

307 Series Regulator

CRN OH 5216.5C

Single Stage

Rear Inlet

*Chrome-Plated
Brass Barstock Body*

*Four-Port
Configuration*

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



307-2031 shown

The 307 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.

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

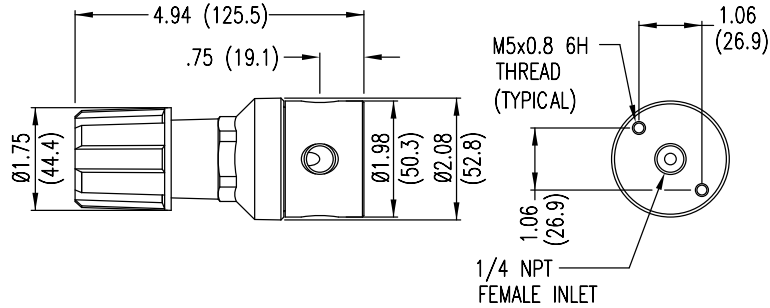
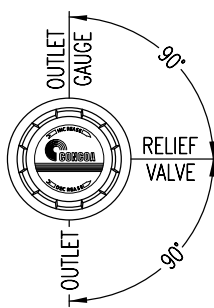
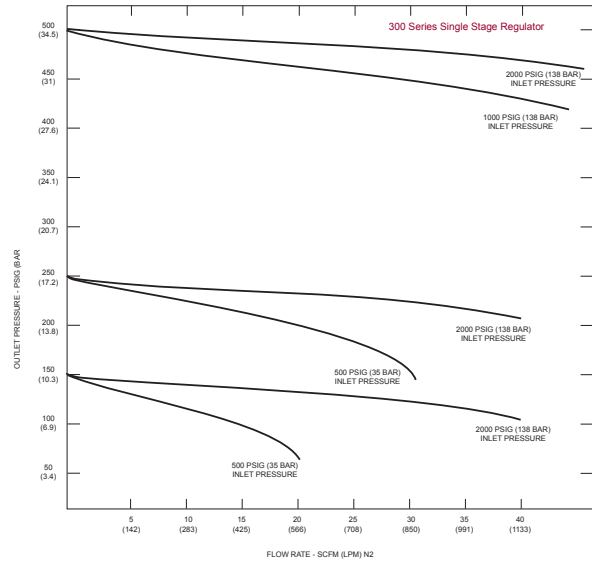
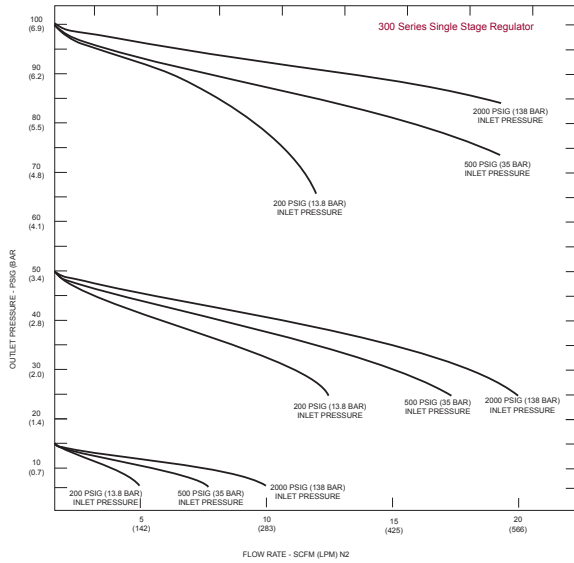
- Body*
Chrome-plated brass barstock
- Bonnet*
Chrome-plated die cast zinc
- Seat*
PTFE
- Filter*
10 micron sintered bronze
- Diaphragm*
316L stainless steel
- Internal Seals*
PTFE

- 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)
- Weight (307-3031-TF4)*
2.9 lbs. (1.29 kg)

Controls Corporation of America, Inc.

1501 Harpers Road • Virginia Beach, Virginia 23454 USA • 1.800.225.0473 • 757.422.3125 • www.concoa.com

Flow Performance Curves



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

307	A		B	C		D	-Inlet	Options
Series 307	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies		Assembly/ Gauges	Inlet Connections	Installed Options
	1: 0-15	0-30 PSIG	0: None	0: 1/4" FPT Port		0: Bare Body	M00: 1/4" FPT	None
	2: 0-30	0-60 PSIG		1: 1/4" MPT		1: Standard Assembly (PSIG/kPa Gauges)	TF2: 1/8" Tube	
	3: 0-50	0-100 PSIG		2: 1/4" Tube Fitting		2: Standard Assembly (BAR/PSIG Gauges)	TF4: 1/4" Tube	
	5: 0-100	0-200 PSIG		3: Diaphragm Valve 1/4" Tube Fitting			TF6: 3/8" Tube	
	6: 0-200	0-400 PSIG		4: Diaphragm Valve 1/4" MPT			M06: 6mm Tube	
	8: 2-15 LPM CO ₂	2-15 LPM Flowgauge		5: Needle Valve 1/4" MPT				
	9: Custom Calibration	Custom Flowgauge		6: 1/8" Tube Fitting				
				7: 3/8" Tube Fitting				
				8: DISS Outlet				
				9: Diaphragm Valve 1/4" FPT				
				A: 3/8" BSP Right Hand Fitting				
				B: Diaphragm Valve 1/8" Tube Fitting				
				M: 6mm Tube Fitting				
				S: Diaphragm Valve 6mm Tube Fitting				

300 Series Rear Inlet Regulators