



# 485 SINGLE STAGE BRASS ULTRA-HIGH FLOW REGULATOR

The 485 Series regulator applications are wide and varied including high flow purging, non-corrosive process gas control, manifold and line regulation.

## Highlighted Features

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

## Typical Applications

- ❖ Bulk gas distribution systems
- ❖ Gas and liquid chromatography
- ❖ High purity carrier gases
- ❖ Zero, span, and calibration gases
- ❖ High purity chamber pressurization
- ❖ Liquefied hydrocarbon control gas
- ❖ Control of cryogenic gases



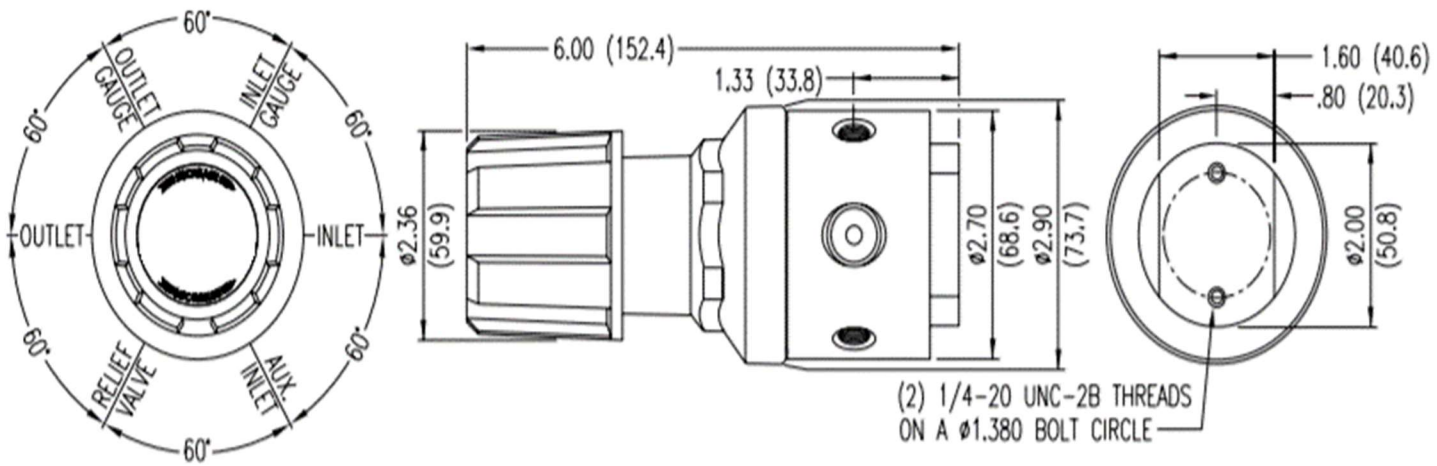
Features	Materials	Specifications
<p><b>PTFE Diaphragm Seal</b> No possibility of gas contamination</p> <p><b>ISOFLOW Technology</b> Internal equalization provides constant delivery pressure at high flows</p> <p><b>Brass Barstock Body</b> Smooth surface finish</p> <p><b>Rear Panel-Mountable</b> Versatile system configuration</p> <p><b>Pressure Ranges 0-15 to 0-250 PSIG (0-1 to 0-17 BAR)</b> Broad range of applications</p> <p><b>Pipe Away Relief Valve</b> Safely vents exhaust gases</p>	<p><b>Body</b> Brass barstock</p> <p><b>Bonnet</b> Chrome-plated die-cast zinc</p> <p><b>Seat</b> PCTFE</p> <p><b>Filter</b> 40 micron 316L stainless steel mesh</p> <p><b>Diaphragm</b> 316L stainless steel</p> <p><b>Internal Seals</b> PTFE</p>	<p><b>Maximum Inlet Pressure</b> 3000 PSIG (210 BAR)</p> <p><b>Temperature Range</b> -40°F to 140°F (-40°C to 60°C)</p> <p><b>Gauge</b> 2" (53mm) diameter brass</p> <p><b>Ports</b> 1/2" FPT (inlet/outlet) 1/4" FPT (gauge/relief valve)</p> <p><b>Helium Leak Integrity</b> 1 x 10<sup>-8</sup> scc/sec</p> <p><b>Cv</b> 0.1 <i>Flow curves on pages to follow</i></p> <p><b>Weight (485 3301-000)</b> 5.85 lbs. (2.65 kg)</p>

