



Data Sheet

Form No.	Issue Date	Rev. Date
DS-1011	04/19/96	DJD

WATEROUS MODEL CR SERIES FIRE PUMPS

SINGLE STAGE CENTRIFUGAL FIRE PUMPS

Available as follows:

Pump Model	Rating	Intake	Discharge	Available Drives			Complete Pump and Transmission Model	Dimensional Drawing	
				Input		Transmission Series			Includes
				Shaft	Rotation				
CR	2000 gpm at 225 psi	8 in. Victaulic®	5 in. Victaulic®	1-3/4-10 SAE Splined Shaft	CW	Direct	-	CR	DPL81747
						QA Series Transmission	1550 Series End Yoke	CRQA	DPL82332
						QB Series Transmission	SPL90 Series End Yoke	CRQB	DPL83119
						QC Series Transmission	1480/1550 Series Companion Flange	CRQC	DPL83453
CRU-1	See Table 1 on Page 3	8 in. ANSI Flange	5 in. Victaulic®	1-3/4-10 SAE Splined Shaft	CW	Direct	-	CRU-1	DPL83429
CRU-2	See Table 1 on Page 3	10 in. Victaulic®	6 in. ANSI Flange	1-3/4-10 SAE Splined Shaft	CW or CCW	Direct	-	CRU-2	DPL83935
					CW or CCW	QC Series Transmission	1600/1610 Series Companion Flange	CRUQC-2	
					CW	C23 Series Transmission	-	CRUC23-2	

Notes:

1. Consult Waterous Company for additional capacity and rating information if needed.
2. Input rotation is viewed looking at the splined input shaft.
3. Provisions for relief valve and intake pressure measurements are not provided on the pump.

Specify a Complete Pump as follows:

1. VEHICLE INFORMATION

See Order Form

2. MODEL

Complete Pump and Transmission from table above.

3. PUMP MATERIAL

Iron or Bronze

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

4. PUMP DISCHARGE POSITION

Model CR:

Up, Left, Right or Left 25° Below Horizontal

Model CRQA:

Up, Left or Right

Models CRQB and CRQC:

Up only available

Model CRU-1:

Up or Left

Model CRU-2:

Up, Left, Right or Down

Model CRUQC-2:

Up, Left or Right

Model CRUC23-2:

Up, Left or Right

5. PUMP DISCHARGE FITTING

All CR Models:

Standard: 5 in. Victaulic® Adapter

Optional: Open 5 in. ANSI Flange for OEM fabricated fitting

All CRU-1 Models:

5 in. Victaulic

All CRU-2 Models:

6 in. ANSI Flange

6. PUMP INTAKE SIDE BRACKET POSITION

Model CR:

Vertical or Inverted

Model CRQA:

Vertical or Inverted

Model CRQB:

Not Applicable

Model CRQC:

Vertical or Inverted

All CRU-1 Models:

Vertical or Inverted

All CRU-2 Models:

Vertical or Inverted

7. BEARING HOUSING BRACKET POSITION

Model CR:

Vertical or Inverted

Models CRQA, CRQB and CRQC:

Not Applicable

Model CRU-1:

Vertical or Inverted

Model CRU-2:

Vertical or Inverted

Models CRUQC-2 and CRUC23-2:

Not Applicable

8. TRANSMISSION MOUNTING POSITION

Model CR:

Not Applicable

Model CRQA:

Vertical (See Drawing DPL82332)

Model CRQB:

Horizontal or Horizontal Rotated 11° Clockwise

Model CRQC:

Vertical or Vertical Rotated 45° Clockwise

Horizontal, Rotated 11°

(See Drawing DPL83453)

Model CRU-1:

Not Applicable (See DPL83429)

Model CRU-2:

Not applicable

Model CRUQC-2:

Vertical or rotated 45°

And CRUC23-2:

Vertical (See SPL83935)

9. TRANSMISSION RATIO

Model CR:

Not Applicable

Model CRQA:

1.00

Model CRQB:

1.06

Model CRQC:

Case Mounting:

Without Bellhousing Adapter:

Vertical: 1.14, 1.31, 1.46, 1.58

Vertical (Rotated 45° CW): 1.14, 1.46

With Bellhousing Adapter (SAE No. 2, with or without Drive Plate for No. 11-1/2 Clutch Included when Ordered):

Vertical: 1.83, 2.10

Inverted: 1.83, 2.10

Model CRU-1:

Not Applicable

Model CRU-2:

Not Applicable

Model CRUQC-2:

Without Bellhousing Adapter:

Vertical: 1.14, 1.31, 1.46, 1.58

Vertical (Rotated 45° CW): 1.14, 1.46

With Bellhousing Adapter (SAE No. 2, with or without Drive Plate for No. 11-1/2 Clutch Included when Ordered):

Vertical: 1.61, 1.83, 2.10

Inverted: 1.61, 1.83, 2.10

Model CRUC23-2:

Vertical: 1.77, 1.95

10. PRESSURE CONTROL SYSTEM

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

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

11. PRIMING SYSTEM

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

DRAIN VALVE

See Data Sheet DS-4006

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. Data Sheet DS-4009.

SPECIALTY ITEMS

a. Warranty: See Data Sheet DS-4008

b. Paint: See Data Sheet DS-4008

Table 1. Capacities and Ratings

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