

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

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

### **Typical Applications**

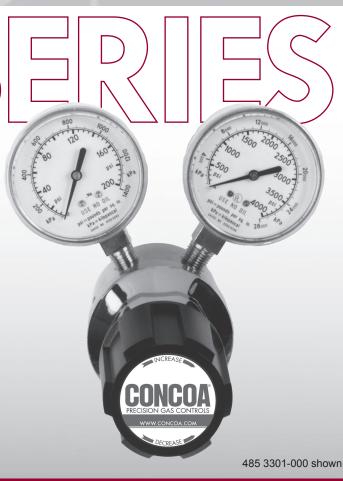
Bulk gas distribution systems

- Gas and liquid chromatography
- High purity carrier gases
- Zero, span, and calibration gases

High purity chamber pressurization

Liquefied hydrocarbon gas control

Control of cryogenic gases



### Features

PTFE Diaphragm Seal No possibility of gas contamination

ISOFLOW Technology Internal equalization provides constant delivery pressure at high flows

Brass Barstock Body Smooth surface finish

Rear Panel-Mountable Versatile system configuration

Pressure Ranges 0-15 To 0-250 PSIG (0-1 to 0-17 BAR) Broad range of applications

Pipe Away Relief Valve Safely vents exhaust gases

### Materials

Body Brass barstock

Bonnet Chrome-plated die-cast zinc

Seat PCTFE

Filter 40 micron 316L stainless steel mesh

Diaphragm 316L stainless steel

Internal Seals PTFE

### Specifications

Maximum Inlet Pressure 3000 PSIG (210 BAR)

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

Gauges 2" (53mm) diameter brass

Ports 1/2" FPT (inlet/outlet) 1/4" FPT (gauge/relief valve)

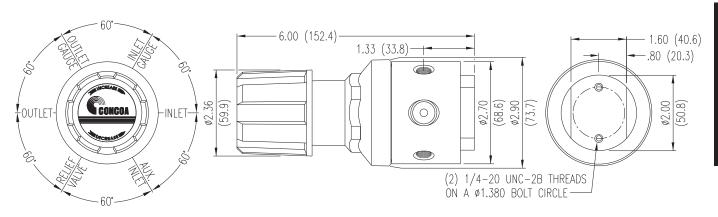
Helium Leak Integrity 1 x 10<sup>-8</sup> scc/sec

Cv

1.0 See page 204 for flow curves

Weight (485 3301-000) 5.85 lbs. (2.65 kg)

## **Installation Dimensions**

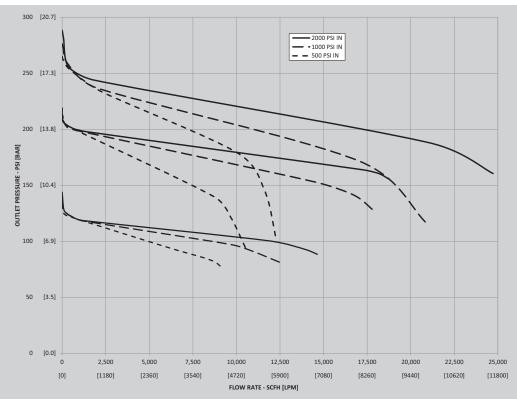


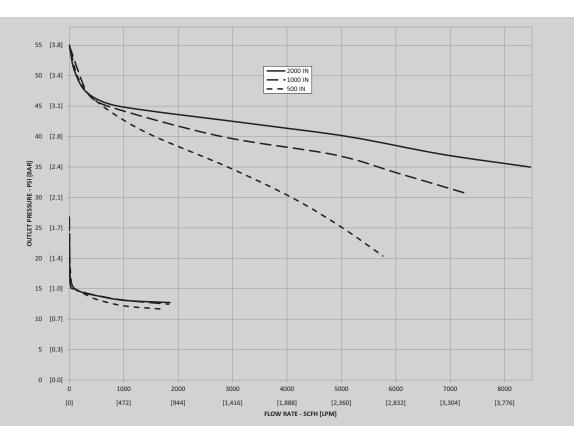
Ordering Information											
485		A	В	С	D	-CON	Options				
Series 485	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly/Gauges	Inlet Connections	Installed Options				
	<b>1:</b> 0-15 PSIG (0-1 BAR)	30"-0-30 PSIG/ -1-0-2 BAR	0: None	0: 1/2" FPT port	0: Bare body	000: 1/2" FPT	B: Protocol alarm station (110/220 VAC)				
	2: 0-40 PSIG (0-3 BAR)	30"-0-60 PSIG/ -1-0-4 BAR	3: 0-4000 PSIG/ 0-275 BAR	1: 1/2" tube fitting	1: Standard assembly (PSIG/kPa gauges)	TF8: 1/2" tube	C: Protocol switchover station				
	3: 0-120 PSIG (0-8 BAR)	30"-0-200 PSIG/ -1-0-14 BAR	5: 0-1000 PSIG/ 0-70 BAR	5: Needle valve 1/4" MPT	2: Standard assembly (BAR/PSIG gauges)	M12: 12mm tube	H: Protocol switchover station with alarm (110/220 VAC)				
	<b>4:</b> 0-200 PSIG (0-14 BAR)	0-400 PSIG/ 0-27 BAR	6: 0-400 PSIG/ 0-28 BAR	P: 12mm tube fitting	6: Mirror image (PSIG/kPa gauges)	CGA DIN 477 BS 341	M: Protocol station				
	5: 0-250 PSIG (0-17 BAR)	0-400 PSIG/ 0-27 BAR	<b>7:</b> 0-200 PSIG/ 0-17 BAR		7: Mirror image (BAR/PSIG gauges)	and others available					
			9: 0-600 PSIG/ 0-42 BAR								



