



# Data Sheet

Form No. <b>DS-2010</b>	Issue Date <b>12/7/22</b>	Rev. Date
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## WATEROUS C23 SERIES CHAIN DRIVE TRANSMISSION

**DESCRIPTION: SPLIT SHAFT CHAIN DRIVE FIRE PUMP TRANSMISSIONS**

**C23 SERIES TRANSMISSIONS ARE AVAILABLE AS FOLLOWS:**

*Table 1. C23 Series Transmissions*

Model	Drop Dimension	Driveline				For Pumps Rated	Used on Pump Models	Dim. Drawing
		Type	Size	Spline	Chain Width			
C23	<u>1.77 Ratio</u> 16.900 in. 429.26 mm  <u>1.95 Ratio</u> 17.260 in. 438.40 mm	Extra Heavy Duty	2.35 in.	2.35-46T Involute	3 in.	4000 gpm (15,141 L/min), 3500 gpm (13,248 L/min), 3000 gpm (11,355 L/min), 2500 gpm (9,463 L/min)	CRU-2	DPL83935

**SPECIFY A COMPLETE C23 SERIES TRANSMISSION AS FOLLOWS:**

### RATIO

1.77 or 1.95

### PUMP MOUNTING ON TRANSMISSION

Rear (Input Shaft Side)

Front (Output Shaft Side)

### HYDRAULIC PUMP MOUNTING PROVISION ON BACK SIDE OF TRANSMISSION (CHOICE OPTIONAL)

SAE Class C 4-Bolt with 1-1/4-14T, 12/24 Internal Spline

### TACHOMETER

Not Offered

### PUMP SHIFT

See data sheet, DS-4005

### DRIVELINE

Size: 2.35-46T, 20/40 DP, 37-1/2 degree involute spline  
 19,000 ft-lb (25,840 N·m) maximum torque  
 Compatible with 2-25/64-46T (2.35-46T) internal involute spline

Type: Standard: Input and output shaft  
 Optional: Input shaft only

Maximum Input Shaft Speed: 4000 RPM

Optional End Yokes and Companion Flanges: See table on next page.

## DATA SHEET

### WATEROUS C23 SERIES CHAIN DRIVE TRANSMISSION

Optional Driveline End Yokes and Companion Flanges								
Type	U-Joint Series	Pilot Diameter	Waterous Part No.	Optional End Yoke Cross and Bearing Kit <i>(See Note 1)</i>	Mates with Spicer Flanged Yokes <i>(Not available from Waterous)</i>		Qty Required for Driveline Type	
					Series	Spicer Part No.	Input and Output Shaft	Input Shaft Only
End Yoke, BP <i>(Bearing Plate Type)</i>	1710	-	V 2837	V 2839	-	-	2	1
	1810	-	V 2838	V 2840				
	SPL 140	-	V 3388	V 3389				
End Yoke, HR <i>(Half Round Type)</i>	1810	-	V 4102	Uses Spicer 5-675X <i>(Not available from Waterous)</i>				
Companion flange	ISO 8667 <i>(Serrated)</i>	-	63714	-	-	-		
	1710/1810	7.750	V 3619	-	SPL 90	90-2-69-1		
					SPL 140	140-2-29		
					SPL 170	170-2-19		
					SPL 250	250-2-19		
					1610	5-2-619		
					1710 BP	6-2-749		
					1710 HR	6-4-4771-1		
					1810 BP	6.5-2.239		
	1810 HR	6.5-4-2541-1						
	1480/1610	6.625	V 3719	-	SPL 90	90-2-19		
					1480	3-2-499		
					1550	4-2-689		
					1610	5-2-629		

**Note:**

- 1) Cross and Bearing Kits are shipped loose.