

304 Series Regulator

CRN OH 5216.5C

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
- *Convuluted 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

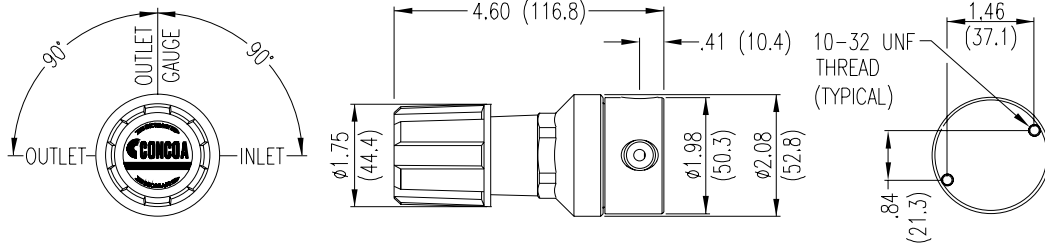
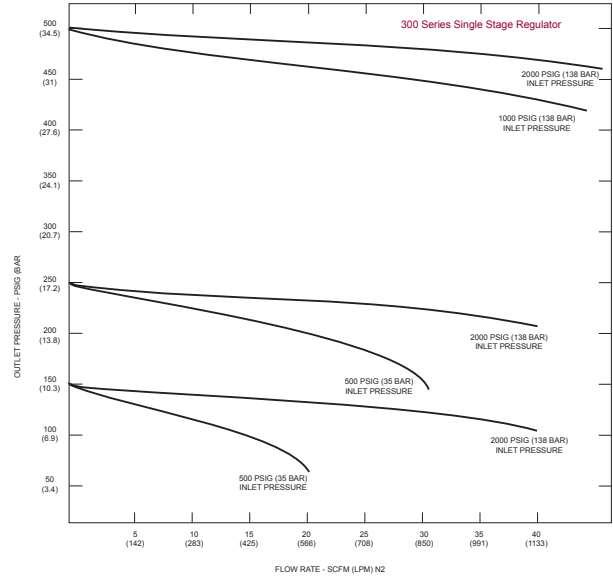
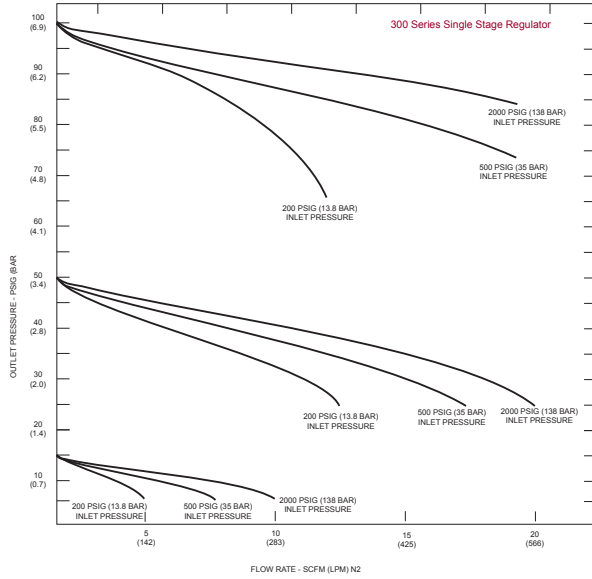
Ports
1/4" FPT

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



300 Series Regulators

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 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 A: 3/8" BSP Right Hand Fitting 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