

Iron CM Series Fire Pump Dimensional Drawings

Special Application Pipeline Cleaning Pump
With Inverted Pump Body

Pump and Transmission							
Pump Type	Transmission		Pump Model	Drive		Hydraulic Pump Mounting Provision	See Page
	Model	Drive		Input Rotation (1)	Driveline Type		
Two Stage Series/Parallel (CM, CMU)	C22 Series	Split Shaft, Chain Drive	CMC22B	CW	Input Shaft Only	N/A	2
			CMUC22B				
	D Series	Direct Drive Connection from P.T.O	CMD	CW (Front Drive) or CCW (Rear Drive)	-	N/A	3
			CMUD				
	K Series	Two-Gear, No Clutch	CMK	CW	-	N/A	4
			CMUK				5

Note:

1. Input rotation is viewed looking directly at the transmission input shaft or direct drive end.

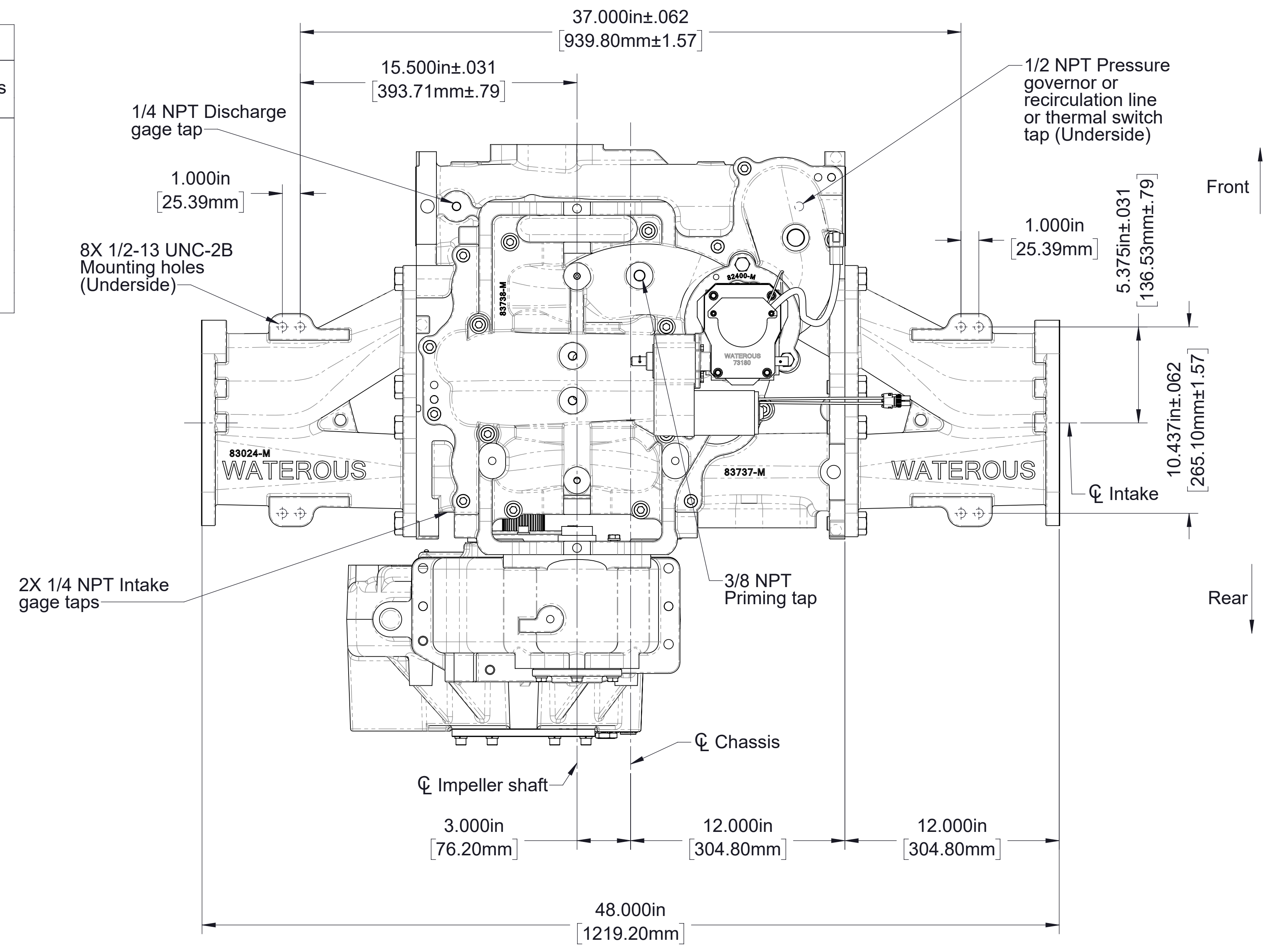
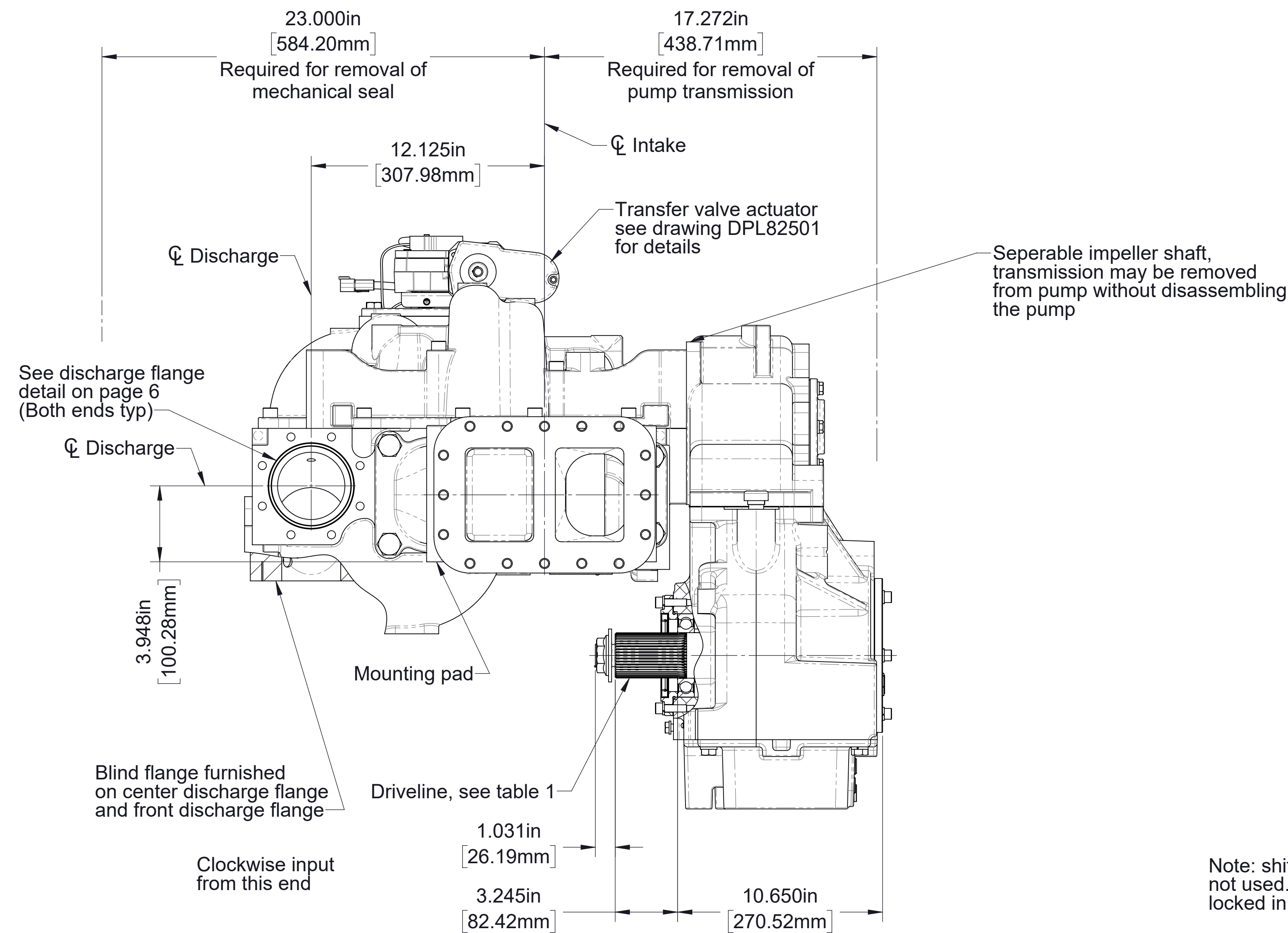
Basic Pump Dimensions (Without Transmission)	
Feature	See Page
Intake Adapter Flanges	6
Optional Rear Intake Adapter	
Discharge Connections	