## Order Information

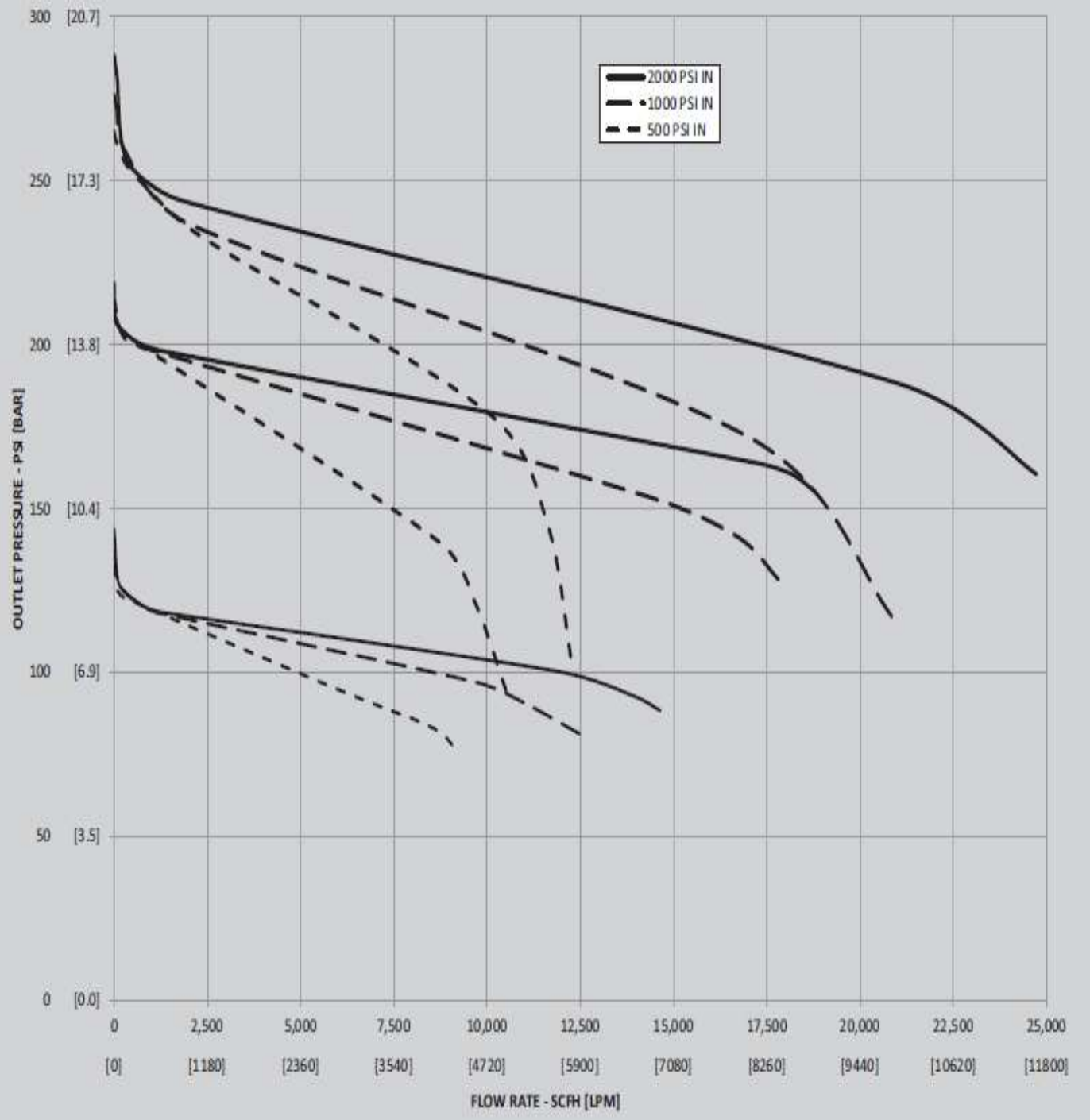
Model	A	B	C	D	-CON	OPTIONS	
Series	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly/Gauges	Inlet Connections	Installed Options
<b>485</b>	<b>1:</b> 0-15 PSIG (0-1 BAR)	30"-0-30 PSIG/ -1-0-2 BAR	<b>0:</b> None	<b>0:</b> 1/2" FPT port	<b>0:</b> Bare body	<b>000:</b> 1/2" FPT	<b>B:</b> Protocol alarm station with pressure switch gauges <b>C:</b> Protocol switchover station
	<b>2:</b> 0-40 PSIG (0-3 BAR)	30"-0-60 PSIG/ -1-0-4 BAR	<b>3:</b> 0-4000 PSIG/ 0-275 BAR	<b>1:</b> 1/2" tube fitting	<b>1:</b> Cleanroom assembly (PSIG/kPa gauges)	<b>TF8:</b> 1/2" tube	<b>E:</b> Protocol alarm station with intrinsically safe transducer for hazardous environments
	<b>3:</b> 0-120 PSIG (0-8 BAR)	30"-0-200 PSIG/ -1-0-14 BAR	<b>5:</b> 0-1000 PSIG/ 0-70 BAR	<b>5:</b> Needle valve 1/4" MPT	<b>2:</b> Cleanroom assembly (BAR/PSIG gauges)	<b>M12:</b> 12mm tube	<b>H:</b> Protocol switchover alarm station with pressure switch gauges
	<b>4:</b> 0-200 PSIG (0-14 BAR)	0-400 PSIG/ 0-27 BAR	<b>6:</b> 0-400 PSIG/ 0-28 BAR	<b>P:</b> 12mm tube fitting	<b>6:</b> Mirror image assembly (PSIG/kPa gauges)	CGA DIN 477 BS 341 and others available	<b>J:</b> Protocol alarm station with standard transducer for non- hazardous environments
	<b>5:</b> 0-250 PSIG (0-17 BAR)	0-400 PSIG/ 0-27 BAR	<b>7:</b> 0-200 PSIG/ 0-17 BAR		<b>7:</b> Mirror image assembly (BAR/PSIG gauges)		<b>K:</b> Protocol switchover alarm station with standard transducer for non-hazardous environments
			<b>9:</b> 0-600 PSIG/ 0-42 BAR				<b>M:</b> Protocol station <b>Q:</b> Protocol purge station*
							<b>X:</b> Protocol switchover alarm station with intrinsically safe transducer for hazardous environments

