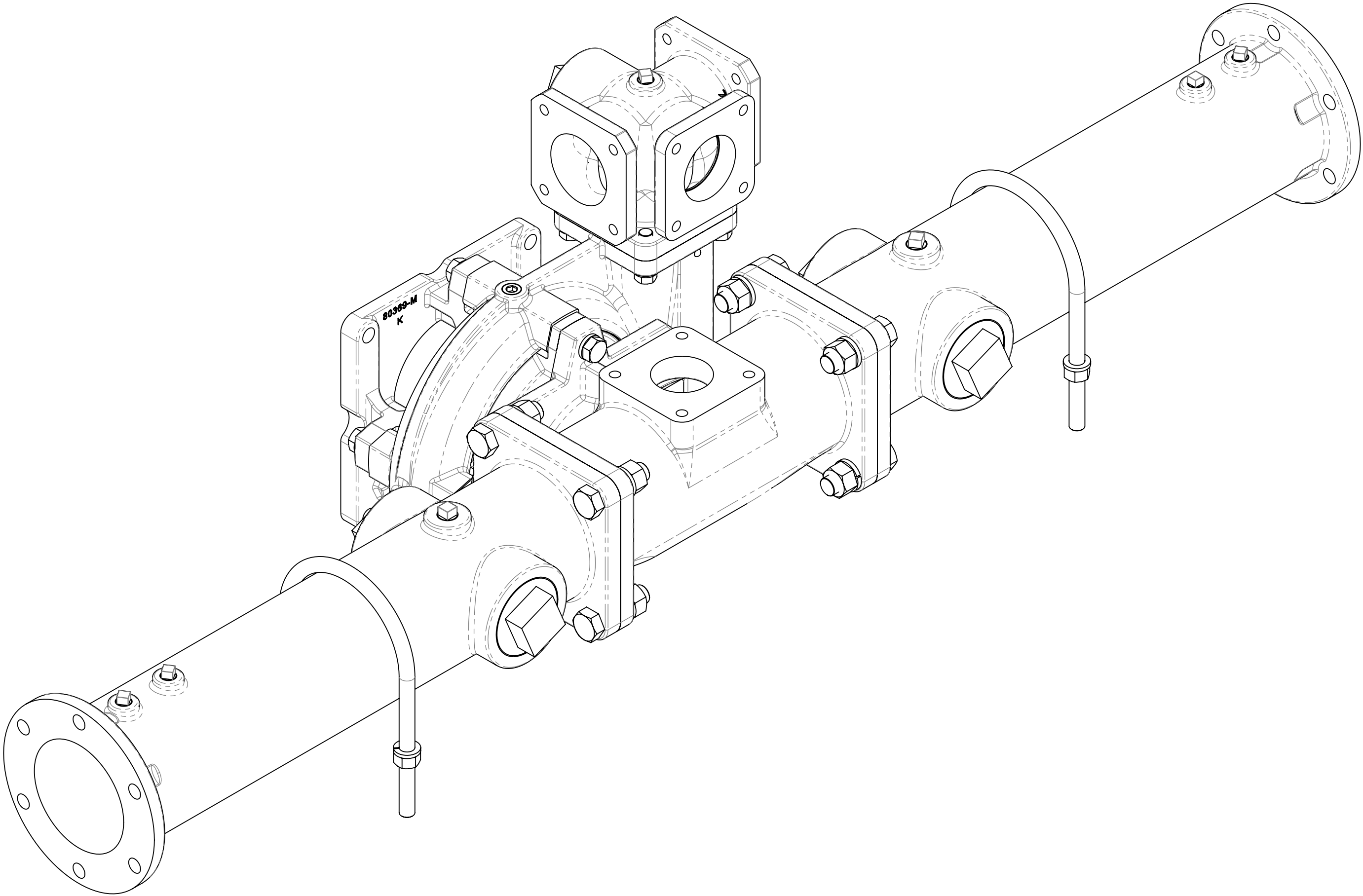


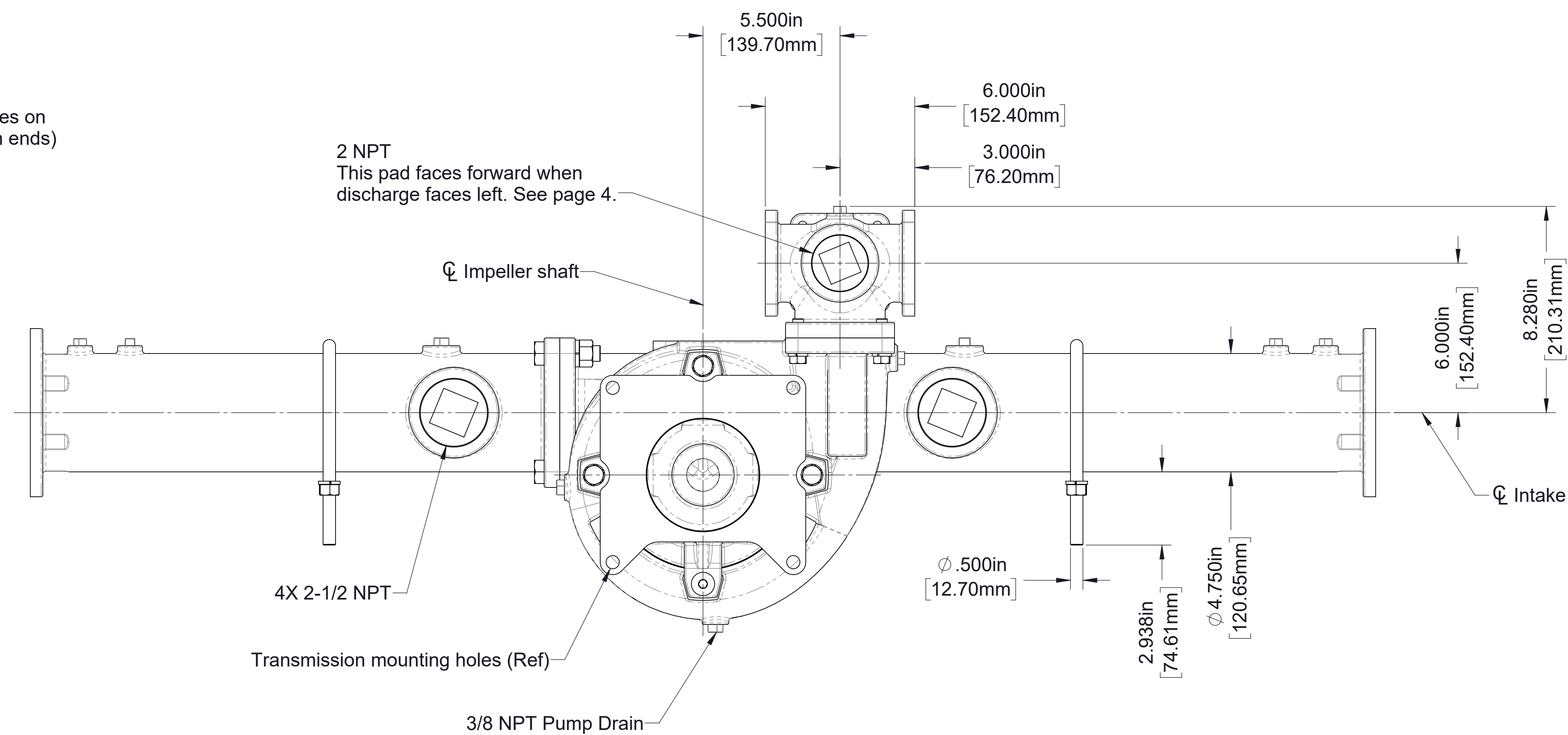
