

# 483 Series Regulator

*Single Stage  
Ultra-High Flow  
Brass Barstock Body  
Four-Port  
Configuration  
316L Stainless Steel  
Diaphragm*

## Typical Applications

- Ultra-high Flow
- 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

## Advanced Features

- Brass barstock body  
Smooth surface finish
- Rear panel-mountable  
Versatile system configuration
- Pressure ranges 0-15 to 0-250 PSIG  
Broad range of applications
- 3000 PSIG inlet pressure rating  
Safe use with high pressure cylinders



483-3001 shown

The 483 Series regulator applications are wide and varied including high flow purging, semiconductor manufacturing, manifold and line regulation.

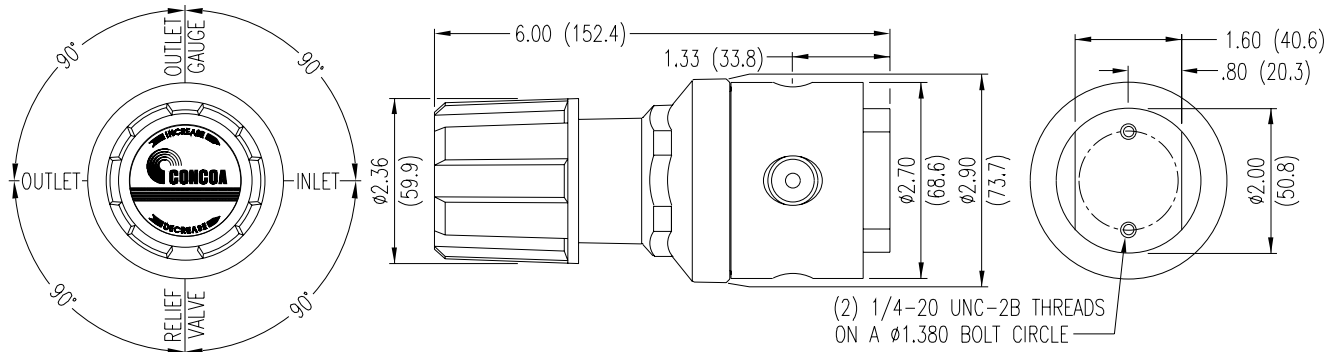
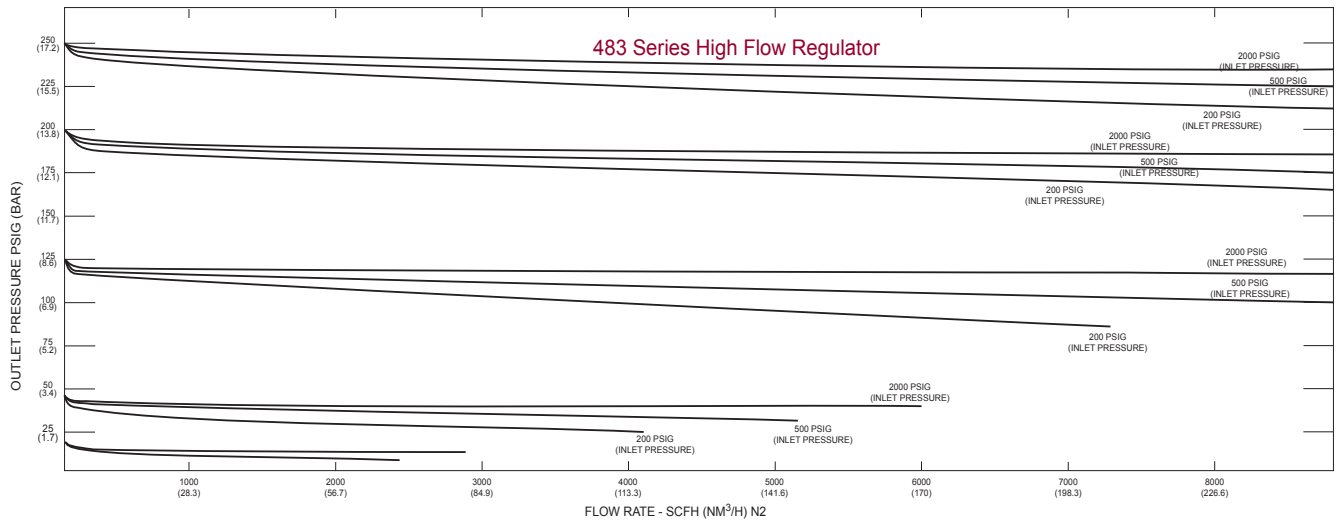
## 400 Advantage Materials Specifications

<ul style="list-style-type: none"> <li>• PTFE diaphragm seal No possibility of gas contamination</li> <li>• ISOFLOW™ technology Internal equalization provides constant delivery pressure at high flows</li> <li>• 316L stainless steel diaphragm No inboard diffusion</li> <li>• Low wetted surface area Minimal purge requirements</li> <li>• Field-adjustable pressure limit Safeguard downstream equipment</li> <li>• Pipe away relief valve Safely vent exhaust gases</li> </ul>	<p><i>Body</i> Brass barstock</p> <p><i>Bonnet</i> Chrome-plated die cast zinc</p> <p><i>Seat</i> PCTFE</p> <p><i>Filter</i> 40 micron 316L stainless steel</p> <p><i>Diaphragm</i> 316L stainless steel</p> <p><i>Internal Seals</i> PTFE</p>	<p><i>Maximum Inlet Pressure</i> 3000 PSIG (210 BAR)</p> <p><i>Temperature Range</i> -40°F to 140°F (-40°C to 60°C)</p> <p><i>Gauge</i> 2" diameter brass</p> <p><i>Ports</i> ½" FPT (inlet/outlet) ¼" FPT (gauge/relief valve)</p> <p><i>Helium Leak Integrity</i> 1 x 10<sup>-8</sup> scc/sec</p> <p><i>Cv</i> 1.0</p> <p><i>Weight (483-3001-TF8)</i> 4.79 lbs. (2.17 kg)</p>
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# Flow Performance Curves



## Ordering Information *(For information about how to use this table please see page 4.)*

483	A		B	C	D	-Inlet	Options
Series	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly/ Gauges	Inlet Connections	Installed Options
	1: 0-15	0-30 PSIG	0: None	0: 1/2" FPT Port	0: Bare Body	000: 1/2" FPT	None
	2: 0-40	0-60 PSIG		1: 1/2" Tube Fitting	1: Standard Assembly (PSIG/kPa Gauges)	TF8: 1/2" Tube	
	3: 0-120	0-200 PSIG		P: 12mm Tube Fitting	2: Standard Assembly (BAR/PSIG Gauges)	M12: 12mm Tube	
	4: 0-200	0-400 PSIG			6: Mirror Image Assembly (PSIG/kPa Gauges)		
	5: 0-250	0-400 PSIG			7: Mirror Image Assembly (BAR/PSIG Gauges)		

400 Series High Flow Regulators