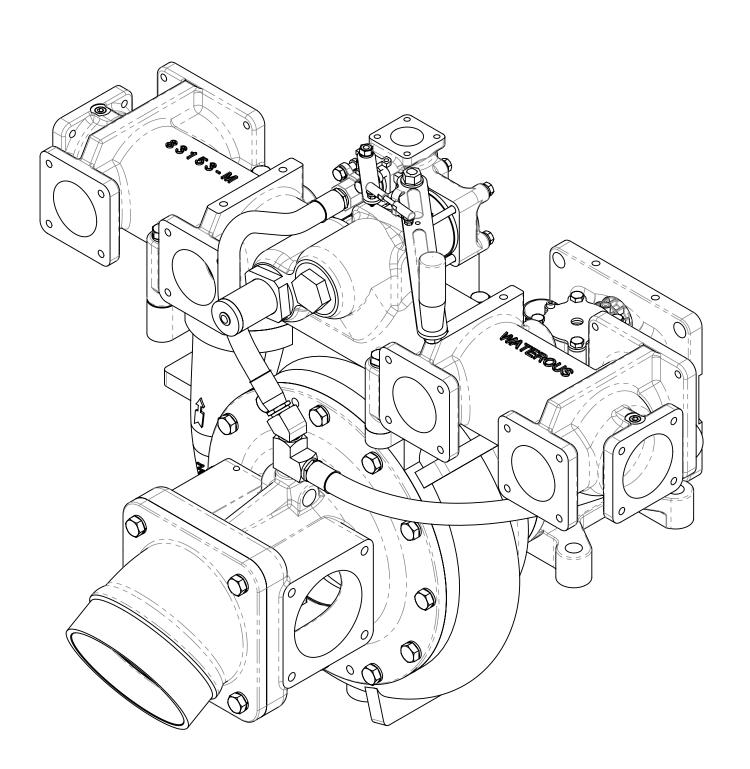
Document Number	Issue Date	Rev. Date
DPL83893	09/13/22	07/18/24

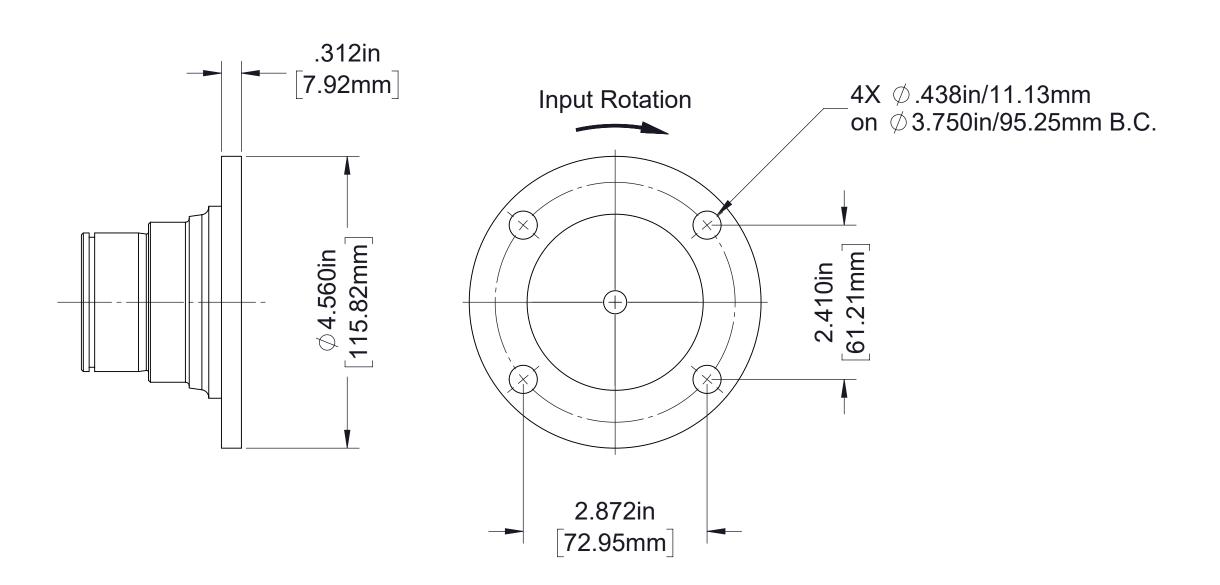
HL400 Series Pump Dimensional Drawings

Without Piston Primers

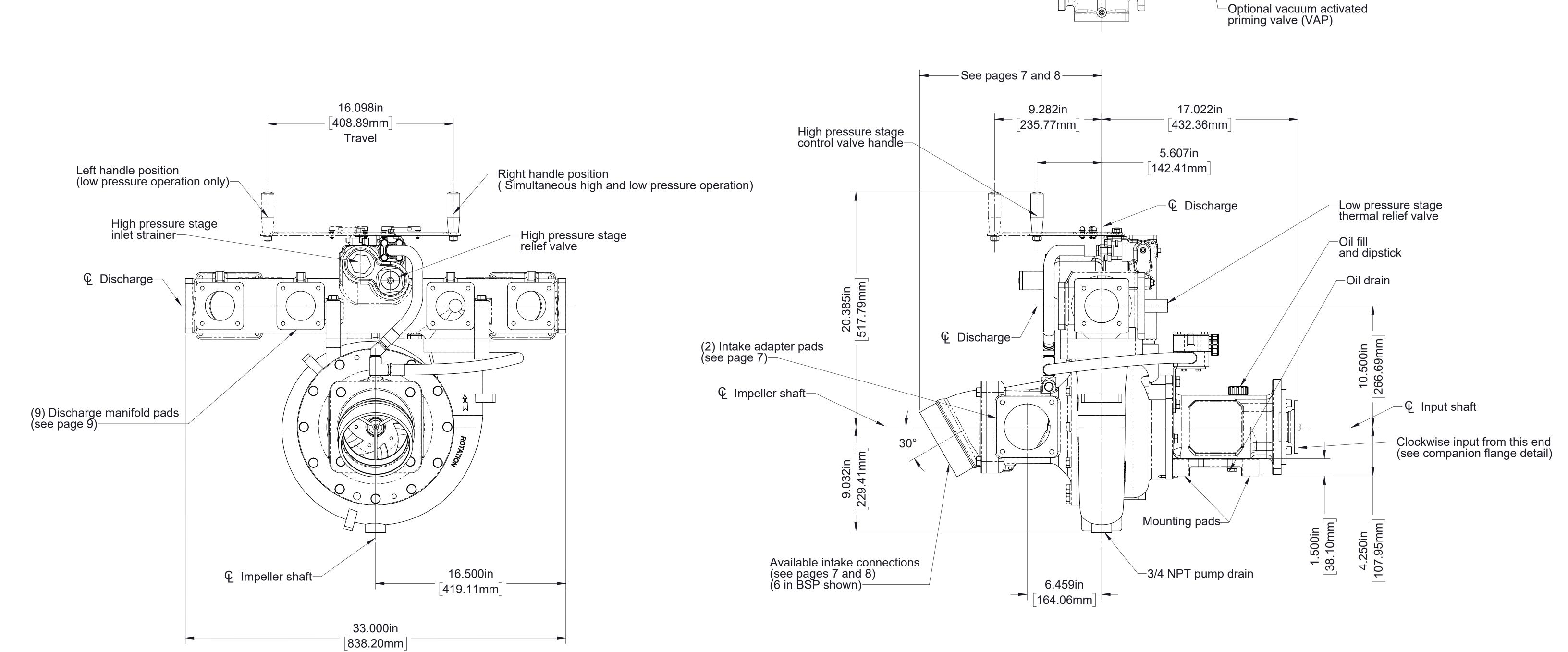
	Drive				See Page									
Pump Model	Type	Input Shaft	Input Rotation (1)	Impeller Rotation (2)	Pump and Transmission			Available		Optional				
					Pump Mounting Positions	Intake Connections	Discharge Manifold	Auxiliary Fittings	RTP Foam System		Control Panels		Gauges	
									Mounted on Pump	Remotely Mounted	Panels	Wiring Schematic	and Monitors	
HL400D	Direct Drive	1410 Series Companion Flange		CCW	2		Standard (7) Short (8)	9	10, 11	12	See DPL83197	13	14	15
			CCW	CW	3									
HL400K	Heavy Duty K Series Transmission	1-3/8-10 SAE Spline	CW	CW	4	6								
			CCW	CCW	5	6								

- Notes:
 1. Drive input rotation defined as viewed looking directly at direct drive or transmission input shaft.
 2. Impeller rotation defined as viewed looking directly into impeller eye from intake end of pump.





1410 Series Companion Flange Detail



12.890in

327.41mm

6.000in

152.40mm

← Discharge

—

3109

0

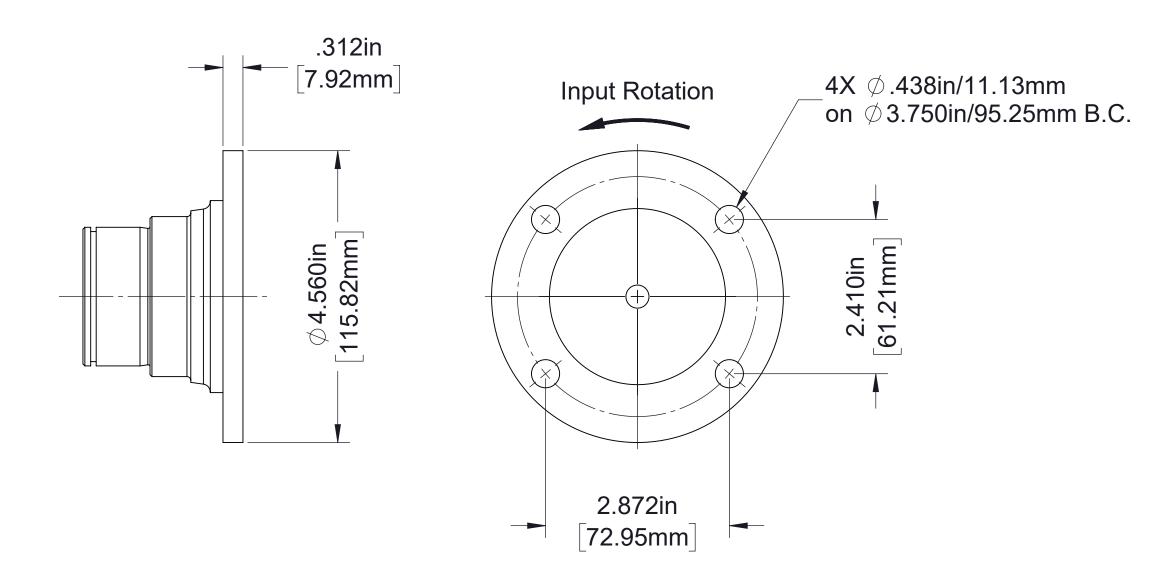
Electronic tachometer
(3 meter cable furnished with pump)

