

P80 Series Foam Concentrate Pump

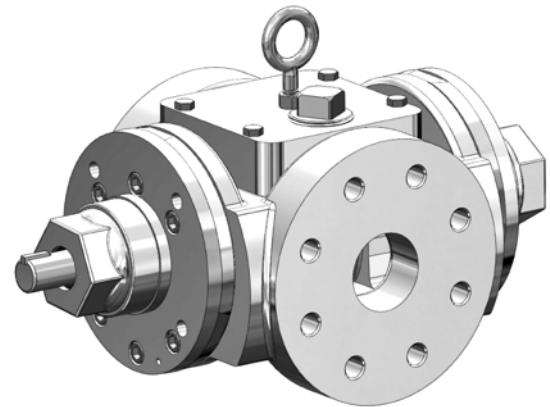
Description

CHEM GUARD foam concentrate pumps are constructed of corrosion resistant brass and stainless steel, and are designed for use with all types of fire fighting foam concentrates.

The pumps are Listed by Underwriters Laboratories as meeting the stringent requirements of "UL 448C, the Standard for Stationary, Rotary-Type, Positive-Displacement Pumps for Fire Protection Service", and Factory Mutual Listed class 1313 and are furnished complete with pressure relief valves which also meet the requirements of these standards.

Features

- Single shaft seal as opposed to dual.
- Internal rotary gear pump
- Fewer moving parts reduces maintenance & wear.
- Integral relief valve port on all pump sizes to simplify installations allowing return to tank operation capability.
- Shaft lip seal is mounted in removable gland for ease of replacement without major pump disassembly.
- Electric motor and diesel engine drives available.
- UL and FM tested for liquids ranging from water up to 4600 cps.
- No special material changes for using fluoroprotein concentrates.
- Pump shafts are supported by multiple Carbon-Graphite and/or Graphaloy bushings eliminating the possibility that failure of one ball bearing will result in complete pump failure.
- To meet UL & FM Listings, pumps must be shipped to include drive motor (electric or diesel), listed controller and PRV along with certificates of flow and pressure testing.



Ordering Information

| Model No. | Description |
|-----------|--------------------------------|
| CGP80-60 | 9 to 54 gpm (34 to 204 L/min) |
| CGP80-80 | 14 to 68 gpm (53 to 257 L/min) |

