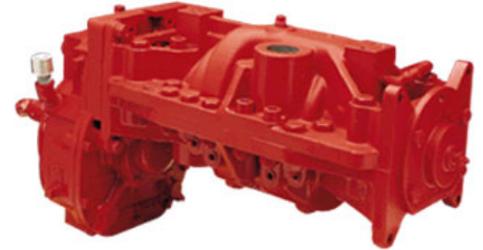




## **SPECIFICATIONS - PTO DRIVEN: MODEL CP-4** **Knock Out Fires Quickly With High Pressure Fog**

This ultra high-pressure performer is a lightweight four-stage centrifugal pump that delivers 60 GPM (227 l/m) at 1000 PSI (69 Bar) or in an ultra-high pressure version (CP-4UH) that delivers 90 GPM (341 l/min) at 1350 PSI (93 bar) to produce high-pressure fog, which can knock out fires quickly while the pumper is either in motion or stationary. The diverse features of the CP-4 pump make it ideal where high-pressure pump performance is required.



### **Design Features:**

The CP-4 can be used either as an auxiliary pump to provide “booster” service on an apparatus that also has a rated midship pump, or as the only pump on a mini-pumper, brush truck or other special purpose vehicle. Especially adaptable to “pump and roll” operation, the CP-4 pump will supply two or more high-pressure booster reels with ultra-high pressure. Ideal for situations where a limited water supply is available and a high pressure fog is desirable for knocking out a fire quickly before it spreads.

Its compact lightweight design and variety of transmission options permit the CP-4 to be mounted on a fully equipped pumper or tanker without requiring excessive space or overloading the chassis. Used this way, the CP-4 becomes an important part of a versatile fire-fighting unit.

The Waterous CP-4 pumps have been carefully engineered and each one is thoroughly tested before shipment. The pump incorporates an integral speed increasing transmission and various gear ratios are available to suit your application.

Quality construction features include quiet, cool-running helical gears; replaceable wear rings; balanced impellers; and grease or oil-lubricated, anti-friction bearings supporting both ends of the impeller shaft and drive shaft.

Because the dependable CP-4 pump has been designed with versatility in mind, and each unit is custom built to fit your particular requirements, it is best to check with a builder of Waterous-equipped apparatus to determine the top performance of this combination with the chassis, engine, and transmission of your choice.

### **Pump Specifications:**

#### **Casings:**

Two-piece, horizontally-split, high-tensile, close-grained, gray iron (bronze optional).

#### **Wear Rings:**

Ni-resist; special “stepped” design to reduce internal leakage and increase efficiency. Replaceable by undersize rings to prolong pump life and minimize maintenance costs.

#### **Impellers:**

Bronze, hydraulically and mechanically balanced - one integrally cast pair for the first and second stages and another for the third and fourth stages. Impeller hubs are “stepped” to minimize internal bypass.

#### **Stuffing Boxes:**

Adjustable braided flexible graphite (BFG) packing.

#### **Rotation:**

Available with either clockwise or counter-clockwise rotation of input shaft.

#### **Bearings:**

All bearings are oil or grease lubricated, anti-friction (ball type), located outside the pump casing to accurately align and support the impeller shaft assembly. Ball bearings are deep-groove type designed to carry both radial and axial thrust.

#### **Intake:**

2” (5 cm) NPT

#### **Discharge:**

1-1/2” (3.8 cm) NPT

### **Industry-Leading Sales and Support**

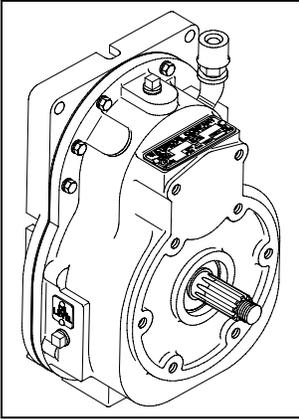
When you purchase Waterous equipment, not only do you get quality products, you get quality service. Our expert service technicians are the best in the business and they are always happy to answer any service questions you might have.

**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

# SPECIFICATIONS - PTO DRIVEN: MODEL CP-4

## Pump Transmissions



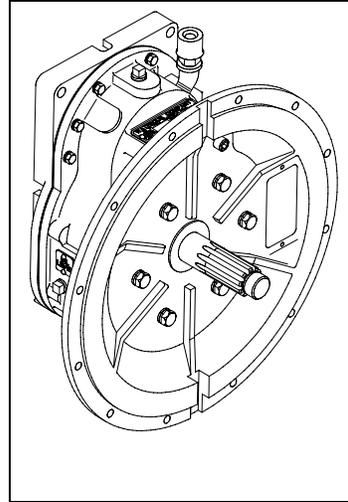
### K Series

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.

## Accessories & Optional Equipment

The accessories below are available for Waterous CP-4 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.

### 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.

## Dimensions and Weights

Measurement	Length		Width		Height		*Weight	
	CPK-4	CPT-4	CPK-4	CPT-4	CPK-4	CPT-4	CPK-4	CPT-4
US <sup>1</sup>	28.438	32.500	10.750	17.750	15.250	18.250	300	300
Metric <sup>2</sup>	72.2	82.5	27.3	45.1	38.7	46.4	136	136

\* Includes oil

<sup>1</sup> US measurements in inches and pounds  
<sup>2</sup> Metric measurements in centimeters and kilograms