

# 486 SERIES REGULATORS



The 486 Series single stage regulator provides primary source pressure control in high flow gas applications. Internal pressure equalization mitigates the delivery pressure variation from changing flows that are typical in pipelines. For system flexibility, the CONCOA 486 Series regulator is rear panel mountable or may be connected directly to the gas source via a flexible hose.

## 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 33P1-01-580 shown

## Features

**ISOFLOW Technology** provides constant delivery pressure at high flows

**Low Wetted Surface Area** minimizes purge requirements

**Pipe Away Relief Valve** vents exhaust gas safely

**Rear Panel-Mount** allows easy installation

**Pressure Ranges from 0-15 to 0-250 PSIG (0-1 to 0-17 BAR)** serve a range of applications

## Materials and Specifications

**Maximum Inlet Pressure (bare body):** 3000 PSIG (210 BAR)

**Body:** 316L stainless steel barstock

**Bonnet:** Chrome-plated, die-cast zinc

**Gauges:** 2 in (50 mm) diameter brass

**Seat:** PCTFE

**Filter:** 40-micron 316L stainless steel mesh

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

**Diaphragm:** 316L stainless steel

**Cv:** 1.0 See *flow curves attached*

**Helium Leak Integrity:**  $1 \times 10^{-8}$  scc/sec

**Internal Seals:** PTFE

**Ports (bare body):** 1/2 in FNPT (inlet/outlet); 1/4 in FNPT (gauges, relief valve, and auxiliary inlet)

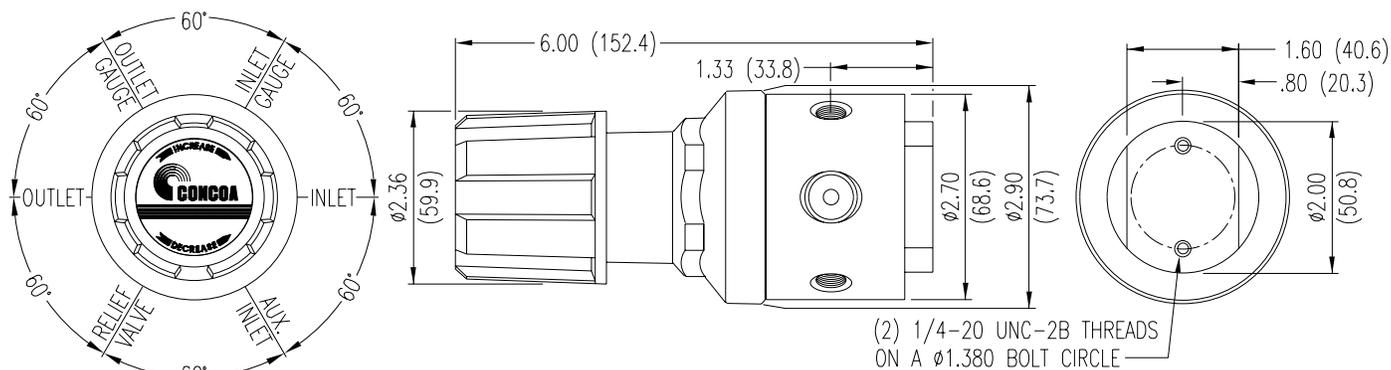
**Weight (486 33P1-580):** 5.06 lbs. (2.30 kg)

**Conformances:** Cleanliness meets or exceeds CGA G-4.1; PED 2014/68/EU; ANSI/ASME B40.1; CRN OH5216

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## Installation Dimensions



## Ordering Information

486	A	B	C	D	-CON	Options	
Series	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly/Gauges	Inlet Connections	Installed Options
486	<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" FNPT Port	<b>0:</b> Bare body	<b>000:</b> 1/2" FNPT	<b>B:</b> Protocol alarm station with pressure switch gauges
	<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> Standard assembly (PSIG/kPa gauges)	<b>TF8:</b> 1/2" tube	<b>C:</b> Protocol switchover station
	<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" MNPT	<b>2:</b> Standard assembly (BAR/PSIG gauges)	<b>M12:</b> 12 mm tube	<b>E:</b> Protocol alarm station with intrinsically safe transducer for hazardous environments
	<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> 12 mm tube fitting	<b>6:</b> Mirror image (PSIG/kPa gauges)	<b>CGA DIN 477 BS 341 and others available.</b>	<b>H:</b> Protocol switchover alarm station with pressure switch gauges
	<b>5:</b> 0-250 PSIG (0-17 BAR)	0-400 PSIG/ 0-27 BAR	<b>7:</b> 0-200 PSIG/ 0-14 BAR		<b>7:</b> Mirror image (BAR/PSIG gauges)		<b>J:</b> Protocol alarm station with standard transducer for non-hazardous environments
			<b>9:</b> 0-600 PSIG/ 0-42 BAR				<b>K:</b> Protocol switchover alarm station with standard transducer for non-hazardous environments
							<b>M:</b> Protocol station
							<b>Q:</b> Protocol purge station*

**X:** Protocol switchover alarm station with intrinsically safe transducer for hazardous environments

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

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## Flow Curves for 486 Series