Performance Table

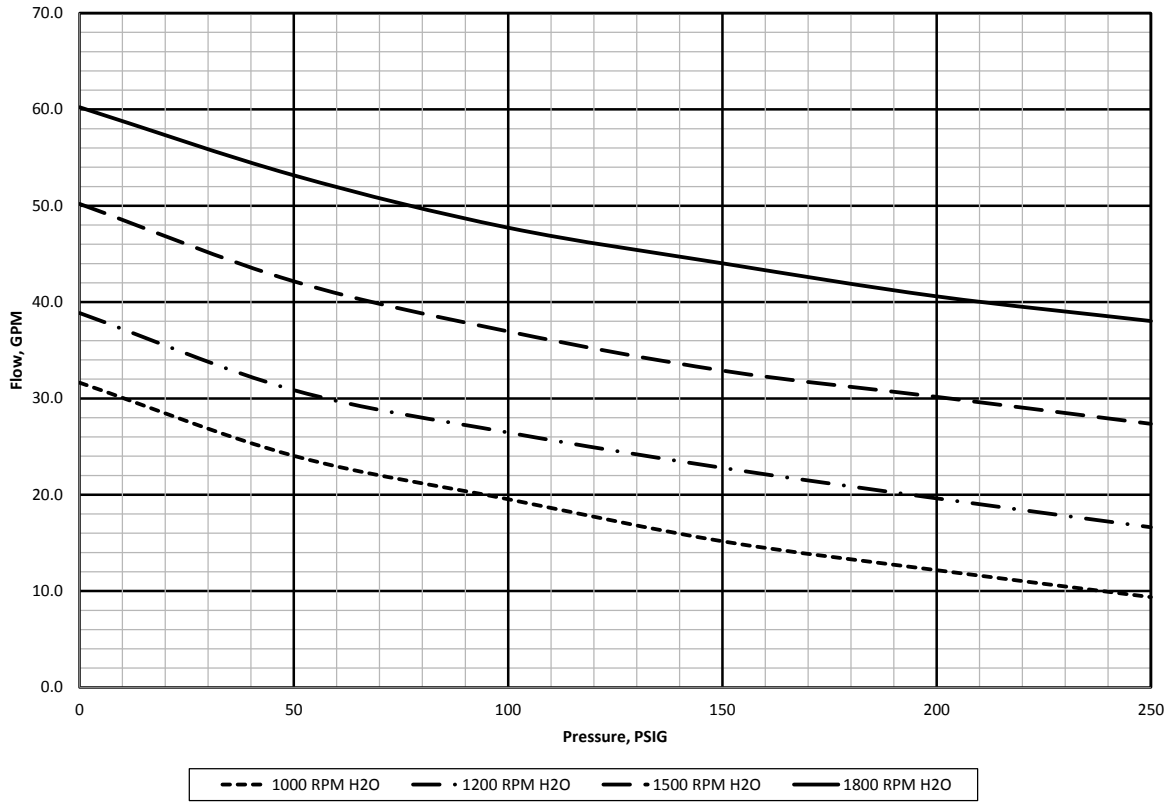
| Model No. | Capacity Range gpm (lpm) | Port Size FNPT/300 Lb. FLG | Rated Speed rpm | Pressure Range psi (bar) | Max Working Pressure psi (bar) | Input Power Range, hp (kW) | Pressure Relief Valve Size, Inlet x Outlet |
|-----------|-----------------------------|-------------------------------|-----------------------|-----------------------------|--------------------------------------|-------------------------------|---|
| CGP80-60 | 9-31 (34-117) | 2" (50.8 mm) | 1000 | 40-250 (2.8-17.2) | 350 (24) | 1.2-6.4 (0.9-4.8) | 3/4" x 1-1/4" (19.05 mm x 31.75 mm) |
| CGP80-60 | 16-38 (60-143) | 2" (50.8 mm) | 1200 | 40-250 (2.8-17.2) | 350 (24) | 1.6-7.6 (1.2-5.7) | 3/4" x 1-1/4" (19.05 mm x 31.75 mm) |
| CGP80-60 | 27-43 (102-163) | 2" (50.8 mm) | 1500 | 40-250 (2.8-17.2) | 350 (24) | 2.0-9.5 (1.5-7.1) | 3/4" x 1-1/4" (19.05 mm x 31.75 mm) |
| CGP80-60 | 38-54 (144-204) | 2" (50.8 mm) | 1800 | 40-250 (2.8-17.2) | 350 (24) | 2.5-11.3 (1.9-8.5) | 3/4" x 1-1/4" (19.05 mm x 31.75 mm) |
| CGP80-80 | 14-34 (53-129) | 2" (50.8 mm) | 1000 | 40-250 (2.8-17.2) | 350 (24) | 1.8-8.2 (1.4-6.2) | 3/4" x 1-1/4" (19.05 mm x 31.75 mm) |
| CGP80-80 | 24-43 (91-163) | 2" (50.8 mm) | 1200 | 40-250 (2.8-17.2) | 350 (24) | 2.2-9.9 (1.7-7.4) | 3/4" x 1-1/4" (19.05 mm x 31.75 mm) |
| CGP80-80 | 42-57 (159-219) | 2" (50.8 mm) | 1500 | 40-250 (2.8-17.2) | 350 (24) | 2.9-12.9 (2.2-9.7) | 3/4" x 1-1/4" (19.05 mm x 31.75 mm) |
| CGP80-80 | 54-68 (204-257) | 2" (50.8 mm) | 1800 | 40-250 (2.8-17.2) | 350 (24) | 4.1-15.7 (3.1-11.8) | 3/4" x 1-1/4" (19.05 mm x 31.75 mm) |

NOTE:

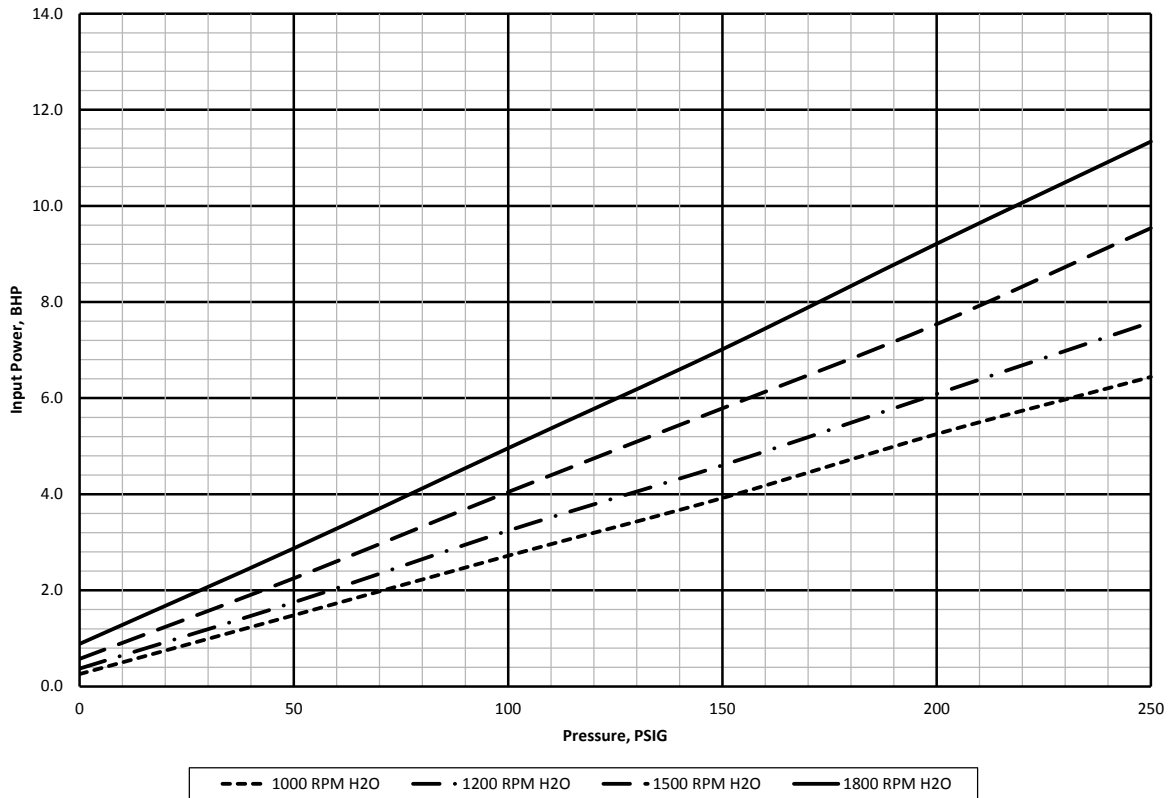
- Pump supplied with combination 2" FNPT threaded connection and ANSI Class 300 FF flange connection.
- Actual Speed will vary and is determined by specific driver used.
- See individual Pump curves for application flow rates and horsepower requirements.
- Maximum pressure includes suction pressure when applicable.
- To meet NFPA foam additive requirements, a positive head liquid supply is required on the suction side of the pump.
- To properly size pumps, add 10% to calculated flow. The horsepower must be 15% over required.
- The Pressure Relief Valve must be piped separately to return to tank with no isolation valves using the full outlet size of the PRV as indicated.

