



Data Sheet

Form No.	Issue Date	Rev. Date
DS-2008	04/25/14	3/8/21

WATEROUS C21 SERIES CHAIN DRIVE TRANSMISSION

DESCRIPTION: SPLIT SHAFT CHAIN DRIVE FIRE PUMP TRANSMISSIONS

C21 SERIES TRANSMISSIONS ARE AVAILABLE AS FOLLOWS:

Table 1. C21 Series Transmissions

Model	Drop Dimension	Driveline				For Pumps Rated	Used on Pump Models	Dim. Drawing
		Type	Size	Spline	Chain Width			
C21	16.900/ 429.26	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	DPL83409

SPECIFY A COMPLETE C21 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 CONNECTION

Standard: Without tachometer

Optional: Electronic

Optional Electronic Tachometer Cable: Yes or No

PUMP SHIFT

See data sheet, DS-4005

DRIVELINE

Size: 2.35-46T, 20/40 DP, 37-1/2 degree involute spline
16,000 ft-lb (21,760 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: 3300 RPM

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

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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>	1710	-	V 4101	Uses Spicer 5-675X <i>(Not available from Waterous)</i>	-	-	2	1
	1810	-	V 4102					
Companion flange	ISO 8667 <i>(Serrated)</i>	-	63714	-	-	-	2	1
	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.