



200 Series Regulators

212 SERIES

The 212 Series regulators are intended for primary pressure control of non-corrosive, high purity or liquefied gases (up to grade 4.5) for applications requiring constant pressure control and delivery regardless of supply pressure variations.

- Dual Stage
- Chrome-Plated Forged Brass Body
- 316L Stainless Steel Diaphragm
- Five Port Configuration

Typical Applications

| |
|------------------------|
| Argon |
| Nitrogen |
| Oxygen |
| Carbon dioxide |
| Hydrogen |
| Non corrosive mixtures |



212 2331-580 shown

Features

- CAPSULE® Seat**
Increased serviceability and life
- 316L Stainless Steel Diaphragm**
No inboard diffusion
- Forged Body**
Durable, long-lasting construction
- Field-Adjustable Pressure Limit**
Safeguard downstream equipment
- Large Convoluted Diaphragm**
Smooth pressure changes
- Standard Relief Valve**
Diaphragm and gauge protection
- Chrome-Plated Forged Brass Body**
Economical high purity design
- High Flow Capacity**
Supply multiple user locations
- Pressure Ranges 0-15 to 0-200 PSIG (0-1 to 0-14 BAR)**
Broad range of applications

Materials

- Body**
Chrome-plated forged brass
- Bonnet**
Chrome-plated die-cast zinc
- Seat**
PTFE (first stage)
PTFE (second stage)
- Filter**
10 micron sintered bronze
- Diaphragm**
316L stainless steel
- Internal Seals**
PTFE

Specifications

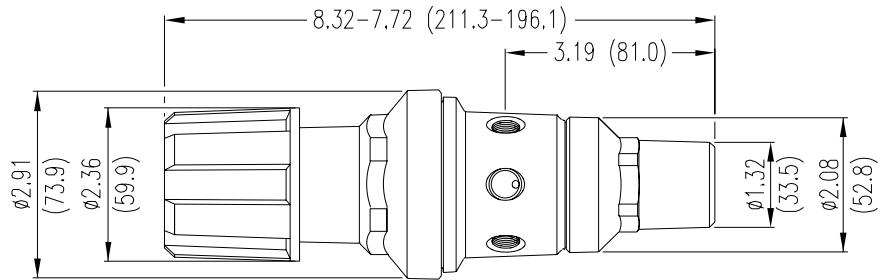
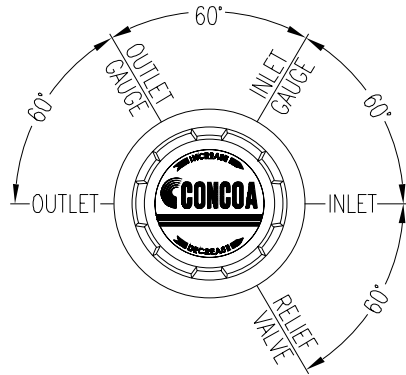
- Maximum Inlet Pressure**
3000 PSIG (210 BAR)
3500 PSIG (240 BAR) optional
4500 PSIG (310 BAR) optional
- Temperature Range**
-40°F to 140°F (-40°C to 60°C)
- Gauges**
2 1/2" (68mm) diameter chrome-plated brass
- Ports**
1/4" FPT
- Helium Leak Integrity**
1 x 10⁻⁸ scc/sec
- Cv**
0.28
See page 206 for flow curves
- Weight (212 2331-580)**
5.1 lbs. (2.3 kg)

CRN 0H5216.5R1

200 Series Regulators



Installation Dimensions



Ordering Information

| 212 | A | B | C | D | -CON | Options | |
|---|--|---|---|---|---|---|---|
| Series 212 | Outlet Pressure | Outlet Gauge | Inlet Gauge | Outlet Assemblies | Assembly Gauges | Inlet Connections | Installed Options |
| | 1: 0-15 PSIG (0-1 BAR) | 0-30 PSIG/ 0-2 BAR | 0: None | 0: 1/4" FPT port | 0: Bare body | 000: 1/4" FPT | B: Protocol alarm station with pressure switch gauges |
| | 2: 0-40 PSIG (0-3 BAR) | 0-60 PSIG/ 0-4 BAR | 3: 0-4000 PSIG/ 0-275 BAR | 1: 1/4" MPT | 1: Standard assembly (PSIG/kPa gauges) | TF2: 1/8" tube | C: Protocol switchover station |
| | 3: 0-120 PSIG (0-8 BAR) | 0-200 PSIG/ 0-14 BAR | 5: 0-1000 PSIG/ 0-70 BAR | 2: 1/4" tube fitting | 2: Standard assembly (BAR/PSIG gauges) | TF4: 1/4" tube | E: Protocol alarm station with intrinsically safe transducer for hazardous environments |
| | 4: 0-200 PSIG (0-14 BAR) | 0-400 PSIG/ 0-27 BAR | 6: 0-400 PSIG/ 0-27 BAR | 3: Diaphragm valve 1/4" tube fitting | | TF6: 3/8" tube | H: Protocol switchover alarm station with pressure switch gauges |
| | 5: 0-15 PSIG (0-1 BAR)* | 0-30 PSIG/ 0-2 BAR with redline for acetylene use | 8: 0-6000 PSIG/ 0-415 BAR* | 4: Diaphragm valve 1/4" MPT | | M06: 6mm tube | J: Protocol alarm station with standard transducer for non hazardous environments |
| | * Not available with 4500 PSIG (310 BAR) Max Inlet | | 9: 0-600 PSIG/ 0-42 BAR | 5: Needle valve 1/4" MPT | | CGA DIN 477 BS 341 and others available | K: Protocol switchover alarm station with standard transducer for non hazardous environments |
| G: 0-4000 PSIG/ 0-275 BAR† | | | 6: 1/8" tube fitting | | M: Protocol station | | |
| <i>*Max inlet 4500 PSIG (310 BAR) with PCTFE seat CAPSULE®</i> | | | 7: 3/8" tube fitting | | Q: Protocol purge station | | |
| <i>†Maximum inlet pressure 3500 (240 BAR) with PCTFE seat CAPSULE</i> | | | 8: Diaphragm valve 1/8" tube fitting | | T: Tee purge | | |
| | | | 9: Diaphragm valve 1/4" FPT | | X: Protocol switchover alarm station with intrinsically safe transducer for hazardous environments | | |
| | | | A: 3/8" BSP RH fitting | | | | |
| | | | B: Diaphragm valve 3/8" tube fitting | | | | |
| | | | C: 3/8" BSP LG fitting | | | | |
| | | | D: 6mm brass hose barb | | | | |
| | | | G: 1/8" stainless steel tube fitting | | | | |
| | H: 1/4" stainless steel tube fitting | | | | | | |
| | M: 6mm tube fitting | | | | | | |
| | S: Diaphragm valve 6mm tube fitting | | | | | | |

REGULATORS