

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.