Performance Curves with Water

Model CGP80-60 Flow

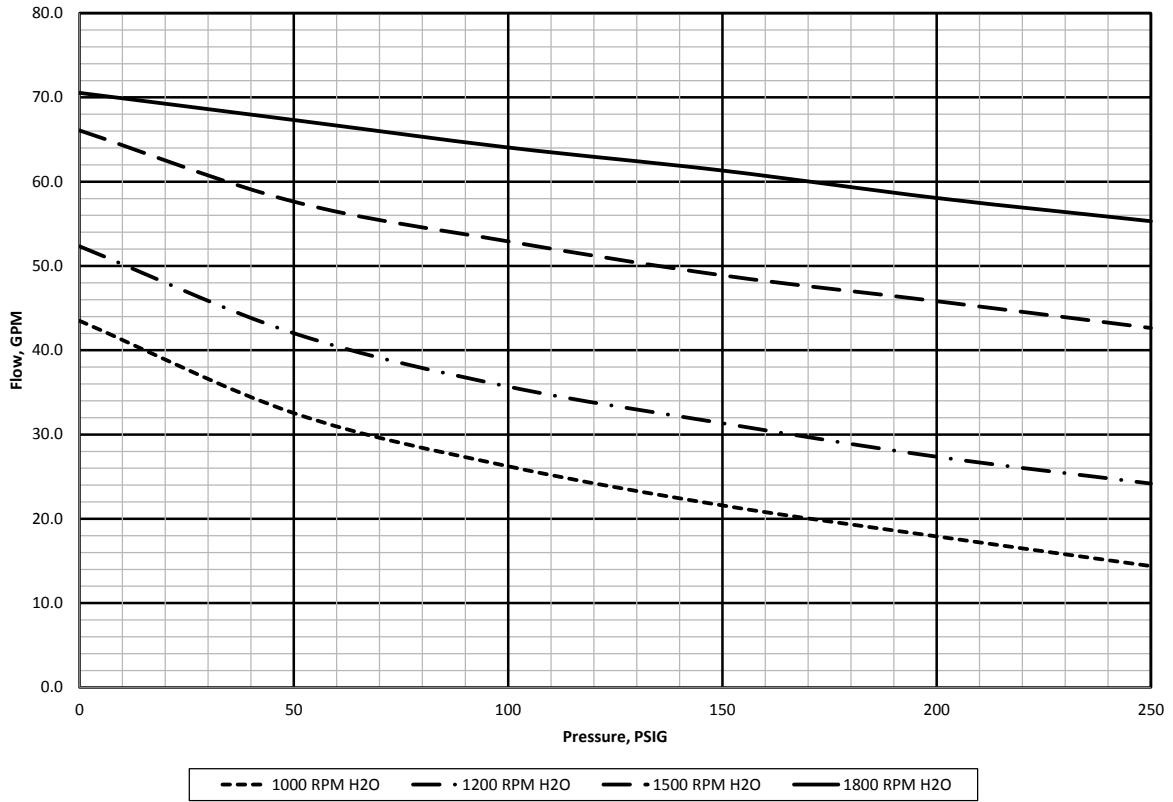


Model CGP80-60 Input Power



Performance Curves with Water

Model CGP80-80 Flow



Model CGP80-80 Input Power

