

304 Series Regulator

Single Stage
Chrome-Plated
Brass Barstock Body
Three-Port
Configuration
316L Stainless Steel
Diaphragm

The 304 Series regulators are intended for secondary pressure control of non-corrosive, high purity or liquefied gases or as point of use pressure control in high purity gas distribution systems.

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

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
- 3000 psig inlet pressure rating
Safe use with high pressure cylinders



304-3021 shown

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
- *Convolut ed diaphragm*
Smooth pressure changes
- *Compact design*
Easily transported and integrated

Body
Chrome-plated brass barstock

Bonnet
Chrome-plated die cast zinc

Seat
PTFE

Filter
10 micron sintered bronze

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 chrome-plated

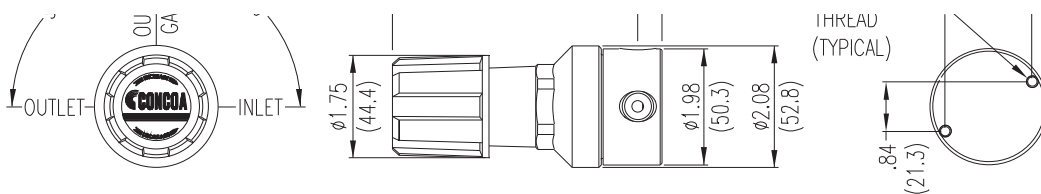
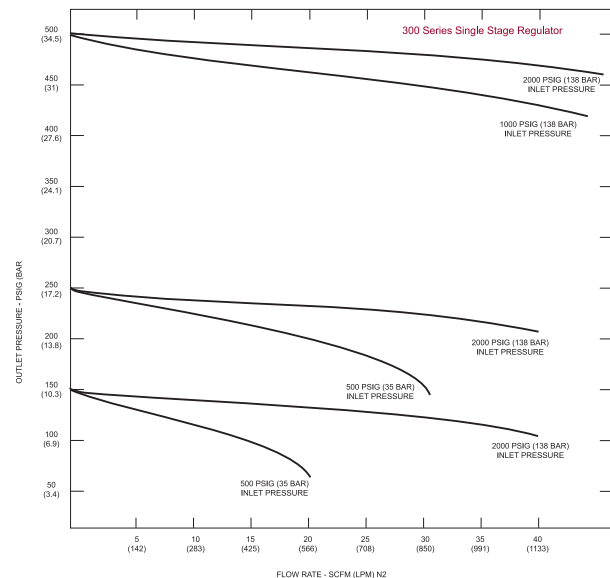
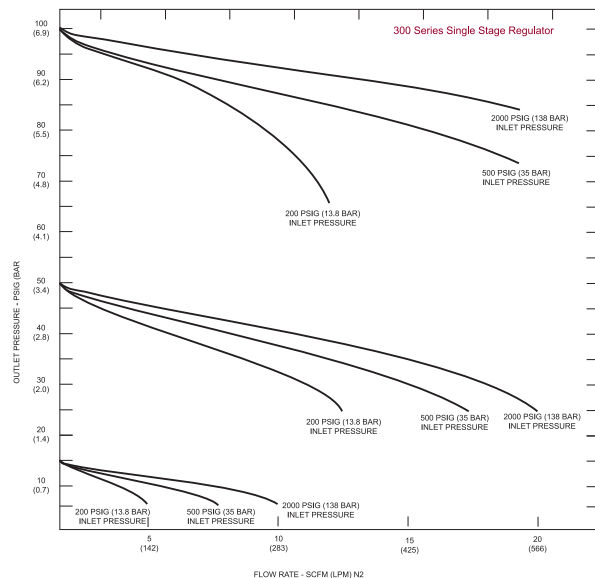
Ports
¼" FPT

Helium Leak Integrity
1 x 10⁻⁸ scc/sec

Cv
0.1 (Max outlet 50 psig or below)
0.2 (Max outlet above 50 psig)

Weight (304-2021-TF4)
1.7 lbs. (0.78 kg)

Flow Performance Curves



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

304	A		B	C	D	-Inlet	Options
Series 304	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	M: Protocol Station
	2: 0-50	30"-0-100 psig		1: 1/4" MPT	1: Standard Assembly (psig/kPa Gauges)	TF2: 1/8" Tube	
	3: 0-100	30"-0-200 psig		2: 1/4" Tube Fitting	2: Standard Assembly (BAR/psig Gauges)	TF4: 1/4" Tube	
	4: 0-250	0-400 psig		3: Diaphragm Valve 1/4" Tube Fitting		TF6: 3/8" Tube	
	5: 0-500	0-1000 psig		4: Diaphragm Valve 1/4" MPT		M06: 6mm Tube	
	7: 0-150	30"-0-200 psig		5: Needle Valve 1/4" MPT			
				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			