## **Regulator Flow Curves**

### Flow Curves for 483, 484, 485, 486 Series







The 486 Series regulator applications are wide and varied including high flow purging, semiconductor CDA and bulk gas supply, modified atmosphere packaging, pharmaceutical processing, manifold and line regulation.

- Single Stage
- Ultra-High Flow
- 316L Stainless Steel 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 gas control
- Control of cryogenic gases

486 3301-000 shown

### Features

### PTFE Diaphragm Seal

No possibility of gas contamination

- ISOFLOW Technology Internal equalization provides constant delivery pressure at high flows
- **316L Stainless Steel Barstock Body** Smooth surface finish
- Rear Panel-Mountable Versatile system configuration
- Pressure Ranges 0-15 To 0-250 PSIG (0-1 to 0-17 BAR) Broad range of applications

Pipe Away Relief Valve Safely vents exhaust gases

### Materials

### Body

316L stainless steel barstock Bonnet

Chrome-plated die-cast zinc

Seat PCTFE

Filter 40 micron 316L stainless steel mesh

Diaphragm 316L stainless steel

Internal Seals PTFE

### Specifications

Maximum Inlet Pressure 3000 PSIG (210 BAR)

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

Gauges 2" (53mm) diameter stainless steel

Ports 1/2" FPT (inlet/outlet) 1/4" FPT (gauges/relief valve)

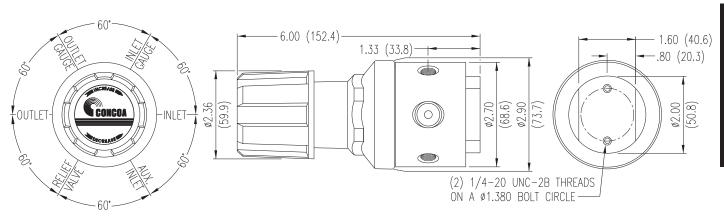
Helium Leak Integrity 1 x 10<sup>-8</sup> scc/sec

Cv

1.0 See page 204 for flow curves

Weight (486 3301-000) 5.06 lbs. (2.30 kg)

## **Installation Dimensions**



486		Α	В	С	D	-CON	Options
Series 486 -	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly/Gauges	Inlet Connections	Installed Options
	<b>1:</b> 0-15 PSIG (0-1 BAR)	30"-0-30 PSIG/ -1-0-2 BAR	0: None	0: 1/2" FPT Port	0: Bare body	000: 1/2" FPT	<b>B:</b> Protocol alarm station (110/220 VAC)
	2: 0-40 PSIG (0-3 BAR)	30"-0-60 PSIG/ -1-0-4 BAR)	3: 0-4000 PSIG/ 0-275 BAR	1: 1/2" tube fitting	1: Standard assembly (PSIG/kPa gauges)	TF8: 1/2" tube	C: Protocol switchover station
	3: 0-120 PSIG (0-8 BAR)	30"-0-200 PSIG/ -1-0-14 BAR	5: 0-1000 PSIG/ 0-70 BAR	5: Needle valve 1/4" MPT	2: Standard assembly (BAR/PSIG gauges)	M12: 12mm tube	H: Protocol switchover station with alarm (110/220 VAC)
	<b>4:</b> 0-200 PSIG (0-14 BAR)	0-400 PSIG/ 0-27 BAR	6: 0-400 PSIG/ 0-28 BAR	P: 12mm tube fitting	6: Mirror image (PSIG/kPa gauges)	CGA DIN 477	M: Protocol station
	5: 0-250 PSIG (0-17 BAR)	0-400 PSIG/ 0-27 BAR	7: 0-200 PSIG/ 0-14 BAR		7: Mirror image (BAR/PSIG gauges)	BS 341 and others available	
			9: 0-600 PSIG/ 0-42 BAR				



## **Regulator Flow Curves**

### Flow Curves for 483, 484, 485, 486 Series