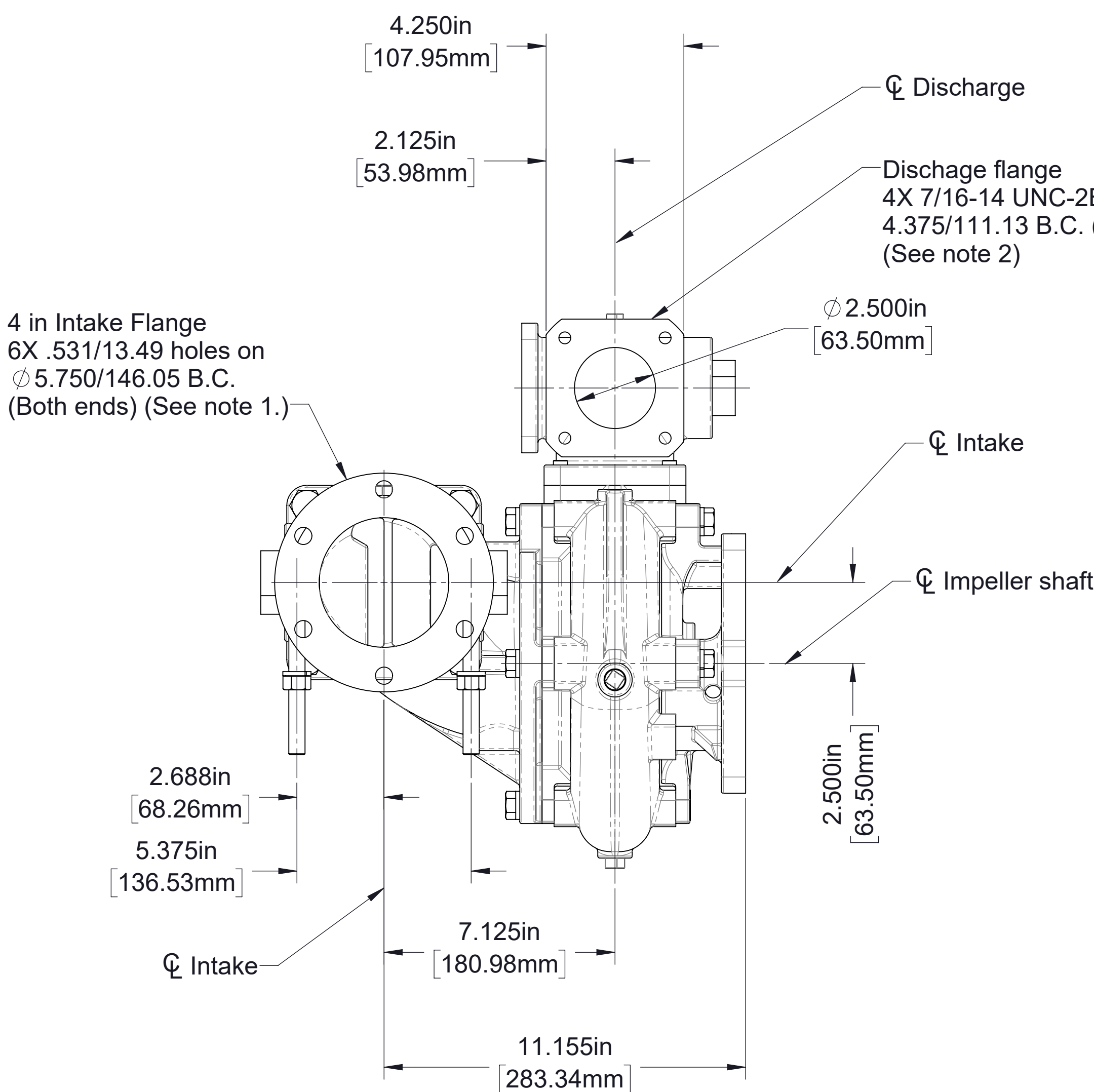
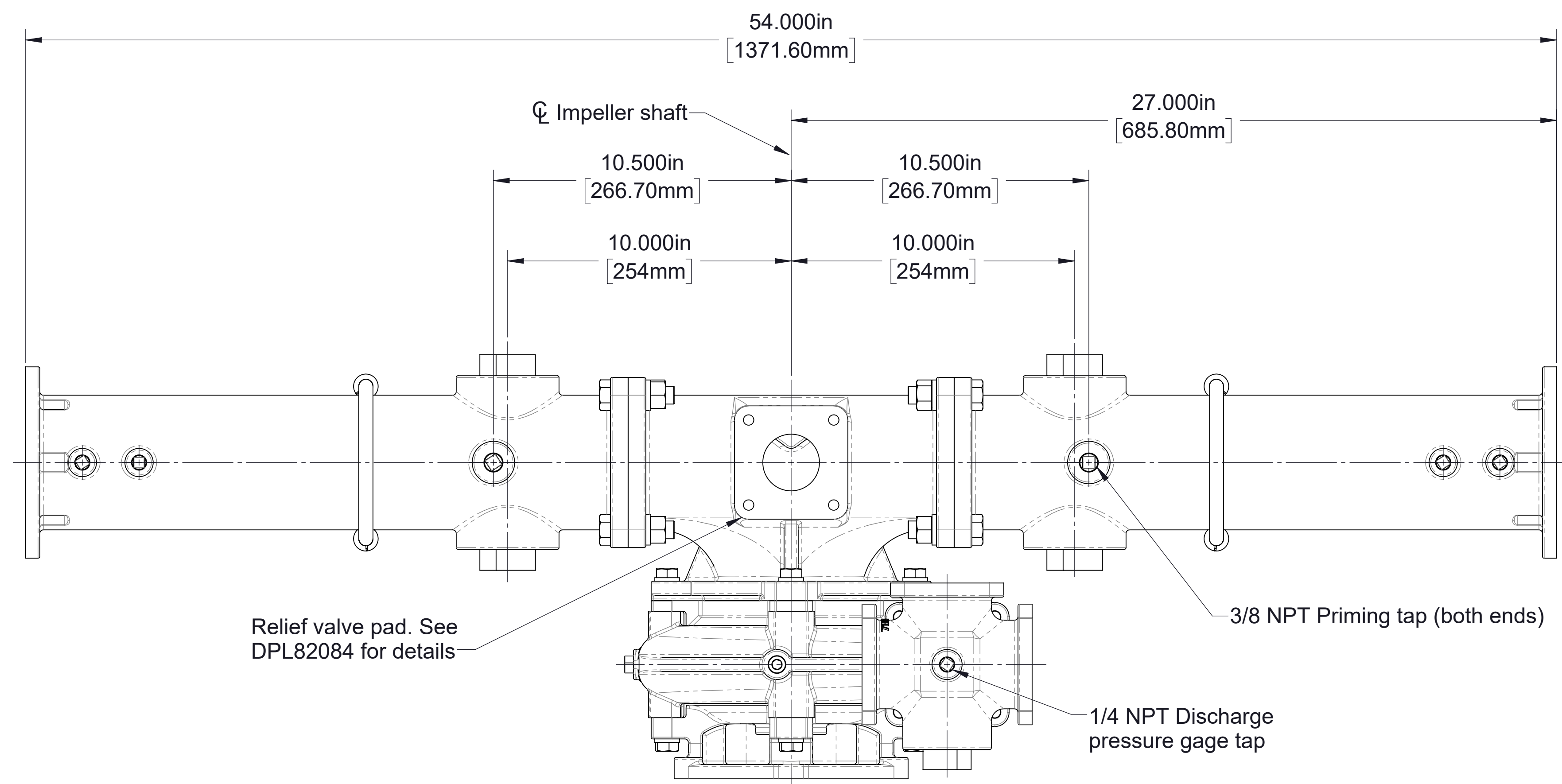
CLS Series Fire Pump Dimensional Drawings

