

SPECIFICATIONS – PTO DRIVEN: MODEL CP-3

Meets NFPA 1901 for 500 GPM Rating



The CP-3's wide range of performance options also allow you to use it as an auxiliary pump to provide "booster" service on an apparatus that has a rated midship pump, or as the only pump on a mini-pumper, tanker, brush truck or special purpose vehicle. In a suitable chassis, booster applications can be piped in series with a rated midship single or two-stage pump to provide pressure up to 1000 psig (69 bar).

CP-3 Pump Performance								
Capacity	Parallel / Series	FLOW			PRESSURE			
		GPM	l/min	l/sec	PSI	bar	kPa	MPa
High Capacity	Parallel	500	2000	30	150	10	1000	1.0
	Series	60	200	3	500	34	3400	3.4
High Pressure	Parallel	150	600	10	150	10	1000	1.0
	Series	60	200	3	800	55	5500	5.5
Medium Capacity	Parallel	275	1000	17	10	10	1000	1.0
	Series	60	200	3	41	41	4100	4.1

(With three impeller set options available, Waterous can furnish any one of the above typical capacity/pressure ratings.)

Note: Pump performance may be limited by PTO/engine or truck transmission rating.

Pump Features

- One-piece, high-tensile, close-grained iron body (bronze optional).
- Bronze, hydraulically and mechanically balanced impeller
- Bronze replaceable wear rings
- Separable Impeller Shaft
- Mechanical Seal
- 4-inch T-adapter intake
- Two 2-inch or 2-1/2-inch NTP tee adapter or 2-1/2-inch tapped flange discharge
- Available in either rotation of input shaft
- Bronze transfer valve with push-pull manual operation



CPK-3 Shown

Approximate Weight and Dimensions

Length (in/cm)	Width (in/cm)	Height (in/cm)	Weight (lb/kg) (Includes Oil)
26.69 (67.8)	15.8 (40.3)	25.2 (64.1)	185 (84)

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
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RAISING THE BAR ON INNOVATION, RELIABILITY AND SERVICE.

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Accessories & Optional Equipment

The accessories below are available for Waterous CP-3 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:

One-piece high-tensile, close-grained gray iron (bronze optional).

Impeller:

Bronze, hydraulically and mechanically balanced rotation.

Wear Rings:

Bronze, replaceable wear ring

Separable Impeller Shaft:

Allows separation of pump from transmission for ease of serviceability.

Shaft Seal:

Mechanical Seal is standard.

Intake Connection:

4 inch (10 cm), NPT tee adapter

Discharge Connection:

Two 2 inch or 2-1/2 inch (5 or 6.3 cm) NPT tee adapter or 2-1/2 inch (6.3 cm) tapped flange

Bearings:

Completely ball bearing equipped, oil-splash lubricated.

Rotation:

Available in either rotation of input shaft.

Installation:

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

Transfer Valve:

Bronze in removable bronze housing; push-pull manual operation.

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

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

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