



Data Sheet

Form No.	Issue Date	Rev. Date
DS-1005	04/19/96	1/31/23

WATEROUS CG SERIES PUMPS

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.) C22 Series- See data sheet DS-2009

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

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

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

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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	Drawing
		Trans Series	Trans Type	Trans Model	Driveline Size		
500, 750, 1000 GPM at 150 psi	CGV	C22	Split-Shaft, Chain Drive	C22B, C22C, C22D, C22E, C22F	2.35-46T Involute	CGVC22B, CGVC22C, CGVC22D, CGVC22E, CGVC22F	DPL83917
		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	
		T	Direct Engine Mount	Heavy Duty T	1-3/4-10 SAE	CGVRT	
	CGVG	C22	Split-Shaft, Chain Drive	C22B, C22C, C22D, C22E, C22F	2.35-46T Involute	CGVGC22B, CGVGC22C, CGVGC22D, CGVGC22E, CGVGC22F	
		K	Two-Gear No Clutch	Heavy Duty K	1-3/8-10 SAE	CGVGK	
		P	PTO Chain Drive	PA	1-1/2-10 SAE	CGVGPA	