10.500in 266.70mm

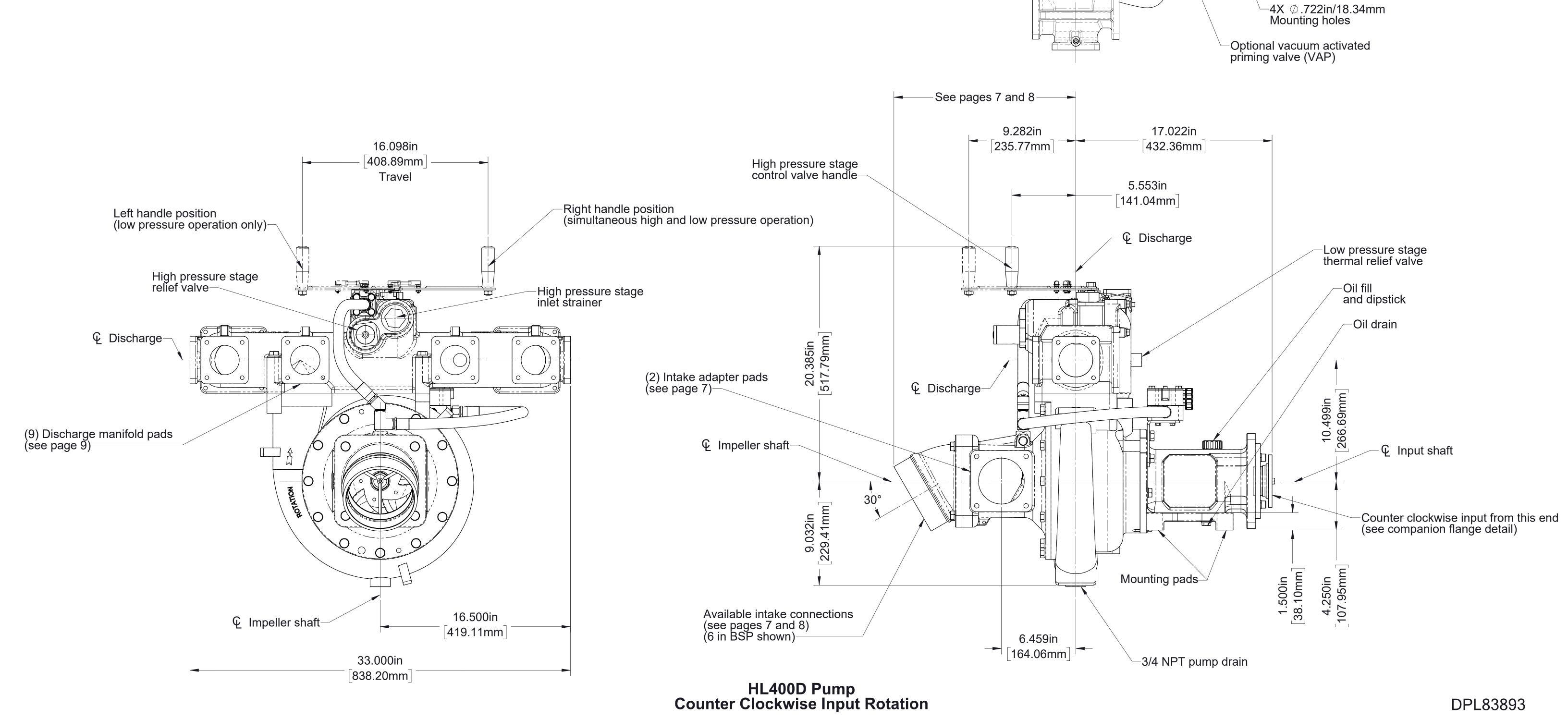
– 促 Impeller and input shaft

-4X ∅.722in/18.34mm Mounting holes

5.250in [133.35mm]



1410 Series Companion Flange Detail



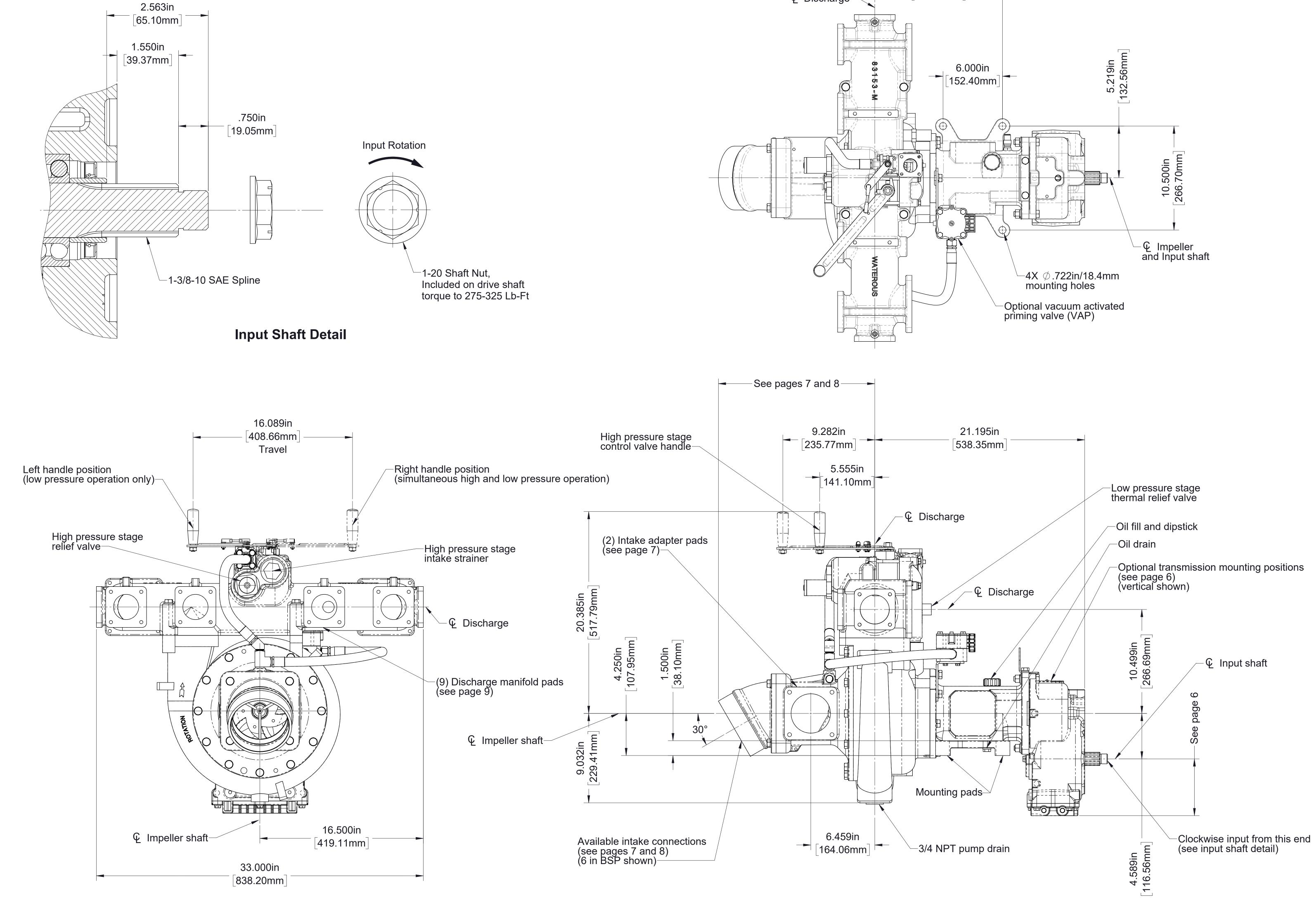
12.890in

[327.41mm]

Electronic tachometer (3 meter cable furnished with pump)

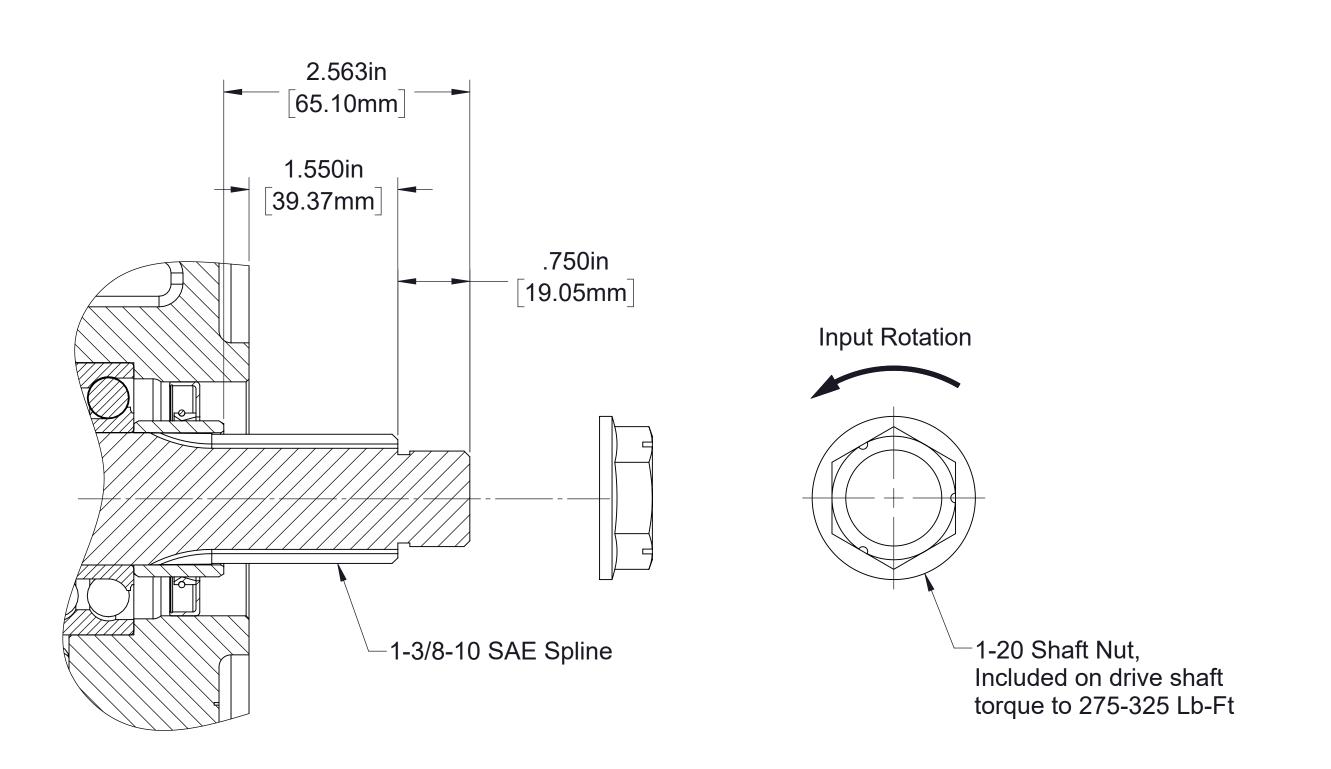
5.250in [133.35mm]

