

6790 SERIES PIPELINE REGULATORS



The 6790 Series High-flow Heavy Duty Rugged Heating and Cutting regulator provides steady and reliable pressure control in industrial gas pipeline applications requiring high-flow rates. The balanced stem seat designed mitigates fluctuations in outlet pressure caused by variable inlet pressures while the large orifice seat and 1/2" ports provide high-flow capacity. Combined with robust materials of construction and a wide range of delivery pressures, the 6790 industrial regulator is an ideal choice for rugged heating and cutting applications.

Typical Applications

- Rugged Heating, Brazing, and Cutting
- Laser Welding
- Mig and Tig Welding
- Industrial Additive Manufacturing
- Acetylene and Other Fuel Gas Applications
- Fermentation



806 6791 Shown

Features

1/2" Seat and Ports supports ultra-high flow
Heavy Forged Brass Bonnet ensures high durability

Materials and Specifications

Max Inlet Pressure (without peripherals): 3000 PSIG or 400 PSIG (with acetylene)

Body: Brass barstock

Bonnet: Forged brass

Diaphragm: Chloroprene

Filter: 40-micron 316L stainless steel

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

Cv: 2.0

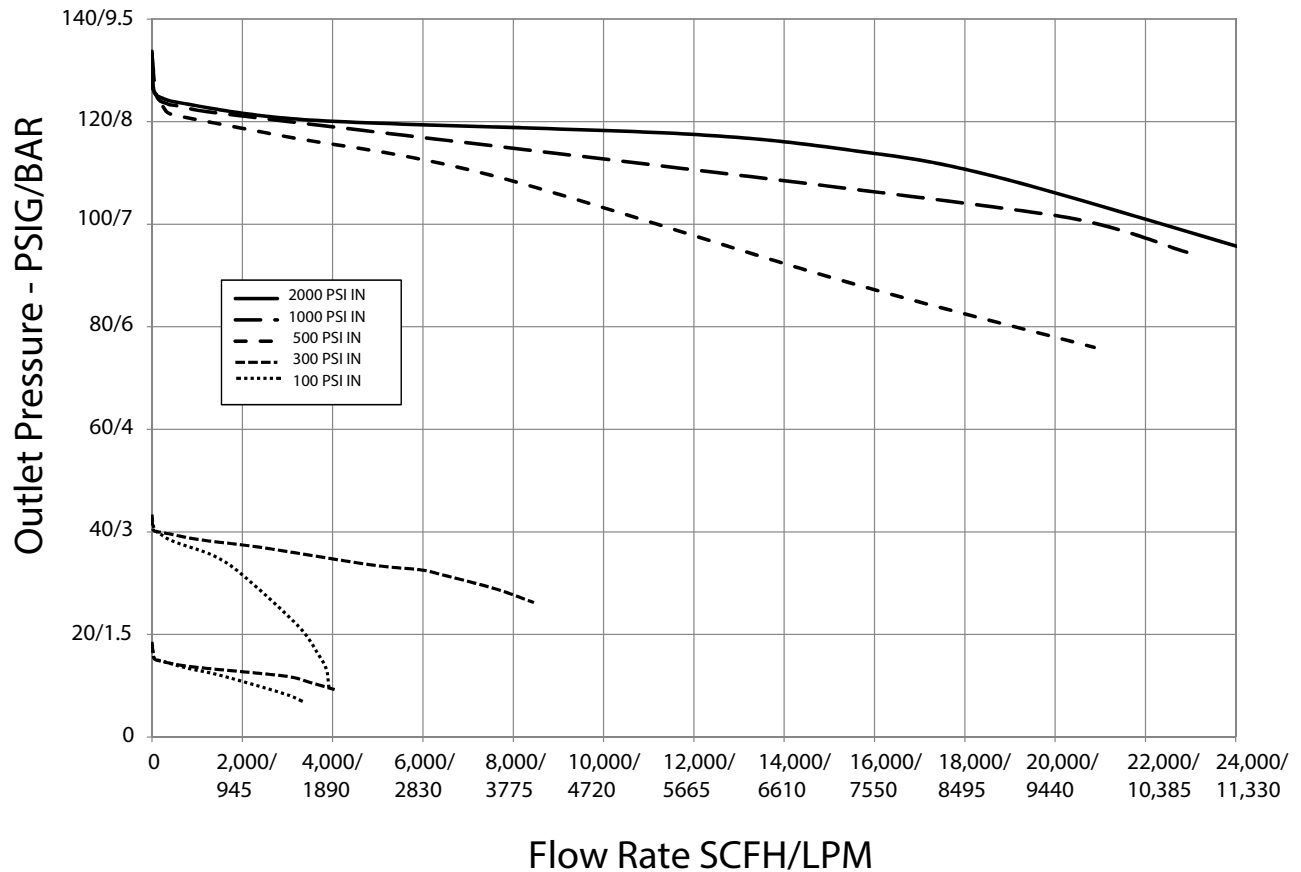
Gauges: 2-1/2" (68 mm) diameter brass

Conformances: Cleanliness meets or exceeds CGA G-4.1; ANSI/ASME B40.1; CRN OF11809.2

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Flow Curves



Ordering Information

Part Number	Seat	Outlet Pressure	Outlet Gauge	Maximum Flow
806 6790-01-1 (400 PSIG max inlet)	Chloroprene (acetylene only)	0-15 PSIG (1 BAR)	0-30 PSIG	900 SCFH
806 6791-01-1	Chloroprene (not for use with oxygen)	0-15 PSIG (1 BAR)	0-30 PSIG	900 SCFH
806 6792-01-1 (400 PSIG max inlet)	Chloroprene (not for use with oxygen)	0-40 PSIG (3 BAR)	0-60 PSIG	1500 SCFH
806 6793-01-1	FKM (not for use with carbon dioxide or nitrous oxide)	0-120 PSIG (8 BAR)	0-200 PSIG	9000 SCFH
806 6794-01-1	FKM (not for use with carbon dioxide or nitrous oxide)	0-200 PSIG (14 BAR)	0-400 PSIG	9000 SCFH
806 6797-01-1	EPDM (for nitrous oxide and carbon dioxide)	0-120 PSIG (8 BAR)	0-200 PSIG	4000 SCFH
806 6798-01-1	EPDM (for nitrous oxide and carbon dioxide)	0-200 PSIG (14 BAR)	0-400 PSIG	4000 SCFH

Related Options

830 6479	Panel Mount Kit (includes bonnet with panel-mount threads)
835 0205	Wall Mount Kit (includes wall bracket)