

6500 SERIES CYLINDER REGULATORS



The 6500 Series Medium-Heavy Duty welding, heating, and cutting regulator provides primary control of industrial gas cylinders in applications requiring outlet pressures up to 200 PSIG. The rugged forged brass construction provides high durability while the encapsulated seat design provides accurate pressure control and extended component lifecycle. Combined with heavy-duty internals to enable high delivery pressure and a wide range of delivery options, the 6500 is an ideal choice for high-pressure welding, heating, and cutting applications.

Typical Applications

- Oxy-fuel Heating, Cutting, and Welding
- Plasma Welding
- Heat Treatment
- Thermal Spray
- Modified Atmosphere Packaging (MAP)



806 6506 Shown



Features

2.5" (63mm) Chloroprene Diaphragm ensures steady pressure control

Medium-large Seat Displacement supports high flow capacity

Capsule® Seat Design provides maximum reliability and high cycle life

Materials and Specifications

Body: Forged brass

Bonnet: Chrome-plated, die cast zinc

Gauges: 2 1/2 in (68 mm) diameter brass

Diaphragm: Chloroprene

Filter: 25-micron sintered bronze

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

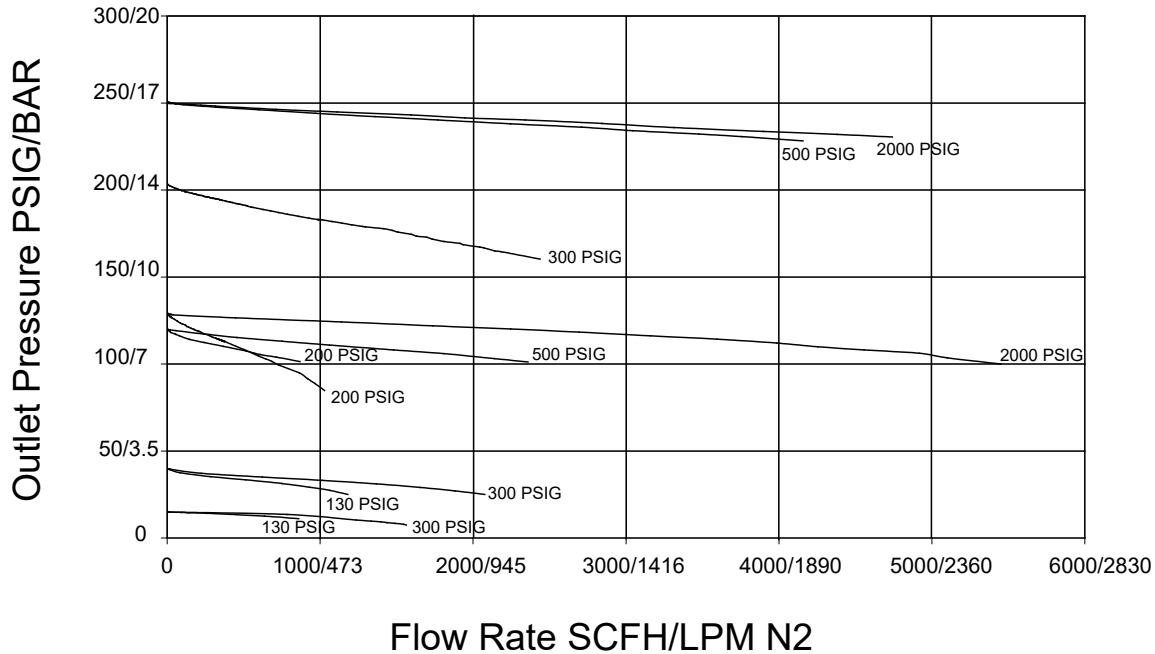
Cv: 0.2

Conformances: Cleanliness meets or exceeds CGA G-4.1; ANSI/ASME B40.1; CRN 0H5216.5R1