10.500in 266.70mm

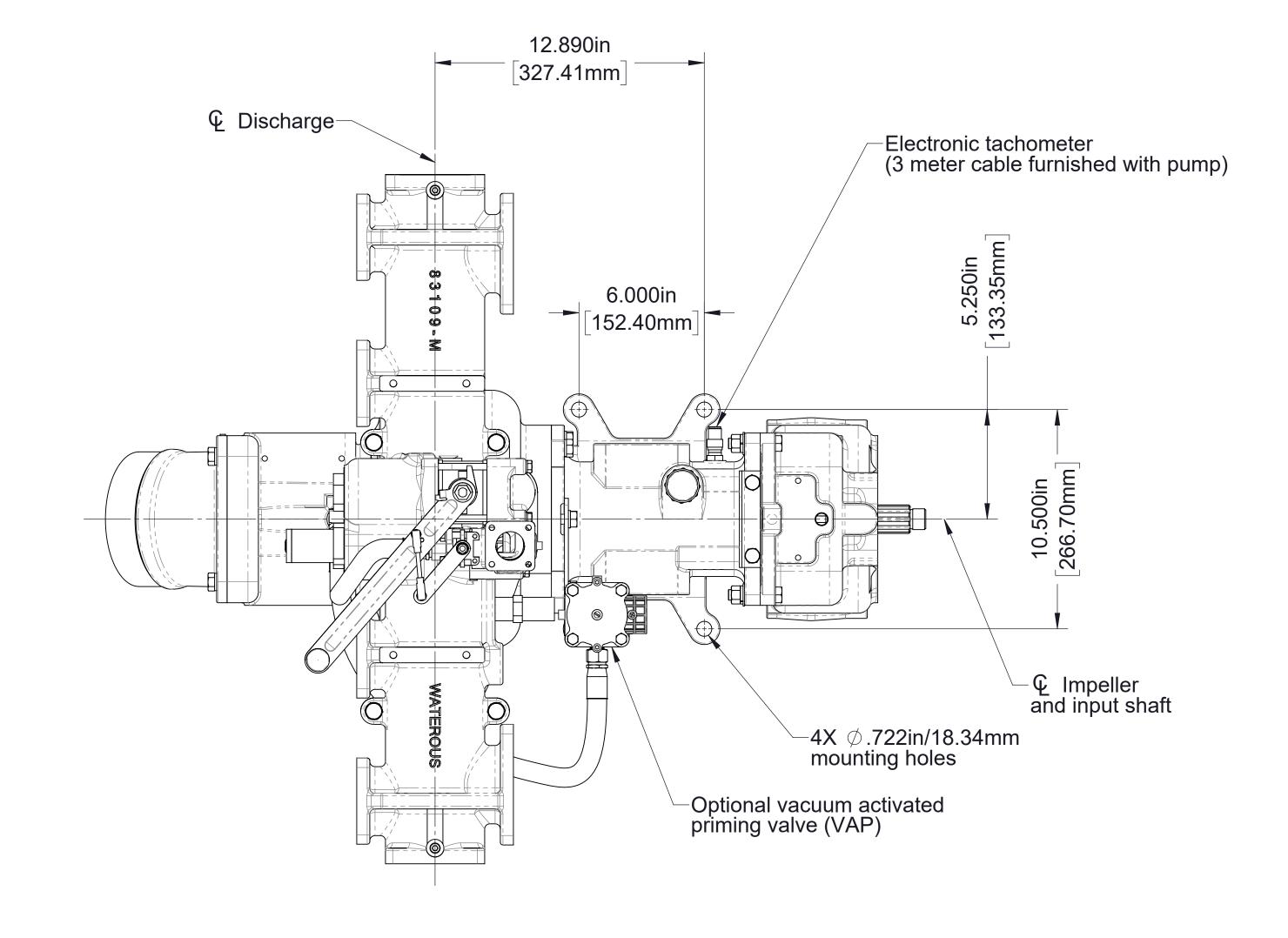


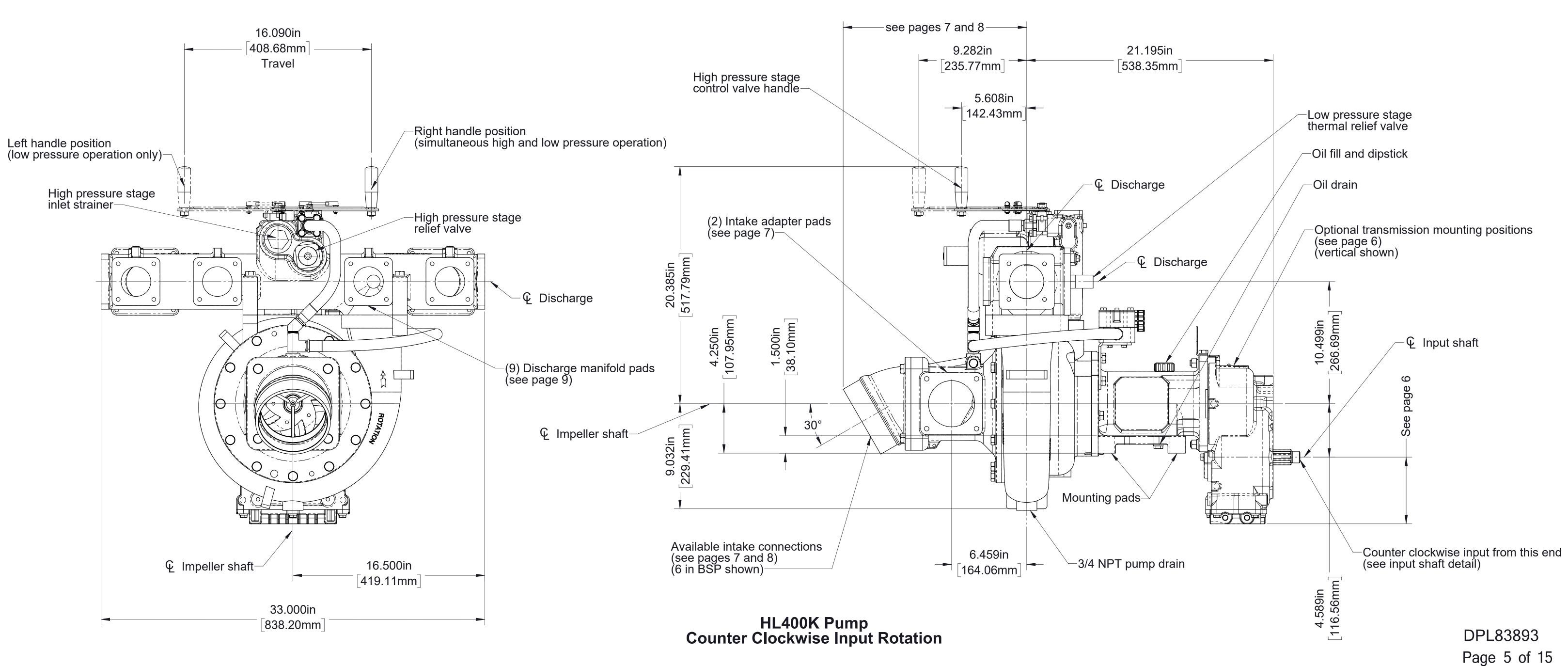
12.890in

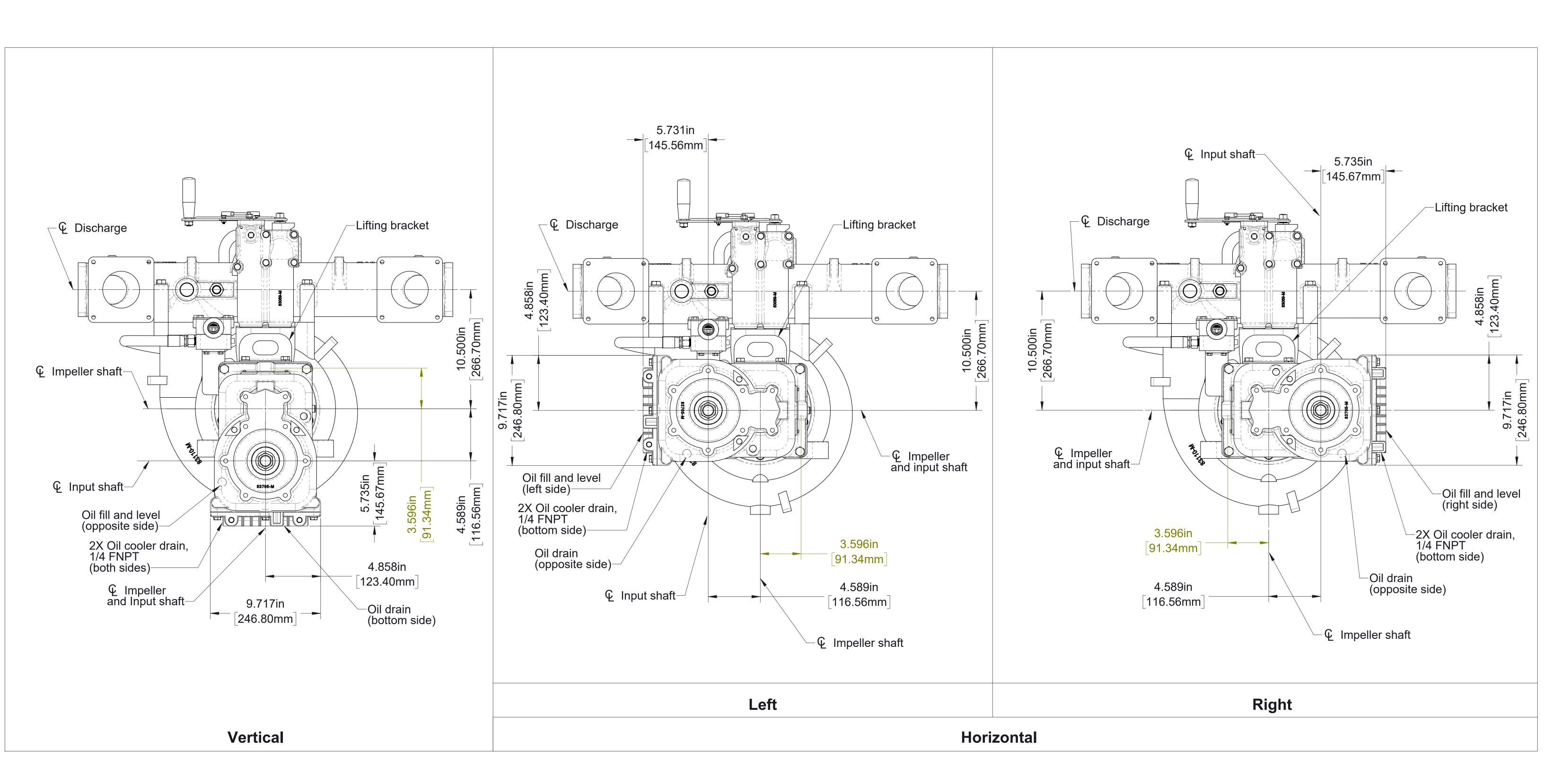
[327.41mm]