Table 1- Availalbe Drivelines / Models

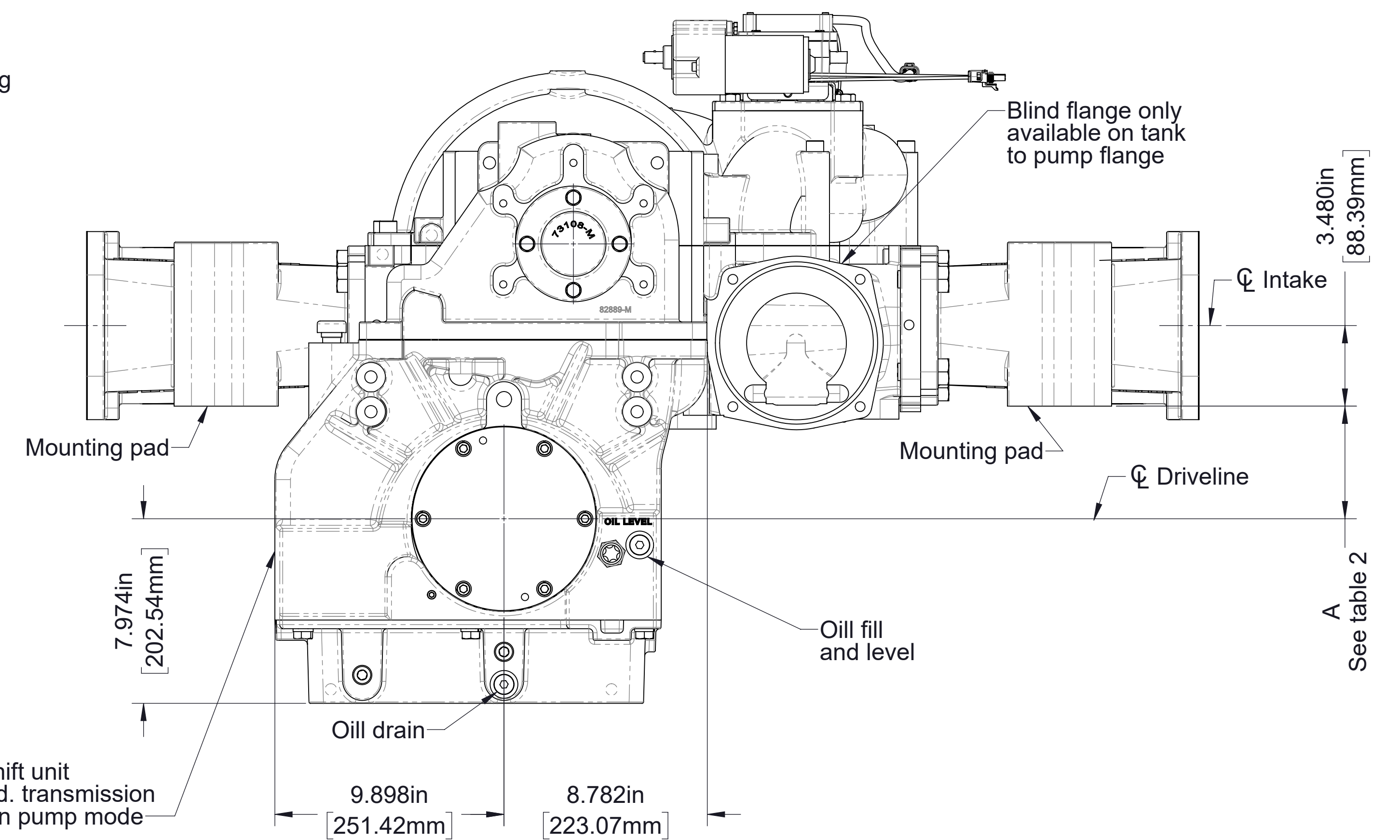
Driveline			Optional End Yokes and Companion Flanges Available from Waterous				Pump Models	
Type	Size	Spline	Yoke		Cross and Bearing Kit	Companion Flange		CMC22B CMUC22B
			Spicer Series	Part Number		Spicer Series	Part Number	
Extra Heavy Duty	2.35 Inch	2.35-46T Involute	1710 BP	V 2837	V 2839	1480/1610	V 3719	
			1810 BP	V 2838	V 2840			
			1710 BP	V 4101	-	1650/1710	V 3619	
			1810 BP	V 4102	-			
