



# Data Sheet

Form No.	Issue Date	Rev. Date
DS-1005	04/19/96	10/29/13

## WATEROUS CG SERIES PUMPS

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### DESCRIPTION: SINGLE STAGE CENTRIFUGAL FIRE PUMP

#### *WATEROUS CG SERIES CENTRIFUGAL FIRE PUMPS ARE AVAILABLE AS FOLLOWS:*

- CGV** 5 inch Victaulic® intake  
3 inch flanged discharge (optional 4 inch Victaulic® fitting available)  
(CW or CCW input rotations)
- CGVR** 4, 4-1/2 or 5 inch NH threaded intake,  
3 inch flanged discharge (optional 4 inch Victaulic® fitting available)  
(CW or CCW input rotations)
- CGVG** Crosspipe intake for midship mounting, standard (section 1) intake fittings may be mounted,  
See data sheet DS-4003  
3 inch flanged discharge (optional 4 inch Victaulic® fitting available)  
(CW input rotation only)

#### **CAPACITIES AND RATINGS:**

500 GPM (1893 L/min) at 150 psi (10.3 bar) net pressure

750 GPM (2839 L/min) at 150 psi (10.3 bar) net pressure

1000 GPM (3785 L/min) at 150 psi (10.3 bar) net pressure with flooded intake

Refer to performance sheets in this section of the Engineering Manual for performance data.

Test Pressure Limits: Hydrostatic - Cast iron body, 500 PSIG (34.5 bar)  
Bronze body, 500 PSIG (34.5 bar)

Running - 350 PSIG (24.1 bar) maximum discharge pressure

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### SPECIFY A COMPLETE PUMP AS FOLLOWS:

#### 1.) VEHICLE INFORMATION

(See order form)

#### 2.) PUMP INFORMATION

##### Rated Capacity-

U.S. GPM:	500, 750, 1000
L/min.:	2000, 3000, 4000
Imperial GPM:	410, 620, 840

##### Certification-

NFPA or list other

##### Additional (Dual) Rating-

List capacity of dual rating if required

#### 3.) PUMP MODEL

##### Complete Pump/Transmission Model-

See table on page 6 and 7

##### Material-

Standard - Cast iron body and fittings, bronze fitted

Optional- Bronze body and fittings

(See form F-2011 for additional information on materials)

#### 4.) TRANSMISSIONS

4a.) **C20 Series-** See data sheet DS-2006

4b.) **K Series-** See data sheet DS-2000

4c.) **PA Series-** See data sheet DS-2004

4d.) **T Series-** See data sheet DS-2001

4e.) **WB Series-** See data sheet DS-2002

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### 5.) IMPELLER SHAFT

#### Shaft Material-

Standard: 17-4 Stainless steel

Optional: K500 Monel (available with K and T transmissions only)

#### Seal Type-

Standard: Self-adjusting mechanical seal

#### Impeller Part No.-

##### Flame Plating-

Standard - Without

Optional - With

##### Part Number-

71887 (Clockwise input rotation)

71899 (Counter-clockwise input rotation)

### 6.) PRESSURE CONTROL SYSTEM

**6a.) Discharge Relief Valve System-** See data sheet DS-4004

**6b.) Intake Relief Valve-** See data sheet DS-4004

### 7.) INTAKE

#### 7a.) CGVR Intake-

##### Size-

4 NH, 4-1/2 NH or 5 NH

##### Side Taps-

2-1/2 NPT or 3 NPT (3 NPT available with 4-1/2 size only)

##### Intake Screen-

Size: 4 in., 4-1/2 in. or 5 in.

Material: Zinc or brass

#### 7b.) CGV Intake-

##### Size-

5 in. Victaulic®

##### Intake Screen-

Size: 5 in.

Material: Zinc or brass

(Note: Side taps are not available on CGV)

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### 7c.) CGVG Intake-

#### **Crosspipe for Midship Mounting-**

Intake extensions (use for wider panel widths)

Standard: Without

Optional: Left Side - 1 in., 2 in., 4 in.

Right Side - 1 in., 2 in., 4 in.

#### **Left and Right Intake Fittings -**

Select a fitting to be mounted on the pump plus any auxiliary fittings mounted on the main fitting pads.

Also select an intake screen if required.

See data sheet DS-4003

### 8.) DISCHARGE

#### 8a.) CGV, CGVR, CGVG Discharge-

##### **Fitting-**

Standard: Blank (no fitting), pump has 3 in. flange

Optional: 4 in. Victaulic® fitting

#### 8b.) Additional Discharge Valves-

List all valves to be shipped loose

See data sheet DS-4000

#### 8c.) Discharge Valve Accessories-

List any control rods, panel items, etc.

See data sheet DS-4000

### 9.) PRIMING SYSTEM

9a.) Priming Pump- See data sheet DS-4002

9b.) Priming Valve- See data sheet DS-4002

9c.) Priming Tank- See data sheet DS-4002

9d.) Prime-Safe Lubricant- See data sheet DS-4002

### 10.) FOAM SYSTEM

10a.) Foam Manager- See data sheet DS-4010

10b.) Foam Manager Accessories- See data sheet DS-4010

### 11.) DRAIN VALVE

See data sheet DS-4006

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### 12.) MISCELLANEOUS

**12a.) Additional Fittings-** List any additional discharge and auxiliary fittings which are to be shipped loose

See data sheet DS-4001

**12b.) Other Items-** List any miscellaneous items such as Monarch BFV items, kits as required

See data sheet DS-4009

### 13.) SPECIALITY ITEMS

**13a.) Warranty-** See data sheet DS-4008

**13b.) Paint-** See data sheet DS-4008

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### AVAILABLE MODELS:

Table 1. CG Series Pumps

Capacities and Ratings	Basic Pump Model	Available Drives				Complete Pump/Trans Model	Assembly No.	Drawing
		Trans Series	Trans Type	Trans Model	Driveline Size			
500, 750, 1000 GPM at 150 psi	CGV	C20	Split-Shaft, Chain Drive	C20B, C20C, C20D, C20E, C20F	2.35-46T Involute	CGVC20B, CGVC20C, CGVC20D, CGVC20E, CGVC20F	82056	DPL82056
		K	Two-Gear No Clutch	Heavy Duty K	1-3/8-10 SAE	CGVK		
		P	PTO Chain Drive	PA	1-1/2-10 SAE	CGVPA		
		T	Direct Engine Mount	Heavy Duty T	1-3/4-10 SAE	CGVT		
	CGVR	K	Two-Gear No Clutch	Heavy Duty K	1-3/8-10 SAE	CGVRK	82906	DPL82906
		T	Direct Engine Mount	Heavy Duty T	1-3/4-10 SAE	CGVRT		
	CGVG	C20	Split-Shaft, Chain Drive	C20B, C20C, C20D, C20E, C20F	2.35-46T Involute	CGVGC20B, CGVGC20C, CGVGC20D, CGVGC20E, CGVGC20F	82906	DPL82906
		W	Split-Shaft, Chain Drive	WB	1-3/4-10 SAE	CGVGWB	82906-1	
				WBX	2 in.-10 SAE	CGVGWBX		
		K	Two-Gear No Clutch	Heavy Duty K	1-3/8-10 SAE	CGVGK	82906-2	
	P	PTO Chain Drive	PA	1-1/2-10 SAE	CGVGPA	82906-3		