Transmission				Pump		See Page				
Type	Driveline	Pump Mounting on Transmission	Input Rotation (1)	Impeller Rotation (2)	Pump and Transmission Model	Basic Pump Dimensions	Pump and Transmission			
							Dimensions	Available		
								Pump Discharge Positions	Transmission Mounting Positions	End Yokes and Companion Flanges
K Series Two Gear, PTO Driven	Input Shaft Only	Opposite Input Shaft	CW	CW	CLSK	2-3	4	6	7	7
P Series Chain Drive, PTO Driven	Input Shaft Only	Input Shaft Side	CW	CW	CLSPA	2-3	5	6	7	7

Notes:
1. Input rotation is viewed looking directly at the transmission input shaft.
2. Impeller rotation is viewed looking directly at the intake fitting (impeller eye)



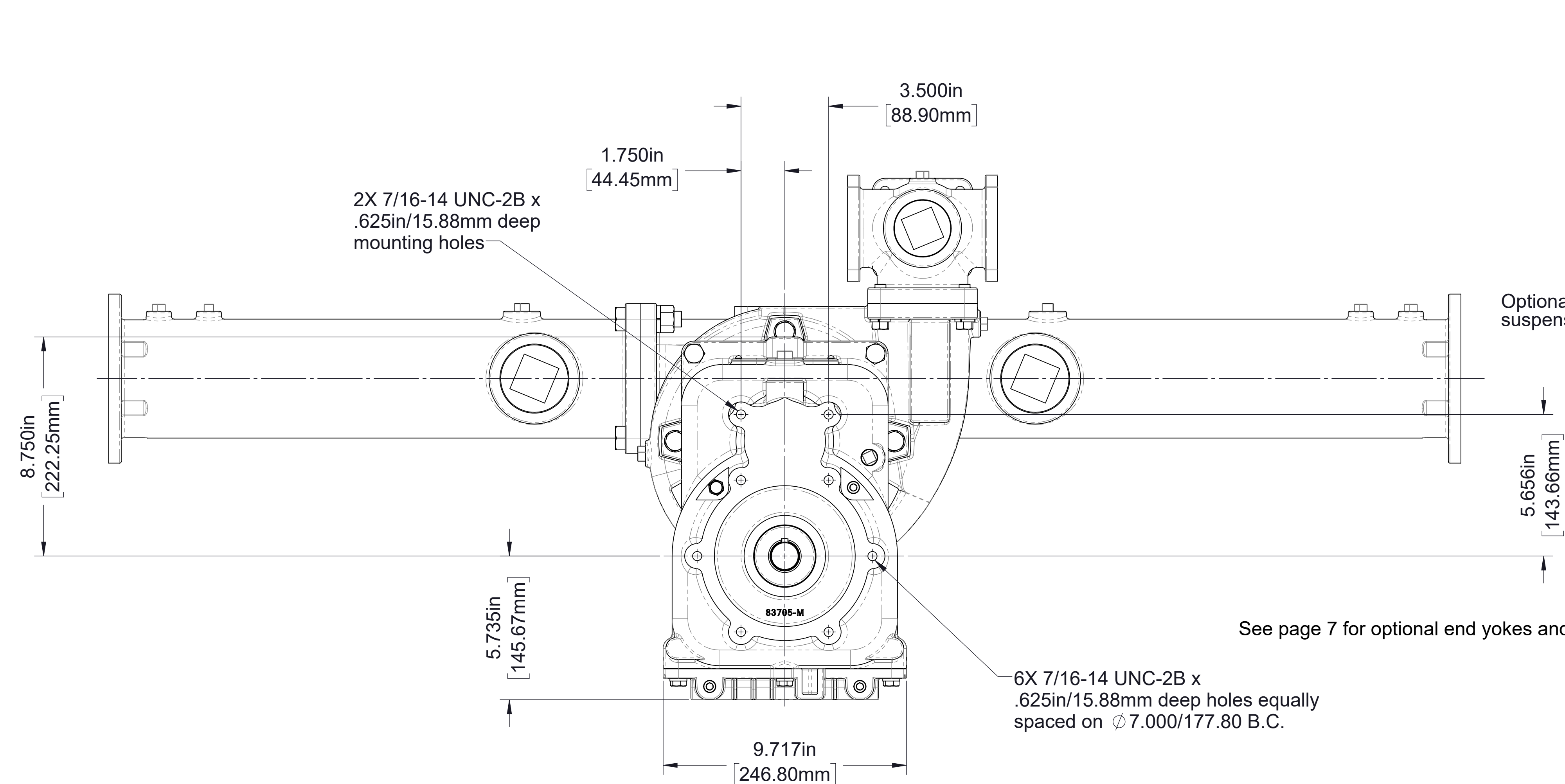
Note: Pump must be installed in accordance with Waterous Installation Instructions.