			SPL 140	V 3388	V 3389	-	-	

Table 2 - Available Ratios

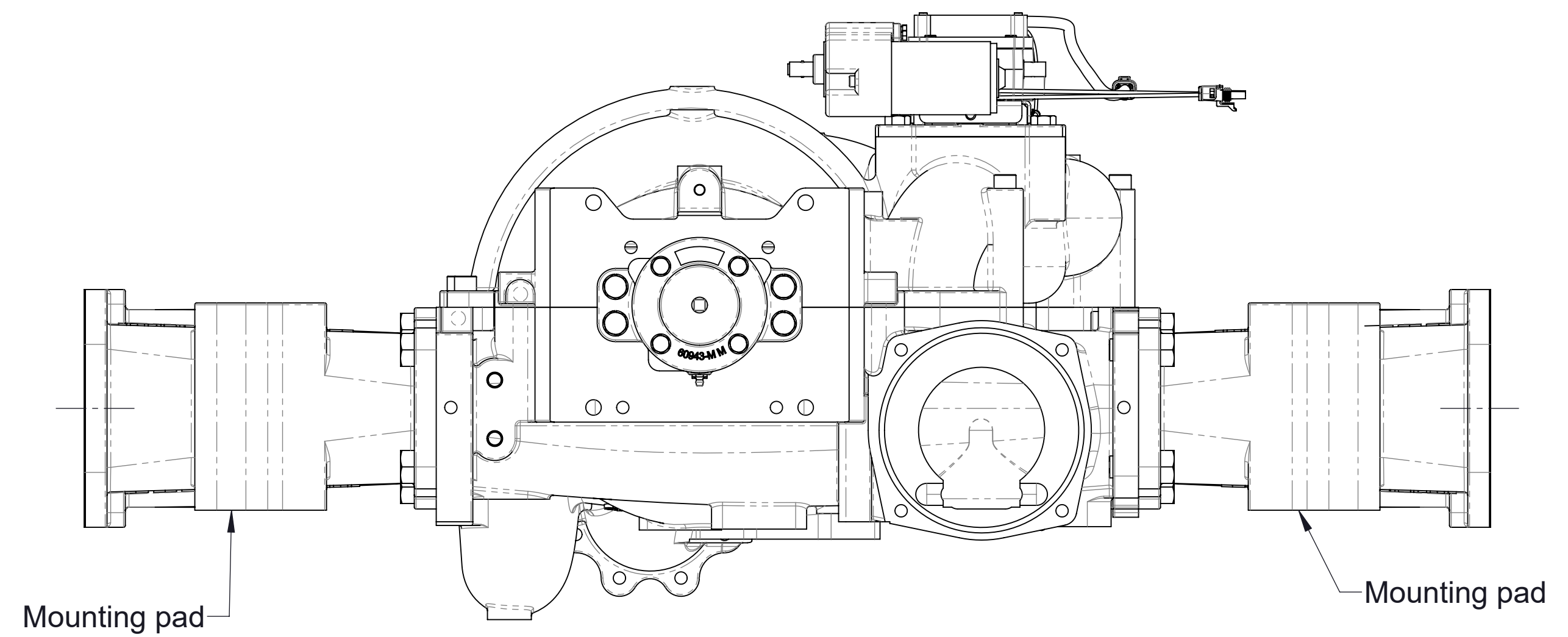
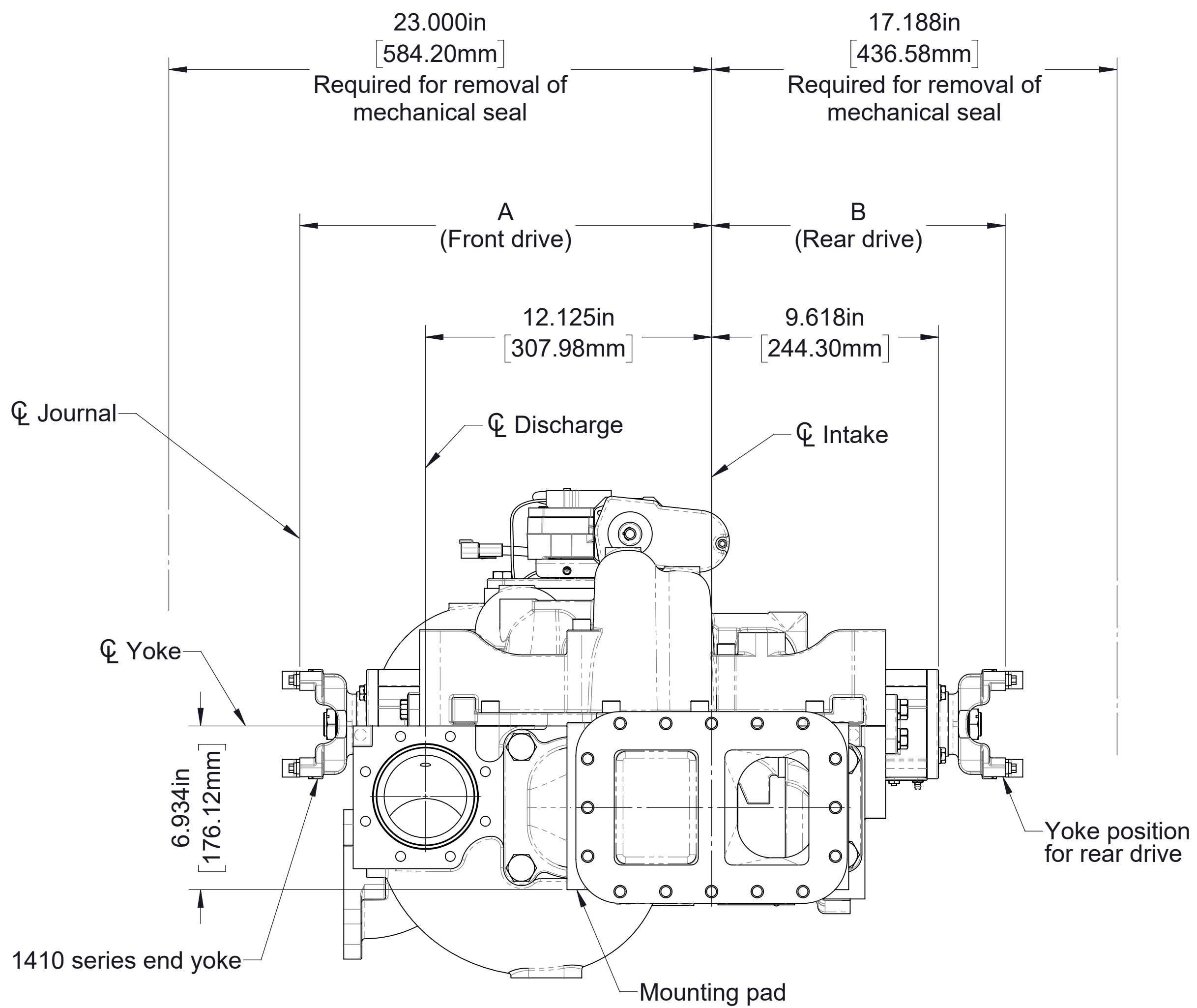
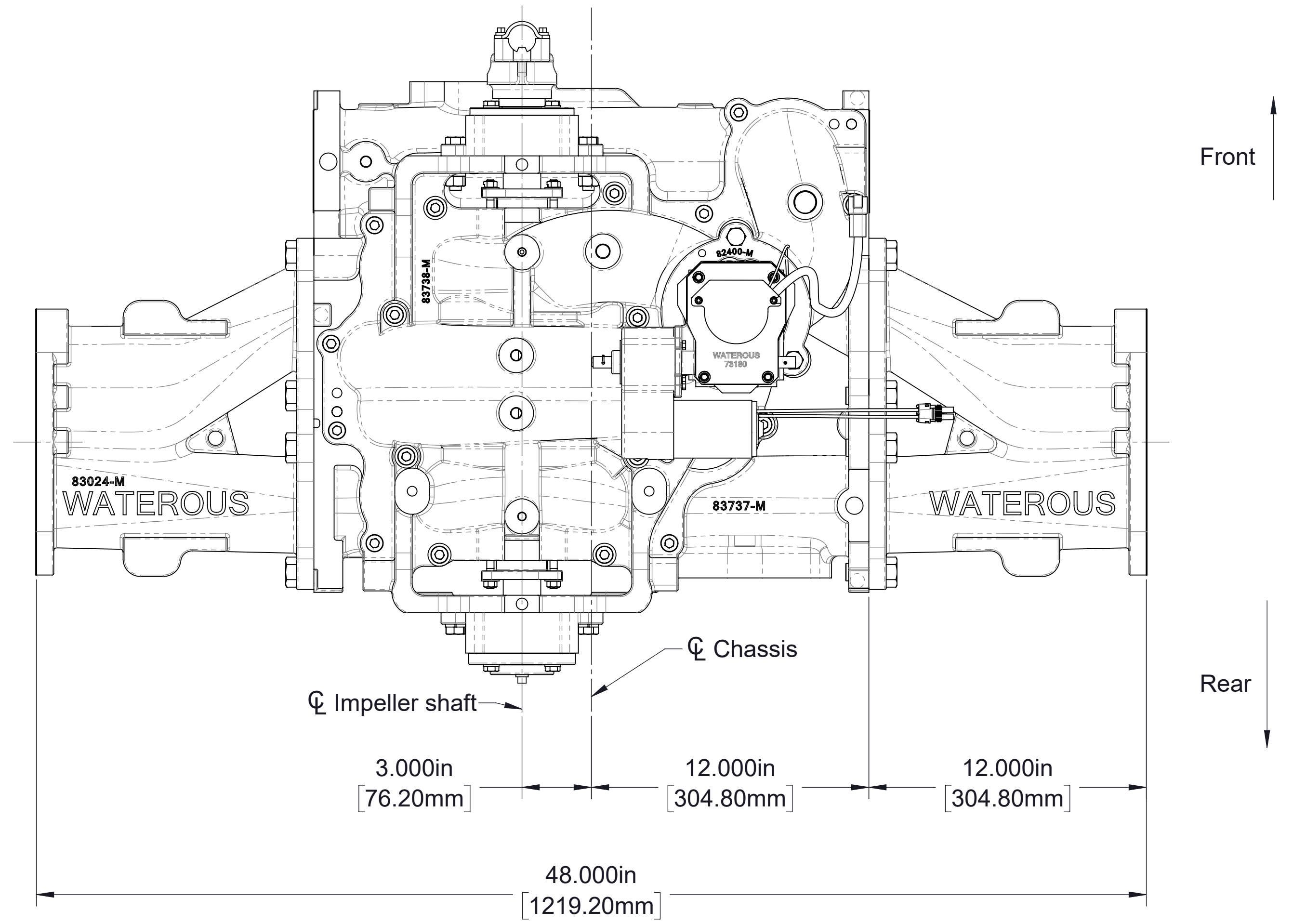
Drive to Driven Ratio	C22B	
	Dimension A (Inch/Millimeter)	
1.27	5.239	133.07
1.41	4.829	122.66
1.48	5.315	135.00
1.58	5.194	131.93
1.69	5.279	134.09
1.79	4.947	125.65
1.88	5.118	130.00
1.97	5.295	134.49
2.03	4.885	124.08
2.27	5.229	132.82
2.46	4.930	125.22
2.68	5.158	131.01



