



FOAM SYSTEMS

CAFSystems™

FIRE PUMPS

VEHICLE-MOUNTED PUMP

CP-2 Series



The CP-2 Series can be driven by a transmission side-mounted PTO or direct-engine mounted utilizing a T Series Transmission and is able to accommodate multiple lines for straight stream or fog nozzle.

PERFORMANCE

- Maximum Flow: 300 GPM (1100 l/min)
- Maximum Pressure: 400 PSI (28 bar)

AVAILABLE MOUNTING

- Equipped with K Series Gear Drive Transmission or T Series Direct Mount

SPECIFICATIONS – PTO DRIVEN: MODEL CP-2

| CP-2 Pump Performance | | | | | | |
|-----------------------|-------|-------|----------|-----|------|-----|
| FLOW | | | PRESSURE | | | |
| GPM | l/min | l/sec | PSI | bar | kPa | MPa |
| 300 | 1100 | 18 | 150 | 10 | 1000 | 1.0 |
| 250* | 1000 | 15 | 150 | 10 | 1000 | 1.0 |
| 150 | 600 | 10 | 225 | 16 | 1600 | 1.6 |
| 100 | 400 | 7 | 250 | 17 | 1700 | 1.7 |
| 60 | 200 | 3 | 400 | 28 | 2800 | 2.8 |

*When installed in vehicle, complete with proper intake piping, CP-2 meets NFPA 1901 for a 250 GPM rating.

Performance ratings based on pumping from draft with 3" (7.6 cm) or 3-1/2" (8.9 cm) piping. Maximum pressure which can be developed at any particular capacity will be determined by the pump transmission ratios, engine and/or PTO rating.

Pump Features

Casing:

High-tensile, nickel-bearing gray iron (bronze optional).

Impeller:

Bronze, double-hubbed, hydraulically and mechanically balanced.

Wear Rings:

Bronze

Impeller Shaft:

Stainless steel, heat treated, ground to precise size, and polished under shaft seal. Fully supported by anti-friction bearings.

Shaft Seal:

Mechanical Seal is standard.

Intake Connection:

3-inch (7.6 cm) NPT, or 3 inch BSP*

Discharge Connection:

2-inch (5 cm) NPT, or 2 inch BSP*

*BSP (British Pipe) threads are available as straight or tapered.

Straight threads are per BS2779 for fittings where pressure-tight joints are not made on the threads. Tapered threads are per BS21 for fittings where pressure-tight joints are made on the threads.

Bearings:

Completely ball bearing equipped, oil-splash lubricated.

Discharge Positions:

Available in either rotation with four discharge positions; gear case can be mounted horizontally, vertically, or inverted.

Installation:

Universal joints, shaft, piping, and controls are furnished by fire apparatus builder.

Approximate Weight and Dimensions

| Measurement | Length | Width | Height | *Weight |
|---------------------|--------|-------|--------|---------|
| US ¹ | 16.25 | 10 | 14.8 | 140 |
| Metric ² | 32.1 | 25.4 | 37.6 | 63.5 |

* Includes oil

¹ US measurements in inches and pounds

² Metric measurements in centimeters and kilograms

Optional Equipment

- Priming System
- Pressure Governor
- Pressure Control Systems – Discharge and Intake Relief Valves
- Corrosion Protection – Zinc Intake Screens and Magnesium Anodes
- Overheat Protection Manager
- Drain Valves
- Discharge Valves
- Tachometer drive available, operates at ½ input shaft speed.
- Transmissions Available:

K Series (PTO)

The K Series Transmission is normally used when a truck transmission mounted power take-off is selected as the pump drive.

Housings: Aluminum

Drive Ratios: 1.62, 1.97, 2.14, 2.55, 2.79, 3.40, 4.00, 4.79

Gears: Helical, precision cut, crown shaved for proper load distribution and quiet operation.

T Series (Direct-Engine Mounted)

The T Series Transmission is supplied when the pump is to be mounted directly to the engine bell housing. This provides a clean, compact arrangement and allows for complete pump and roll capability.

T Transmissions are available in SAE 2, 3, 4, or 5 bell housing adapters.

Housings: Aluminum

Drive Ratios: 1.62, 1.97, 2.14, 2.55, 2.79, 3.40, 4.00, 4.79

Gears: Helical, precision cut, crown shaved for proper load distribution and quiet operation.

Warranty

Waterous Seven-Year Limited Warranty

Conditions of Sales

For details on Waterous Conditions of Sales, refer to F-2190, *Conditions of Sales* located on the Waterous web site at www.waterousco.com or by contacting Waterous.