

6800 SERIES MANIFOLD REGULATORS



The 6800 Series High-flow Heavy Duty heating and cutting regulator provides primary pressure control of industrial gas cylinders in applications requiring high-flow rates with delivery pressures up to 250 PSIG. The stainless steel diaphragm provides sensitive pressure control and reliable performance in cold climates while the large orifice seat and 1/2" process ports enable ultra-high-flow rates. Combined with robust materials of construction and a wide range of delivery pressures, the 6800 series two stage manifold regulator is an ideal choice for heavy duty, high-flow heating and cutting applications.



8066800-01-1 shown

Typical Applications

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

Features

1/2" Seat and Outlet Port allows ultra-high flow

Chrome-plated, Die-cast Zinc Bonnet provides protection from corrosion

Choice of Seal Material facilitates a range of applications

Materials and Specifications

Body: Brass barstock

Bonnet: Chrome-plated, die-cast zinc

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

Filter: 25-micron sintered bronze

Cv: 0.28

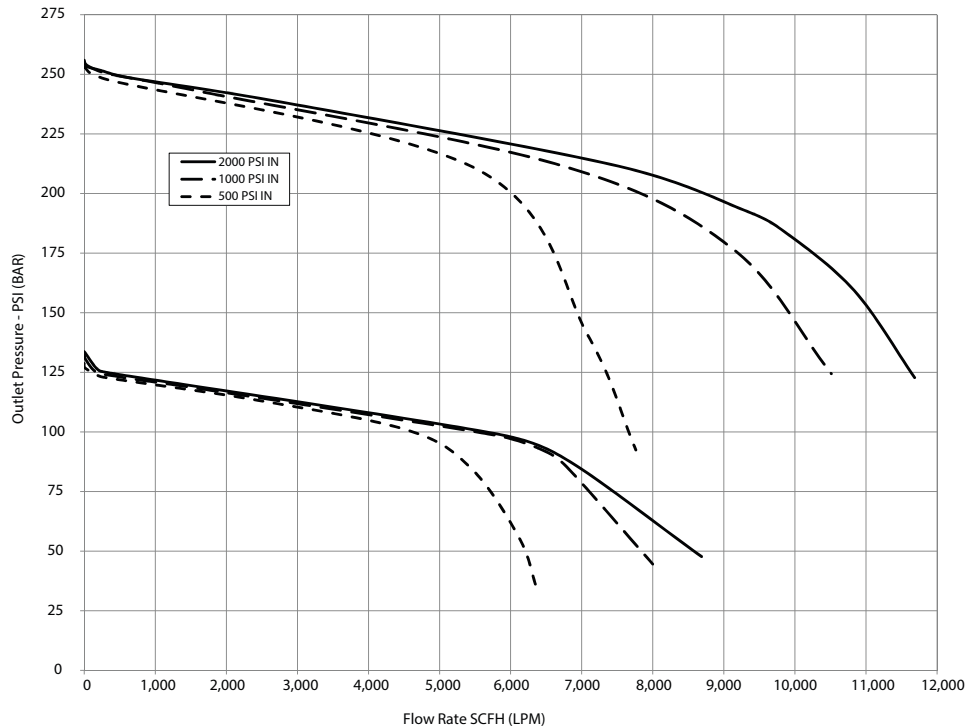
Temperature Range: -40°F to 140°F (-40°C to 60°C)

Conformances: Cleanliness meets or exceeds CGA G-4.1; ANSI/ASME B40.1; CRN OH5216.5R

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Flow Curves for 6800 Series



Ordering Information

Part Number	Gas Service	Seat (1st stage)	Diaphragm	Inlet	Max Inlet Pressure	Outlet Pressure	Outlet Fittings	Pressure Gauges
806 6800-01-1	Oxygen	PTFE	Chloroprene	CGA 540	3000 PSIG (210 BAR)	0-250 PSIG (0-17 BAR)	7/8" -14 "C" RH Ext.	400 & 4000 PSIG
806 6802-01-1	Acetylene	PTFE	Chloroprene	CGA 300	300 PSIG (21 BAR)	0-15* PSIG (0-1 BAR)	7/8" -14 "C" LH Ext.	30 & 400 PSIG
806 6803-01-1	Argon, Nitrogen, Helium	PTFE	Chloroprene	CGA 580	3000 PSIG (210 BAR)	0-125 PSIG (0-9 BAR)	7/8" -14 "C" RH Int.	200 & 4000 PSIG
806 6805-01-1	Argon, Nitrogen, Helium	PTFE	Chloroprene	CGA 580	3000 PSIG (210 BAR)	0-250 PSIG (0-17 BAR)	7/8" -14 "C" RH Int.	400 & 4000 PSIG
806 6806-01-1	Oxygen	PTFE	Chloroprene	CGA 540	3000 PSIG (210 BAR)	0-125 PSIG (0-9 BAR)	7/8" -14 "C" RH Ext.	200 & 4000 PSIG
806 6807-01-1	Hydrogen, Methane	PTFE	Chloroprene	CGA 350	3000 PSIG (210 BAR)	0-250 PSIG (0-17 BAR)	7/8" -14 "C" LH Ext.	400 & 4000 PSIG
806 6808-01-1	Air	PTFE	Chloroprene	CGA 346	3000 PSIG (210 BAR)	0-250 PSIG (0-17 BAR)	7/8" -14 "C" RH Ext.	400 & 4000 PSIG
806 6809-01-1	Acetylene	PTFE	Chloroprene	CGA 510	300 PSIG (21 BAR)	0-15* PSIG (0-1 BAR)	7/8" -14 "C" LH Ext.	30 & 400 PSIG
806 6813-01-1	Hydrogen, Methane	PTFE	Chloroprene	CGA 350	3000 PSIG (210 BAR)	0-125 PSIG (0-9 BAR)	7/8" -14 "C" RH Ext.	200 & 4000 PSIG
806 6818-01-1	Air	PTFE	Chloroprene	CGA 346	3000 PSIG (210 BAR)	0-125 PSIG (0-9 BAR)	7/8" -14 "C" RH Ext.	200 & 4000 PSIG
806 6832-01-1	Fuel Gas	PTFE	Chloroprene	CGA 510	300 PSIG (21 BAR)	0-40* PSIG (0-3 BAR)	7/8" -14 "C" LH Ext.	60 & 400 PSIG
806 6865-01-1	Argon, Nitrogen, Helium	PTFE	Stainless Steel	CGA 580	3000 PSIG (210 BAR)	0-250 PSIG (0-17 BAR)	1/2" stainless tube	400 & 4000 PSIG
806 6866-01-1	Oxygen	PTFE	Stainless Steel	CGA 540	3000 PSIG (210 BAR)	0-250 PSIG (0-17 BAR)	1/2" stainless tube	400 & 4000 PSIG
806 6867-01-1	Air	PCTFE	Stainless Steel	CGA 347	4500 PSIG (310 BAR)	0-250 PSIG (0-17 BAR)	1/2" FNPT	400 & 6000 PSIG
806 6868-01-1	Argon, Nitrogen, Helium	PCTFE	Stainless Steel	CGA 680	4500 PSIG (310 BAR)	0-250 PSIG (0-17 BAR)	1/2" stainless tube	400 & 6000 PSIG

**Acetylene should not be used over 15 PSIG*