



# Data Sheet

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

## 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

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### ***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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### 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