Input Shaft Detail

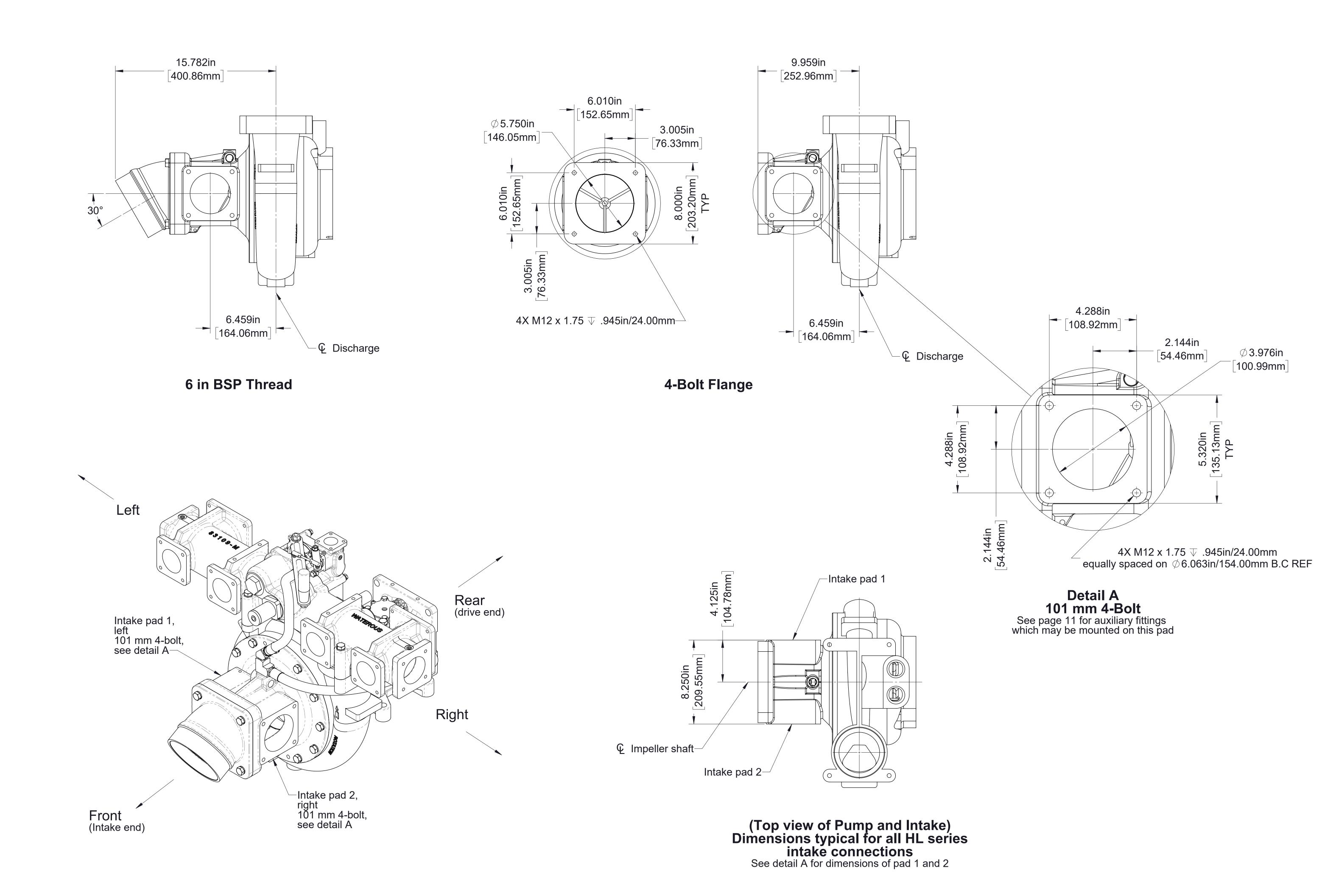


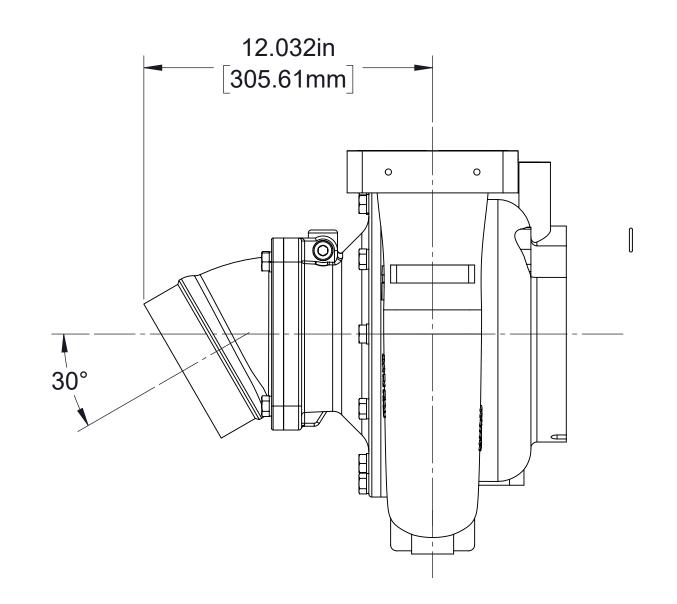


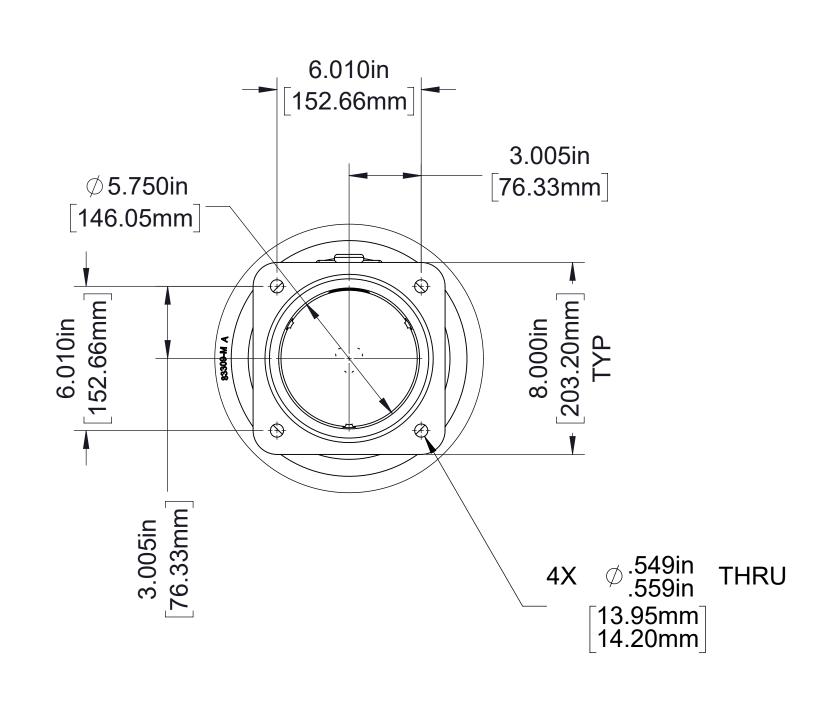


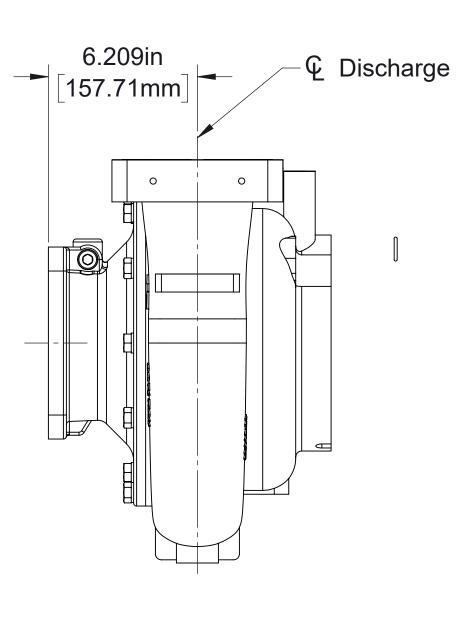
Transmission Mounting Positions

(Defined as viewed from drive end of pump)