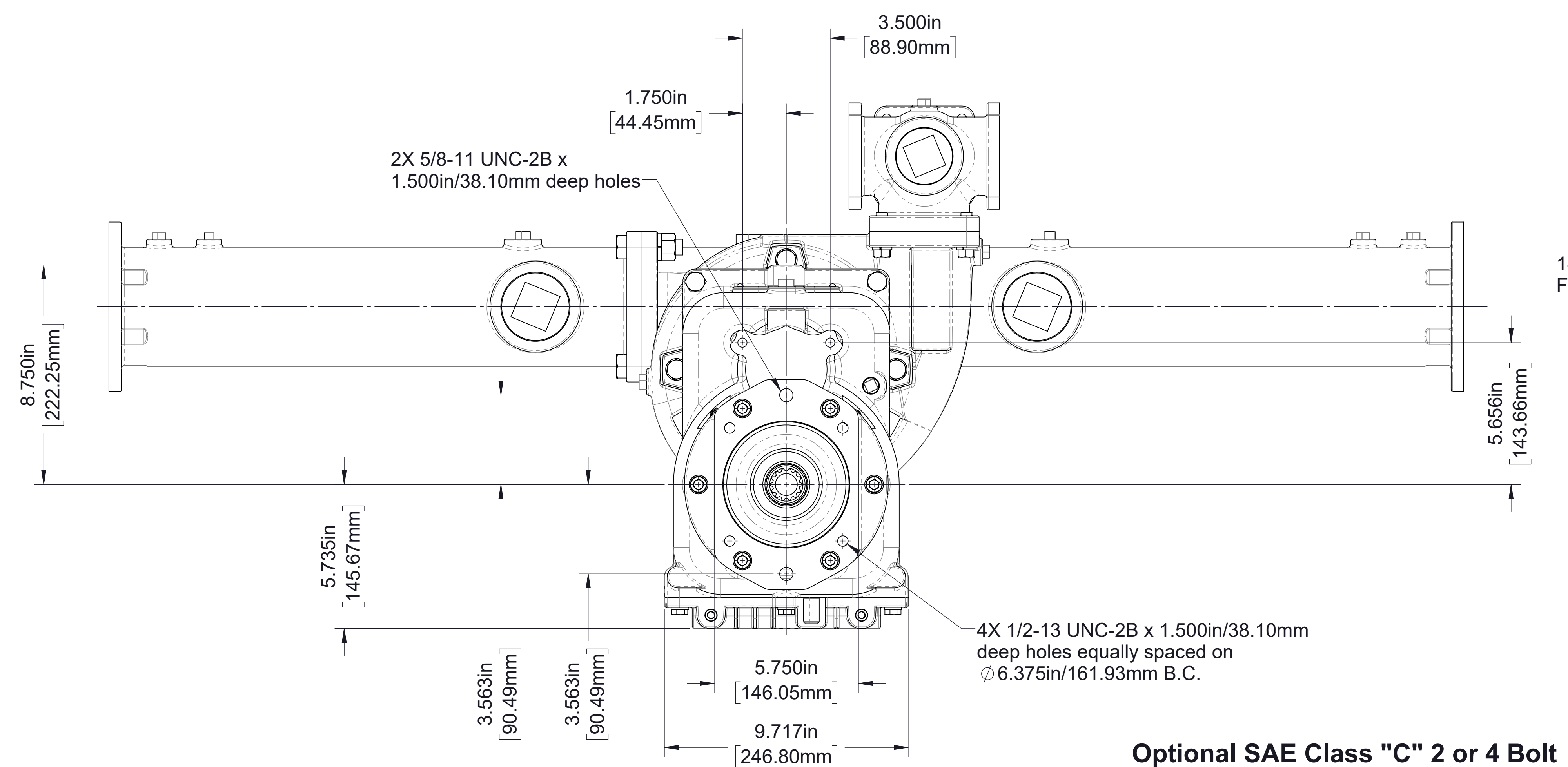
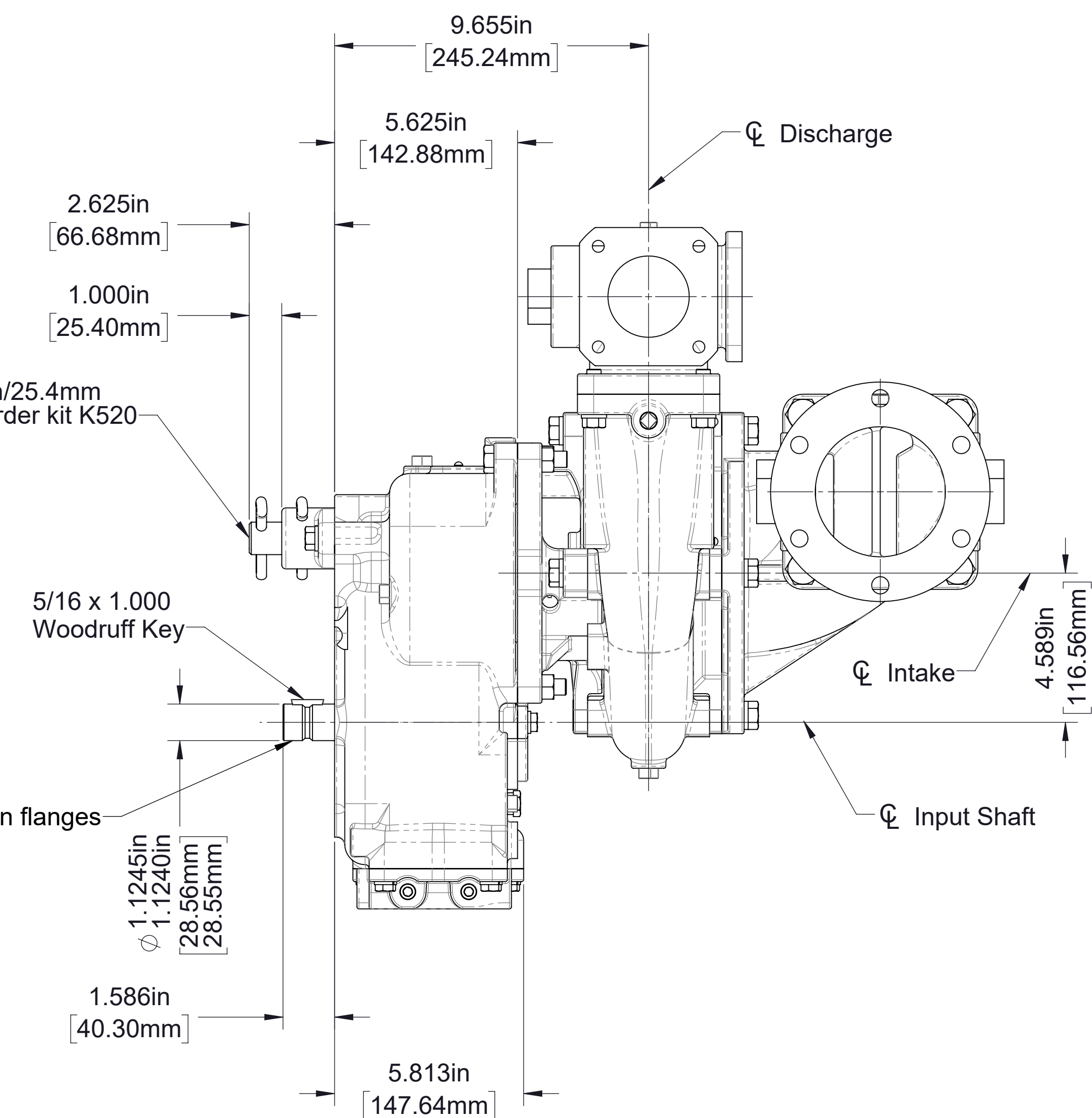
- Notes:
1. See drawing DPL81867 for optional intake fittings
 2. See drawing DPL82085 for information on 2-1/2 in discharge fittings

