

324 Series Regulator

CRN OH 5216.5C

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.

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

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



324-3021 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
- *Convuluted diaphragm*
Smooth pressure changes
- *Compact design*
Easily transported and integrated

Body
316L stainless steel barstock

Bonnet
Chrome-plated die cast zinc

Seat
PTFE

Filter
10 micron stainless steel multi-layer mesh

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)

Gauge
2" diameter chrome-plated case
Stainless Steel internals

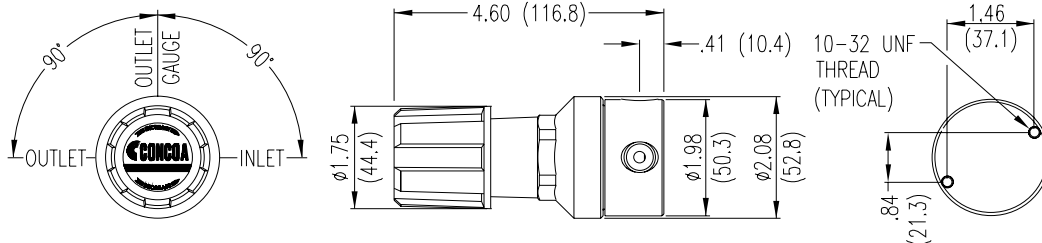
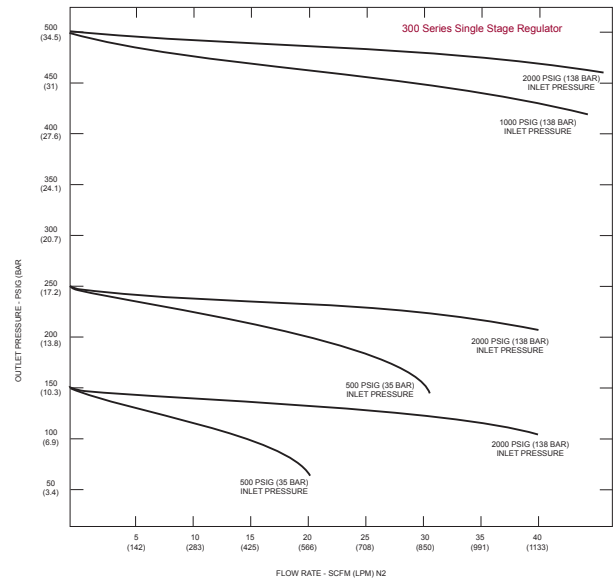
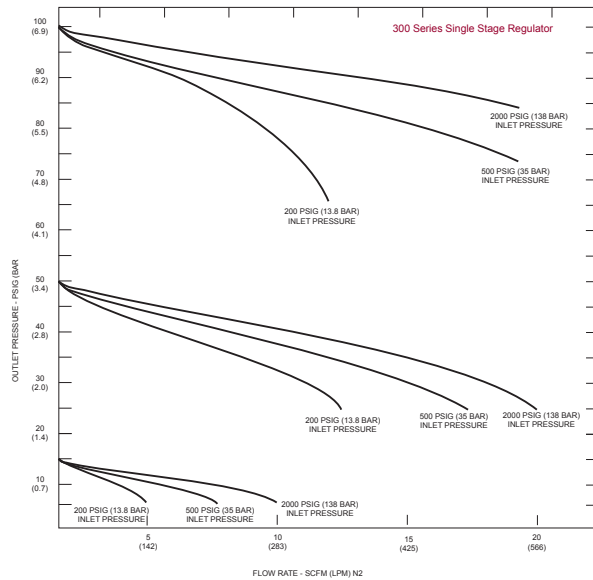
Ports
¼" FPT

Helium Leak Integrity
1 x 10⁻⁸ scc/sec

Cv
0.1

Weight (324-2031-TF4)
2.4 lbs. (1.09 kg)

Flow Performance Curves



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

324	A	B	C	D	-Inlet	Options	
Series 324	Outlet Pressure 1: 0-15 2: 0-50 3: 0-100 4: 0-250 5: 0-500 7: 0-150	Outlet Gauge 30"-0-30 PSIG 30"-0-100 PSIG 30"-0-200 PSIG 0-400 PSIG 0-1000 PSIG 30"-0-200 PSIG	Inlet Gauge 0: None	Outlet Assemblies 0: 1/4" FPT Port 1: 1/4" MPT 2: 1/4" Tube Fitting 3: Diaphragm Valve 1/4" Tube Fitting 4: Diaphragm Valve 1/4" MPT 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	Assembly/ Gauges 0: Bare Body 1: Standard Assembly (PSIG/kPa Gauges) 2: Standard Assembly (BAR/PSIG Gauges)	Inlet Connections 000: 1/4" FPT TF2: 1/8" Tube TF4: 1/4" Tube TF6: 3/8" Tube M06: 6mm Tube	Installed Options M: Protocol Station