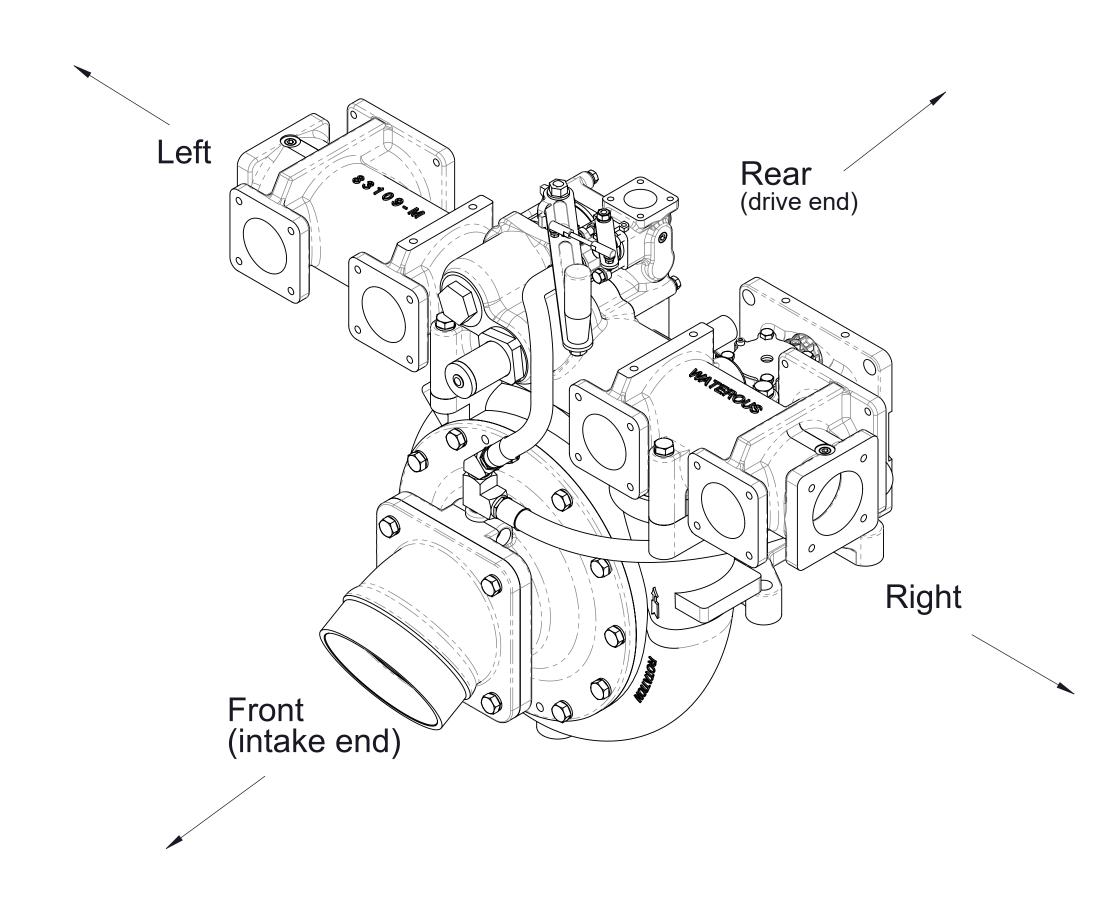


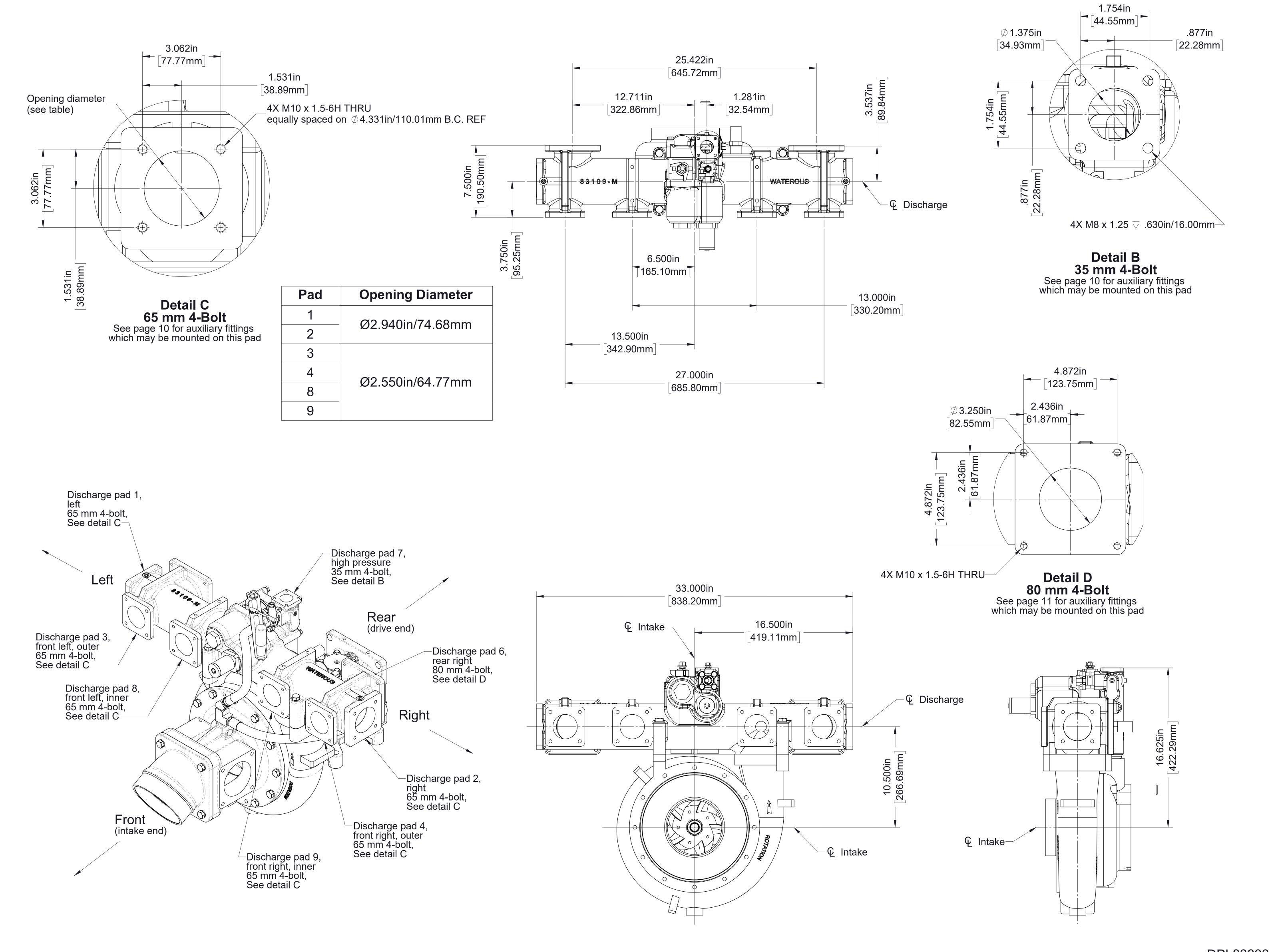


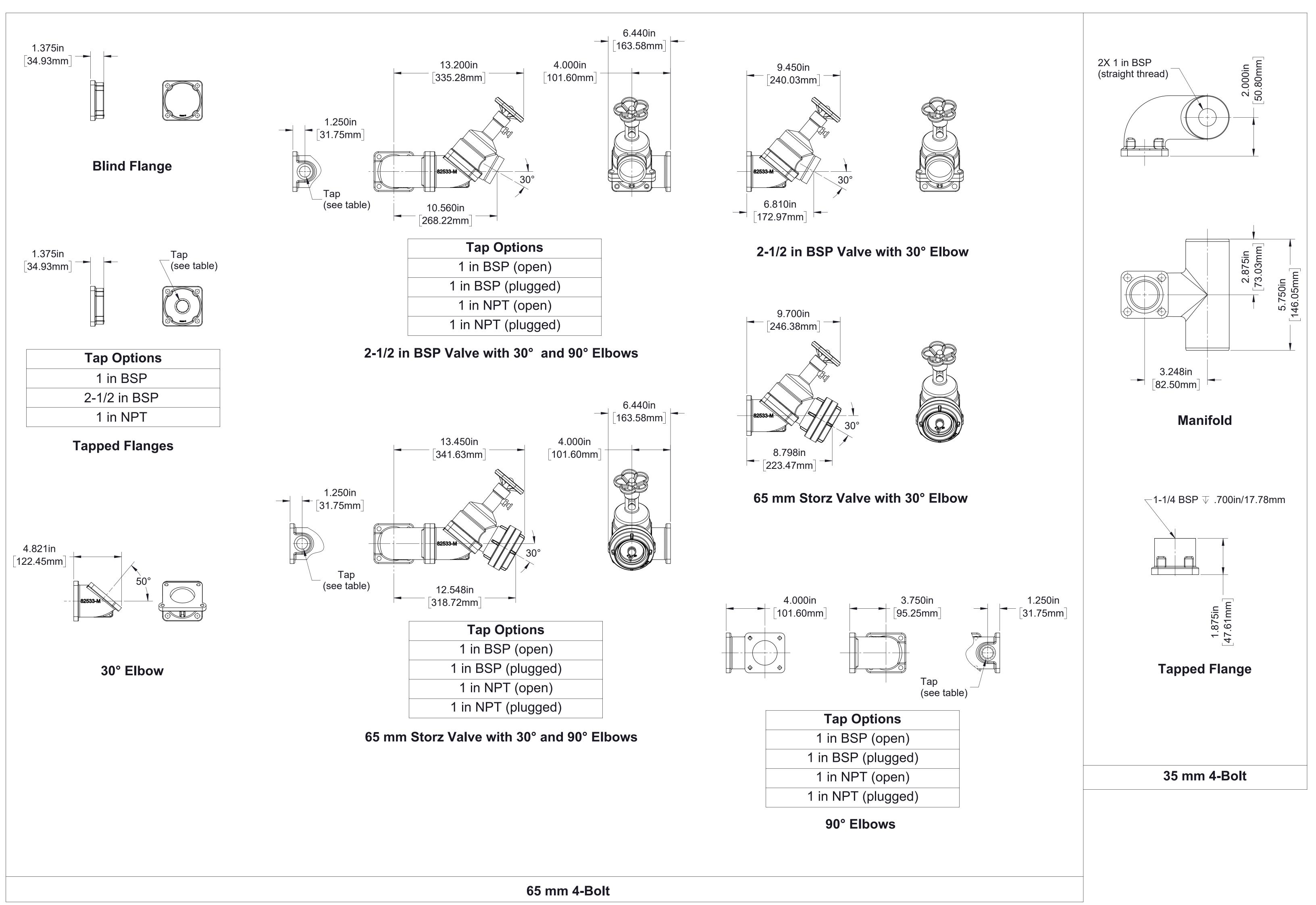


6 in BSP Thread

4-Bolt Flange

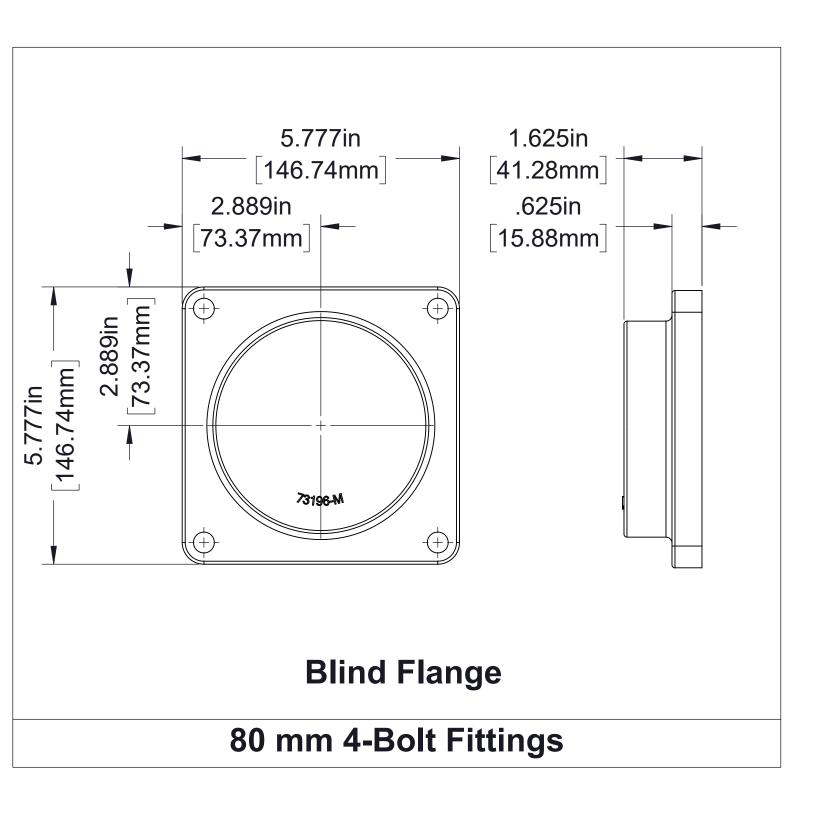


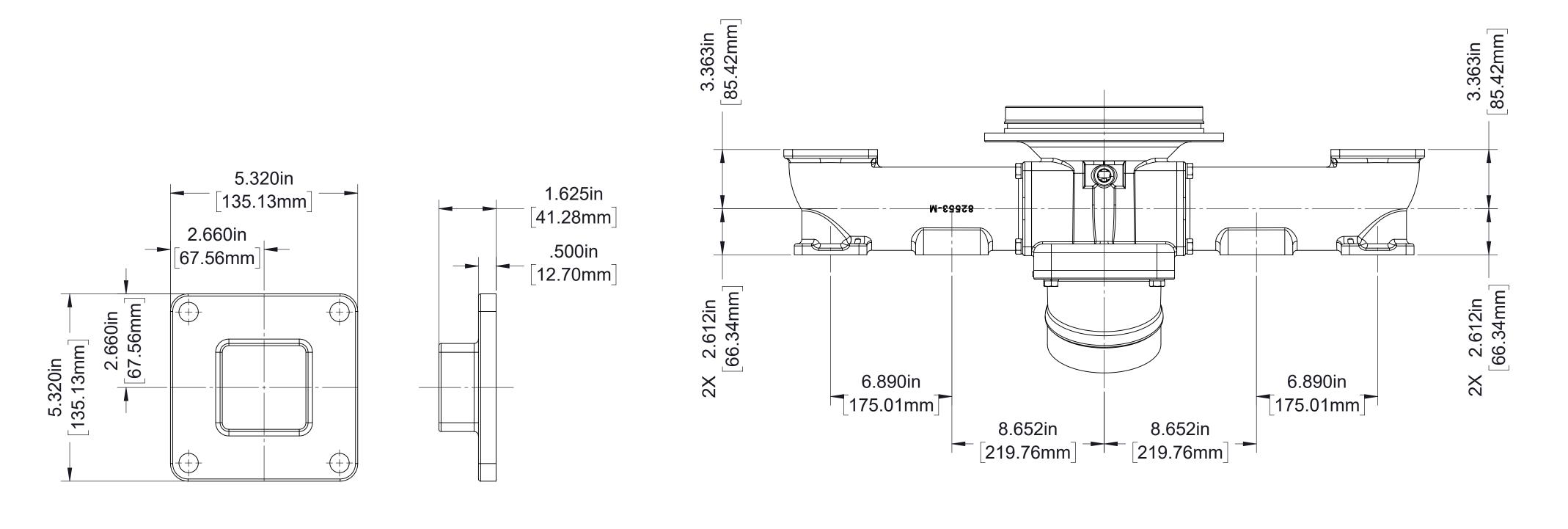