CLS Body Dimensions

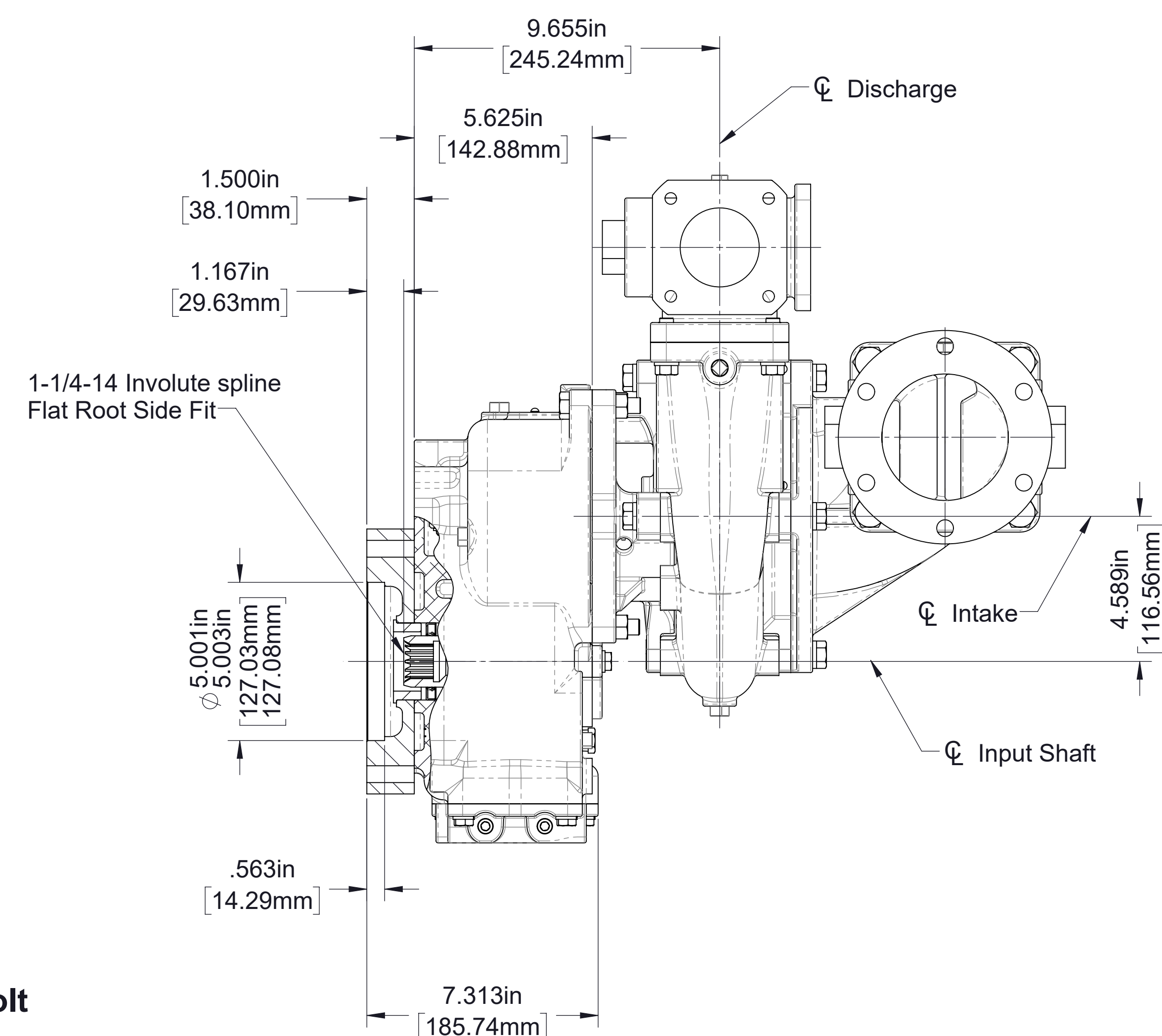
CW Impeller rotation



Keyed Input



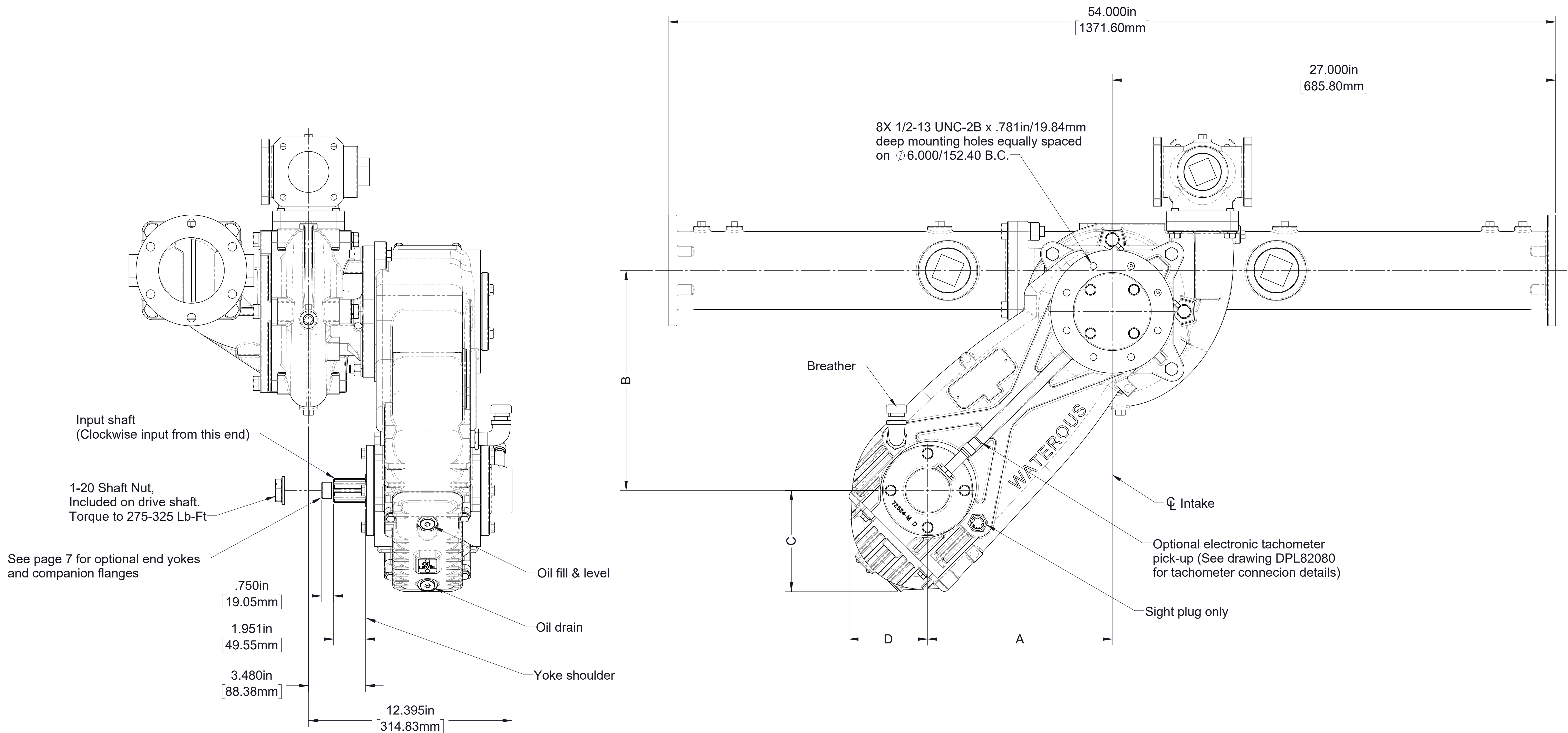
Optional SAE Class "C" 2 or 4 Bolt Hydrulaic Pump Flange Input



