

SPECIFICATIONS – PTO DRIVEN: MODEL CP-2

Meets NFPA 1901 for 250 GPM Rating*



Adaptable to pump-and-roll operation, the CP-2 will supply two or more lines with adequate pressure for use with either straight stream or fog nozzles.

CP-2 Pump Performance						
FLOW			PRESSURE			
GPM	l/min	l/sec	PSI	bar	kPa	MPa
300	1100	20	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

- High-tensile, close-grained gray iron casing (bronze/gunmetal optional)
- 17-4 stainless steel, heat-treated impeller (Monel shaft optional)
- Bronze, double-hubbed balanced impeller
- Bronze wear rings
- Mechanical Seal
- 3-inch NPT or BSP intake
- 2-inch NTP or BSP discharge (available in either rotation with four discharge positions).



CPK-2 Shown

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

Warranty

Waterous Five-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.

Optional Equipment (see next page)

- Priming System
- Pressure Control Systems – Discharge and Intake Relief Valves
- Corrosion Protection – Zinc Intake Screens and Anodes
- Overheat Protection Manager
- Drain Valves
- Discharge Valves
- Five-Year Limited Warranty with Total Protection Package (TPP-5)
- Tachometer drive available, operates at ½ input shaft speed.
- Transmissions Available:

- K Series Gear Driven (PTO Driven)
- T Series Gear Driven (Direct Drive)

Industry Leading Sales and Support

When you purchase equipment, not only do you get quality products, you get quality service. Our expert service technicians are the best in the business and they are always happy to answer any service questions you might have.

Sales/Applications Assistance
Phone: 651-450-5234 (Press 3)
pumpsales@waterousco.com

Service Assistance
Phone: 651-450-5200
Fax: 800-488-1228
service@waterousco.com



RAISING THE BAR ON INNOVATION, RELIABILITY AND SERVICE.

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Accessories & Optional Equipment

The accessories below are available for Waterous CP-2 pumps. For detailed information about these accessories, request each specification sheet by number.

Primer

Select an electric rotary vane primer for fast, reliable priming. F-2418

Pressure Control Systems

Discharge Relief Valve

Simple ON-OFF control permits placing the system in or out of operation in seconds. See Relief Valve, F-897.

Intake Relief Valves

The Waterous intake relief valve is designed to dump excess pressure from the inlet side of the pump. See Intake Relief Valves, F-2192.

Corrosion Protection

Waterous offers replaceable zinc intake screens and anodes to provide corrosion protection. These items are designed to sacrifice the zinc element to galvanic corrosion. Without this protection, galvanic corrosion may damage the iron pump body and fittings.

Pump Specifications

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.

Overheat Protection Manager

The OPM consists of an illuminated warning light on the operator's panel whenever the pump approaches an overheat condition. F-2422

Drain Valves

Drains all points of the pump simultaneously with the operation of a single control. F-1158

Discharge Valves

The following Waterous ball-type discharge valves are available: 2-1/2 inch, 3-1/2 inch, rack and sector push-pull, worm gear and electric. Chrome-plated brass ball and hydraulically-balanced seal assembly standard. See Discharge Valves, F-1161.

Tachometer

Tachometer drive available; operates at 1/2 input shaft speed.

Five-Year Limited Warranty with Total Protection Package (TPP-5)

The Five-Year Limited Warranty with Total Protection Package is a comprehensive warranty that increases your standard warranty to include labor expenses to dismantle, remove and reinstall covered products or parts, F-2626.

Transmission Specifications



K Series

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

Housings: Close-grained, gray iron

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

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: Close-grained, gray iron

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.