



Data Sheet

Form No.	Issue Date	Rev. Date
DS-2001	04/19/96	2/10/20

Waterous T Series Two-Gear Fire Pump Transmissions For Mounting on an Engine Bellhousing

SAE Flywheel for driving ring-type over center clutch per SAE J620

Available K Series Transmissions

Transmission			Helical Gear Data			For Pumps Rated	Available		Available on Pump Models
Type	Model	Duty	Pitch	Face Width	Center Distance		Bellhousing Adapters	For Clutch No.	
Two-Gear Speed Increaser for Direct Engine Mounting	T	Medium	12	1-1/2 in.	4-19/32 in. 116.69 mm	500 GPM (1893 L/min) or Less	SAE No. 3	10	CLR, CLV CP-2, CP-3 CP-4, CP-4UH
							SAE No. 4	11-1/2	
								7-1/2	
		SAE No. 5	8	6-1/2					
			10						
			10						
Heavy	8	1-5/8 in.	4-19/32 in. 116.69 mm	500 GPM (1893 L/min) or Less	SAE No. 2	10	CGV, CGVR CXN, CXS, CXV		
					SAE No. 3	11-1/2			
						10			
SAE No. 4	11-1/2	11-1/2							
	11-1/2								

Specify a complete Transmission as follows:

Transmission Model:

Add T Transmission model to desired pump model listed in table above.

Examples: CLRT, CPT-2, CGVT, CXVT

Case Mounting Position:

Transmission Duty	Mounting Position			
	Vertical	Inverted	Horizontal	
			Left Side	Right Side
Medium	X	X	X	X
Heavy	X	X	Not Available	

Note: Some mounting positions are not available with certain pump models, refer to pump dimensional drawings.

Input Rotation:

Transmission Duty	Input Rotation
Medium	Clockwise (CW) or Counter Clockwise (CCW)
Heavy	Clockwise (CW) or Counter Clockwise (CCW)

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Input Shaft:

Transmission Duty	Available Shafts
Medium	1-1/2-10 SAE Splined Shaft or 1 in.-15T Involute Splined Shaft
Heavy	1-3/4-10 SAE Splined Shaft

Ratio:

Transmission Duty	Pump Model	Available Ratios									
		1.16	1.38	1.42	1.44	1.56	1.62	1.65	1.76	1.88	1.97
Medium	CP-2, CP-3, CP-4 CLR, CLV	-	-	-	X	-	X	-	-	-	X
	CP-4UH	-	-	-	-	-	-	-	-	-	-
Heavy	CGV, CGVR CXN, CXR, CXV	X	X	-	-	X	-	X	X	X	-

Transmission Duty	Pump Model	Available Ratios									
		2.14	2.33	2.45	2.55	2.79	2.93	3.40	See Note		
									4.00	4.79	
Medium	CP-2, CP-3, CP-4 CLR, CLV	-	X	-	X	X	X	X	X	X	X
	CP-4UH	-	-	-	-	-	-	-	-	-	X
Heavy	CGV, CGVR CXN, CXR, CXV	X	-	X	-	-	-	-	-	-	-

Note: 4.00 and 4.79 ratios are not available with CP-3 pump models.

Bellhousing Adapter:

Transmission Duty	Input Shafts	Bellhousing Adapter
Medium	1-1/2-10 SAE Splined Shaft	SAE No. 3
		SAE No. 4
	1 in.-15T Involute Splined Shaft	SAE No. 4
		SAE No. 5
Heavy	1-3/4-10 SAE Splined Shaft	SAE No. 2
		SAE No. 3
		SAE No. 4

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Drive Plate (Required):

Transmission Duty	Pump Model	Input Shaft	Bellhousing Adapter	Clutch No.	Drive Plate Part No.
Medium	CLR, CLV CP-2, CP-3, CP-4	1-1/2-10 SAE Spline	SAE No. 3	10	V 3807
				11-1/2	V 2461
			SAE No. 4	8	V 2852
				10	V 3807
		1 in.-.15T Involute Spline	SAE No. 4	7-1/2	V 4128
			SAE No. 5	6-1/2	V 2865
	CP-4UH	1-1/2-10 SAE Spline	SAE No. 3	10	V 2272
				11-1/2	V 2461
			SAE No. 4	8	V 2852
				10	V 2272
1 in.-.15T Involute Spline	SAE No. 5	6-1/2	V 2865		
Heavy	CGV, CGVR CXN, CXR, CXV	1-3/4-10 SAE Spline	SAE No. 2	10	V 2462
				11-1/2	V 2463
			SAE No. 3	10	V 2462
				11-1/2	V 2463
			SAE No. 4	10	V 2462