Model CMC22B
Model CMUC22B
Input Shaft Only
Model CMC22B, 2.27 ratio shown



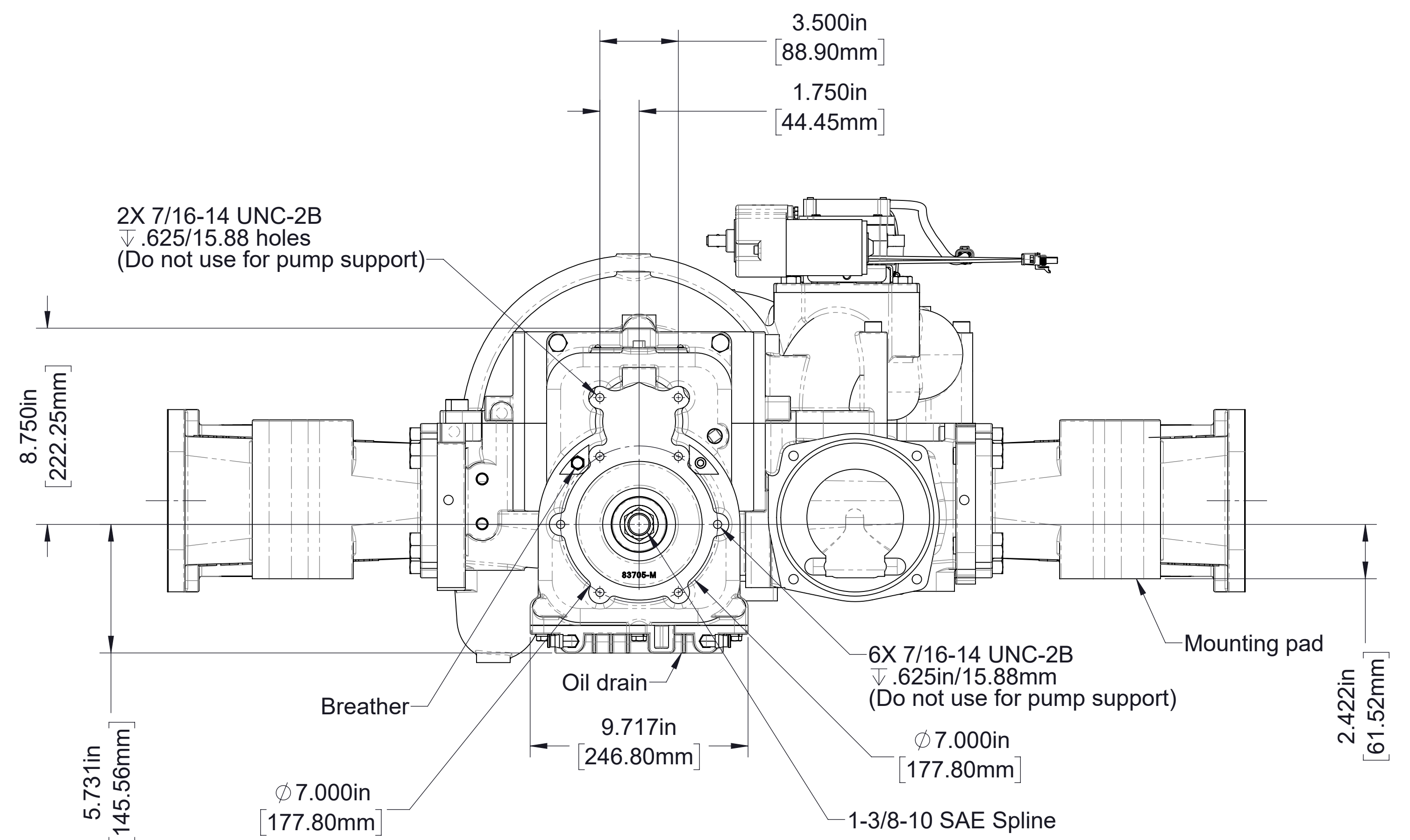
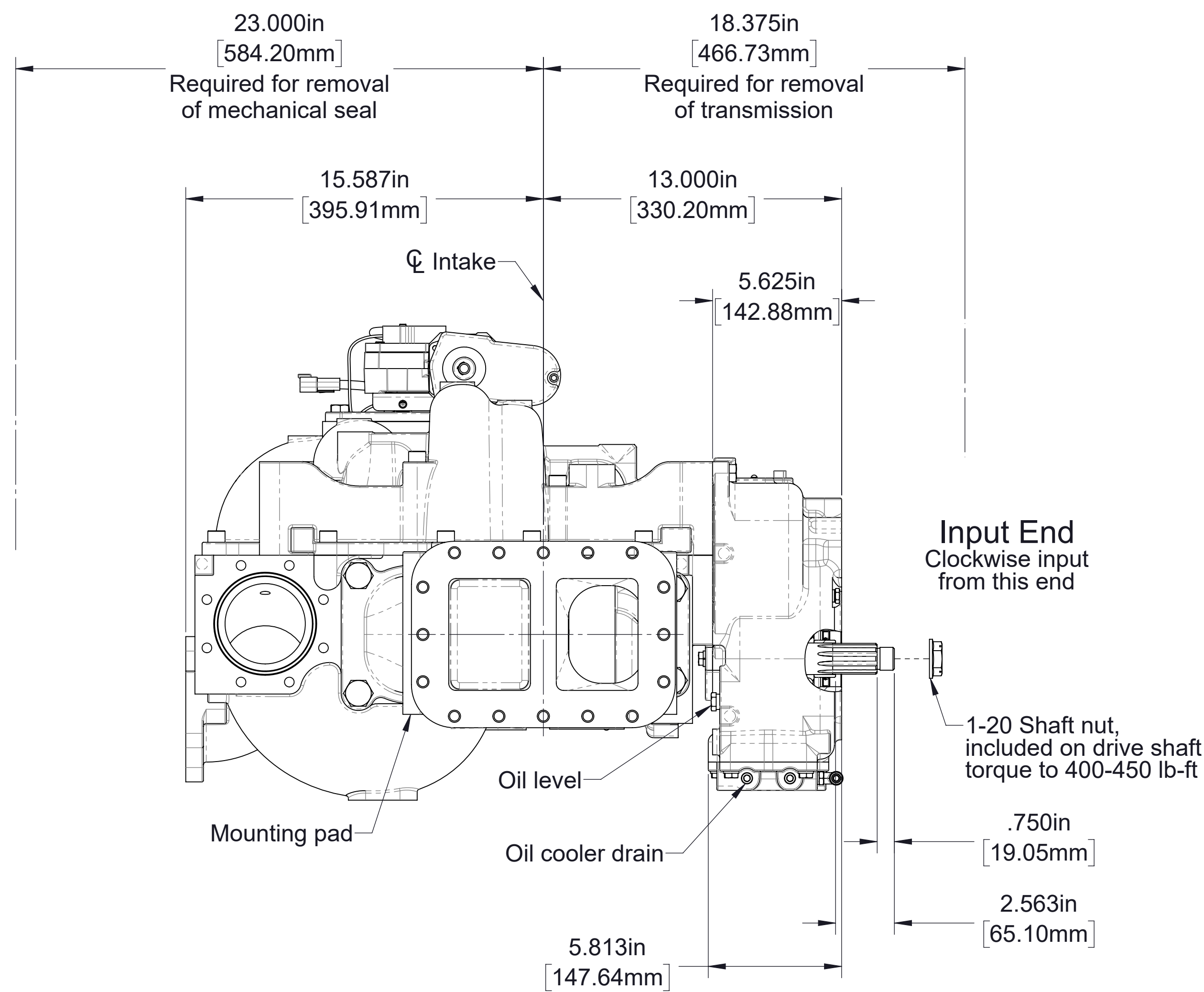
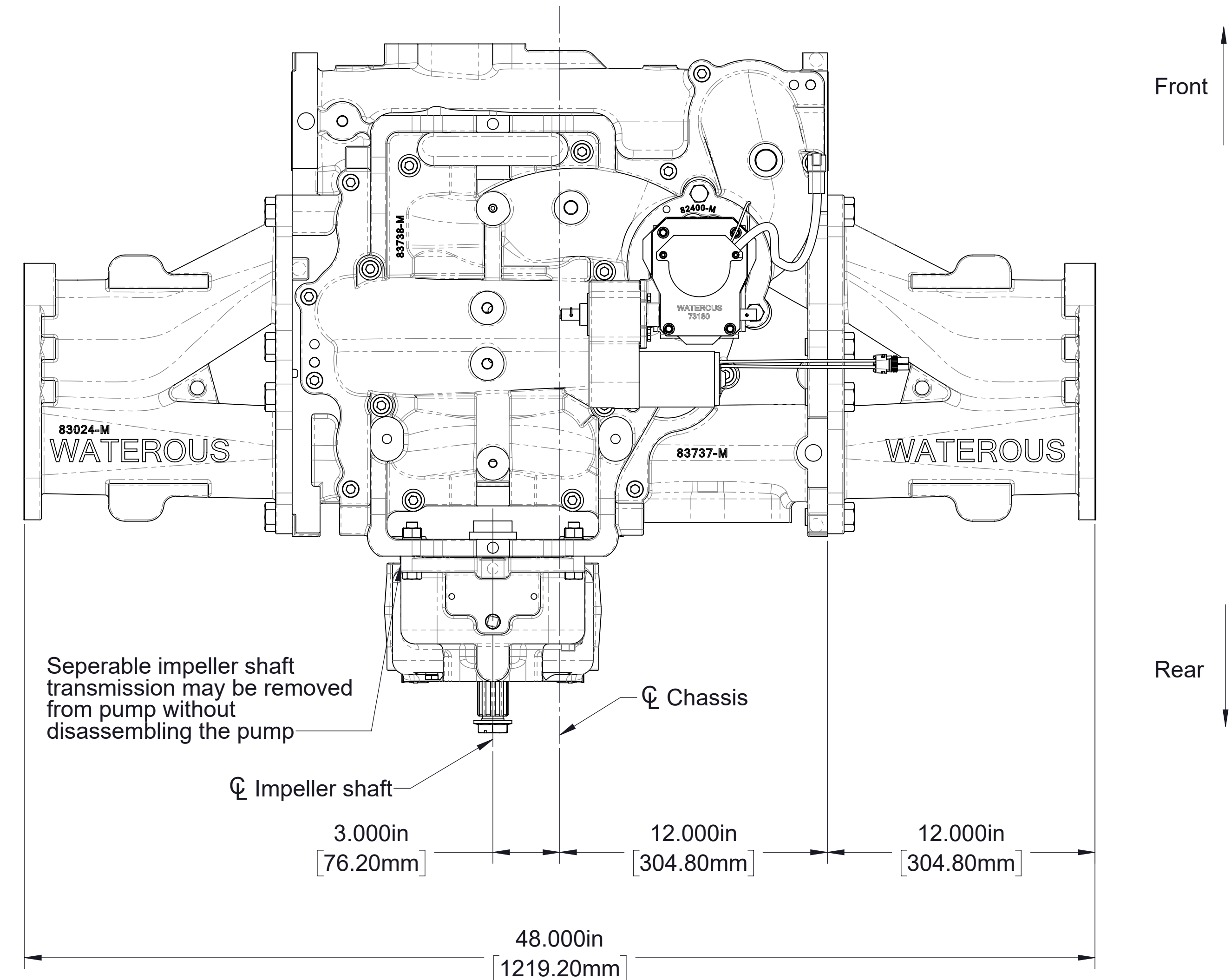
Available as follows			
Drive Location	Dimension B (Inch/Millimeter)		Input Rotation (Viewed looking at Yoke)
	With Packing	With Mechanical Seals	
Front	18.600/472.44	18.600/472.44	Clockwise
Rear	12.250/311.15	12.250/311.15	Counterclockwise



