



400 Series Regulators

492 SERIES

The 492 Series regulators are intended for primary pressure control of non-corrosive gases at a maximum inlet pressure of 6000 PSIG (415 BAR).

- Single Stage
- Piston-Sensed
- Ultra-High Pressure
- Chrome-Plated Brass Barstock Body

Typical Applications

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



492 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
- Chrome-Plated Brass 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**
Chrome-plated brass barstock
- Bonnet**
Chrome-plated brass barstock
- Seat**
PTFE 3000 and 4500 PSIG (210 and 310 BAR) inlet
Arlon® (PEEK) (6000 PSIG inlet)
- Piston**
Brass barstock
- Filter**
10 micron sintered bronze
- Internal Seals**
Viton® (encapsulated)

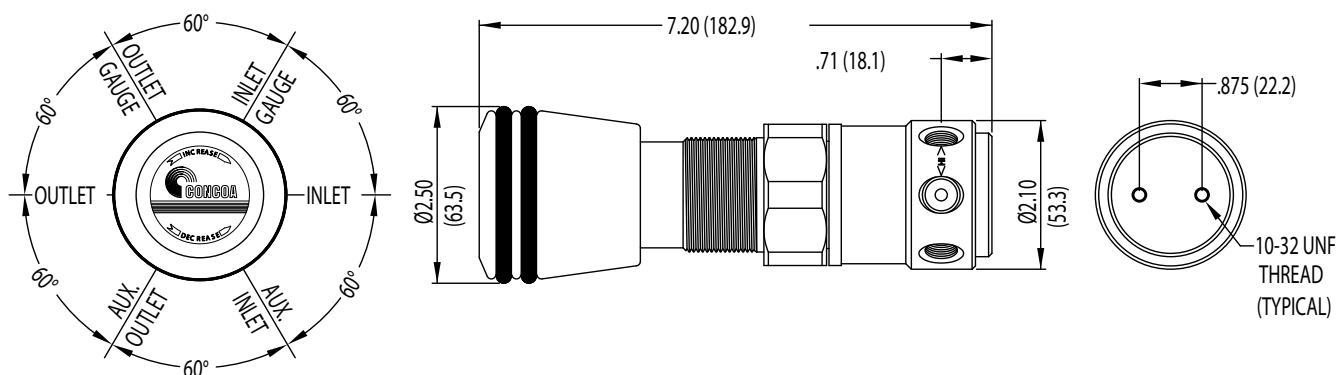
Specifications

- 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 chrome-plated brass
- Ports**
1/4" FPT
- Cv**
0.1
See page 204 for flow curves
- Weight (492 4952-677)**
5.59 lbs. (2.54 kg)

400 Series Regulators



Installation Dimensions



REGULATORS

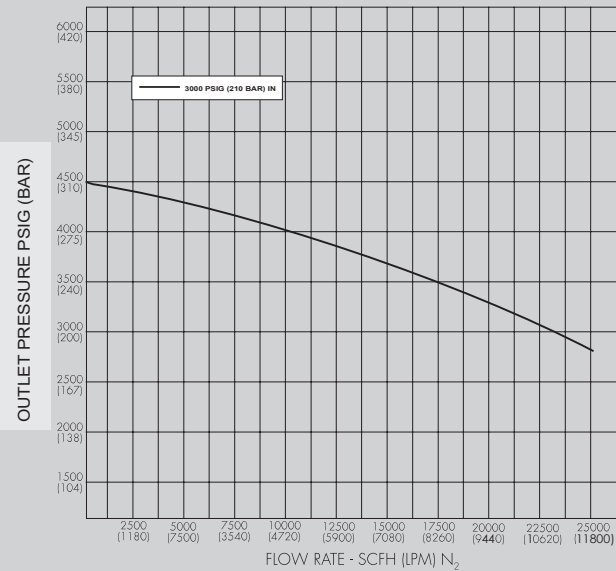
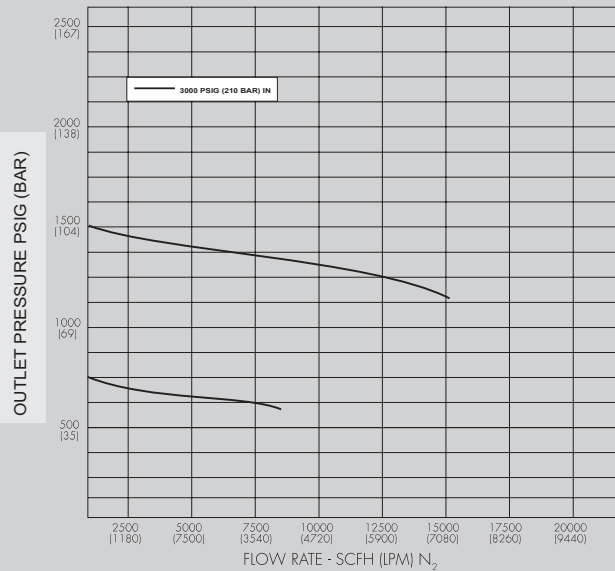
Ordering Information

