

493 SERIES REGULATORS



The 493 Series regulator provides primary pressure control of ultra-high purity and corrosive gases in applications requiring ultra-high pressures. Rather than a diaphragm, the regulator uses a robust piston assembly to ensure safe pressure control at high inlet pressures. Available with a variety of options installed at the factory, the CONCOA 493 Series regulator may be configured as a line regulation or a single station manifold with or without purge, low-pressure alarm, or multiple inlets.

Typical Applications

- Airplane Strut Charging
- Research and Development Laboratories
- Chemical Manufacturing
- Aerospace Hydraulic Systems
- Pharmaceutical Manufacturing



493 3801-01-000 shown

Features

CAPSULE® Seat increases serviceability and life

Large Piston Sensor controls pressure to 6000 PSIG (415 BAR)

Low Wetted Surface Area minimizes purge requirements

Field-Adjustable Pressure Limit safeguards downstream equipment

Convuluted Diaphragm provides smooth pressure changes

Front and Rear Panel-Mountable allows easy installation

Six Port Design offers installation alternatives

Pressure Ranges from 0-750 to 0-6000 PSIG (0-50 to 0-415 BAR) facilitate a broad range of applications

Materials and Specifications

Maximum Inlet Pressure (bare body): 6000 PSIG (415 BAR)

Body: 316L Stainless steel barstock

Bonnet: 304 Stainless steel

Gauges: 2 1/2 in (63 mm) diameter stainless steel

Seat: PCTFE 3000 PSIG (210 BAR) and 4500 PSIG (310 BAR) inlet; PEEK 6000 PSIG (415 BAR) inlet option

Filter: 10-micron 316 stainless steel mesh

Temperature Range: -40°F to 140°F (-40°C to 60°C)

Piston: 316L stainless steel

Cv: 0.1 See *flow curves attached*

Internal Seals: FKM (encapsulated)

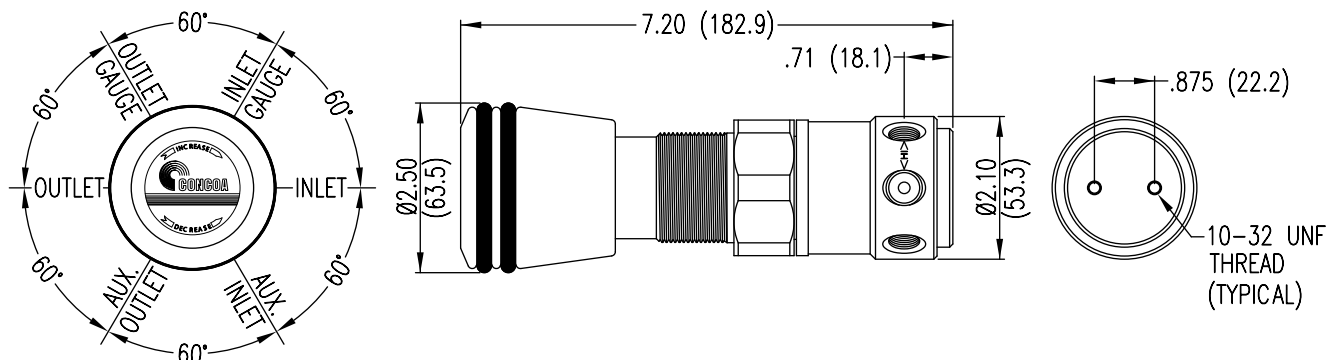
Ports (bare body): 1/4 in FNPT

Conformances: Cleanliness meets or exceeds CGA G-4.1; PED 2014/68/EU; ANSI/ASME B40.1; CRN OH5216

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Installation Dimensions



Ordering Information

493	A	B	C	D	-CON	Options		
Series 493	Outlet Pressure	Outlet Gauge	Inlet Maximum	Inlet Gauge	Outlet Assemblies	Assembly Gauges	Inlet Connections	Installed Options
	1: 0-750 PSIG (0-50 BAR)	0-1000 PSIG/ 0-70 BAR	0: 6000 PSIG (0-415 BAR)*	None	0: 1/4" FNPT	0: Bare body†	CGA DIN 477 BS 341 and others available.	B: Protocol alarm station with pressure switch gauges
	2: 0-1500 PSIG (0-100 BAR)	0-4000 PSIG/ 0-275 BAR	3: 3000 PSIG (210 BAR)	0-4000 PSIG/ 0-275 BAR	1: 1/4" MNPT	1: Standard assembly (PSIG/kPa gauges)		C: Protocol switchover station
	3: 0-2500 PSIG (0-170 BAR)	0-4000 PSIG/ 0-275 BAR	8: 5500 PSIG (379 BAR)	0-6000 PSIG/ 0-415 BAR	2: 1/4" tube fitting	2: Standard assembly (BAR/PSIG gauges)		E: Protocol alarm station with intrinsically safe transducer for hazardous environments
	4: 0-4500 PSIG (0-310 BAR)*	0-6000 PSIG/ 0-415 BAR	9: 6000 PSIG (415 BAR)	0-10,000 PSIG/ 0-700 BAR	5: Needle valve 1/4" MNPT	6: Mirror image (PSIG/kPa gauges)		H: Protocol switchover alarm station with pressure switch gauges
	5: 0-6000 PSIG (0-415 BAR)†	0-10,000 PSIG/ 0-700 BAR	<i>* Only valid if D=1 or 2 (outlet gauge specified).</i>		6: 1/8" tube fitting	7: Mirror image (BAR/PSIG gauges)		J: Protocol alarm station with standard transducer for non-hazardous environments
	6: 0-3500 PSIG (241 BAR)*	0-6000 PSIG/ 415 BAR			7: 3/8" tube fitting	<i>†B must be 3, 8 or 9 (maximum pressure specified).</i>		K: Protocol switchover alarm station with standard transducer for non-hazardous environments
<i>*Not available with 3000 PSIG (210 BAR) maximum inlet pressure.</i>					F: Needle valve 1/4" tube fitting	M: Protocol station		
<i>†Only available with 6000 PSIG (415 BAR) maximum inlet pressure.</i>					M: 6mm tube fitting	Q: Protocol purge station*		
					Note: Outlet fittings and outlet valves are 316 stainless steel.			
					X: Protocol switchover alarm station with intrinsically safe transducer for hazardous environments			
					<i>*3000 PSIG (210 BAR) maximum inlet only valid if B=3.</i>			

Related Options

Part No.	Description
830 6483	Panel Mount Kit for 492/493/1400 Series Regulators

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Flow Curves for 493 Series