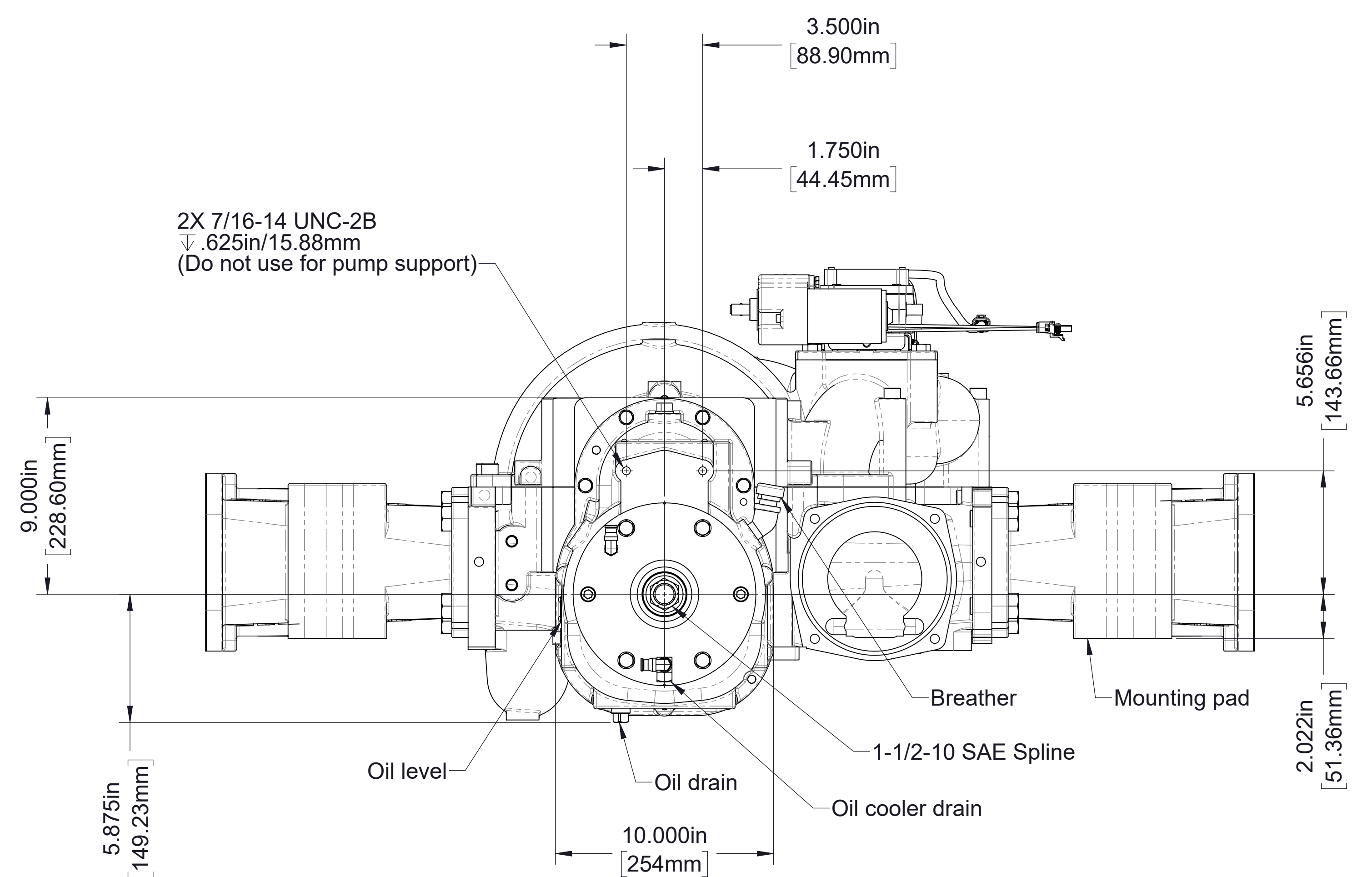
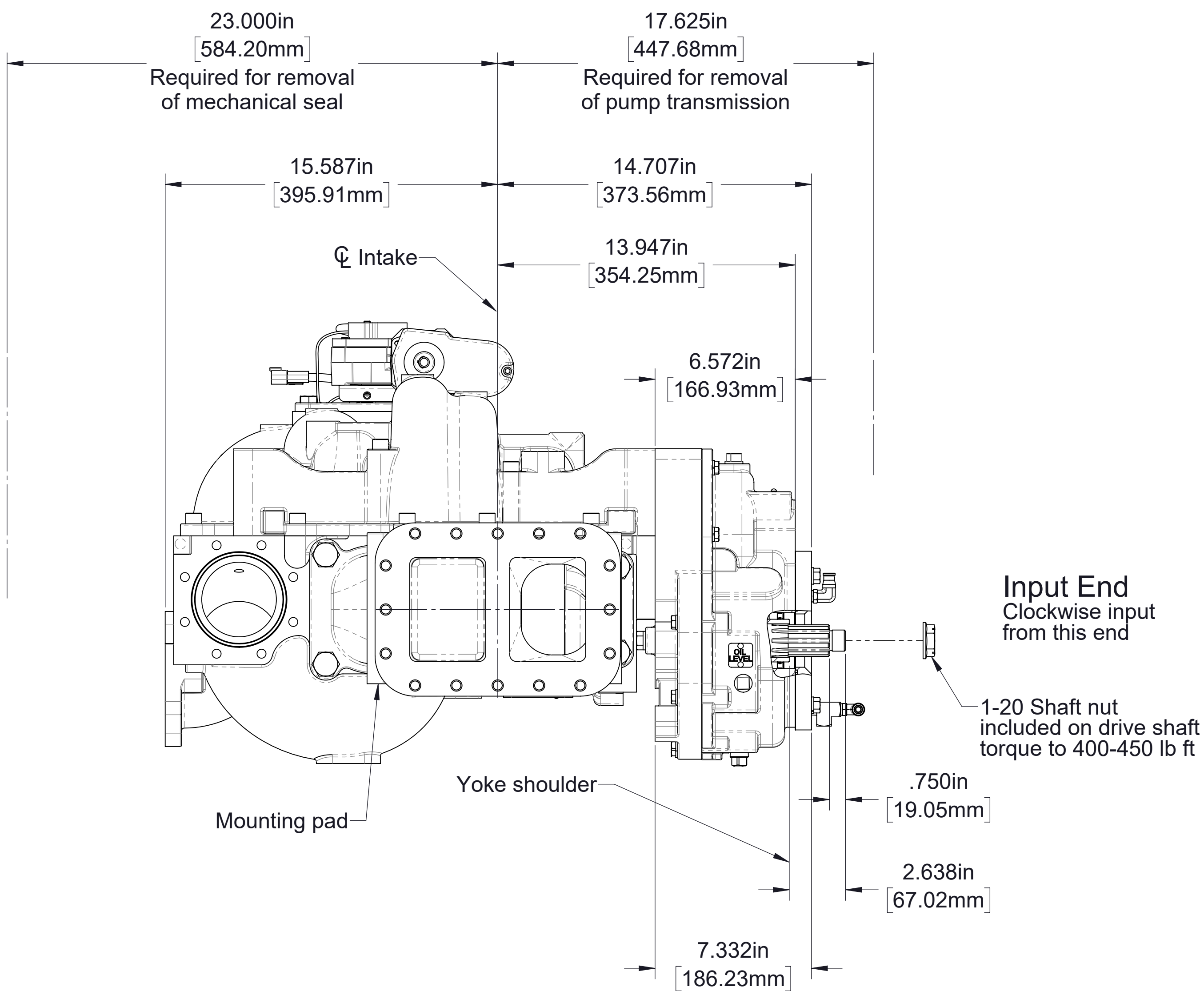
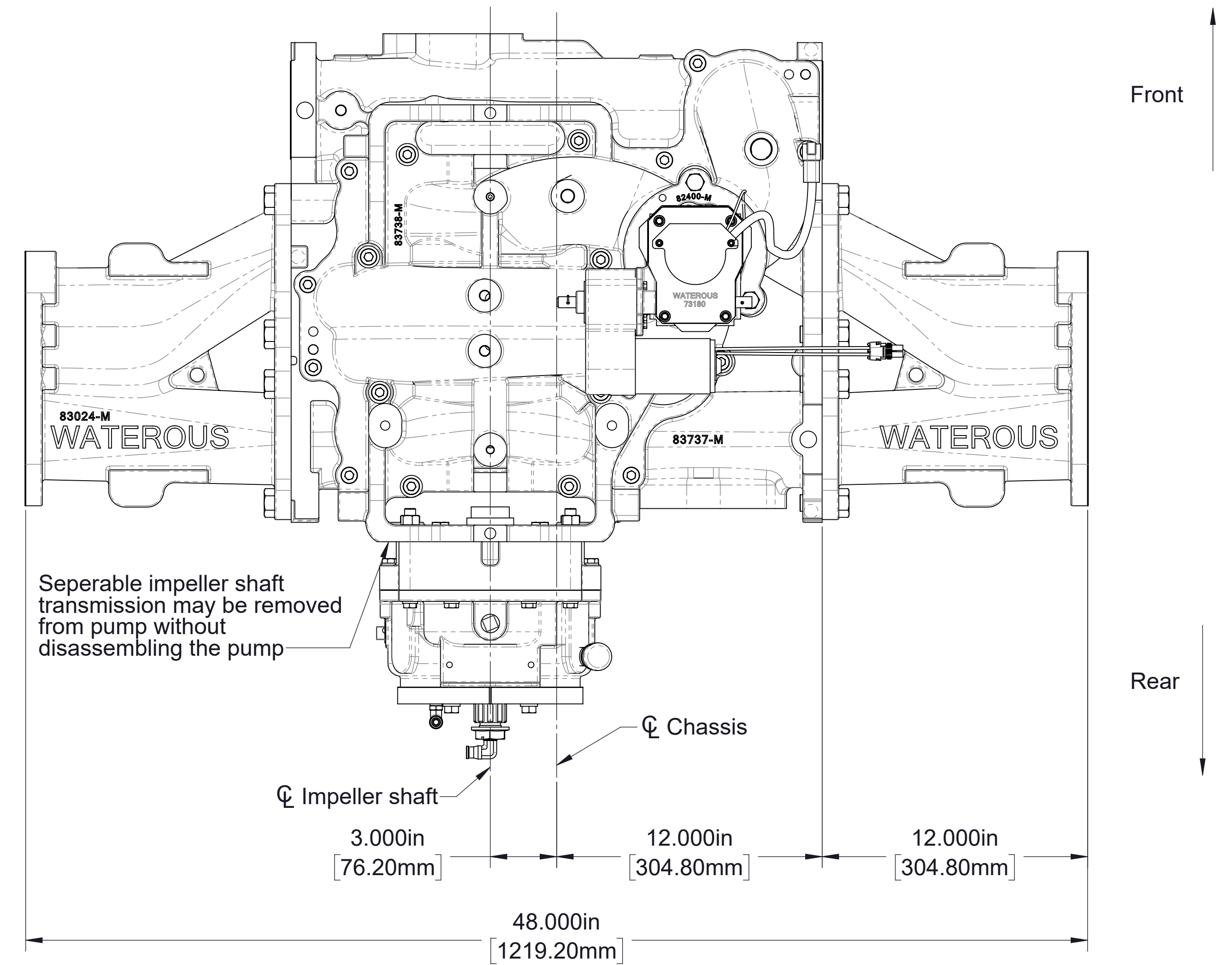
Model CMD
Model CMUD
 Direct Drive Connection from PTO

