



# 300 Series Regulators

## 324 Series Regulator

Single Stage

316L Stainless Steel Barstock Body

Three-Port Configuration

316L Stainless Steel Diaphragm

The 324 Series regulators are intended for secondary pressure control of ultra high purity and corrosive gases or as point of use pressure control in ultrahigh purity gas distribution systems.

### Advanced Features

- 316L stainless steel barstock body  
Increased corrosion resistance
- 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

### Typical Applications

- Bulk gas distribution systems
- Gas and liquid chromatography
- Ultra high purity carrier gases
- Zero, span, and calibration gases
- High purity chamber pressurization
- Liquefied hydrocarbon gas control
- Control of cryogenic gases



324-3021 shown

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

### Materials

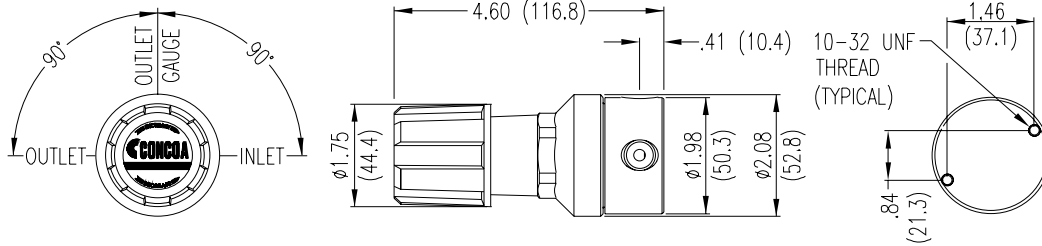
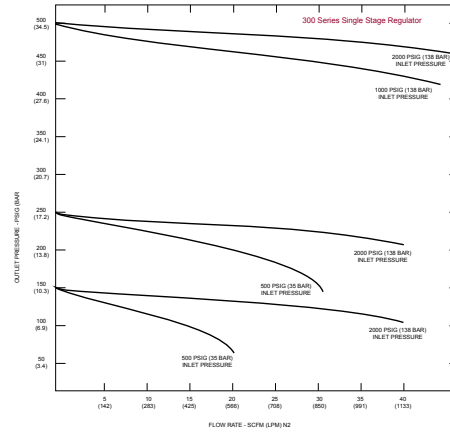
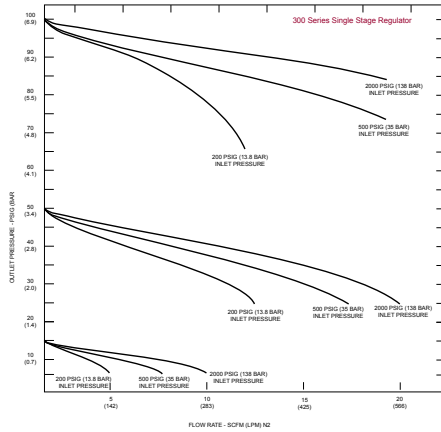
- Body  
316L stainless steel barstock
- Bonnet  
Chrome-plated die cast zinc
- Seat  
PTFE
- Filter  
10 micron patented stainless steel multi-layer mesh
- Diaphragm  
316L stainless steel
- Internal Seals  
PTFE

### Specifications

- Maximum Inlet Pressure  
3000 PSIG (210 BAR)
- Temperature Range  
-40°F to 140°F (-40°C to 60°C)
- Gauge  
2" diameter chrome-plated case  
Stainless Steel internals
- Ports  
1/4" FPT
- Helium Leak Integrity  
1 x 10<sup>-8</sup> scc/sec
- Cv  
0.1
- Weight (324-2031-TF4)  
2.4 lbs. (1.09 kg)

# 300 Series Regulators

## Technical Information



## Ordering Information

324	A	B	C	D	-Inlet	Options	
Series 324	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	Q: Protocol Purge Station
	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			
				M: 6mm Tube Fitting			
				S: Diaphragm Valve 6mm Tube Fitting			