

302 Series Regulator

Single Stage

*Chrome-Plated
Brass Barstock Body*

*Four-Port
Configuration*

*316L Stainless Steel
Diaphragm*



302-2331 shown

The 302 Series regulators are intended for primary pressure control of non-corrosive, high purity or liquefied gases or for applications where minor fluctuations in outlet pressure due to diminishing inlet supply can be tolerated.

Typical Applications

- 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

Advanced Features

- Chrome-plated brass barstock body
Smooth surface finish
- Rear panel-mountable
Easy installation
- Pressure ranges 0-15 to 0-500 psig
Broad range of applications

300 Advantage

Materials

Specifications

- *Capsule® seat*
Increased serviceability and life
- *316L stainless steel diaphragm*
No inboard diffusion
- *Low wetted surface area*
Minimal purge requirements
- *Field-adjustable pressure limit*
Safeguard downstream equipment
- *Convolute diaphragm*
Smooth pressure changes
- *Compact design*
Easily transported and integrated into systems

Body
Chrome-plated brass barstock

Bonnet
Chrome-plated die cast zinc

Seat
PTFE
PCTFE with 4500 psig inlet option

Filter
10 micron sintered bronze

Diaphragm
316L stainless steel

Internal Seals
PTFE

Maximum Inlet Pressure
3000 psig (210 BAR)
4500 psig (310 BAR) optional

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

Gauges
2" diameter chrome-plated

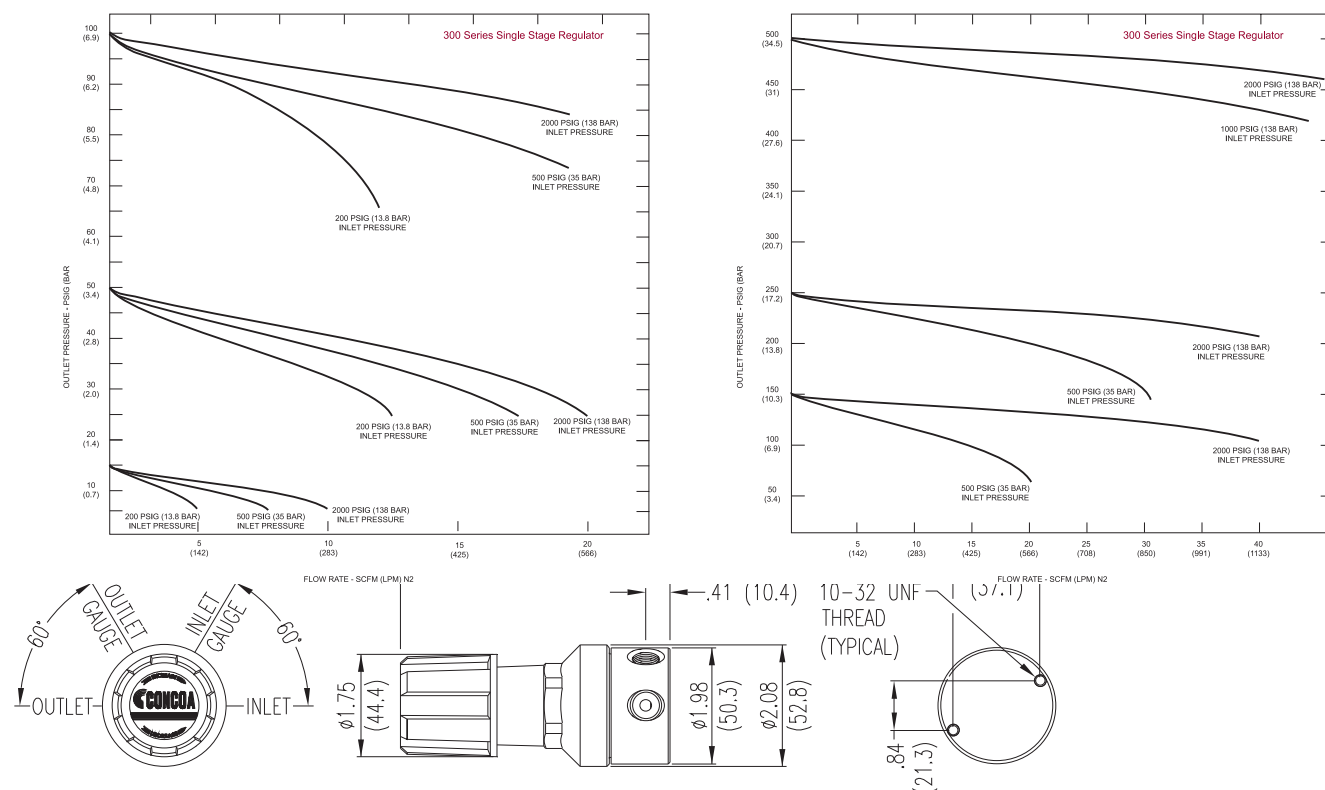
Ports
¼" FPT

Helium Leak Integrity
1 x 10⁻⁸ scc/sec

Cv
0.1

Weight (302-2331-580)
3.1 lbs. (1.40 kg)

Flow Performance Curves



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

302	A		B	C	D	-Inlet	Options
Series 302	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly/ Gauges	Inlet Connections	Installed Options
	1: 0-15*	30"-0-30 psig	0: None	0: 1/4" FPT Port	0: Bare Body	000: 1/4" FPT	A: Protocol Alarm Station (110V)
	2: 0-50	30"-0-100 psig	3: 0-4000 psig	1: 1/4" MPT	1: Standard Assembly (psig/kPa Gauges)	TF2: 1/8" Tube	B: Protocol Alarm Station (220V)
	3: 0-100	30"-0-200 psig	5: 0-1000 psig	2: 1/4" Tube Fitting	2: Standard Assembly (BAR/psig Gauges)	TF4: 1/4" Tube	C: Protocol Switchover Station
	4: 0-250	0-400 psig	6: 0-300 psig	3: Diaphragm Valve 1/4" Tube Fitting		TF6: 3/8" Tube	G: Protocol Switchover Station with Alarm (110V)
	5: 0-500	0-1000 psig	7: 0-400 psig	4: Diaphragm Valve 1/4" MPT		M06: 6mm Tube	H: Protocol Switchover Station with Alarm (220V)
	7: 0-150	30"-0-200 psig	8: 0-6000 psig*	5: Needle Valve 1/4" MPT		CGA DIN 477 BS 341 and others available	M: Protocol Station
	*Not available with 4500 psig maximum inlet pressure		*Maximum inlet pressure 4500 psig (310 BAR) with PCTFE Seat Capsule				T: Tee Purge*
				6: 1/8" Tube Fitting			
				7: 3/8" Tube Fitting			
				8: Diaphragm Valve 1/8" Tube Fitting			
				9: Diaphragm Valve 1/4" FPT			
				A: 3/8" BSP Right Hand Fitting			
				M: 6mm Tube Fitting			
				S: Diaphragm Valve 6mm Tube Fitting			
							*Not available with 4500 psig max inlet pressure