



Data Sheet		
Document Number <b>DS-1022</b>	Issue Date <b>12/10/14</b>	Rev. Date <b>11/19/21</b>

## WATEROUS CRU SERIES PUMP

### DESCRIPTION: SINGLE STAGE CENTRIFUGAL FIRE PUMP

#### *CRU-1 AND CRU-2 PUMPS ARE AVAILABLE AS FOLLOWS:*

Table 1. Capacities and Ratings

Series	Capacity and Rating (1)	
	U.S. GPM	Liters/Minute
CRU-1	2650 GPM at 250 psi	10031 L/min. at 17.2 bar
	3000 GPM at 100 psi	11355 L/min at 6.9 bar
CRU-2	2500 GPM at 150 psi	--
	3000 GPM at 100 psi	11355 L/min at 6.9 bar
	3000 GPM at 150 psi (Non-NFPA)	--
	3500 GPM at 100 psi	13249 L/min at 6.9 bar
	4000 GPM at 100 psi	15140 L/min at 6.9 bar
	4000 GPM at 150 PSI (Non-NFPA)	--

Table 2. Available Models

Series	Intake	Discharge	Input Rotation	Mounting	Complete Pump/Transmission Model	Drive	Dimensional Drawing
CRU-1	8 in. ANSI Flange	5 in. Victaulic®	CW	Pedestal (brackets on bearing housing and intake side)	CRU-1	Direct Drive	DPL83429
CRU-2	10 in. Victaulic	6 in. ANSI Flange	CW	Pedestal (brackets on bearing housing and intake side)	CRU-2	Direct Drive	DPL83400
				Mounting Pads on Transmission and intake side	CRUC21-2	C21 Series Chain Drive Transmission	DPL83465
					CRUQC-2	QC Series Chain Drive Transmission	DPL83401

#### Notes:

1. Consult Waterous Company for additional capacity and rating information if needed.
2. Priming, relief valve and intake pressure measurement location provisions are not provided on the pump.

***SPECIFY A COMPLETE PUMP AS FOLLOWS:***

**1. VEHICLE INFORMATION**

(See Order Form)

**2. PUMP INFORMATION**

**Rated Capacity:**

See Table 1 on Page 1

**Hydrostatic Testing:**

500 PSI

**Certification:**

NFPA or list other if required

**Additional (Dual) Rating:**

List capacity of dual rating if required

**3. PUMP MODEL**

**Complete Pump/Transmission Model**

See Table 2 on Page 1

**Material**

Standard – Cast iron body and fittings

Optional – Bronze body and fittings (CRU-1 only)

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

**Pump Discharge Adapter**

Optional – 5 in. Victaulic-to-Flange Adapter (CRU-1 only)

**4. Pump Discharge Position**

Model			
CRU-1	CRU-2	CRUC21-2	CRUQC-2
Up	Up	Up	Up
Left	Left	Left	Left
-	Right	Right	Right
-	Down	-	-

**5. Pump Intake Side Mounting Bracket Position:**

Series	
CRU-1	CRU-2
Vertical	Vertical
Inverted	Inverted

**6. Bearing Housing Bracket Position (Direct Drive Only):**

Model	
CRU-1	CRU-2
Vertical	Vertical
Inverted	Inverted

**7. TRANSMISSIONS**

**a. Direct Drive (Model CRU-1 & CRU-2)**

Input Rotation: Clockwise

Input Shaft: 1-3/4-10 SAE Spline

1600/1610 Series – Part No. 61320

**b. C21 Series (Model CRUC 21-2)**

Input Rotation: Clockwise

Input Shaft: 2.35" – 46T Involute Spline

Ratio: 1.77 or 1.95

Optional Companion Flange: See Data Sheet DS-2008

**c. QC Series (Model CRUCQ-2)**

- Input Rotation: Clockwise
- Input Shaft: 1-3/4-10 Spline
- Pump Mounting on Transmission:  
Front (Input Shaft) Side or  
Rear (Output Shaft) Side
- Included Companion Flange: 1600/1610 Series – Part No. 61320
- Mounting: Vertical, Vertical Rotated 45-deg. Clockwise or Inverted
- SAE No. 2 Bellhousing Adapter:  
With or Without  
(Drive Plate for No. 11-1/2 Clutch  
Included when Ordered)
- Ratio:  
Without Bellhousing Adapter: 1.14, 1.31, 1.46, 1.58  
With Bellhousing Adapter: 1.61, 1.83, 2.10

## 8. IMPELLER SHAFT

Shaft Material: 17-4 Stainless Steel

Seal Type: Self-adjusting mechanical seal

## 9. PRESSURE CONTROL SYSTEM

- a. **Discharge Relief Valve:** See Data Sheet DS-4004
- b. **Intake Relief Valve:** See Data Sheet DS-4004

## 10. INTAKE

- a. **Intake Size:**
  - CRU-1: 8 in. ANSI Flange
  - CRU-2: 10 in. Victaulic®
  - Optional O-ring for CRU-1 Flange  
Order Part No. W37156-4  
(9-3/4 x 10 in. x 1/8)

## 11. DISCHARGE

- a. **Discharge Size:**
  - CRU-1: 5 in. Victaulic®
  - CRU-2: 6 in. ANSI Flange
- b. **Additional Discharge Valves:**

List all valves to be shipped loose  
See Data Sheet DS-4000
- c. **Discharge Valve Accessories:**

List any control rods, panel items, etc.  
See Data Sheet DS-4000

## 12. PRIMING SYSTEMS

- a. **Priming Pump:** See Data Sheet DS-4002
- b. **Priming Valve:** See Data Sheet DS-4002
- c. **Priming Tank:** See Data Sheet DS-4002
- d. **Prime-Safe Lubricant:** See Data Sheet DS-4002

## 13. DRAIN VALVE

See Data Sheet DS-4006

## 14. MISCELLANEOUS

- a. **Additional Fittings:** List any additional discharge and auxiliary fittings which are to be shipped loose.
- b. **Other Items:** List any miscellaneous items such as Monarch BFV items, kits as required. See Data Sheet DS-4009.

## 15. SPECIALITY ITEMS

- c. **Warranty:** See Data Sheet DS-4008
- d. **Paint:** See Data Sheet DS-4008.