



Data Sheet

Form No.	Issue Date	Rev. Date
DS-1003	04/19/96	10/29/13

WATEROUS CP-3 SERIES PUMPS

DESCRIPTION: TWO-STAGE SERIES/PARALLEL CENTRIFUGAL FIRE PUMP

CAPACITIES AND RATINGS:

- High Capacity** 500 GPM at 150 psi net pressure
 60 GPM at 500 psi net pressure
 500 GPM at 150 psi (only with a transmission gear ratio of 3.40:1 or less, and with 4 inch intake and 2-1/2 inch discharge piping)
- High Pressure** 150 GPM at 150 psi net pressure
 60 GPM at 800 psi net pressure
- Medium Capacity** 275 GPM at 150 psi net pressure
 60 GPM at 600 psi net pressure

NOTE: Serial plate will be stamped with capacity shown for each range unless otherwise specified.

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

Test Pressure Limits: Hydrostatic – Iron and Bronze, 1000 psi
 Running – High capacity: 600 psi maximum discharge pressure
 High pressure: 900 psi maximum discharge pressure
 Medium capacity: 750 psi maximum discharge pressure

CP-3 PUMPS ARE AVAILABLE AS FOLLOWS:

Table 1. CP-3 Pumps

Basic Model	Intake	Discharge	Input Rotation	Available Drives				Complete Pump/Trans Model	Assy No.	Drawing
				Trans Series	Mounting	Type	Model			
CP-3	4 in. NPT Tee Adapter	2 in. or 2-1/2 in. NPT Tee Adapter, 2-1/2 NPT Tapped Flange or Customer Furnished	CW or CCW	K	PTO or Front	Two-Gear no Clutch	Medium Duty K	CPK-3	81756	DPL81756
			CW or CCW	T	Direct Engine	Two-Gear no Clutch	Medium Duty T			

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WATEROUS CP3-500 SERIES PUMPS

SPECIFY A COMPLETE PUMP AS FOLLOWS:

1.) VEHICLE INFORMATION

(See order form)

2.) PUMP INFORMATION

Rated Capacity-

U.S. GPM: 150, 275, 500

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 1

Material-

Standard - Cast iron body and fittings, bronze fitted

Optional- Bronze body and fittings

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

Pump Discharge Position-

Up only available

4.) TRANSMISSIONS

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

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

5.) IMPELLER SHAFT

Shaft Material-

416 Stainless steel

Seal Type-

Self-adjusting mechanical seal

Impeller Part No.-

500 GPM (High capacity): 70966-1, 70967-1

150 GPM (High pressure): 72244-1, 72245-1

275 GPM (Medium capacity): 70966-1, 72244-1

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6.) TRANSFER VALVE ACTUATOR

Position-

Standard, Position A (Parallel to impeller shaft)

Optional, Position B (Perpendicular to impeller shaft)

7.) PRESSURE CONTROL SYSTEM

7a.) Discharge Relief Valve System- See data sheet DS-4004

7b.) Intake Relief Valve- See data sheet DS-4004

8.) INTAKE

Fitting Type-

4 in. NPT tee

Intake Screen-

Size: 2-1/2 in. 3-1/2 in., 4 in., 5 in., 6 in.

Material: Zinc or brass

9.) DISCHARGE

9a.) Discharge Type/Size-

15/16" Spacer-

With or without

Fitting-

2 in. NPT flange

2-1/2 in. NPT flange

2 in. NPT tee

2-1/2 in. NPT tee

Blank (no fitting)

Auxiliary 1-1/2 in. NPT Top Tap-

With or without

(Available on tee fittings only)

9b.) Additional Discharge Valves-

List all valves to be shipped loose

See data sheet DS-4000

8e.) Discharge Valve Accessories-

List any control rods, panel items, etc.

See data sheet DS-4000

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WATEROUS CP3-500 SERIES PUMPS

10.) PRIMING SYSTEM

- 10a.) **Priming Pump**– See data sheet DS-4002
- 10b.) **Priming Valve**– See data sheet DS-4002
- 10c.) **Priming Tank**– See data sheet DS-4002
- 10d.) **Prime-Safe Lubricant**– See data sheet DS-4002

11.) FOAM SYSTEM

- 11a.) **Foam Manager**– See data sheet DS-4010
- 11b.) **Foam Manager Accessories**– See data sheet DS-4010

12.) DRAIN VALVE

See data sheet DS-4006

13.) MISCELLANEOUS

- 13a.) **Additional Fittings**– List any additional discharge and auxiliary fittings which are to be shipped loose
See data sheet DS-4001
- 13b.) **Other Items**– List any miscellaneous items such as Monarch BFV items, kits as required
See data sheet DS-4009

14.) SPECIALITY ITEMS

- 14a.) **Warranty**– See data sheet DS-4008
- 14b.) **Paint**– See data sheet DS-4008