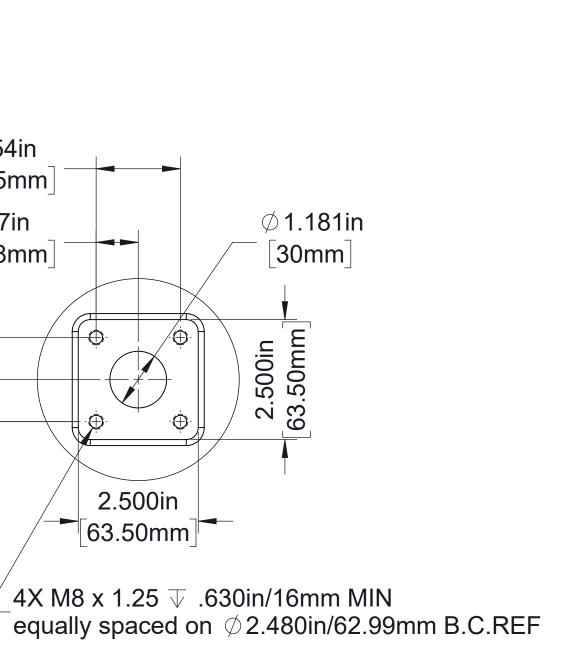


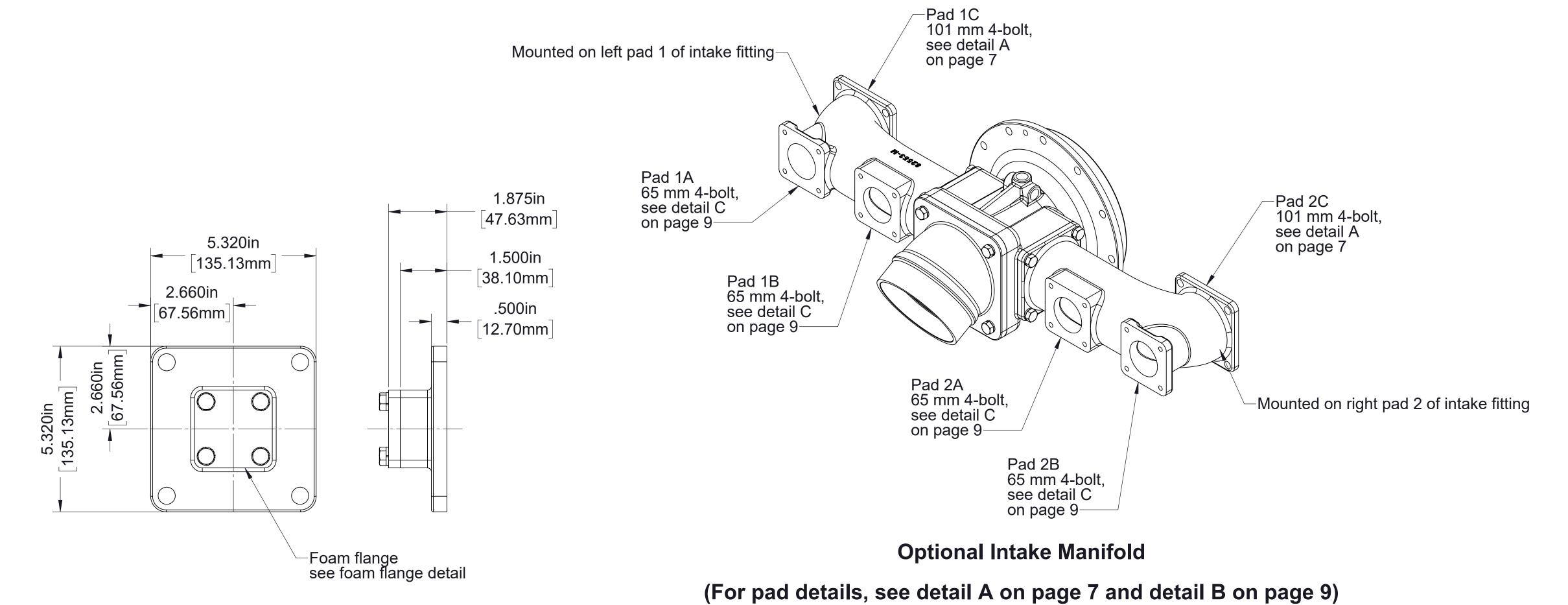
Auxiliary Fittings

DPL83893









Foam Flange Detail

1.754in

44.55mm

.877in

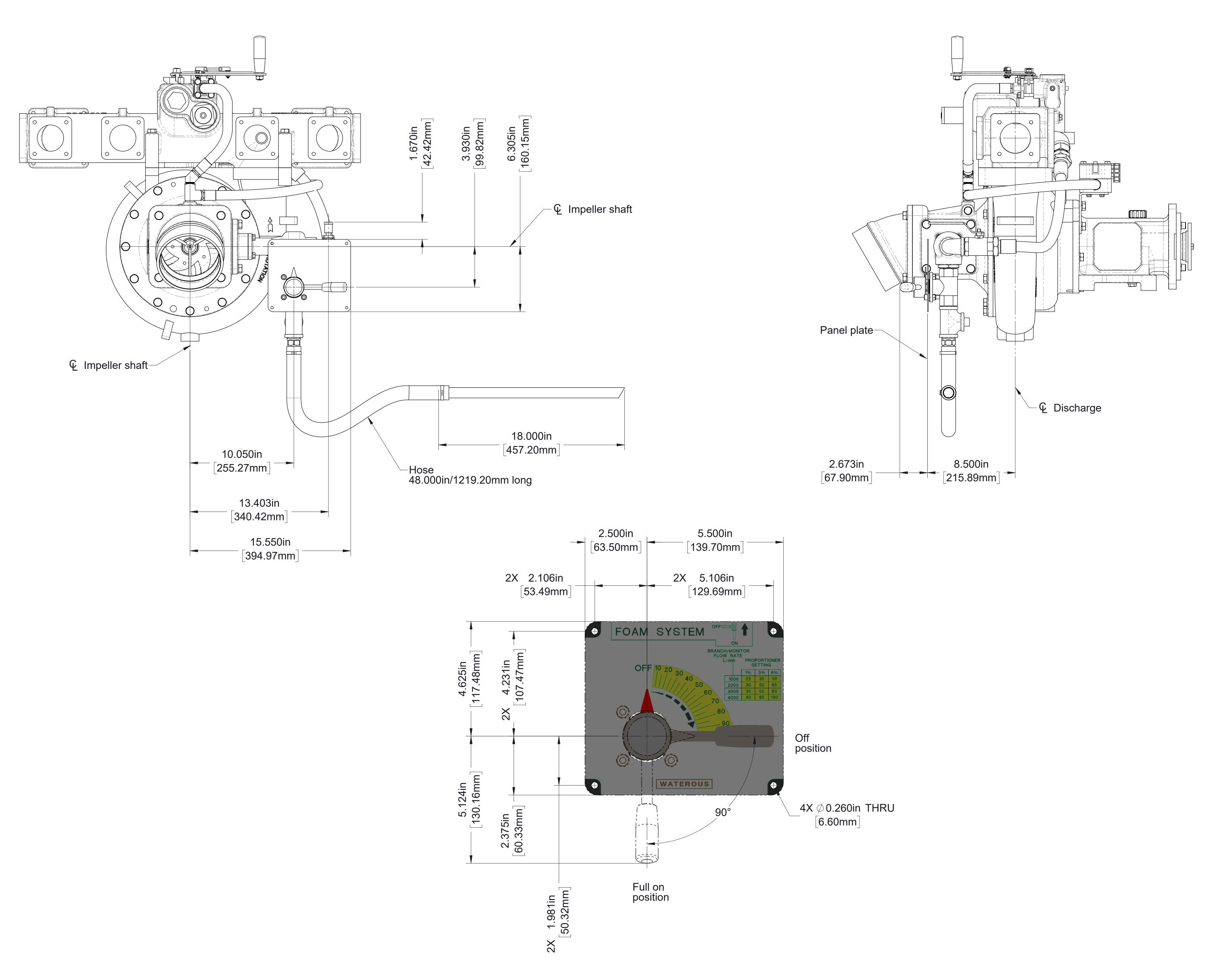
[22.28mm]

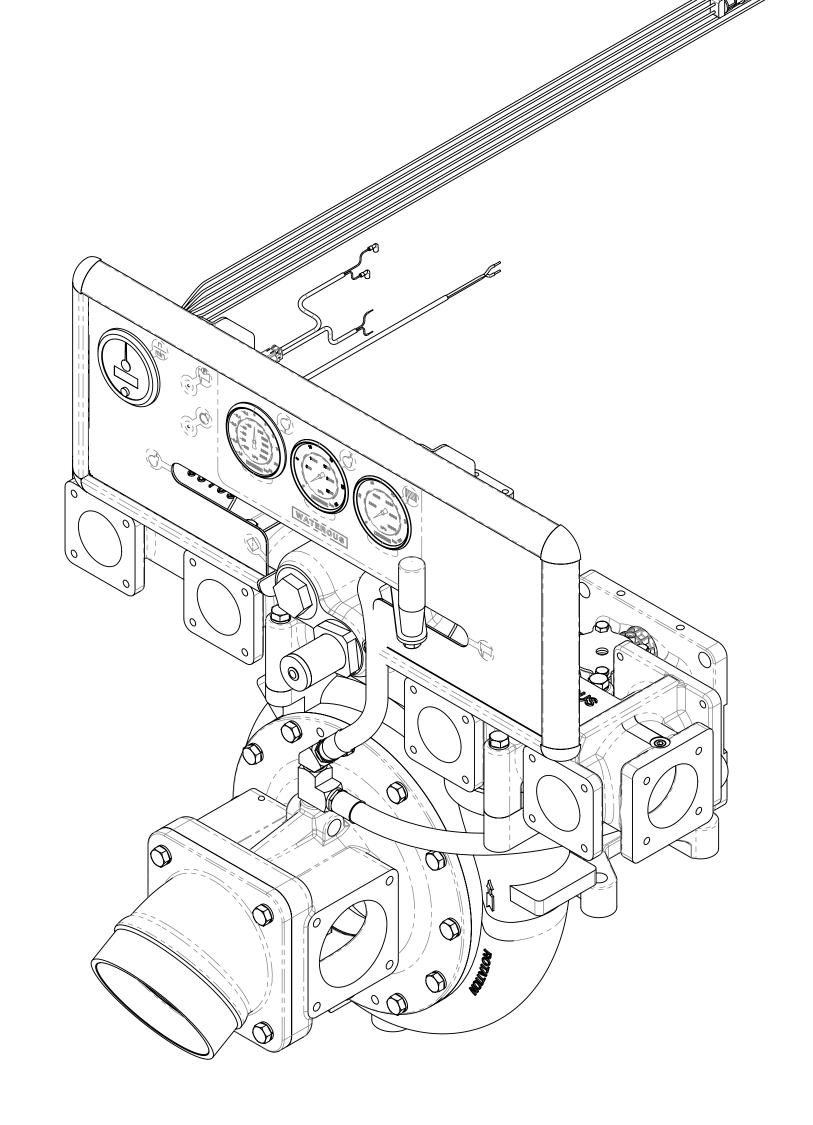
1.754in [44.55mm]

