



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 Control Systems – Discharge and Intake Relief Valves
- Corrosion Protection – Zinc Intake Screens and 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.