

6790 SERIES PIPELINE REGULATORS



The 6790 Series heavy-duty, rugged heating and cutting regulators provide steady and reliable pressure control in industrial gas pipeline 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, CONCOA 6790 Series industrial regulators are ideal 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 Inch Seat and Ports** support ultra-high flow
- Heavy Forged Brass Bonnet** ensures high durability
- Balanced Stem Seat** provides steady pressure control with decaying inlet conditions

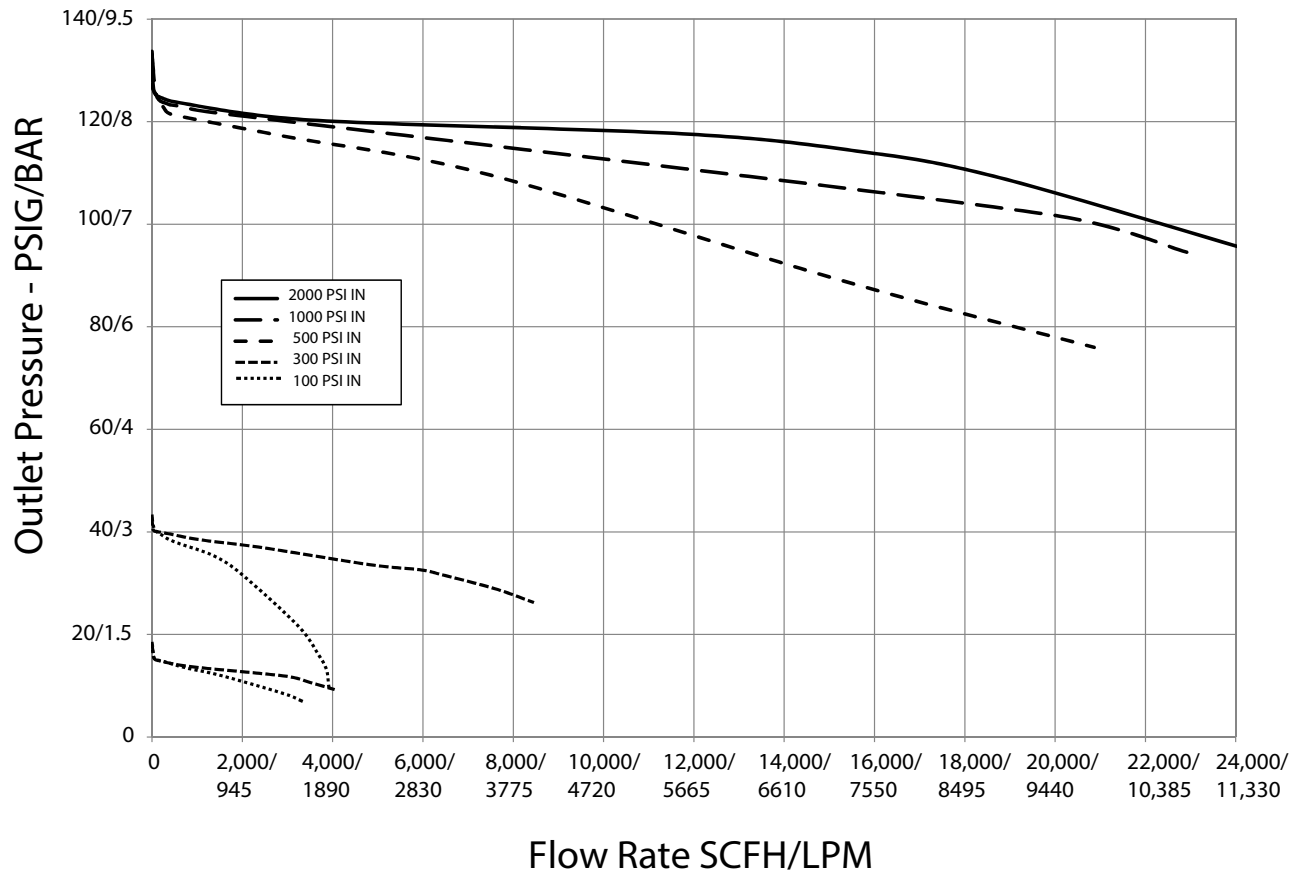
Materials and Specifications

- 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
- Gauge:** 2-1/2 inch (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	Max Flow
806 6790-01-1 (400 PSIG max inlet)	Chloroprene (acetylene only)	0-15 PSIG (0-1 BAR)	0-30 PSIG	900 SCFH
806 6791-01-1	Chloroprene (not for use with oxygen)	0-15 PSIG (0-1 BAR)	0-30 PSIG	900 SCFH
806 6792-01-1 (400 PSIG max inlet)	Chloroprene (not for use with oxygen)	0-40 PSIG (0-3 BAR)	0-60 PSIG	1500 SCFH
806 6793-01-1	FKM (not for use with carbon dioxide or nitrous oxide)	0-120 PSIG (0-8 BAR)	0-200 PSIG	9000 SCFH
806 6794-01-1	FKM (not for use with carbon dioxide or nitrous oxide)	0-200 PSIG (0-14 BAR)	0-400 PSIG	9000 SCFH
806 6797-01-1	EPDM (for nitrous oxide and carbon dioxide)	0-120 PSIG (0-8 BAR)	0-200 PSIG	4000 SCFH
806 6798-01-1	EPDM (for nitrous oxide and carbon dioxide)	0-200 PSIG (0-14 BAR)	0-400 PSIG	4000 SCFH

Related Options

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