Foam Flange with Blind Foam Pad

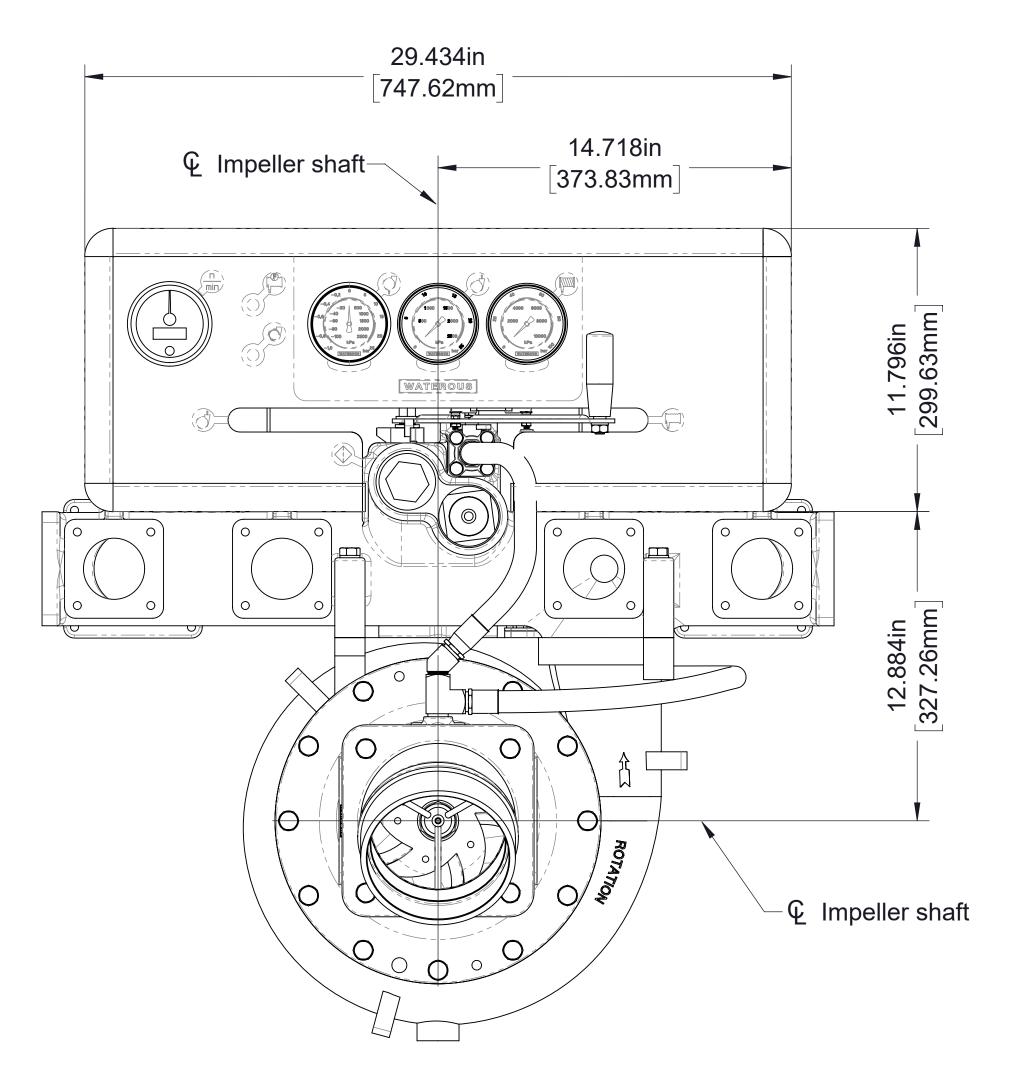
101 mm 4-Bolt
Auxiliary Fittings

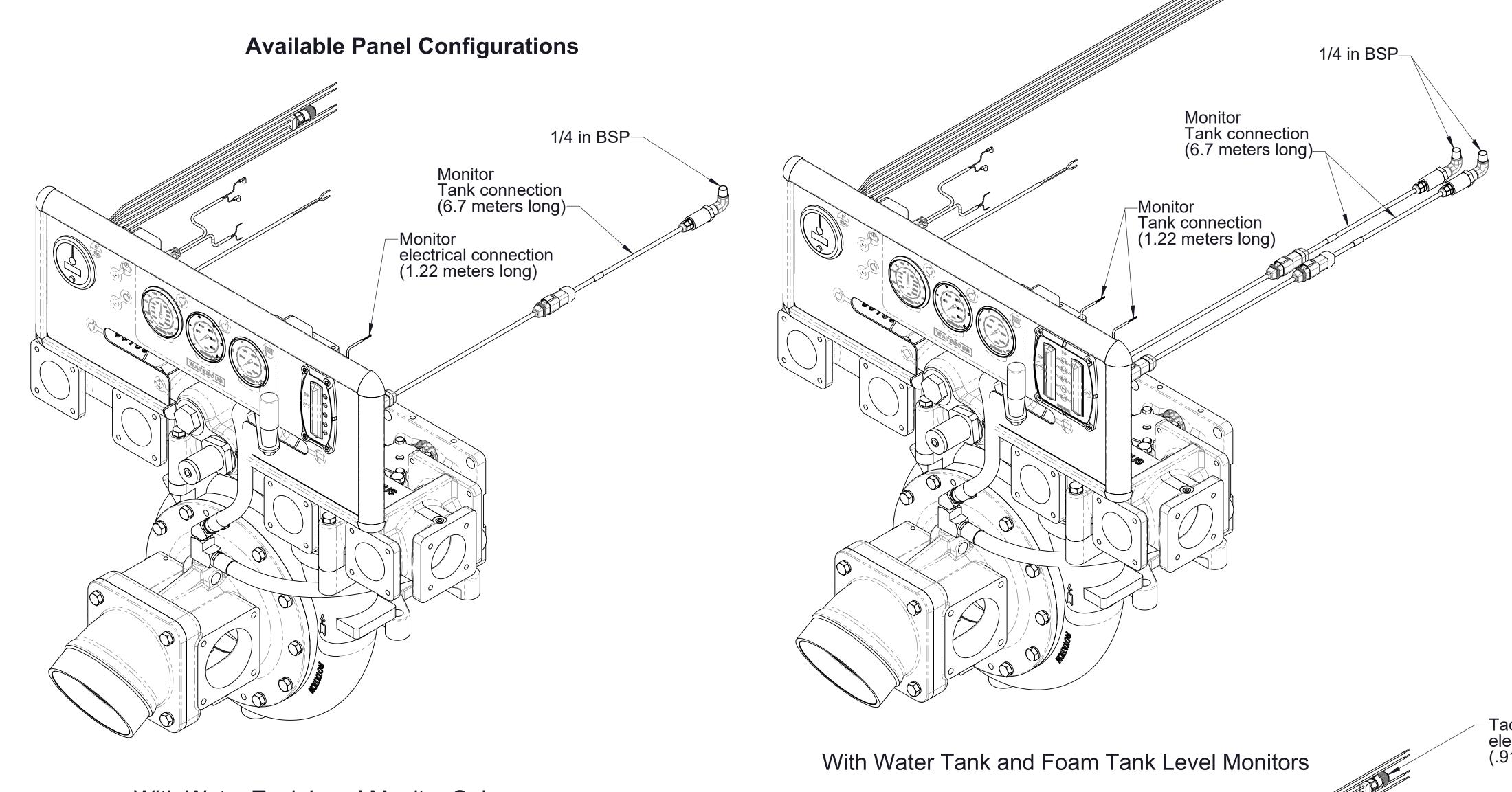
Blind Flange

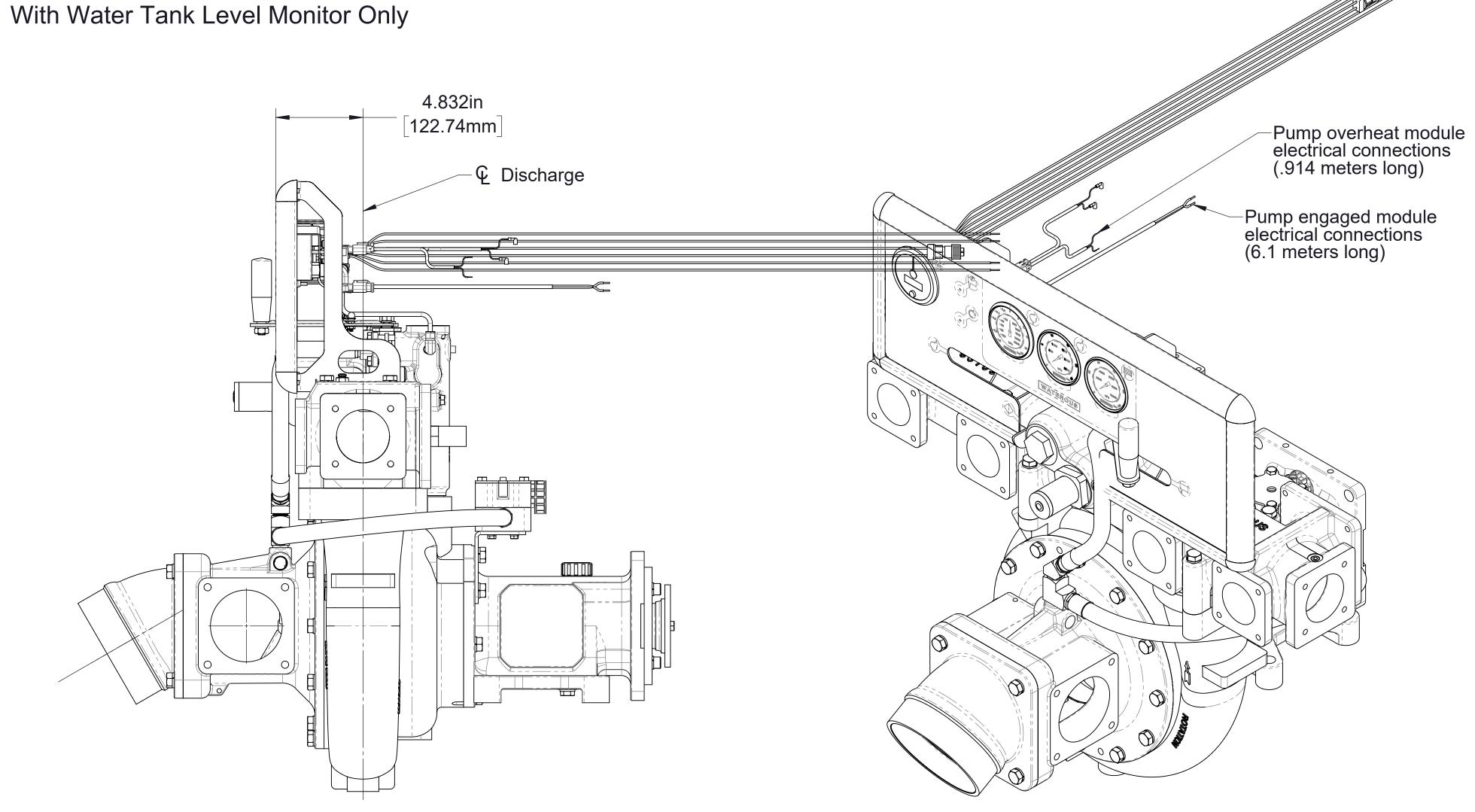


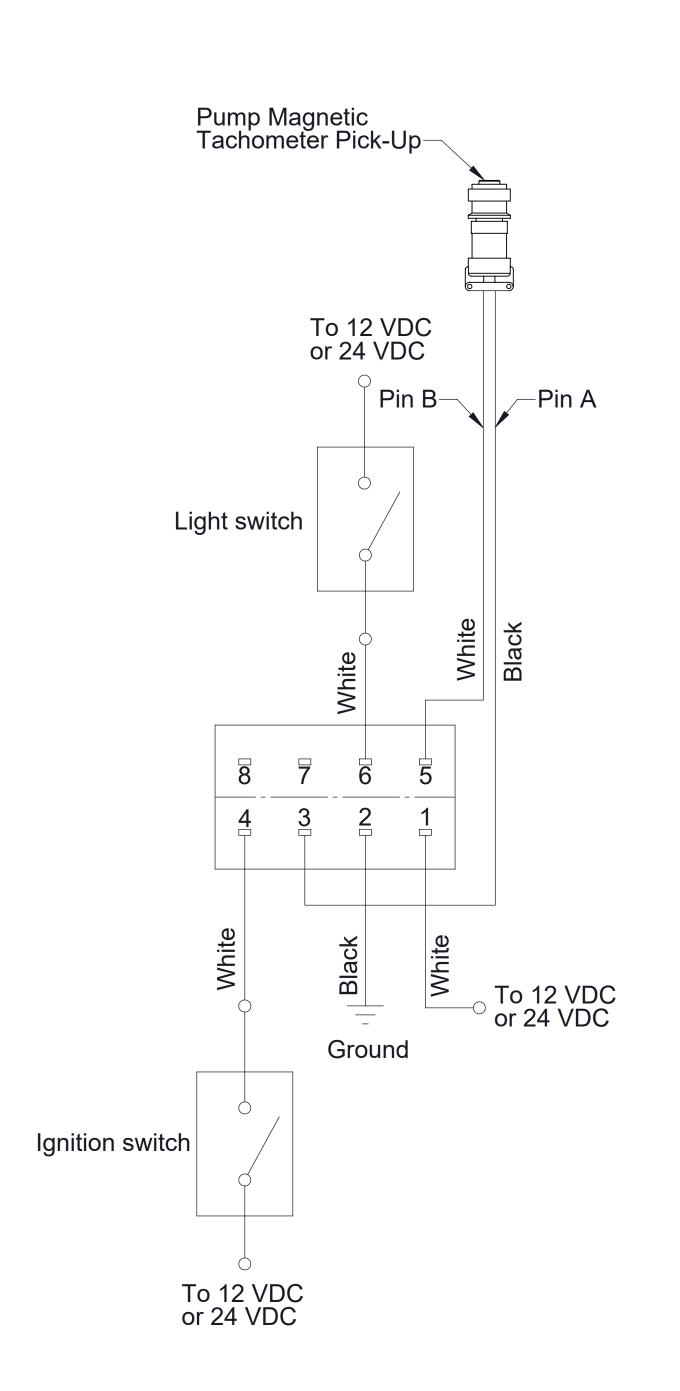


Without Tank Level Monitors



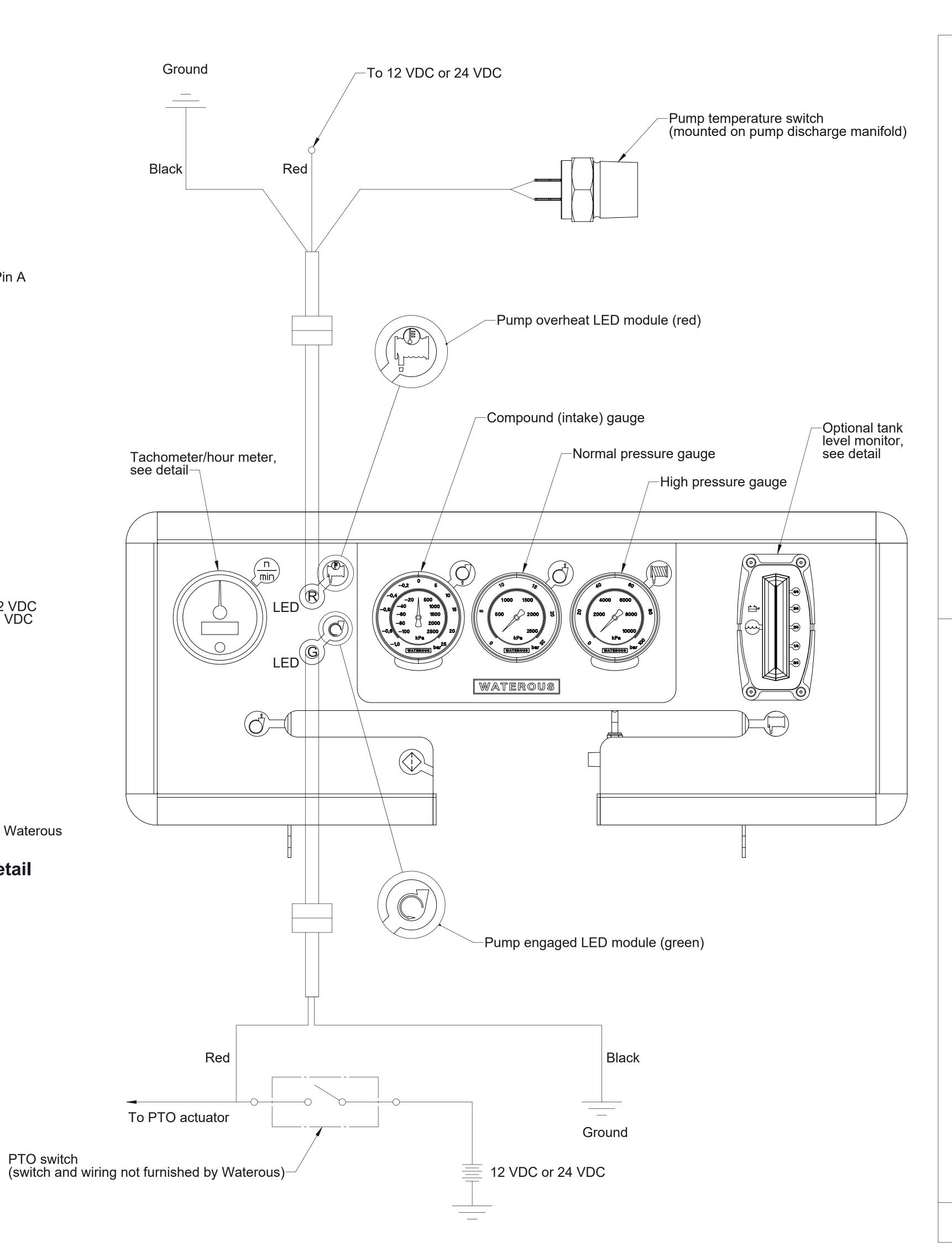


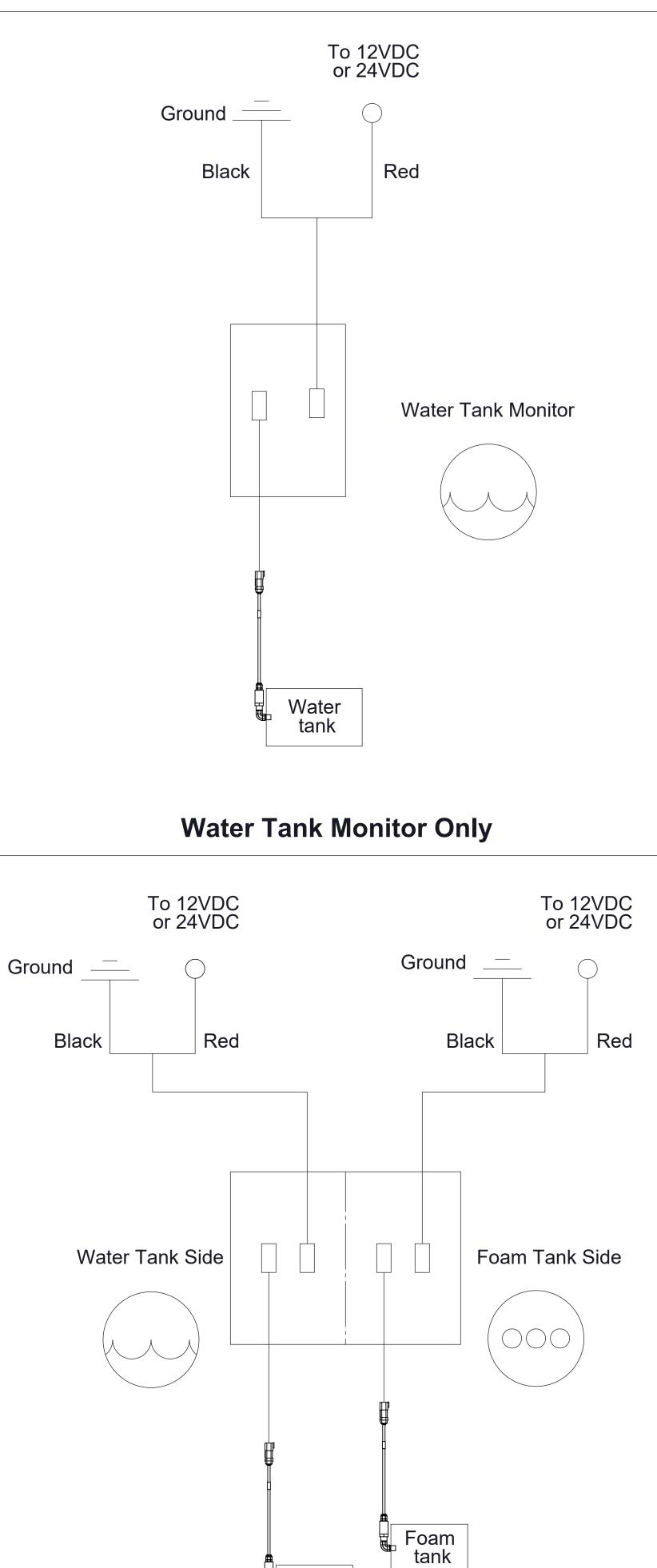




Note: Switches and wiring not furnished by Waterous

Tachometer/Hour Meter Detail

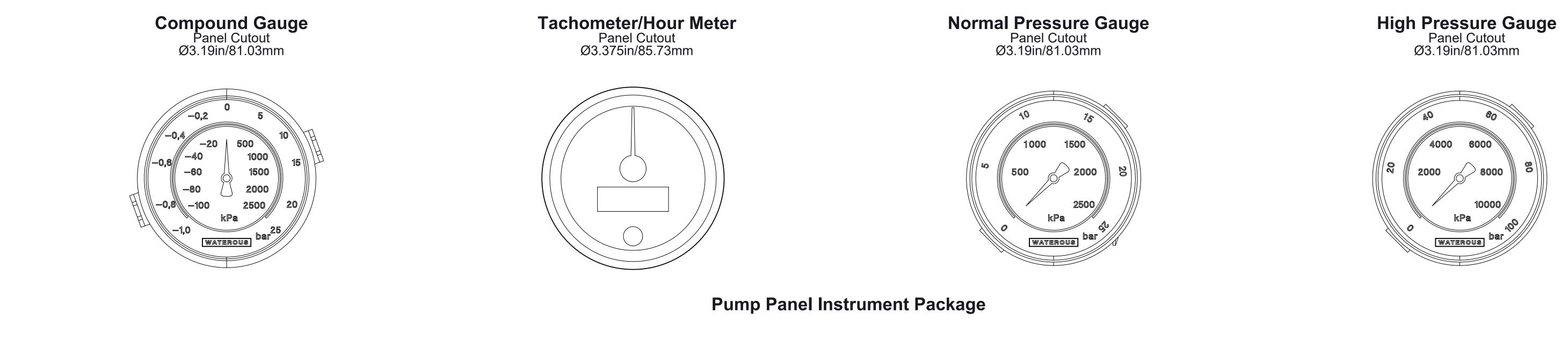




