

486 Series Regulator

Single Stage

Ultra-High Flow

*316L Stainless Steel
Barstock Body*

*Six-Port
Configuration*

*316L Stainless Steel
Diaphragm*

The 486 Series regulator applications are wide and varied including high flow purging, semiconductor manufacturing, manifold and line regulation.

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
- Corrosive gas service

Advanced Features

- 316L stainless steel 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



486-3301 shown

400 Advantage

Materials

Specifications

- PTFE diaphragm seal
No possibility of gas contamination
- ISOFLOW™ technology
Internal equalization provides constant delivery pressure at high flows
- 316L stainless steel diaphragm
No inboard diffusion
- Low wetted surface area
Minimal purge requirements
- Field-adjustable pressure limit
Safeguard downstream equipment
- Pipe away relief valve
Safely vent exhaust gases

Body
316L stainless steel barstock

Bonnet
Chrome-plated die cast zinc

Seat
PCTFE

Filter
40 micron 316L stainless steel

Diaphragm
316L stainless steel

Internal Seals
PTFE

Maximum Inlet Pressure
3000 PSIG (210 BAR)

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

Gauges
2" diameter stainless steel

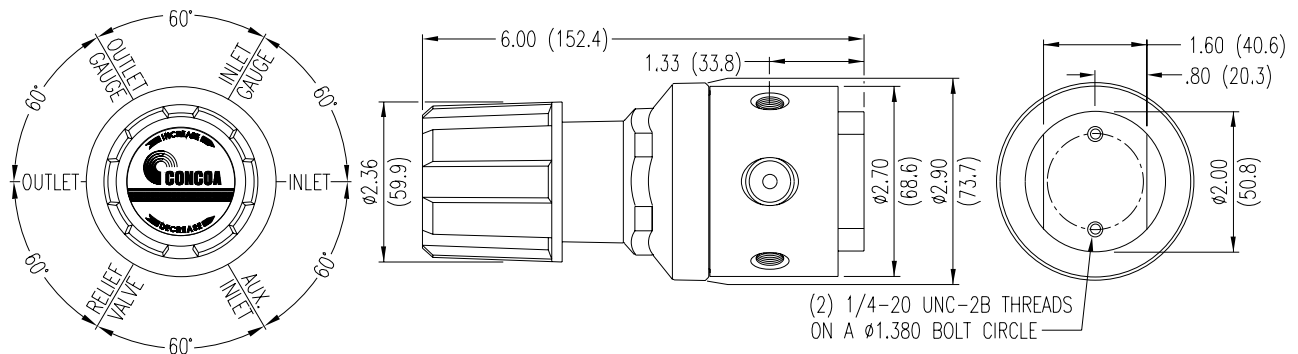
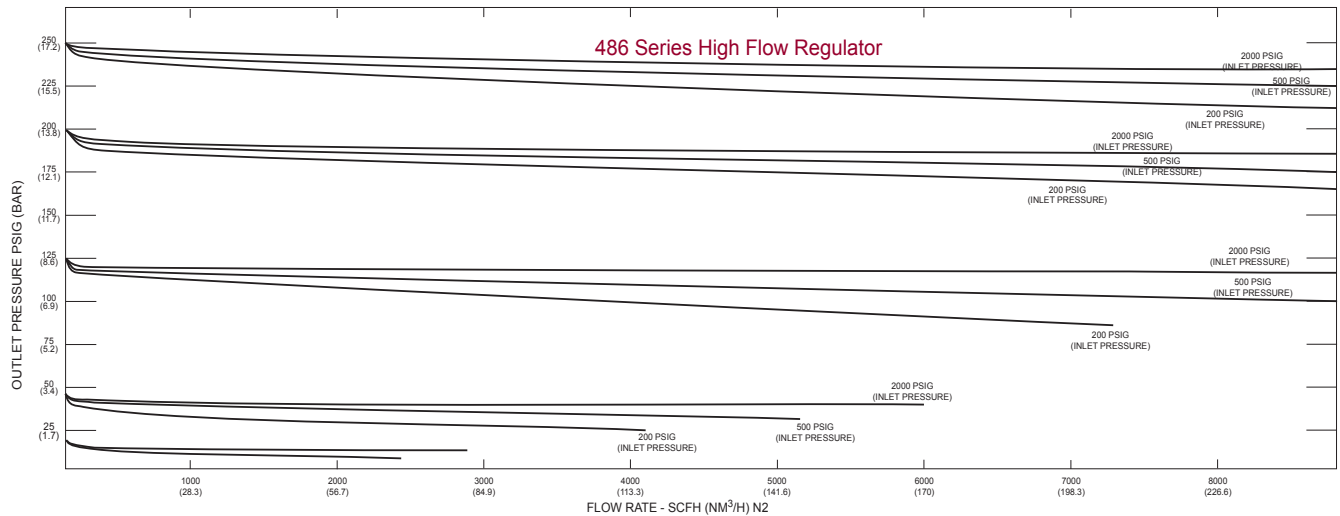
Ports
½" FPT (inlet/outlet)
¼" FPT (gauges/relief valve)

Helium Leak Integrity
1 x 10⁻⁸ scc/sec

Cv
1.0

Weight (486-3311-580)
5.06 lbs. (2.30 kg)

Flow Performance Curves



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

486	A		B	C	D	-Inlet	Options
Series 486	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	A: Protocol Alarm Station (110V)
	2: 0-40	0-60 PSIG	3: 0-4000 PSIG	1: 1/2" Tube Fitting	1: Standard Assembly (PSIG/kPa Gauges)	TF8: 1/2" Tube	B: Protocol Alarm Station (220V)
	3: 0-120	0-200 PSIG	5: 0-1000 PSIG	P: 12mm Tube Fitting	2: Standard Assembly (BAR/PSIG Gauges)	M12: 12mm Tube	C: Protocol Alarm Station (220V)
	4: 0-200	0-400 PSIG	6: 0-400 PSIG			CGA	D: Protocol Alarm Station (220V)
	5: 0-250	0-400 PSIG	7: 0-200 PSIG			DIN 477	E: Protocol Alarm Station (220V)
			9: 0-600 PSIG			BS 341 and others available	F: Protocol Alarm Station (220V)
							G: Protocol Alarm Station (220V)
							H: Protocol Alarm Station (220V)
							I: Protocol Alarm Station (220V)
							J: Protocol Alarm Station (220V)
							K: Protocol Alarm Station (220V)
							L: Protocol Alarm Station (220V)
							M: Protocol Alarm Station (220V)

400 Series High Flow Regulators