

# 6700 SERIES MANIFOLD REGULATORS



The 6700 Series manifold regulator provides steady and reliable pressure control in industrial gas manifold applications requiring high-flow rates. The balanced stem seat design mitigates fluctuations in outlet pressure caused by variable inlet pressures while the large orifice seat and 1/2-inch ports provide high flow capacity. Combined with robust materials of construction and a wide range of delivery pressures, the 6700 Series is an ideal choice for rugged heating and cutting manifold applications.

## Typical Application

- Rugged Heating, Brazing, and Cutting
- Acetylene and Other Fuel Gas Applications
- High-flow Blanketing or Annealing
- Welding/Shielding Pipeline Supply Source



806 6725-01-1 shown

## Features

**Balanced Stem Seat Design** provides steady pressure control even with decaying inlet conditions

**Large Flat Seat Design** delivers maximum instantaneous high-flow capacity

**Machined Brass Barstock Body** resists corrosion and withstands high pressure applications

## Materials and Specifications

**Max Inlet Pressure (without peripherals):** 3000 PSIG (210 BAR)

**Body:** Brass barstock

**Bonnet:** Forged brass

**Gauges:** 2 1/2" (63 mm) diameter brass

**Diaphragm:** Chloroprene

**Filter:** 40-micron 316L stainless steel

**Cv:** 2.0

**Ports:** 1/4" FNPT (gauge and relief ports); 1/2" FNPT (inlet and outlet)

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

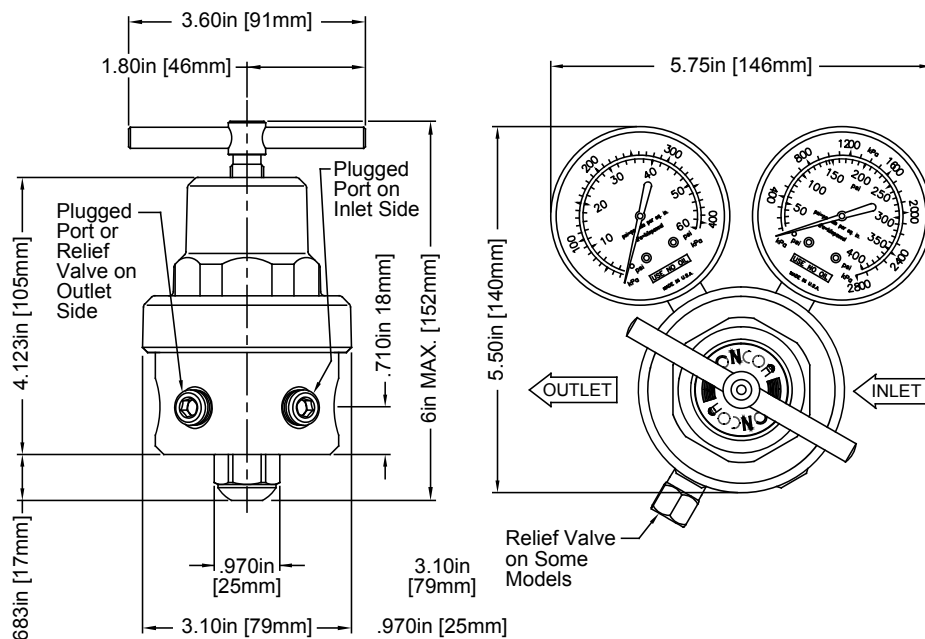
**Weight:** 5.9 lbs. (2.7 kg)