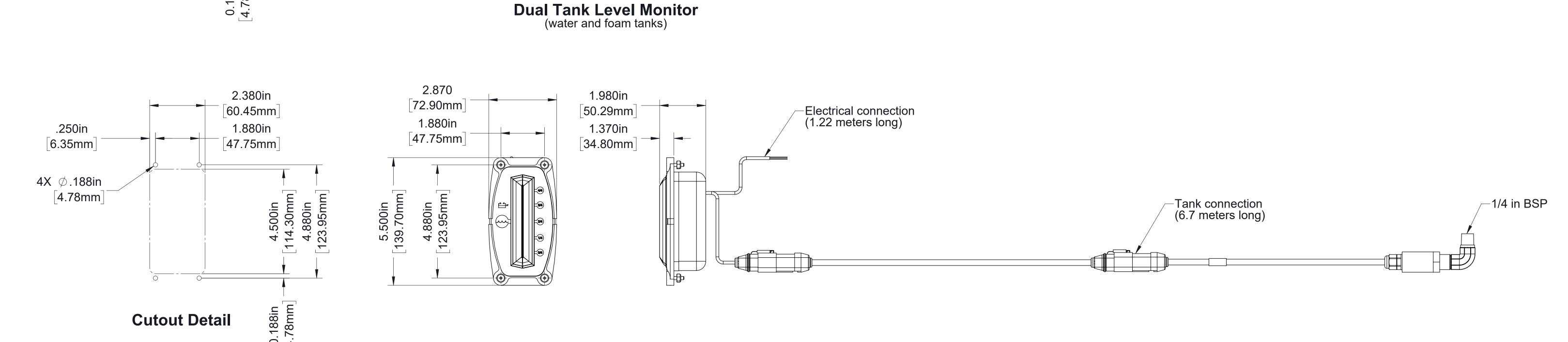
Water tank

Water and Foam Tank Monitors

Optional Tank Level Monitor Detail



5.300in 1.980 4.750in 134.62mm [50.29] 120.65mm -Electrical connections (1.22 meters long) 4.250in 1.370in .250in 4.250in [107.95mm] -[134.62mm] ¹ [107.95mm] [6.35mm] Tank connections (6.7 meters long) -1/4 in BSP 4X ∅.188in [4.78mm] 4.500in [114.30mm] 5.500in [139.70mm] 4.880in [123.95mm] **Cutout Detail**



Water Tank Level Monitor