



**SPECIFICATIONS - PTO DRIVEN: MODEL CGV**  
**Taking PTO Performance to the Next Level**

The efficient performance and modern design make the CG series pumps outstanding in their class. The combination of single-stage design and vertically-split volute and pump transmission provide a simple to operate, easy to maintain pump. The use of heavy duty gears, bearings and shafts provides longer, more trouble-free service, and a high reserve capacity. Ratings: 500 GPM (1900 L/min) at 150 psi (10.3 bar) to 750 GPM (2850 l/min) at 150 psi (10.3 bar) ratings, or in special ratings up to 1000 GPM (3800 l/min) and pressures to 350 psi (24.1 bar). The CGV is also backed by a standard five-year warranty. An optional Total Protection Package (TPP-5) is available.



**Design Features:**

The efficient performance and modern design make the CGV series pumps outstanding in their class. The combination of single-stage design and vertically-split volute and pump transmission provide a simple to operate, easy to maintain pump. The use of heavy duty gears, bearings and shafts provides longer, more trouble-free service, and a high reserve capacity.

CGV pumps are available with several pump transmission options, most providing pump-and-roll performance, in addition to its unique mounting. The pump may be driven from engine crankshaft (front mounted), power take-off driven, or direct-engine driven (bellhousing mounted).

CGV pumps are available with either threaded or Victaulic® intake connections. Threaded intake connections are available in three popular sizes. The CGV can also be used with a Victaulic® intake and discharge fittings for crash truck or fire boat use.

CGV pumps are available with an optional 4" Victaulic® discharge. Available in either clockwise rotation or counterclockwise rotation.

Factory installed and tested accessories are available as options to tailor the CGV pump to your needs.

**Pump Specifications:**

**Casing:**

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

**Impeller:**

Bronze impeller specifically designed for the fire service, double-hubbed to eliminate axial thrust, and accurately balanced for vibration-free running. Impellers with flame-plated hubs for extreme wear resistance are optional.

**Wear Rings:**

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

**Impeller Shaft:**

Stainless steel, heat treated, precisely ground to size, and polished under shaft seal. Supported by oil lubricated ball bearings.

**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.

**Shaft Seal:**

A face-type, self-adjusting, corrosion and wear resistance mechanical seal is standard.

**Intake Fittings – Choice of the Following:**

Type	Model	Sizes
Threaded End Intake	CGVR	4, 4-1/2 and 5 inch
Victaulic® Intake	CGV	5 inch

**Note: 4-1/2 inch threaded end intake available with either 2-1/2 inch or 3 inch auxiliary intake ports. All other fittings available with 2-1/2 inch auxiliary intake ports only. No auxiliary taps available on CGV pump.**

**Industry-Leading Sales and Support**

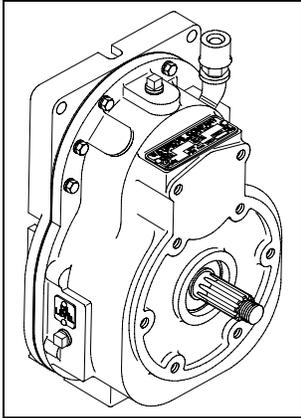
When you purchase Waterous equipment, not only do you get quality products, you get quality service. Our expert service technicians are the best in the business and they are always happy to answer any service questions you might have.

**Sales/Applications Assistance**  
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## SPECIFICATIONS - PTO DRIVEN: MODEL CGV

### Pump Transmissions

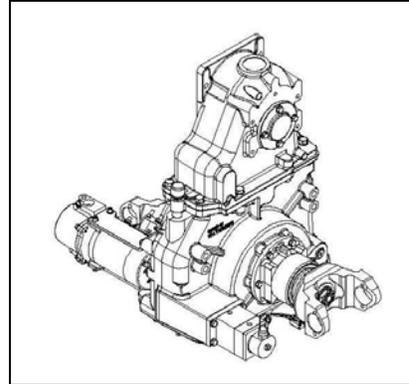


#### K Series

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.

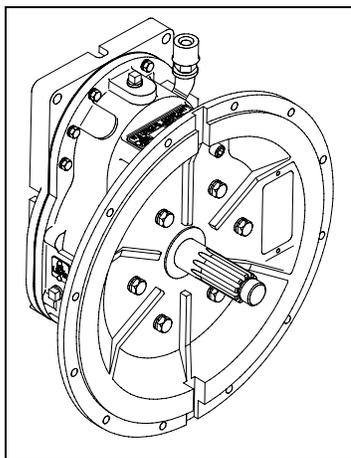


#### C20 Series

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



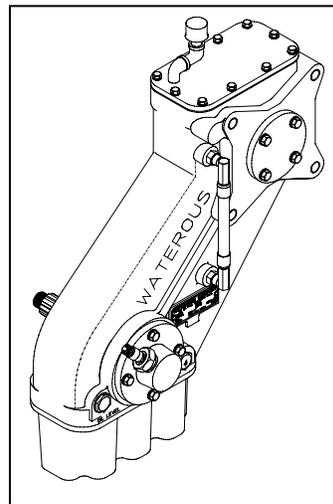
#### T Series

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.



#### 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

### Accessories & Optional Equipment

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

#### Total Protection Package (TPP-5)

The 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.

#### 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.