Model CLS with K

Clockwise input shown

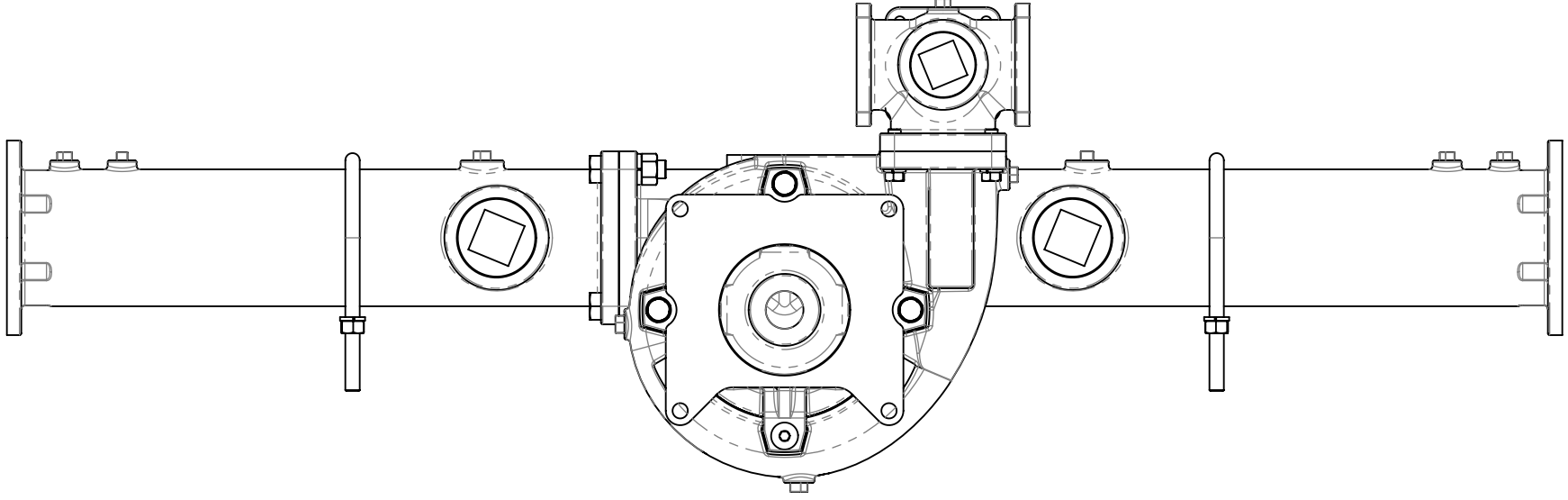
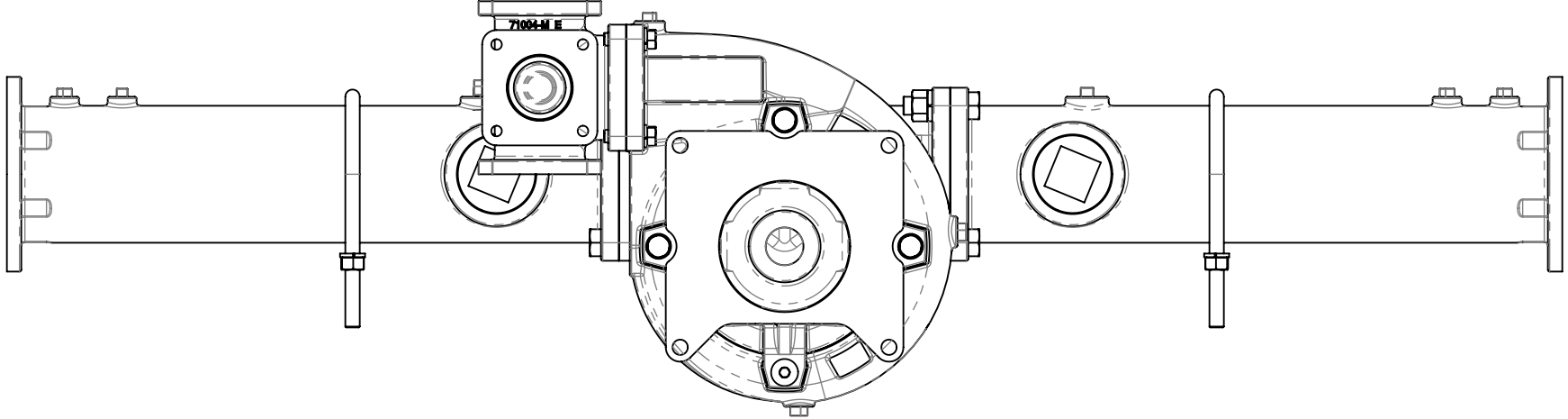
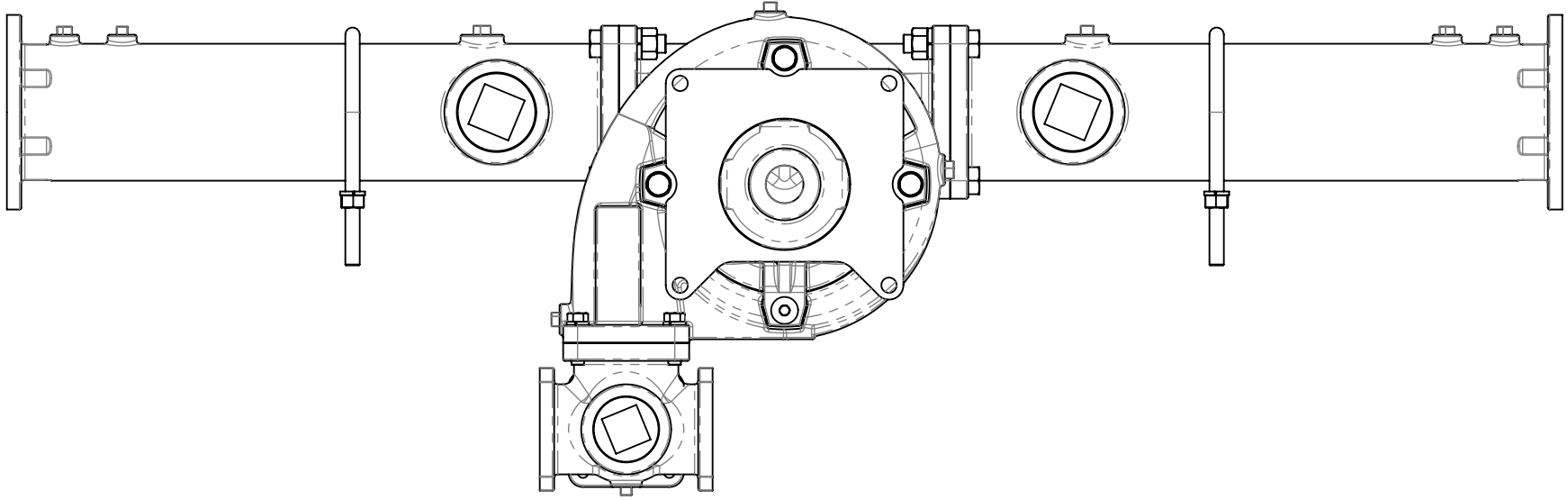
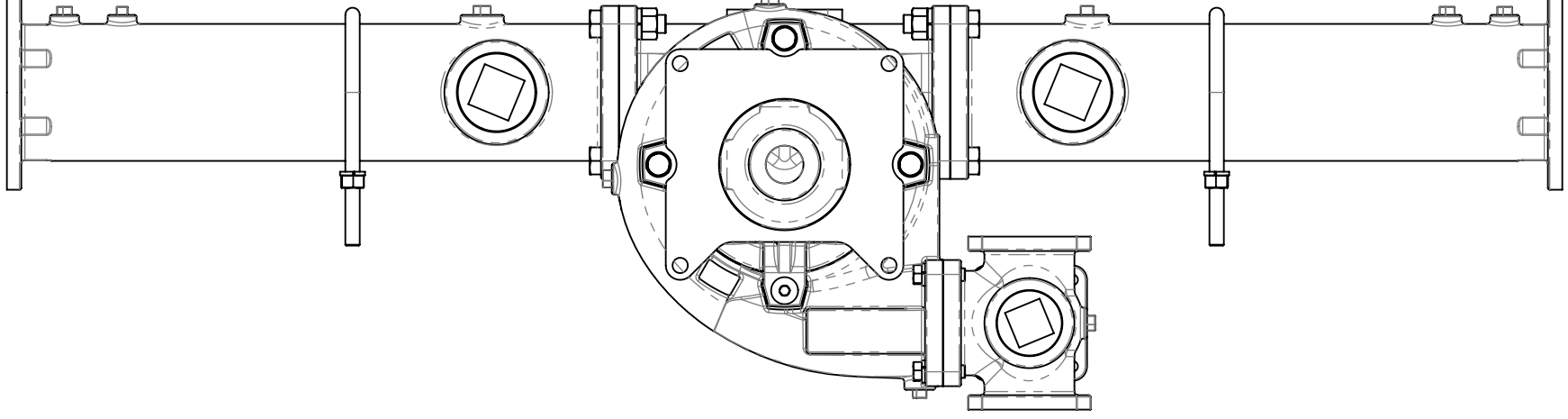
(CLSK in vertical mounting position shown, See page 7 for mounting positions)