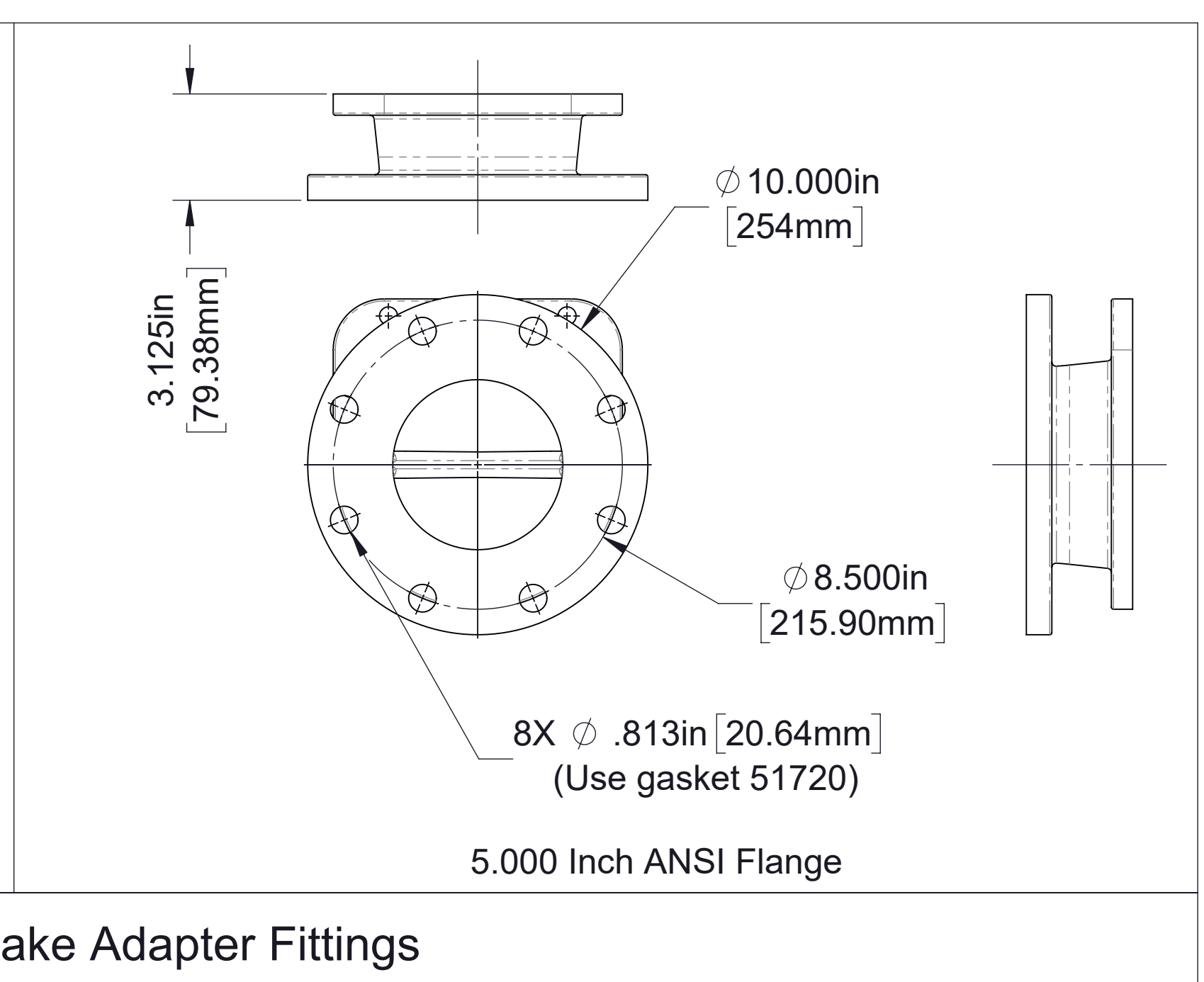
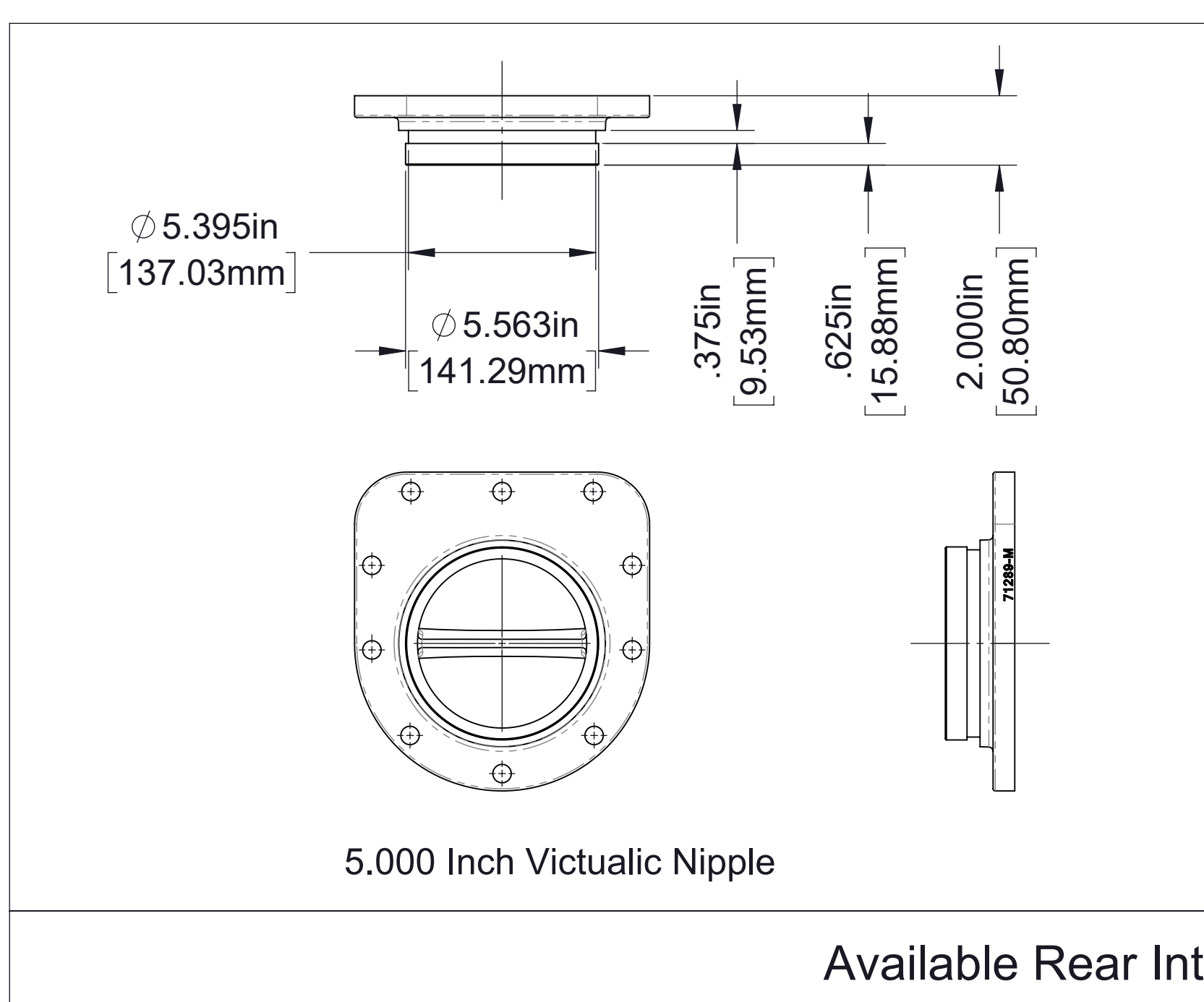
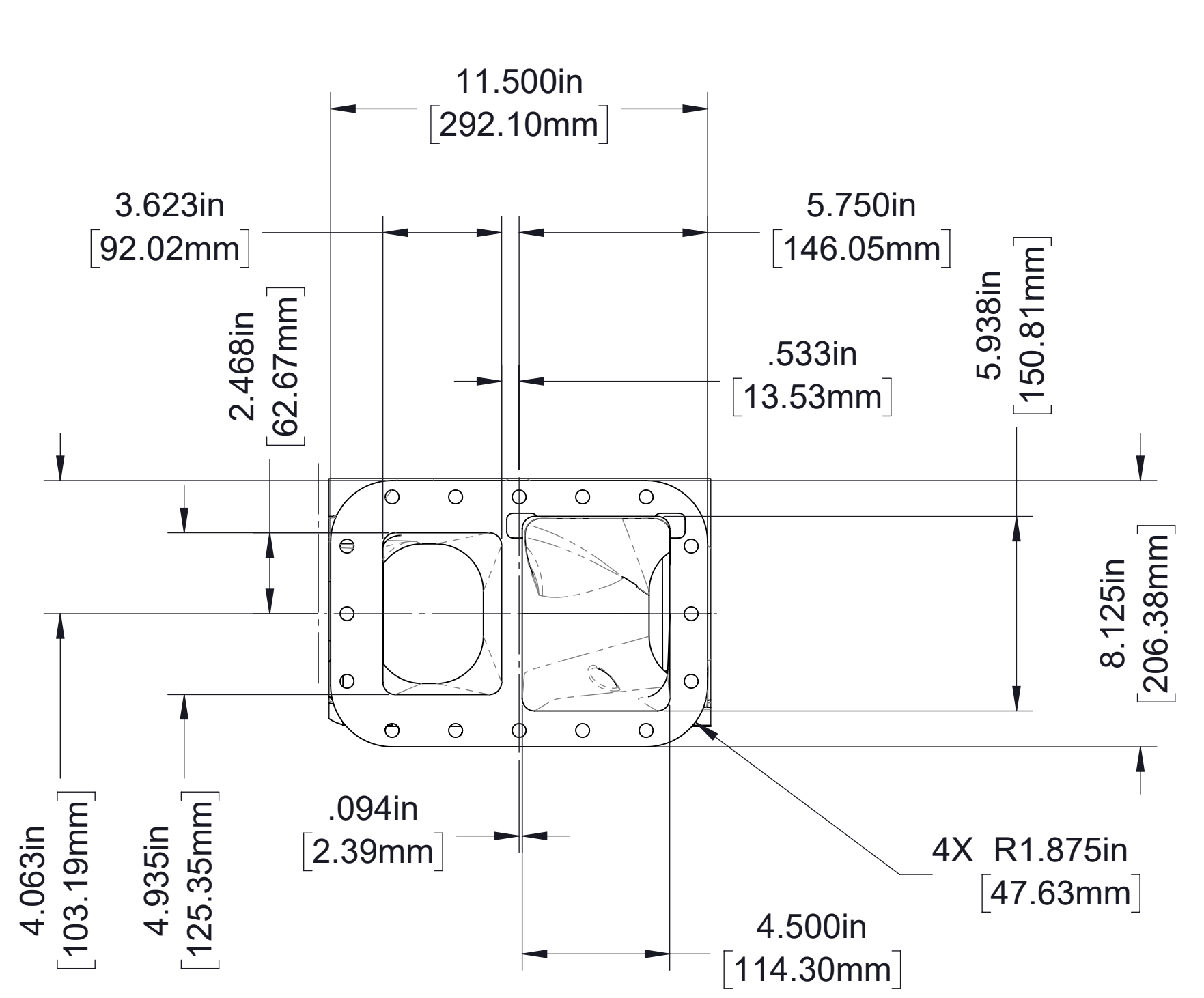
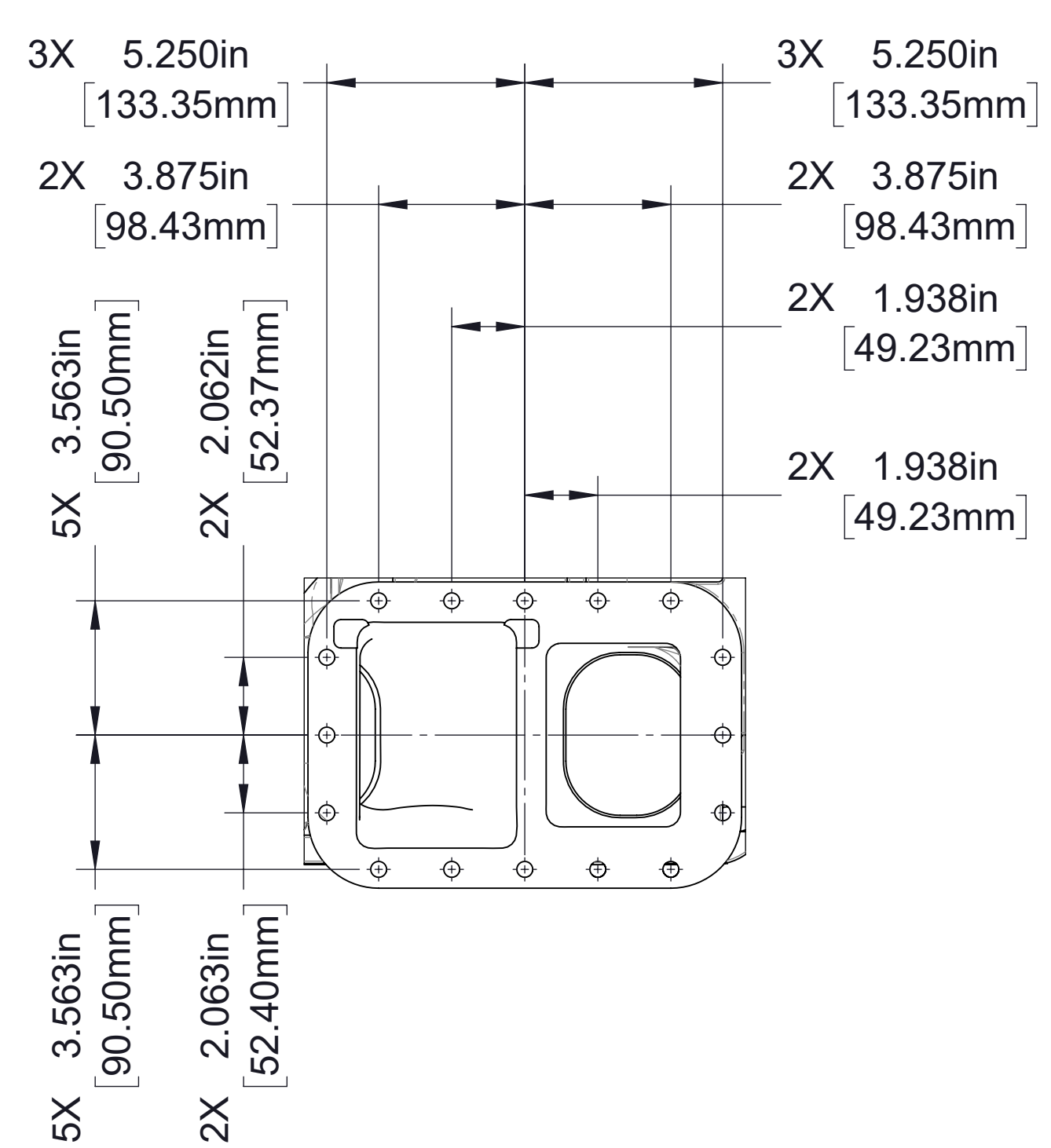
Model CMK available as follows				
Model	Input	Transmission		Available Ratios
		Location	Mounting	
Heavy Duty K	Clockwise	Rear	Vertical	1.16
				1.30
				1.38
				1.56
				1.65
				1.88
				2.14
				2.45
				2.83