**Conformances:** Cleanliness meets or exceeds CGA G-4.1; CGA E-4; ANSI/ASME B40.1; CRN OF118098.2

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## Installation Dimensions



## Ordering Information

| Part Number   | Gas Service                                                      | Seat        | Outlet Pressure         | Inlet Position | Inlet Gauge               | Outlet Gauge            |
|---------------|------------------------------------------------------------------|-------------|-------------------------|----------------|---------------------------|-------------------------|
| 806 6700-01-1 | Acetylene                                                        | Chloroprene | 0-15 PSIG (0-100 kPa)   | RH             | 0-400 PSIG (0-2800 kPa)   | 0-30 PSIG (0-200 kPa)*  |
| 806 6715-01-1 | Inerts/Carbon Dioxide (not for use with oxygen)                  | EPDM        | 0-15 PSIG (0-100 kPa)   | RH             | 0-400 PSIG (0-2800 kPa)   | 0-30 PSIG (0-200 kPa)   |
| 806 6725-01-1 | Inerts/Oxygen (not for use with carbon dioxide or nitrous oxide) | FKM         | 0-120 PSIG (0-830 kPa)  | RH             | 0-4000 PSIG (0-28000 kPa) | 0-200 PSIG (0-1400 kPa) |
| 806 6740-01-1 | Fuel Gas (not for use with oxygen)                               | Chloroprene | 0-40 PSIG (0-280 kPa)   | RH             | 0-400 PSIG (0-2800 kPa)   | 0-60 PSIG (0-400 kPa)   |
| 806 6745-01-1 | Inerts/Oxygen (not for use with carbon dioxide or nitrous oxide) | FKM         | 0-200 PSIG (0-1400 kPa) | RH             | 0-4000 PSIG (0-28000 kPa) | 0-400 PSIG (0-2800 kPa) |
| 806 6753-01-1 | Inerts/Carbon Dioxide (not for use with oxygen)                  | EPDM        | 0-125 PSIG (0-830 kPa)  | RH             | 0-4000 PSIG (0-28000 kPa) | 0-200 PSIG (0-1400 kPa) |
| 806 6754-01-1 | Inerts/Carbon Dioxide (not for use with oxygen)                  | EPDM        | 0-200 PSIG (0-1400 kPa) | RH             | 0-4000 PSIG (0-28000 kPa) | 0-400 PSIG (0-2800 kPa) |
| 806 6770-01-1 | Acetylene                                                        | Chloroprene | 0-15 PSIG (0-100 kPa)   | LH             | 0-400 PSIG (0-2800 kPa)   | 0-30 PSIG (0-200 kPa)*  |
| 806 6771-01-1 | Inerts/Carbon Dioxide (not for use with oxygen)                  | EPDM        | 0-15 PSIG (0-100 kPa)   | LH             | 0-400 PSIG (0-2800 kPa)   | 0-30 PSIG (0-200 kPa)   |
| 806 6772-01-1 | Fuel Gas (not for use with oxygen)                               | Chloroprene | 0-40 PSIG (0-280 kPa)   | LH             | 0-400 PSIG (0-2800 kPa)   | 0-60 PSIG (0-400 kPa)   |
| 806 6773-01-1 | Inerts/Oxygen (not for use with carbon dioxide or nitrous oxide) | FKM         | 0-125 PSIG (0-830 kPa)  | LH             | 0-4000 PSIG (0-28000 kPa) | 0-200 PSIG (0-1400 kPa) |
| 806 6774-01-1 | Inerts/Oxygen (not for use with carbon dioxide or nitrous oxide) | FKM         | 0-200 PSIG (0-1400 kPa) | LH             | 0-4000 PSIG (0-28000 kPa) | 0-400 PSIG (0-2800 kPa) |
| 806 6775-01-1 | Inerts/Carbon Dioxide                                            | EPDM        | 0-125 PSIG (0-830 kPa)  | LH             | 0-4000 PSIG (0-28000 kPa) | 0-200 PSIG (0-1400 kPa) |
| 806 6776-01-1 | Inerts/Carbon Dioxide                                            | EPDM        | 0-200 PSIG (0-1400 kPa) | LH             | 0-4000 PSIG (0-28000 kPa) | 0-400 PSIG (0-2800 kPa) |

\*Outlet gauge redline for Acetylene service

## Related Options

| Part Number | Description           |
|-------------|-----------------------|
| 830 6479    | Front Panel Mount Kit |
| 835 0205    | Rear Panel Mount Kit  |

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## Flow Curves