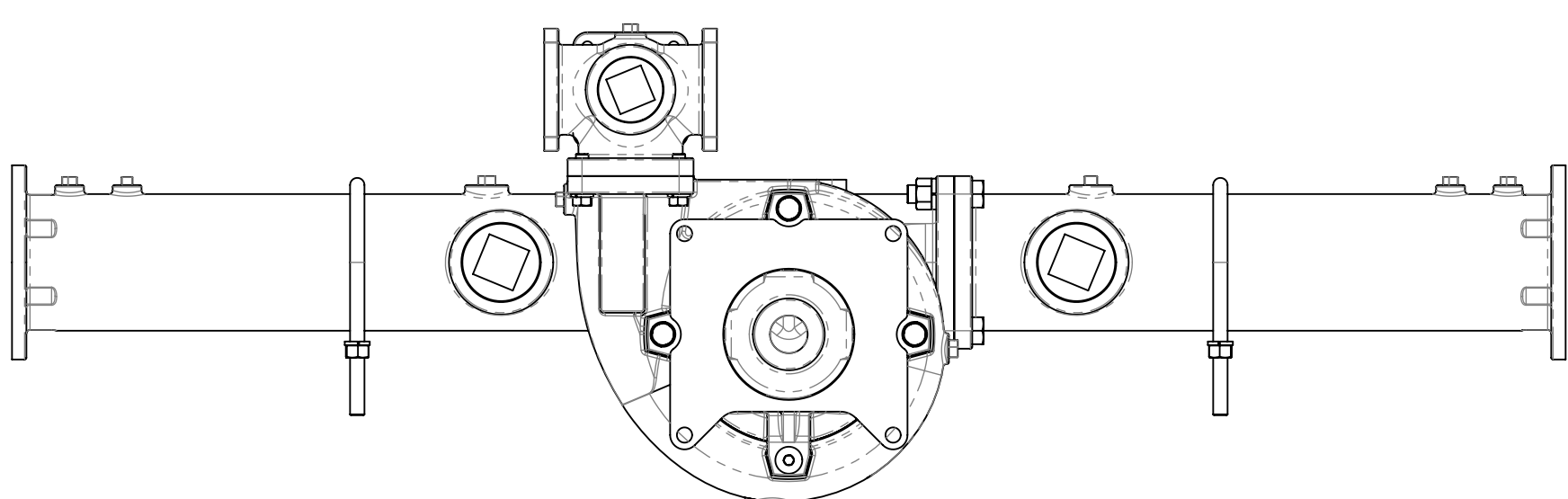
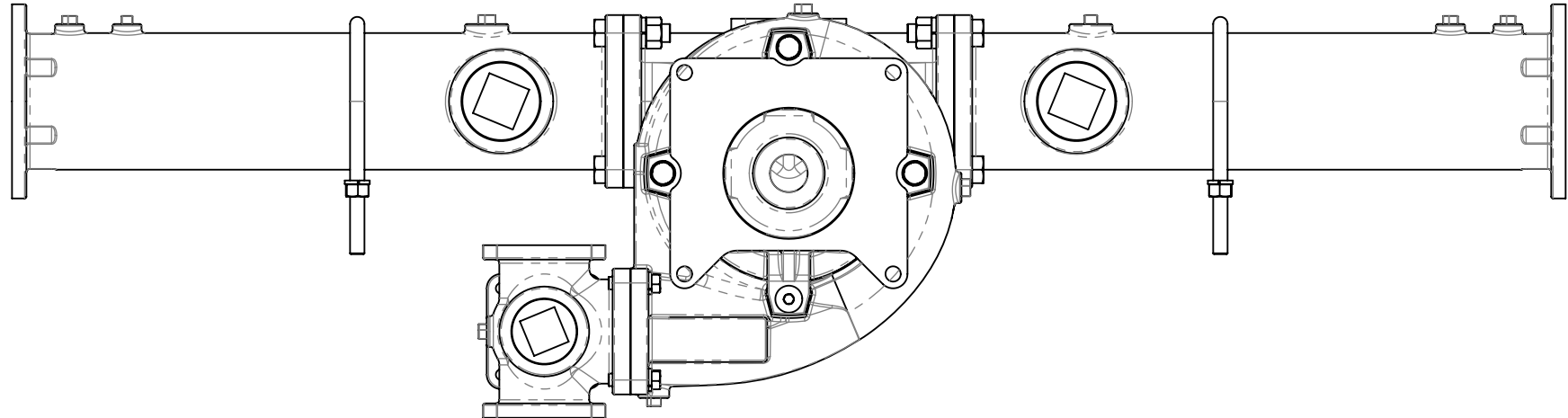
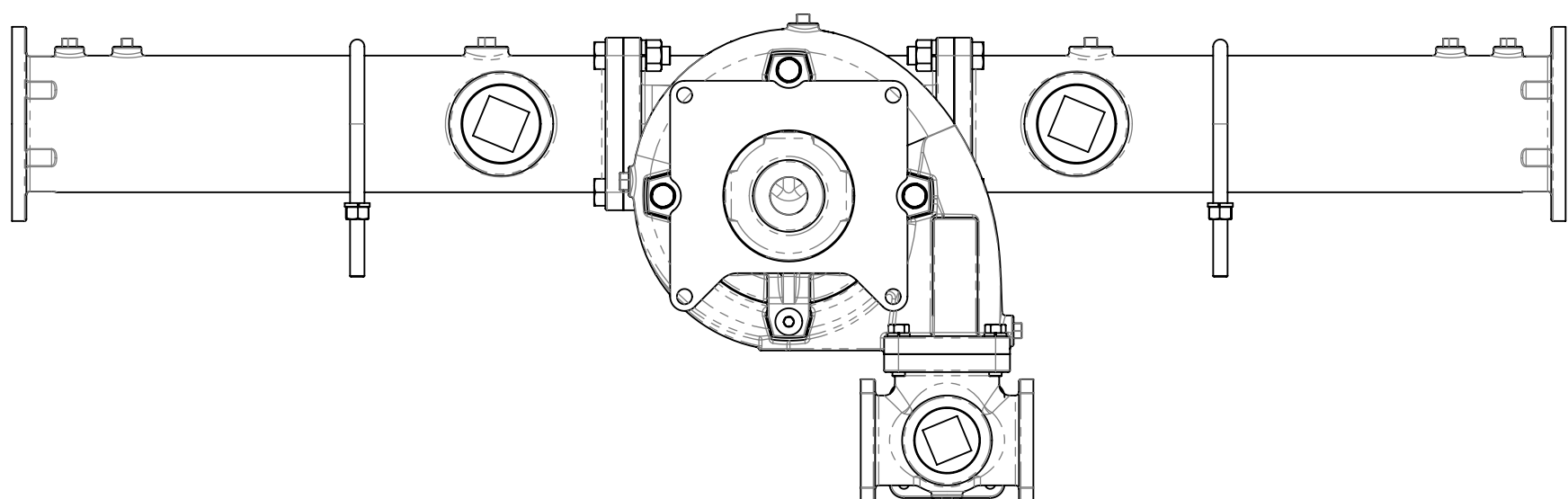
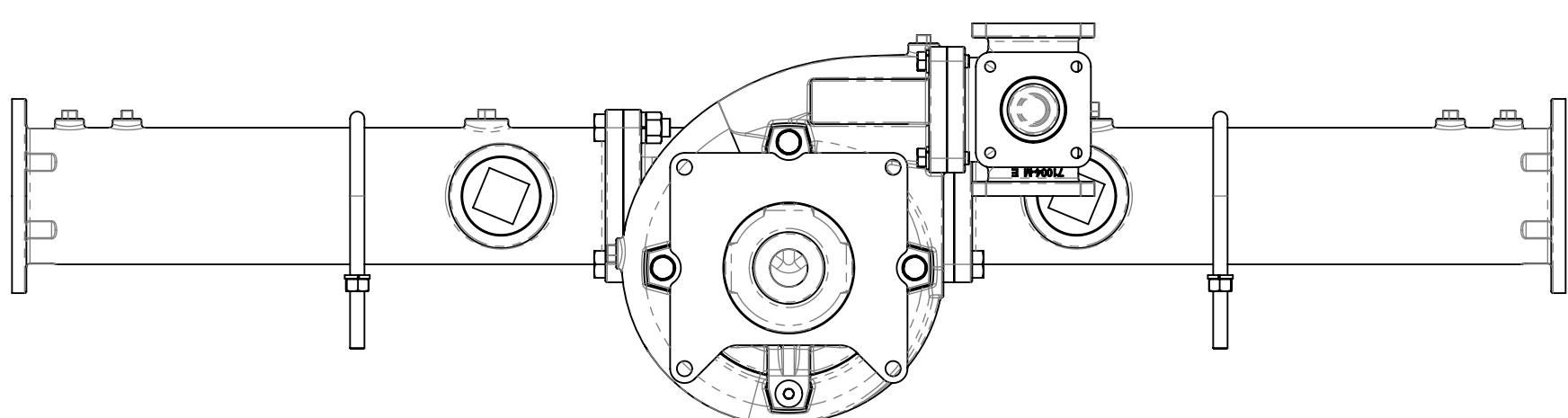