Note:
1. See drawing DPL82076-1 for additional transmission details.



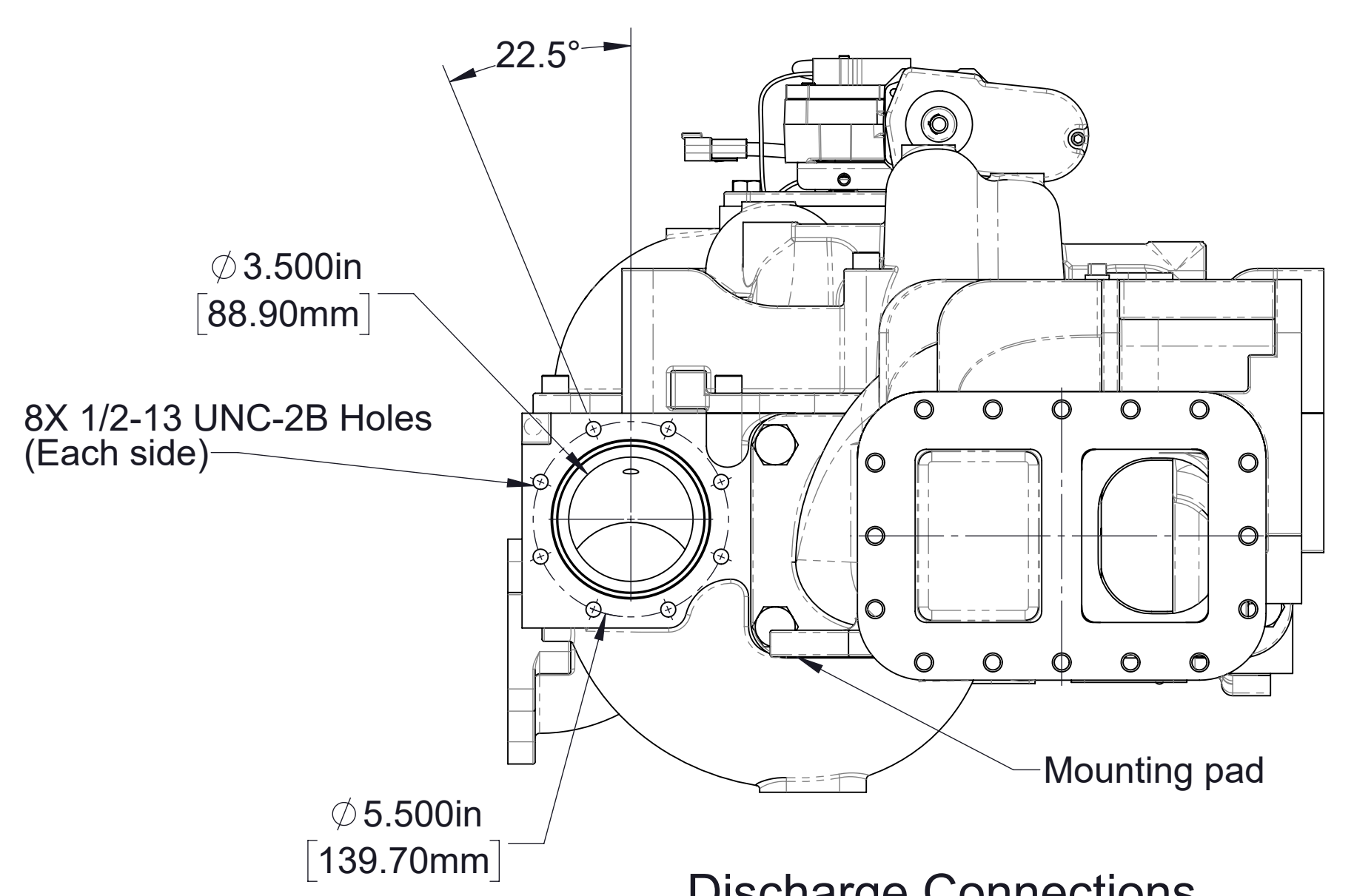
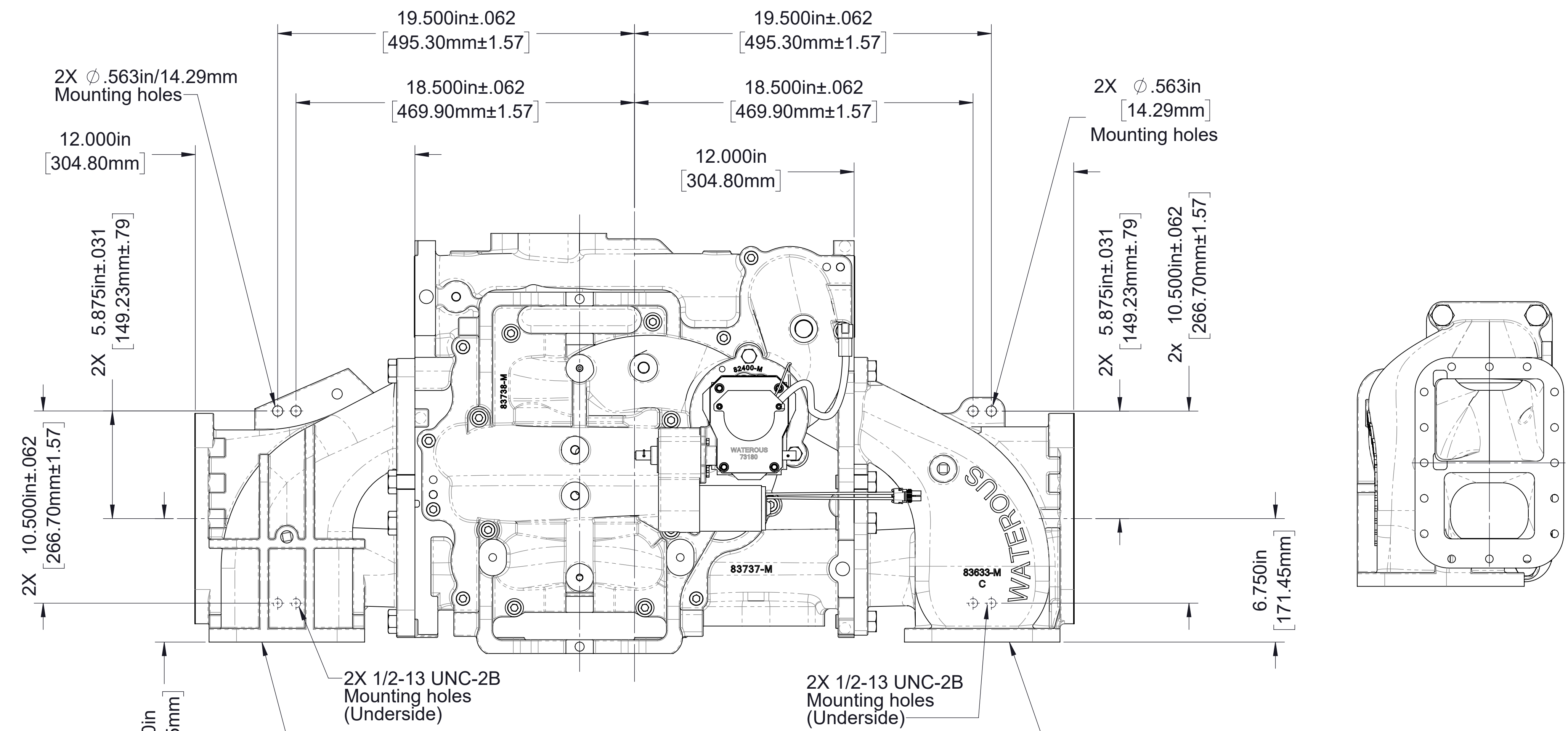
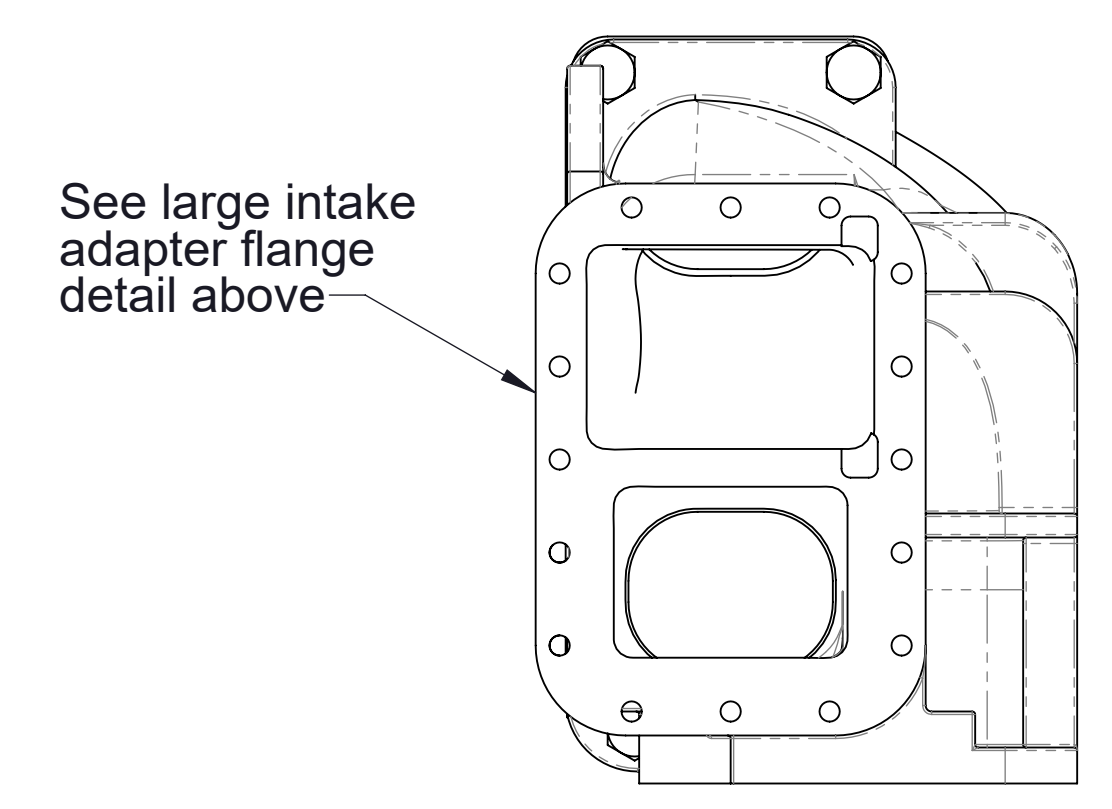
Available as follows				
Model	Input	Transmission		Available Ratios
		Location	Mounting	
Extra Heavy Duty K	Clockwise	Rear	Vertical	1.27
				1.42
				1.69
				2.00
				2.12
				2.56



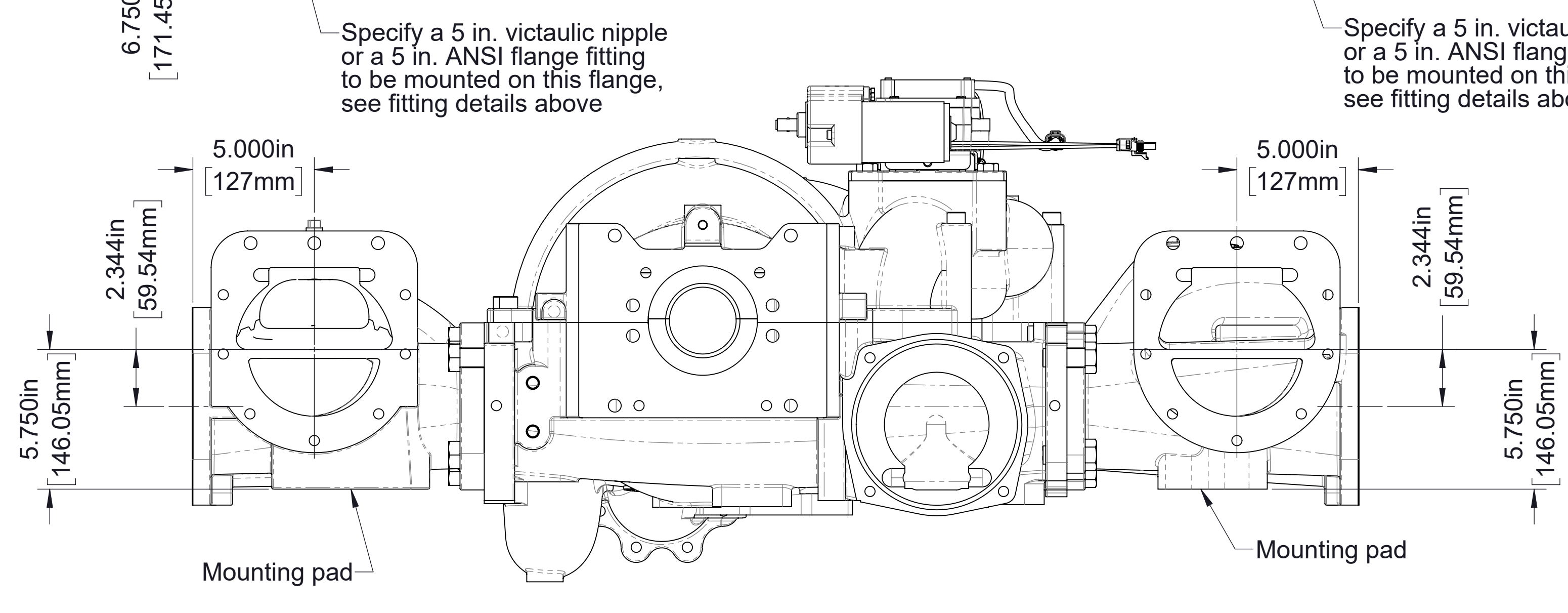


Available Rear Intake Adapter Fittings

Large Intake Adapter Flange Detail



Discharge Connections
 See drawing DPL82085 for information on ordering discharge fittings and valves



Optimal Rear Intake Adapters
 Available with 5.000 inch ANSI flange or 5.000 inch victualic nipple