

# 312 Series Regulator

CRN OH 5216.5C

*Dual Stage*  
*Chrome-Plated*  
*Brass Barstock Body*  
*Four-Port*  
*Configuration*  
*316L Stainless Steel*  
*Diaphragm*



312-2331 shown

The 312 Series regulators are intended for primary pressure control of non-corrosive, high purity or liquefied gases for applications requiring constant pressure control and delivery regardless of supply pressure variations.

## Typical Applications

- EPA Protocol gases
- Gas and liquid chromatography
- High purity carrier gases
- Zero, span, and calibration gases
- High purity chamber pressurization

## Advanced Features

- Chrome-plated brass barstock body  
Smooth surface finish
- 10 micron filtration in both stages  
Fail-safe seat performance
- Pressure ranges 0-15 to 0-250 PSIG  
Broad range of applications

## 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  
PCTFE with 4500 PSIG inlet option

*Filter*  
10 micron sintered bronze

*Diaphragm*  
316L stainless steel

*Internal Seals*  
PTFE

*Maximum Inlet Pressure*  
3000 PSIG (210 BAR)  
4500 PSIG (310 BAR) optional

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

*Gauges*  
2" diameter chrome-plated

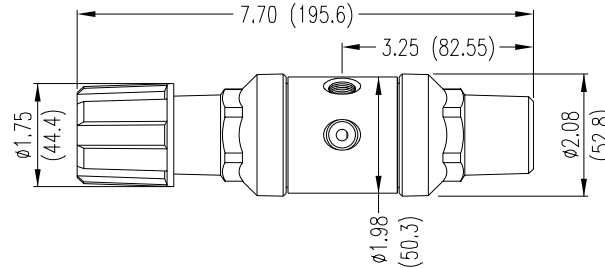
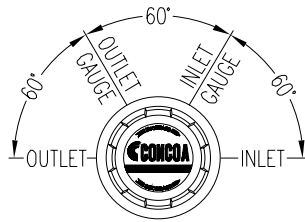
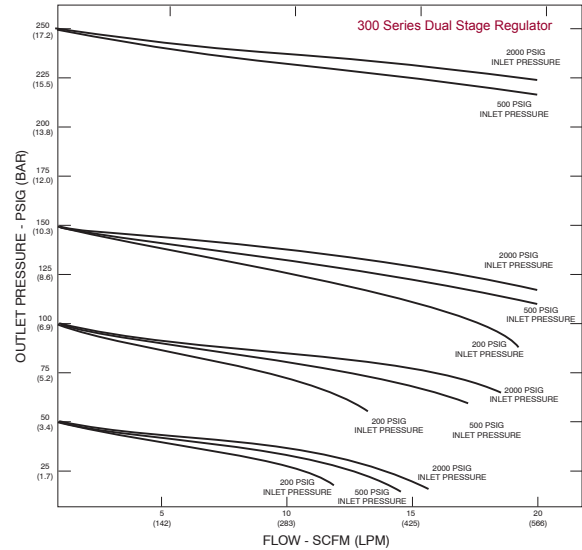
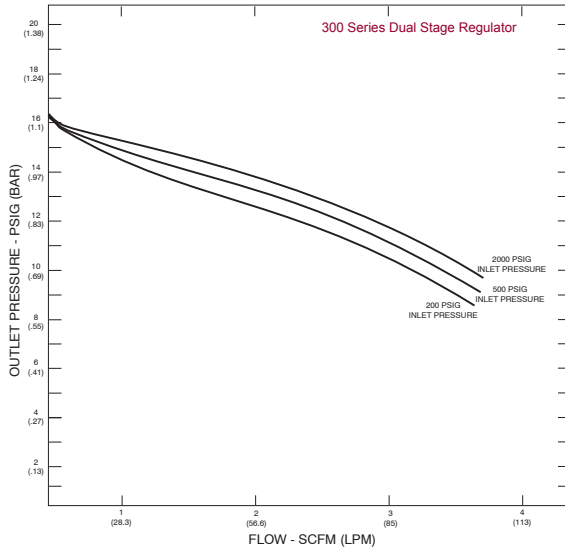
*Ports*  
¼" FPT

*Helium Leak Integrity*  
1 x 10<sup>-8</sup> scc/sec

*Cv*  
0.1

*Weight (312-2331-58)*  
4.4 lbs. (1.98 kg)

# Flow Performance Curves



300 Series Regulators

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

312	A	B	C	D	-Inlet	Options	
Series 312	<b>Outlet Pressure</b> 1: 0-15 2: 0-50 3: 0-100 4: 0-250 7: 0-150	<b>Outlet Gauge</b> 30"-0-30 PSIG 30"-0-100 PSIG 30"-0-200 PSIG 0-400 PSIG 30"-0-200 PSIG	<b>Inlet Gauge</b> 0: None 3: 0-4000 PSIG 5: 0-1000 PSIG 6: 0-300 PSIG 7: 0-400 PSIG 8: 0-6000 PSIG*  <i>*Maximum inlet pressure 4500 PSIG (310 BAR) with PCTFE Seat Capsule</i>	<b>Outlet Assemblies</b> 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	<b>Assembly/ Gauges</b> 0: Bare Body 1: Standard Assembly (PSIG/kPa Gauges) 2: Standard Assembly (BAR/PSIG Gauges)	<b>Inlet Connections</b> 000: 1/4" FPT TF2: 1/8" Tube TF4: 1/4" Tube TF6: 3/8" Tube M06: 6mm Tube  CGA DIN 477 BS 341 and others available	<b>Installed Options</b> A: Protocol Alarm Station (110V) B: Protocol Alarm Station (220V) C: Protocol Switchover Station G: Protocol Switchover Station with Alarm (110V) H: Protocol Switchover Station with Alarm (220V) M: Protocol Station T: Tee Purge*  <i>*Not available with 4500 PSIG max inlet pressure</i>