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Flow Curves



Ordering Information

| Part Number | Gas Service | Seat | Max Inlet Pressure | Inlet Connection | Outlet Pressure | Outlet Connection | Pressure Gauges |
|---------------|-------------------------|-------|---------------------|------------------|-----------------------|----------------------|-----------------|
| 806 6502-01-1 | Acetylene | PTFE | 300 PSIG (21 BAR) | CGA 300 | 0-15* PSIG (0-1 BAR) | 9/16"-18 "B" LH Ext. | 30 & 400 PSIG |
| 806 6503-01-1 | Industrial Air | PTFE | 3000 PSIG (210 BAR) | CGA 590 | 0-125 PSIG (0-9 BAR) | 1/4" MNPT | 200 & 4000 PSIG |
| 806 6505-01-1 | Argon, Nitrogen, Helium | PTFE | 3000 PSIG (210 BAR) | CGA 580 | 0-125 PSIG (0-9 BAR) | 5/8"-18 "B" RH Int. | 200 & 4000 PSIG |
| 806 6506-01-1 | Oxygen | PTFE | 3000 PSIG (210 BAR) | CGA 540 | 0-125 PSIG (0-9 BAR) | 9/16"-18 "B" RH Ext. | 200 & 4000 PSIG |
| 806 6508-01-1 | Breathing Air | PTFE | 3000 PSIG (210 BAR) | CGA 346 | 0-125 PSIG (0-8 BAR) | 1/4" MNPT | 200 & 4000 PSIG |
| 806 6509-01-1 | Acetylene | PTFE | 300 PSIG (21 BAR) | CGA 510 | 0-15* PSIG (0-1 BAR) | 9/16"-18 "B" LH Ext. | 30 & 400 PSIG |
| 806 6532-01-1 | Fuel Gas | PTFE | 300 PSIG (21 BAR) | CGA 510 | 0-40* PSIG (0-2 BAR) | 9/16"-18 "B" LH Ext. | 60 & 400 PSIG |
| 806 6543-01-1 | Compressed Air | PCTFE | 5500 PSIG (380 BAR) | CGA 347 | 0-125 PSIG (0-9 BAR) | 5/8"-18 "B" RH Int. | 200 & 6000 PSIG |
| 806 6544-01-1 | Inert | PCTFE | 5500 PSIG (380 BAR) | CGA 680 | 0-125 PSIG (0-9 BAR) | 5/8"-18 "B" RH Int. | 200 & 6000 PSIG |
| 806 6546-01-1 | Oxygen | PCTFE | 4000 PSIG (276 BAR) | CGA 577 | 0-125 PSIG (0-9 BAR) | 9/16"-18 "B" RH Ext. | 200 & 6000 PSIG |
| 806 6564-01-1 | Oxygen | PTFE | 3000 PSIG (210 BAR) | CGA 540 | 0-200 PSIG (0-14 BAR) | 9/16"-18 "B" RH Ext. | 400 & 4000 PSIG |
| 806 6568-01-1 | Argon, Nitrogen, Helium | PTFE | 3000 PSIG (210 BAR) | CGA 580 | 0-200 PSIG (0-14 BAR) | 5/8"-18 "B" RH Int. | 400 & 4000 PSIG |
| 806 6581-01-1 | Hydrogen, Methane | PTFE | 3000 PSIG (210 BAR) | CGA 350 | 0-40 PSIG (0-2 BAR) | 9/16"-18 "B" LH Ext. | 60 & 4000 PSIG |
| 806 6583-01-1 | Industrial Air | PTFE | 3000 PSIG (210 BAR) | CGA 590 | 0-40 PSIG (0-2 BAR) | 1/4" MNPT | 60 & 4000 PSIG |
| 806 6585-01-1 | Argon, Nitrogen, Helium | PTFE | 3000 PSIG (210 BAR) | CGA 580 | 0-40 PSIG (0-2 BAR) | 5/8"-18 "B" RH Int. | 60 & 4000 PSIG |
| 806 6586-01-1 | Oxygen | PTFE | 3000 PSIG (210 BAR) | CGA 540 | 0-40 PSIG (0-2 BAR) | 9/16"-18 "B" LH Ext. | 60 & 4000 PSIG |
| 806 6587-01-1 | Carbon Dioxide | PTFE | 3000 PSIG (210 BAR) | CGA 320 | 0-40 PSIG (0-2 BAR) | 5/8"-18 "B" RH Int. | 60 & 4000 PSIG |
| 806 6588-01-1 | Breathing Air | PTFE | 3000 PSIG (210 BAR) | CGA 346 | 0-40 PSIG (0-2 BAR) | 1/4" MNPT | 60 & 4000 PSIG |

* Acetylene should not be used over 15 PSIG