492	A		B		C	D	-CON	Options	
Series 492	Outlet Pressure	Outlet Gauge	Inlet Maximum	Inlet Gauge	Outlet Assemblies	Assembly Gauges	Inlet Connections CGA DIN 477 BS 341 and others available	Installed Options	
	1: 0-750 PSIG (50 BAR)	0-1000 PSIG/ 0-70 BAR	0: 6000 PSIG (415 BAR)*	None	0: 1/4" FPT	0: Bare body†		B: Protocol alarm station (110/220 VAC)	
	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" MPT	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 (380 BAR)	0-6000 PSIG/ 0-415 BAR	2: 1/4" tube fitting	2: Standard assembly (BAR/PSIG gauges)		H: Protocol switchover station with alarm (110/220 VAC)	
	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" MPT	6: Mirror image (BAR/kPa gauges)		M: Protocol station	
	5: 0-6000 PSIG (0-415 BAR)†	0-10,000 PSIG/ 0-700 BAR	*Only valid if D = 1 or 2 (outlet gauge specified)		6: 1/8" tube fitting	7: Mirror image (BAR/PSIG gauges)		Q: Protocol purge station*	
	6: 0-3500 PSIG (0-240 BAR)*	0-6000 PSIG/ 0-415 BAR			7: 3/8" tube fitting	†B must be 3, 8 or 9 (maximum pressure specified)		*3000 PSIG (210 BAR) maximum inlet only valid if B=3	
	*Not available with 3000 PSIG (210 BAR) maximum inlet pressure				F: Needle valve 1/4" tube fitting				
					M: 6mm tube fitting				
	†Only available with 6000 PSIG (415 BAR) maximum inlet pressure		Note: Outlet fittings and outlet valves are 316 stainless steel						

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





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



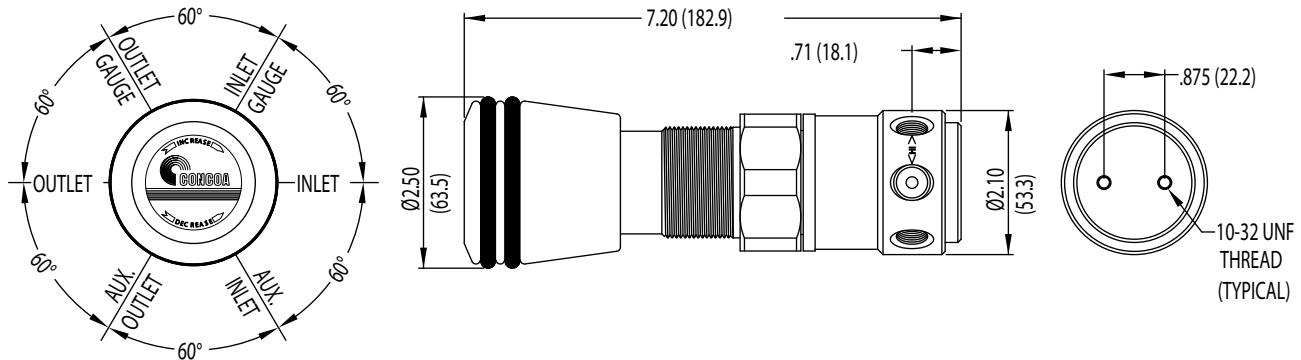
493 5952-677 shown

Features	Materials	Specifications
Large Piston Sensor Safely control pressures to 6000 PSIG (415 BAR)	Body 316L stainless steel barstock	Maximum Inlet Pressure 6000 PSIG (415 BAR)
CAPSULE® Seat Increased serviceability and life	Bonnet 304 stainless steel	Temperature Range -40°F to 140°F (-40°C to 60°C)
Low Wetted Surface Area Minimal purge requirements	Seat PCTFE 3000 and 4500 PSIG (210 and 310 BAR) inlet Arlon® (PEEK) 6000 PSIG (415 BAR) inlet	Gauges 2 1/2" (53mm) diameter stainless steel
Field-Adjustable Pressure Limit Safeguard downstream equipment	Piston 316L stainless steel	Ports 1/4" FPT
316 Stainless Steel Barstock Body Smooth surface finish	Filter Patented 10 micron 316 mesh	Cv 0.1 <i>See page 204 for flow curves</i>
Front and Rear Panel-Mountable Versatile system configuration	Internal Seals Viton®	Weight (493 5952-677) 4.64 lbs. (2.10 kg)
Pressure Ranges 0-750 to 0-6000 PSIG (0-50 to 0-415 BAR) Broad range of applications		
Six Port Design Flexible installation alternatives		

400 Series Regulators



Installation Dimensions



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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" FPT	0: Bare body†	CGA DIN 477 BS 341 and others available	B: Protocol alarm station (110/220 VAC)
	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" MPT	1: Standard assembly (PSIG/kPa gauges)		C: Protocol switchover station
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	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)		Q: Protocol purge station*
	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>		<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>				F: Needle valve 1/4" tube fitting			
					M: 6mm tube fitting			
	<i>†Only available with 6000 PSIG (415 BAR) maximum inlet pressure</i>				<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

