressure changes, such as the depletion of the supply cylinder.

Typical Applications

- Control of Cryogenic Gases
- Non-corrosive Mixtures
- Gas and Liquid Chromatography
- Analytical Laboratory Applications



2123331-01-580 shown

Features

- Standard Relief Valve** protects diaphragm and gauges
- 316L Stainless Steel Diaphragm** prevents inboard diffusion
- CAPSULE® Seat Technology** increases product serviceability and life
- High Flow Capacity** permits multiple user locations

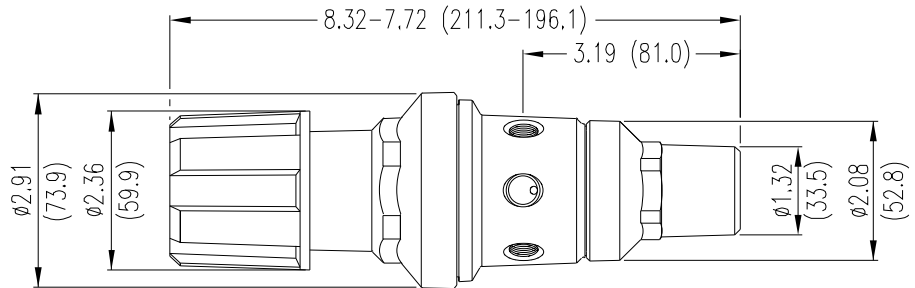
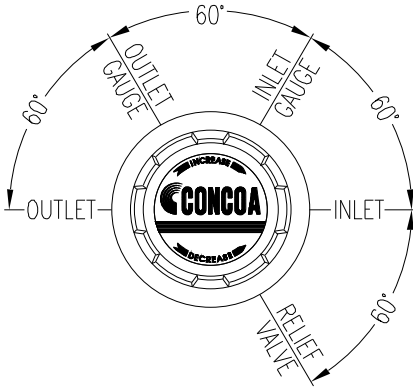
Materials and Specifications

- Maximum Inlet Pressure (bare body):** 3000 PSIG (210 BAR); or 3500 PSIG (240 BAR) or 4500 PSIG (310 BAR) optional
- Body:** Chrome-plated forged brass
- Bonnet:** Chrome-plated, die cast zinc
- Gauges:** 2 1/2 in (68 mm) diameter plated case
- Seats:** PCTFE (first stage); PTFE (second stage)
- Filter:** 10-micron sintered bronze
- Temperature Range:** -40°F to 140°F (-40°C to 60°C)
- Diaphragm:** 316L Stainless steel
- Cv:** 0.28
- Helium Leak Integrity** 1×10^{-8} scc/sec
- Internal Seals:** PTFE
- Ports (bare body):** 1/4 in FNPT
- Conformances:** Cleanliness meets or exceeds CGA G-4.1; PED 2014/68/EU; ANSI/ASME B40.1; CRN OH5216

212 SERIES REGULATORS



Installation Dimensions



Ordering Information

212	A	B	C	D	-CON	Options	
Series 212	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly Gauges	Inlet Connections	Installed Options
1: 0-15 PSIG (0-1 BAR)	0-30 PSIG/ 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: 0-40 PSIG (0-3 BAR)	0-60 PSIG/ 0-4 BAR	3: 0-4000 PSIG/ 0-275 BAR	1: 1/4" MPT	1: Standard assembly (PSIG/kPa gauges)	TF2: 1/8" tube	C: Protocol switchover station	
3: 0-120 PSIG (0-8 BAR)	0-200 PSIG/ 0-14 BAR	5: 0-1000 PSIG/ 0-70 BAR	2: 1/4" tube fitting	2: Standard assembly (BAR/PSIG gauges)	TF4: 1/4" tube	E: Protocol alarm station with intrinsically safe transducer for hazardous environments	
4: 0-200 PSIG (0-14 BAR)	0-400 PSIG/ 0-27 BAR	6: 0-400 PSIG/ 0-27 BAR	3: Diaphragm valve 1/4" tube fitting		TF6: 3/8" tube	H: Protocol switchover alarm station with pressure switch gauges	
5: 0-15 PSIG (0-1 BAR)*	0-30 PSIG/ 0-2 BAR with redline for acetylene use	8: 0-6000 PSIG/ 0-415 BAR*	4: Diaphragm valve 1/4" MPT		M06: 6mm tube	J: Protocol alarm station with standard transducer for non-hazardous environments	
* Not available with 4500 PSIG (310 BAR) Max Inlet		9: 0-600 PSIG/ 0-42 BAR	5: Needle valve 1/4" MPT		CGA DIN 477 BS 341 and others available	K: Protocol switchover alarm station with standard transducer for non-hazardous environments	
	G: 0-4000 PSIG/ 0-275 BAR†		6: 1/8" tube fitting			M: Protocol station	
	*Max inlet 4500 PSIG (310 BAR) with PCTFE seat CAPSULE®		7: 3/8" tube fitting			Q: Protocol purge station	
	*Maximum inlet pressure 3500 (240 BAR) with PCTFE seat CAPSULE		8: Diaphragm valve 1/8" tube fitting			T: Tee purge	
			9: Diaphragm valve 1/4" FPT			X: Protocol switchover alarm station with intrinsically safe transducer for hazardous environments	
			A: 3/8" BSP RH fitting				
			B: Diaphragm valve 3/8" tube fitting				
			C: 3/8" BSP LG fitting				
			D: 6mm brass hose barb				
			G: 1/8" stainless steel tube fitting				
			H: 1/4" stainless steel tube fitting				
			M: 6mm tube fitting				
			S: Diaphragm valve 6mm tube fitting				

REGULATOR FLOW CURVES



Flow Curves for 212 Series

