

# SPECIFICATIONS – VEHICLE MOUNTED: MODEL CX

Up to 1500 GPM (6000 l/min) Flow Performance



The CX single-stage end-suction pump provides reliable performance from 750 GPM @ 150 PSI (3000 L/min @ 10 bar) and up to 1500 GPM @ 150 PSI (6000 L/min @ 10 bar).

CX Pump Performance						
GPM	l/min	l/sec	PSI	bar	kPa	MPa
750	3000	50	150	10	1000	1.0
1000	4000	65	150	10	1000	1.0
1250	5000	80	150	10	1000	1.0
1500	6000	100	150	10	1000	1.0

## Pump Features

- Two-Piece, vertically-split, high-tensile, close-grained iron (bronze Optional) body.
- Bronze, double-hubbed, balanced impeller. Flame –plating optional.
- Replaceable bronze wear rings to increase pump life.
- Stainless steel impeller shaft supported by oil-lubricated ball bearings.
- Self-adjusting mechanical seal.
- 6" Victaulic Intake (CXV Model)
- 6" Dual Intake "Rams Horn" (CXS Model)
- DIN PN10 150 Flange (CXN Model)

## Warranty

Waterous Five-Year Limited Warranty

## Conditions of Sales

For details on Waterous Condition of Sales, refer to F-2190, *Conditions of Sales* located on the Waterous web site at [www.waterousco.com](http://www.waterousco.com) or by contacting Waterous.



CXVK Shown



CXNK Shown



CXSK Shown

## 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
- 3-1/2" Tank to Pump Valve
- Discharge Valves
- Pneumatic Shift
- Five-Year Limited Warranty with Total Protection Package (TPP-5)
- Tachometer drive, operates at ½ input shaft speed.
- Transmissions Available:
  - C20 Chain Drive (Split-Shaft)
  - P Series Chain Drive (PTO Driven)
  - K Series Gear Driven (PTO Driven)
  - T Series Gear Driven (Direct Engine)
  - QB Series Transmission (PTO Driven)

# SPECIFICATIONS - PTO DRIVEN: MODEL CX

## 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.

**Housing:** Close-grained, gray iron

**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.

**Housing:** Close-grained, gray iron

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



### D Series Direct Drive

Used when a truck transmission mounted power take-off is selected as the pump drive.

**Housing:** High-strength aluminum

### C20 Series

The "C20" series transmission is supplied when the pump is to be midship mounted. Power from the truck's automatic transmission is transmitted to the pump.

**Housing:** High-strength aluminum

**Chain:** Morse HV<sup>®</sup>, high-strength involute chain



### PA Series

PA Series transmission is normally used when a truck transmission mounted power take-off is selected as the pump drive. Designed for use with Allison transmissions with 10-bolt PTO.

**Housing:** High-strength aluminum

**Chain:** Morse HV<sup>®</sup>, high-strength involute chain



### QB Series (CXV Pumps Only)

QB Series transmission is normally used when a truck transmission mounted power take-off is selected as the pump drive. Designed with an 18-1/4" offset.

- Chain Driven
- Aluminum Case
- 1:06 ratio
- 1.750-10 SAE spline with SPL Series 90 End Yoke



## Accessories & Optional Equipment

The accessories below are available for Waterous CX 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.

### 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.

### Intake Connection:

Type	Model	Sizes
Victaulic <sup>®</sup> Intake	CXV	6 inch
Rams Horn Dual Intake	CXS	6 inch
Flange	CXN	DIN PN10 150

**Note:** 6 inch threaded intake available with 3 inch auxiliary intake ports.

## 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