

485 Series Regulator

Single Stage
Ultra-High Flow
Brass Barstock Body
Six-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



485-3301 shown

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

The 485 Series regulator applications are wide and varied including high flow purging, semiconductor manufacturing, manifold and line regulation.

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
Brass 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 brass

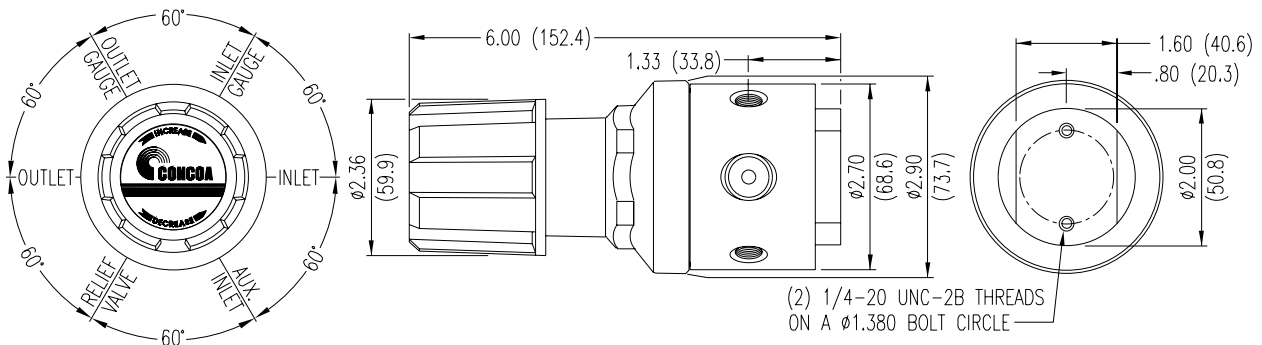
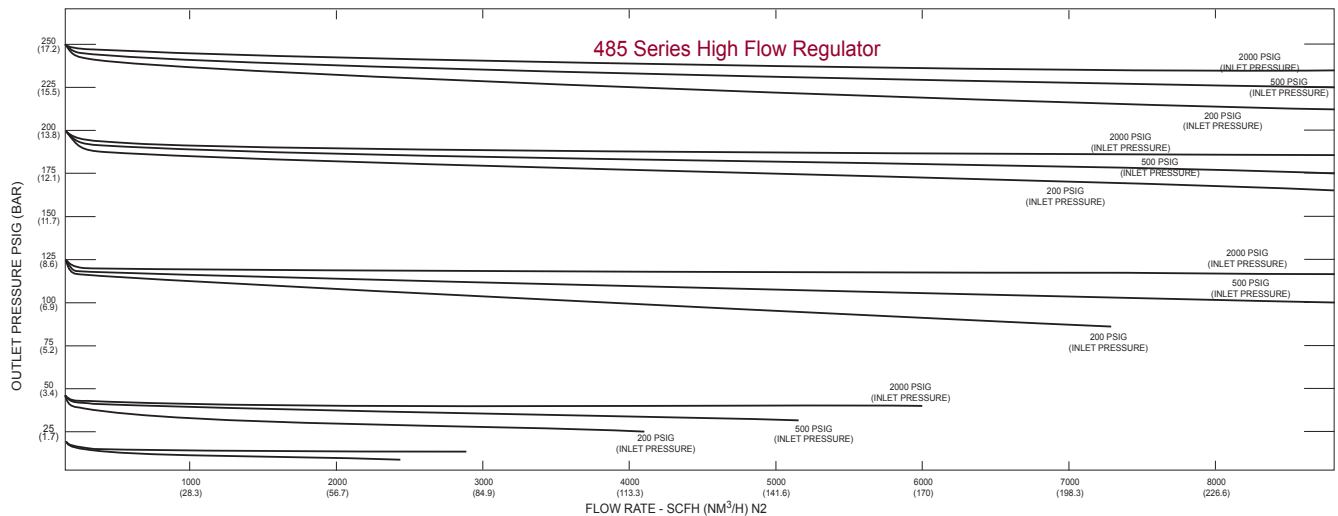
Ports
½" FPT (inlet/outlet)
¼" FPT (gauge/relief valve)

Helium Leak Integrity
1 x 10⁻⁸ scc/sec

Cv
1.0

Weight (485-3311-580)
5.85 lbs. (2.65 kg)

Flow Performance Curves



400 Series High Flow Regulators

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

485	A		B	C	D	-Inlet	Options
Series 485	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly/ Gauges	Inlet Connections	Installed Options
	1: 0-15 2: 0-40 3: 0-120 4: 0-200 5: 0-250	0-30 PSIG 0-60 PSIG 0-200 PSIG 0-400 PSIG 0-400 PSIG	0: None 3: 0-4000 PSIG 5: 0-1000 PSIG 6: 0-300 PSIG 7: 0-200 PSIG 9: 0-600 PSIG	0: ½" FPT Port 1: ½" Tube Fitting P: 12mm Tube Fitting	0: Bare Body 1: Standard Assembly (PSIG/kPa Gauges) 2: Standard Assembly (BAR/PSIG Gauges)	000: ½" FPT TF8: ½" Tube M12: 12mm Tube CGA DIN 477 BS 341 and others available	A: Protocol Alarm Station (110V) B: Protocol Alarm Station (220V) C: Protocol Switchover Station G: Protocol Switchover Station with Alarm (110V) H: Protocol Switchover Station with Alarm (210V) M: Protocol Station