



# 400 Series Regulators

# 493 SERIES

The 493 Series regulator applications are wide and varied including high flow purging, pressure testing, manifold and line regulation.

- Single Stage
- Piston-Sensed
- Ultra-High Pressure
- 316L Stainless Steel Barstock Body

## Typical Applications

- Airplane strut charging
- Research and development laboratories
- Chemical manufacturing
- Aerospace hydraulic systems
- Pharmaceutical manufacturing
- Gauge calibration



493 5952-677 shown

## Features

- Large Piston Sensor**  
Safely control pressures to 6000 PSIG (415 BAR)
- CAPSULE® Seat**  
Increased serviceability and life
- Low Wetted Surface Area**  
Minimal purge requirements
- Field-Adjustable Pressure Limit**  
Safeguard downstream equipment
- 316 Stainless Steel Barstock Body**  
Smooth surface finish
- Front and Rear Panel-Mountable**  
Versatile system configuration
- Pressure Ranges 0-750 to 0-6000 PSIG (0-50 to 0-415 BAR)**  
Broad range of applications
- Six Port Design**  
Flexible installation alternatives

## Materials

- Body**  
316L stainless steel barstock
- Bonnet**  
304 stainless steel
- Seat**  
PCTFE 3000 and 4500 PSIG (210 and 310 BAR) inlet  
Arlon® (PEEK) 6000 PSIG (415 BAR) inlet
- Piston**  
316L stainless steel
- Filter**  
Patented 10 micron 316 mesh
- Internal Seals**  
Viton®

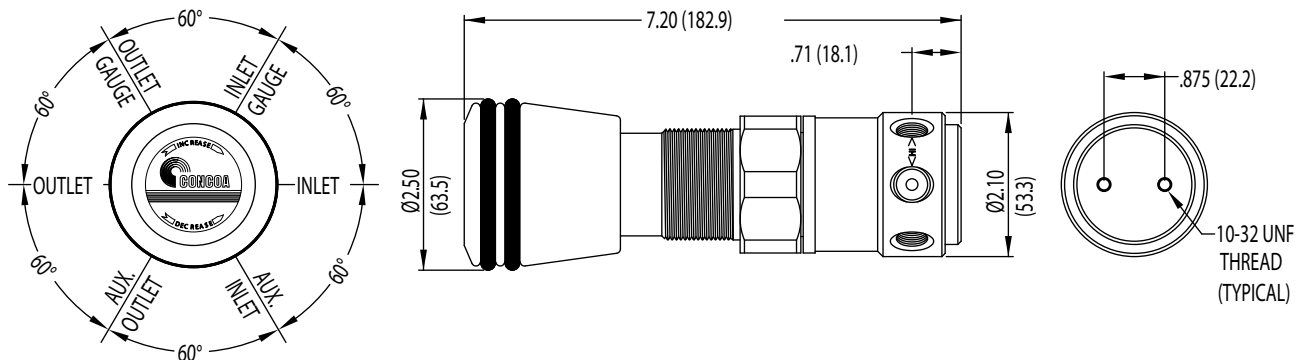
## Specifications

- Maximum Inlet Pressure**  
6000 PSIG (415 BAR)
- Temperature Range**  
-40°F to 140°F (-40°C to 60°C)
- Gauges**  
2 1/2" (53mm) diameter stainless steel
- Ports**  
1/4" FPT
- Cv**  
0.1  
*See page 204 for flow curves*
- Weight (493 5952-677)**  
4.64 lbs. (2.10 kg)

# 400 Series Regulators



## Installation Dimensions



REGULATORS

## 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
	<b>1:</b> 0-750 PSIG (0-50 BAR)	0-1000 PSIG/ 0-70 BAR	<b>0:</b> 6000 PSIG (0-415 BAR)*	None	<b>0:</b> 1/4" FPT	<b>0:</b> Bare body <sup>†</sup>	CGA DIN 477 BS 341 and others available	<b>B:</b> Protocol alarm station (110/220 VAC)
	<b>2:</b> 0-1500 PSIG (0-100 BAR)	0-4000 PSIG/ 0-275 BAR	<b>3:</b> 3000 PSIG (210 BAR)	0-4000 PSIG/ 0-275 BAR	<b>1:</b> 1/4" MPT	<b>1:</b> Standard assembly (PSIG/kPa gauges)		<b>C:</b> Protocol switchover station
	<b>3:</b> 0-2500 PSIG (0-170 BAR)	0-4000 PSIG/ 0-275 BAR	<b>8:</b> 5500 PSIG (379 BAR)	0-6000 PSIG/ 0-415 BAR	<b>2:</b> 1/4" tube fitting	<b>2:</b> Standard assembly (BAR/PSIG gauges)		<b>H:</b> Protocol switchover station with alarm (110/220 VAC)
	<b>4:</b> 0-4500 PSIG (0-310 BAR)*	0-6000 PSIG/ 0-415 BAR	<b>9:</b> 6000 PSIG (415 BAR)	0-10,000 PSIG/ 0-700 BAR	<b>5:</b> Needle valve 1/4" MPT	<b>6:</b> Mirror image (BAR/kPa gauges)		<b>M:</b> Protocol station
	<b>5:</b> 0-6000 PSIG (0-415 BAR) <sup>†</sup>	0-10,000 PSIG/ 0-700 BAR	<i>* Only valid if D=1 or 2 (outlet gauge specified)</i>		<b>6:</b> 1/8" tube fitting	<b>7:</b> Mirror image (BAR/PSIG gauges)		<b>Q:</b> Protocol purge station*
	<b>6:</b> 0-3500 PSIG (241 BAR)*	0-6000 PSIG/ 415 BAR			<b>7:</b> 3/8" tube fitting	<i><sup>†</sup>B must be 3, 8 or 9 (maximum pressure specified)</i>		<i>*3000 PSIG (210 BAR) maximum inlet only valid if B=3</i>
		<i>*Not available with 3000 PSIG (210 BAR) maximum inlet pressure</i>				<b>F:</b> Needle valve 1/4" tube fitting		
		<i><sup>†</sup>Only available with 6000 PSIG (415 BAR) maximum inlet pressure</i>				<b>M:</b> 6mm tube fitting		
						<i>Note: Outlet fittings and outlet valves are 316 stainless steel</i>		

## Related Options

Options	Order No.	Description
Panel Mount Kit	830 6483	To mount the regulator using bonnet threads. Material: Chrome-plated brass

# Flow Curves for 492, 493 Series