**NOTES:** \*Not available with 4500 PSIG (310 BAR) max inlet pressure

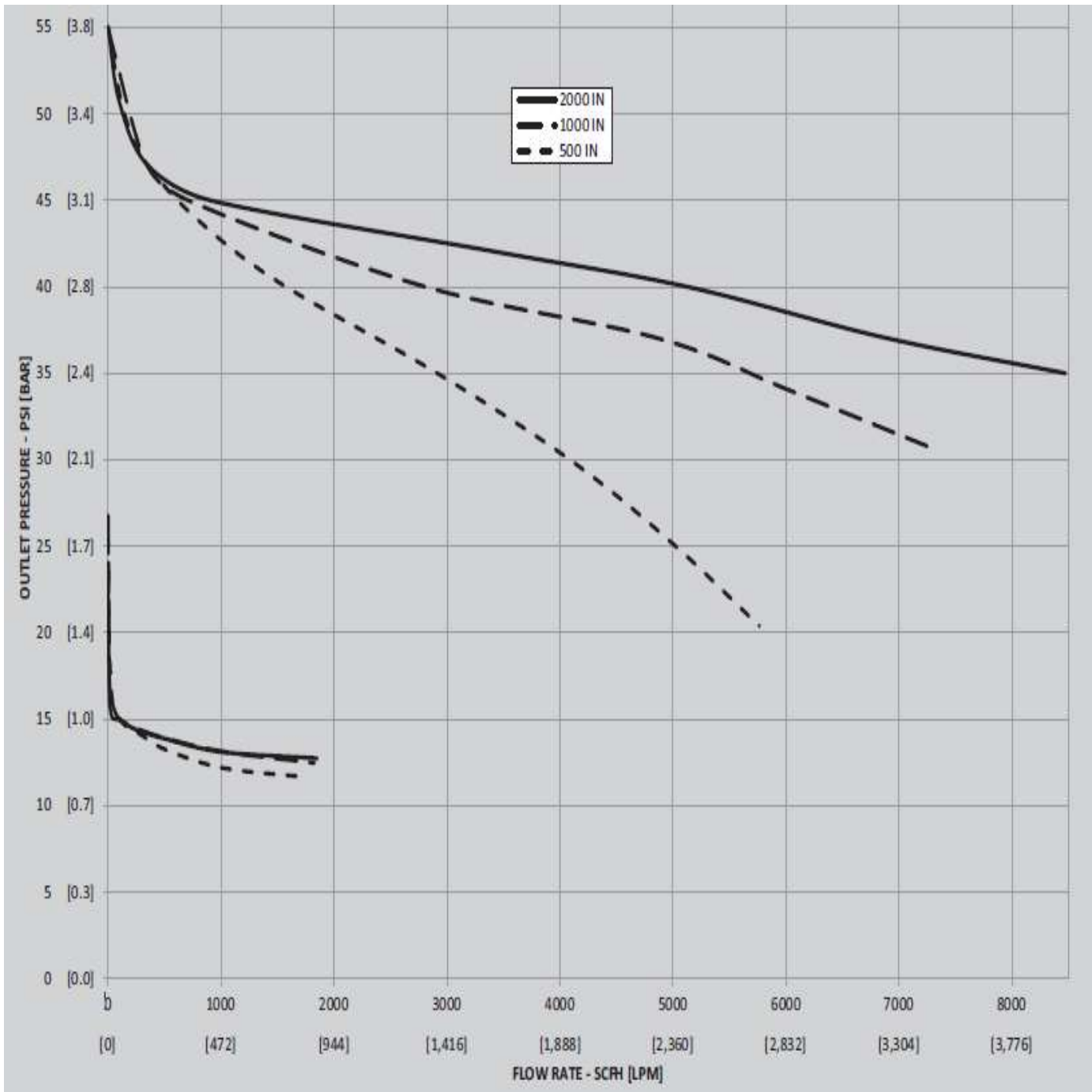
# Installation Dimensions



# 485 Regulator Flow Curves



## 485 Regulator Flow Curves - continued



*Can't find what you need? We will be happy to assist you to find the right regulator to fit your needs.*