



300 Series Regulators

324 SERIES

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 ultra-high purity gas distribution systems.

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

Typical Applications

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



324 3021-000 shown

Features

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

Convolutd Diaphragm
Smooth pressure changes

Compact Design
Easily transported and integrated into systems

316L Stainless Steel Barstock Body
Increased corrosion resistance

Rear Panel-Mountable
Easy installation

Pressure Ranges 0-15 to 0-500 PSIG (0-1 to 0-34 BAR)
Broad range of applications

3000 PSIG (210 BAR) Inlet Pressure Rating
Safe use with high pressure cylinders

Materials

Body
316L stainless steel barstock

Bonnet
Chrome-plated die-cast zinc

Seat
PTFE

Filter
Patented 10 micron 316 mesh

Diaphragm
316L stainless steel

Internal Seals
PTFE

Specifications

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

Gauge
2" (53mm) diameter
Chrome-plated case
Stainless steel internals

Ports
1/4" FPT

Helium Leak Integrity
1 x 10⁻⁸ scc/sec

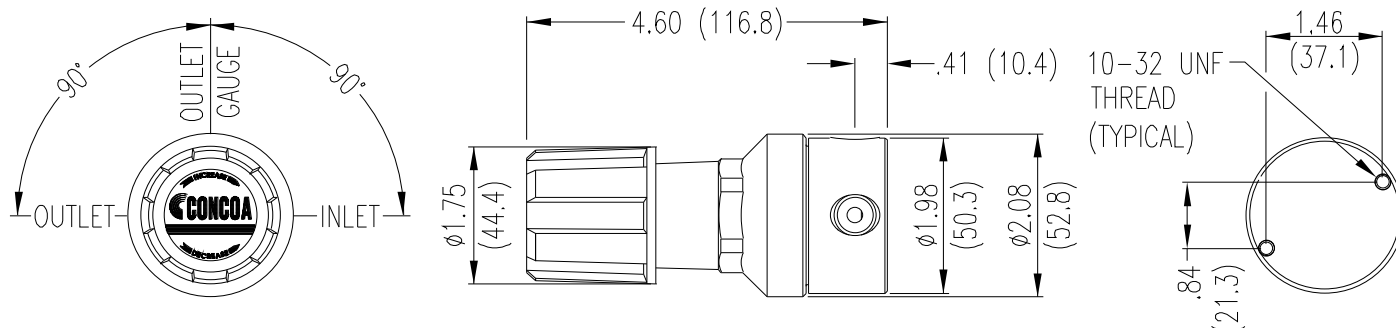
Cv
0.1
See page 202 for flow curves

Weight (324 2021-000)
2.4 lbs. (1.09 kg)

300 Series Regulators



Installation Dimensions



REGULATORS

Ordering Information

324	A	B	C	D	-CON	Options	
Series 324	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly Gauges	Inlet Connections	Installed Options
	1: 0-15 PSIG (0-1 BAR)	30"-0-30 PSIG/-1-0-2 BAR	0: None	0: 1/4" FPT port	0: Bare body	000: 1/4" FPT	M: Protocol station
	2: 0-50 PSIG (0-3.5 BAR)	30"-0-100 PSIG/-1-0-7 BAR		1: 1/4" MPT	1: Standard assembly (PSIG/kPa gauges)	TF2: 1/8" tube	Q: Protocol purge station
	3: 0-100 PSIG (0-7 BAR)	30"-0-200 PSIG/-1-0-14 BAR		2: 1/4" tube fitting	2: Standard assembly (BAR/PSIG gauges)	TF4: 1/4" tube	
	4: 0-250 PSIG (0-17 BAR)	0-400 PSIG/0-27 BAR		3: Diaphragm valve 1/4" tube fitting		TF6: 3/8" tube	
	5: 0-500 PSIG (0-34 BAR)	0-1000 PSIG/0-70 BAR		4: Diaphragm valve 1/4" MPT		M06: 6mm tube	
	7: 0-150 PSIG (0-10 BAR)	30"-0-200 PSIG/-1-0-14 BAR		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			

Related Options

Order No.	Description
835 0204	Rear panel mount kit



Regulator Flow Curves

Flow Curves for 302, 304, 305, 307, 322, 324, 327, 401, 402, 408, 420, 422, 426, 427, 428, 429 Series

