



300 Series Regulators

302 Series Regulator

Single Stage

Chrome-Plated Brass Barstock Body

Four-Port Configuration

316L Stainless Steel Diaphragm

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.



302-2331 shown

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

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

300 Series Advantage

- 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
- Convuluted diaphragm
Smooth pressure changes
- Compact design
Easily transported and integrated into systems

Materials

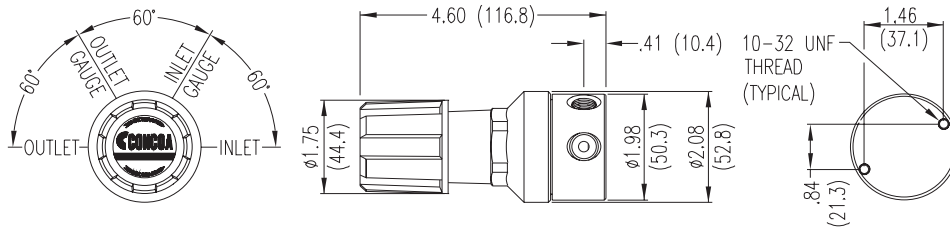
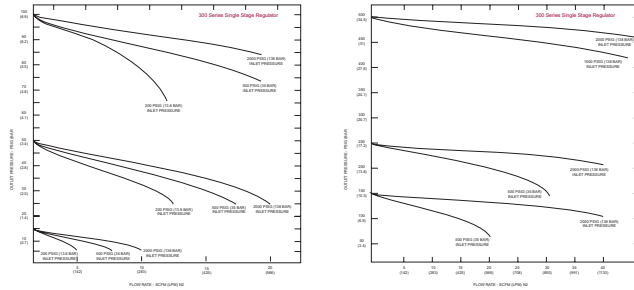
- Body
Chrome-plated brass barstock
- Bonnet
Chrome-plated die cast zinc
- Seat
PTFE
PCTFE with 4500 PSIG inlet option
- Filter
10 micron sintered bronze
- Diaphragm
316L stainless steel
- Internal Seals
PTFE

Specifications

- 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
1/4" FPT
- Helium Leak Integrity
1 x 10⁻⁸ scc/sec
- Cv
0.1
- Weight (302-2331-580)
3.1 lbs. (1.40 kg)

300 Series Regulators

Technical Information



Ordering Information

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 (210V)
	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®	6: 1/8" Tube Fitting	7: 3/8" Tube Fitting			Q: Protocol Purge Station*
			8: Diaphragm Valve 1/8" Tube Fitting	9: Diaphragm Valve 1/4" FPT			T: Tee Purge*
			A: 3/8" BSP Right Hand Fitting				*Not available with 4500 PSIG max inlet pressure
			B: Diaphragm Valve 3/8" Tube Fitting				
			C: 3/8" BSP Left Hand Fitting				
			D: 6mm Brass Hose Barb (not available if A=4 or 5)				
			G: 1/8" Stainless Steel Tube Fitting				
			H: 1/4" Stainless Steel Tube Fitting				
			M: 6mm Tube Fitting				
			S: Diaphragm Valve 6mm Tube Fitting				