Drive Line		Ratio	Dim A	Dim B	Dim C	Dim D
Size	Spline					
1-1/2 in	1-1/2-10 SAE	1.70	11.288in 286.71mm	13.443in 341.45mm	6.111in 155.22mm	4.737in 120.32mm
		1.90	11.269in 286.24mm	13.424in 340.97mm	6.130in 155.70mm	4.755in 120.79mm
		2.10	11.239in 285.46mm	13.394in 340.21mm	6.160in 156.46mm	4.786in 121.56mm

Model CLS with PA Clockwise input

See drawing DPL82080 for additional details of PA transmission

Discharge Position		Available with:	
		Transmission Series	
		K	PA Vertical
Up		Yes	Yes
Left		Yes	No
Down		Yes	No
Right		Yes	No
Clockwise (CW) Input rotation			

Discharge Position		Available with:	
		Transmission Series	
		K	PA Vertical
Up		Yes	No
Left		Yes	No
Down		Yes	No
Right		Yes	No
Counterclockwise (CCW) Input rotation			

Available pump discharge positions as viewed from transmission end of pump

Available transmission mounting positions as viewed from transmission input shaft

K

Pump Model	Transmission Series	Input Shaft	Optional End Yokes and Companion Flanges See DPL83861 for Dimensions		
			Type	Series	Part Number
CLS	K Medium Duty	1-1/8 in with 5/16 in Key	Companion Flange	1310	Q-0315208
	PA	1-1/2-10 SAE Splined Shaft	End Yoke	1410	V 2861
			Companion Flange	1350/1410	V 1822
				70 mm Male Pilot	73330

PA