



FOAM SYSTEMS

CAFSystems™

FIRE PUMPS

VEHICLE-MOUNTED PUMP

# CL Series



CLK

Transmission  
Options



CLPA



CLT

The CL Series offers a one-piece design featuring intake and discharge arrangements in a wide variety of options to meet your requirements.

## PERFORMANCE

- 500 GPM (2000 l/min)
- Maximum Pressure: 350 PSI (24 bar)

## AVAILABLE MOUNTING

- Equipped with K Series Gear Drive Transmission, T Series Direct Mount or PA Chain Driven PTO

# SPECIFICATIONS – PTO DRIVEN: MODEL CL

CL Pump Performance							
Rating	GPM	l/min	l/sec	PSI	bar	kPa	MPa
NFPA	500	1900	32	150	10	1000	1.0

## Pump Features

### Casing:

One-piece, high-tensile ductile iron (bronze optional on CLV only).

### Impeller:

Bronze, fully-enclosed, double-hubbed to balance hydraulic thrust, mechanically-balanced to eliminate vibration.

### Wear Rings:

Replaceable wear rings to increase pump life and keep maintenance costs at a minimum.

### 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 (Choice of the Following):

Type	Model	Sizes
Threaded End Intake	CLR	4-inch NH or BSP
Victaulic® Intake	CLV	4-inch

### Discharge Connection:

5-inch discharge flange

### Bearings:

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

## Approximate Weight and Dimensions

(Width & Height dimensions refer to picture shown on front page - less fittings and valves)

Pump/Transmission Model	Intake	Length in/cm	Width in/cm	Height in/cm
CLRK	4 in. NH	18-1/8 (46.0)	15-1/8 (38.4)	21-1/4 (54.0)
	4 in. BSP	18-3/4 (47.6)	15-1/8 (38.4)	21-1/4 (54.0)
CLRT	4 in. NH	18-1/4 (46.4)	17-3/4 (45.1)	24-3/8 (61.9)
	4 in. BSP	18-7/8 (47.9)	17-3/4 (45.1)	24-3/8 (61.9)
CLVK	4 in. Victaulic®	18-3/4 (47.6)	15-1/8 (38.4)	21-1/4 (54.0)
CLVT	4 in. Victaulic®	18-7/8 (47.9)	17-3/4 (45.1)	24-3/8 (61.9)

## Warranty

Waterous Seven-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.

## Optional Equipment

- Priming System, see F-2218
- Pressure Governor, see F-2995
- Pressure Control Systems:
  - Discharge Relief Valves, see F-897
  - Intake Relief Valves (Piloted), see F-2192
  - New Intake Relief Valve (Non-Piloted), see F-2192-N
- Corrosion Protection – Zinc Intake Screens and Magnesium Anodes
- Overheat Protection Manager, see F-2422
- Drain Valves, see F-1158
- Discharge Valves, see F-1161
- Tachometer drive, operates at ½ input shaft speed.
- Transmissions Available:

### K Series (PTO)

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)

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.

### PA Series (PTO)

Housings: Cast aluminum body

Drive Ratios: 1.71, 1.91, 2.05

### Drive & Driven Sprockets

Made of a steel. All sprockets are hardened and have ground bores.

### Drive Chain

High-strength involute form chain.

### Bearings

Anti-friction ball bearings

### Optional Rear Facing Output Shaft

1-3/8-10 SAE spline for Spicer 1280 or 1310 series end yokes

## 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](mailto:pumpsales@waterousco.com)

### Service Assistance

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