



Model 3200 Series

Single-Stage High-Purity/High Flow Brass and Stainless Steel Regulator



Description

High-purity regulators for use with high flow rate applications.

Applications

- Applications requiring a high flow rate, such as purging of large reactor or storage vessels.

Design Features/Components

- High-purity nickel plated brass barstock or 316 stainless steel body
- 316 stainless steel diaphragm
- Panel mountable
- Bonnets are ported and threaded to pipe gases away from the work area
- Available as an in-line regulator or a cylinder regulator

Materials of Construction

| | |
|------------|---|
| Body: | 316 stainless steel or nickel plated brass barstock |
| Bonnet: | Stainless steel |
| Diaphragm: | Teflon lined 316 stainless steel |
| Seat: | Kel-F 81 |
| Seals: | Teflon |

Specifications

| | <u>In-Line Regulator</u> | <u>Cylinder Regulator</u> |
|-------------------------|-----------------------------------|-----------------------------------|
| Maximum Inlet Pressure: | 3000 psig (20,700 kPa) | 3000 psig (20,700 kPa) |
| Maximum Flow Rate: | See Table Below* | |
| Flow Capacity (Cv): | 1.0 | 1.0 |
| Operating Temperature: | -40°F to 165°F (-40°C to 74°C) | -40°F to 165°F (-40°C to 74°C) |
| Inlet Ports: | 1/2" NPT Female | 1/2" NPT Female |
| Outlet Ports: | 1/2" NPT Female | 1/2" NPT Female |
| Outlet Connection: | None | 1/2" tube fitting |
| Gauge Ports: | 1/4" NPT Female | 1/4" NPT Female |
| Bonnet Vent Port: | 1/16" FNPT | 1/16" FNPT |
| Shipping Weight: | 4 lbs | 5 lbs |

* Maximum Flow Rates for In-Line Regulators and Cylinder Regulators (at 2500 psig inlet pressure)

| <u>Delivery Pressure</u> | <u>Flow Rate</u> |
|--------------------------|----------------------|
| 50 psig | 100 SCFM (2832 SLPM) |
| 100 psig | 150 SCFM (4248 SLPM) |
| 125 psig | 200 SCFM (5664 SLPM) |
| 200 psig | 250 SCFM (7080 SLPM) |

Ordering Information

In-Line Regulator Models

| Model Number | Delivery Pressure Range | Delivery Pressure Gauge |
|-------------------------------|-------------------------|-------------------------|
| Stainless Steel Models | | |
| 3200 | 0-50 psig | 0-100 psig |
| 3201 | 0-100 psig | 30"-0-200 psig |
| 3203 | 0-150 psig | 30"-0-300 psig |
| 3204 | 0-250 psig | 0-400 psig |
| Brass Models | | |
| 3240 | 0-50 psig | 0-100 psig |
| 3241 | 0-100 psig | 30"-0-200 psig |
| 3243 | 0-150 psig | 0-400 psig |
| 3244 | 0-250 psig | 0-400 psig |

Cylinder Regulator Models

| Model Number | Delivery Pressure Range | Delivery Pressure Gauge | Cylinder Pressure Gauge |
|-------------------------------|-------------------------|-------------------------|-------------------------|
| Stainless Steel Models | | | |
| 3200-CGA | 0-50 psig | 0-100 psig | 0-3000 psig |
| 3201-CGA | 0-100 psig | 30"-0-200 psig | 0-3000 psig |
| 3203-CGA | 0-150 psig | 30"-0-300 psig | 0-3000 psig |
| 3204-CGA | 0-250 psig | 0-400 psig | 0-3000 psig |
| Brass Models | | | |
| 3240-CGA | 0-50 psig | 0-100 psig | 0-3000 psig |
| 3241-CGA | 0-100 psig | 30"-0-200 psig | 0-3000 psig |
| 3243-CGA | 0-150 psig | 0-400 psig | 0-3000 psig |
| 3244-CGA | 0-250 psig | 0-400 psig | 0-3000 psig |

Available CGA's:

Brass: 320, 346, 580, 590

Stainless Steel: 320, 326, 330, 346, 580, 590, 660, 705

Options

| Model Number | Description |
|---------------------------|--|
| 63-2233 | Inlet Pressure Gauge, 0-3000 psig – |
| 316 Stainless Steel Gauge | For use with Model 3200-3204 Stainless Steel In-Line Regulators |
| 63-3133 | Inlet Pressure Gauge, 0-3000 psig – |
| Chrome Plated Brass Gauge | For use with Model 3240-3244 Brass In-Line Regulators |
| KIT-0204-SA | Panel Mounting Kit |
| MSP-0012-XX | Inboard Helium Leak Rate Certification |
| MSP-0013-XX | Combination Inboard/Outboard Helium Leak Rate Certification |