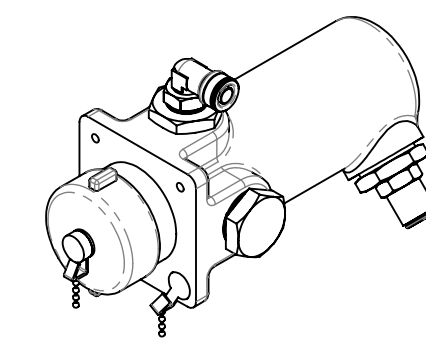
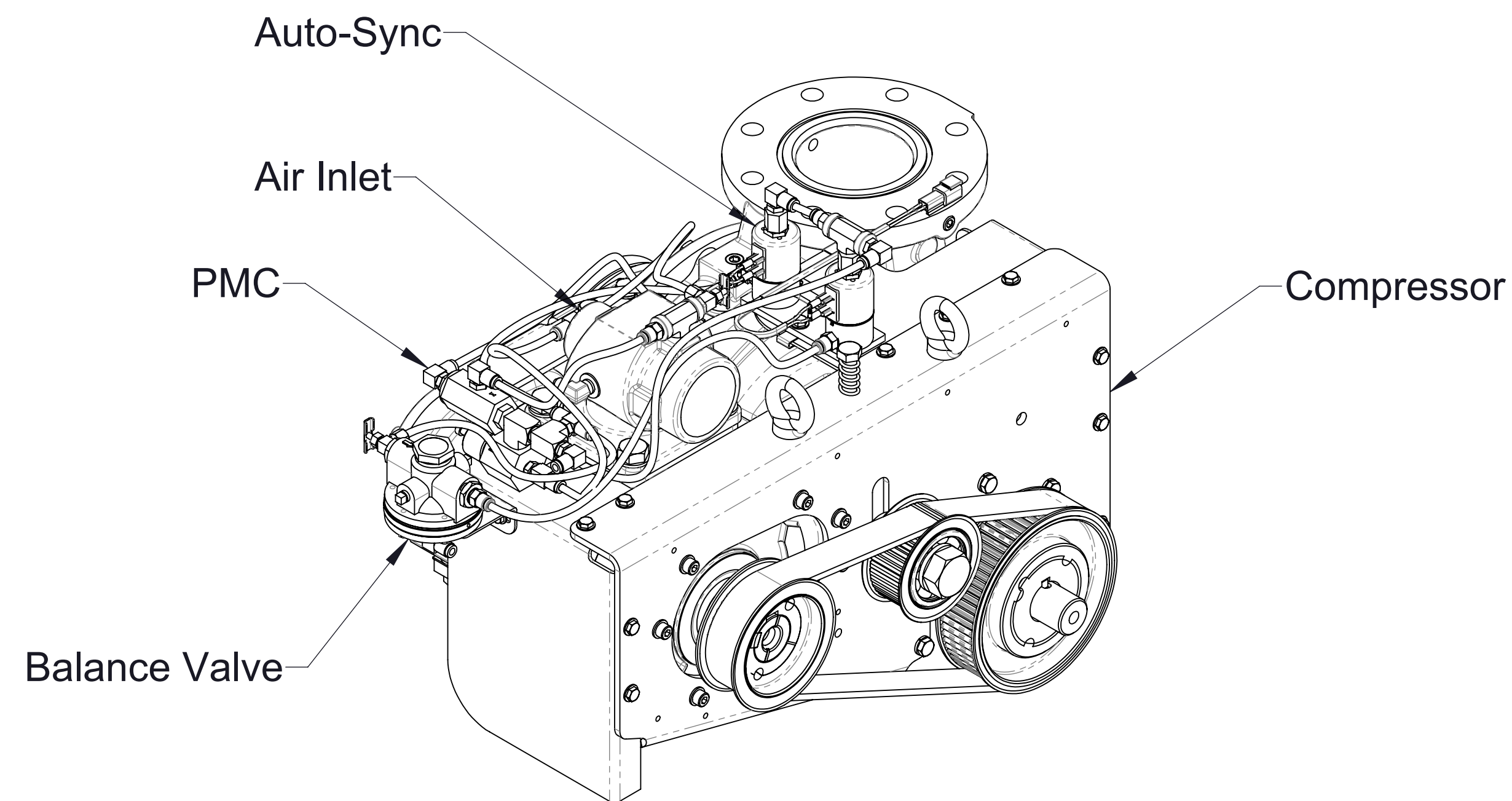
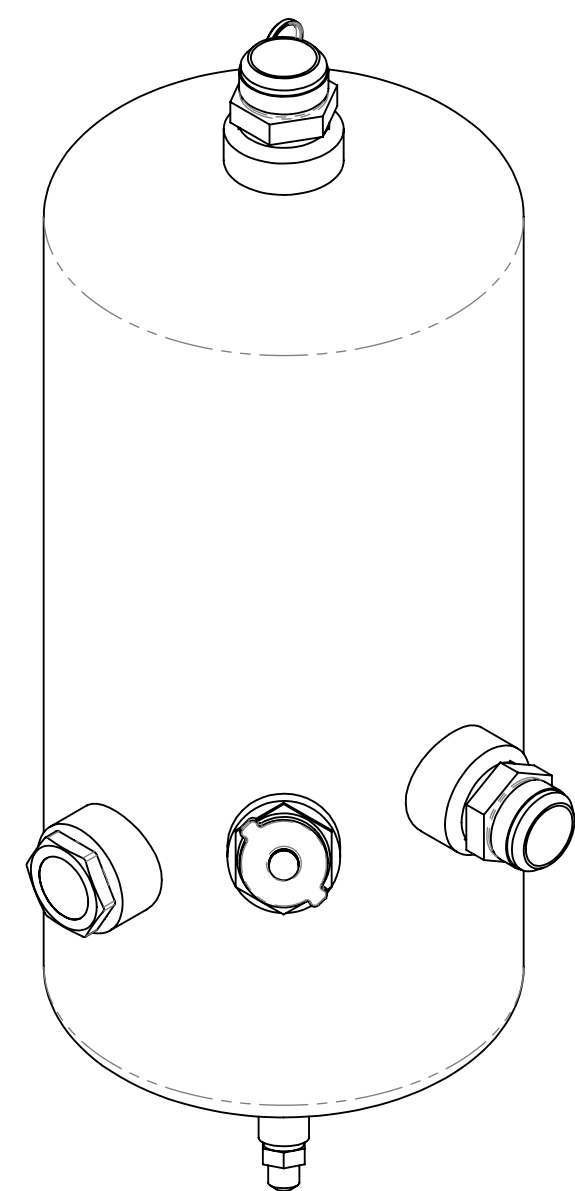


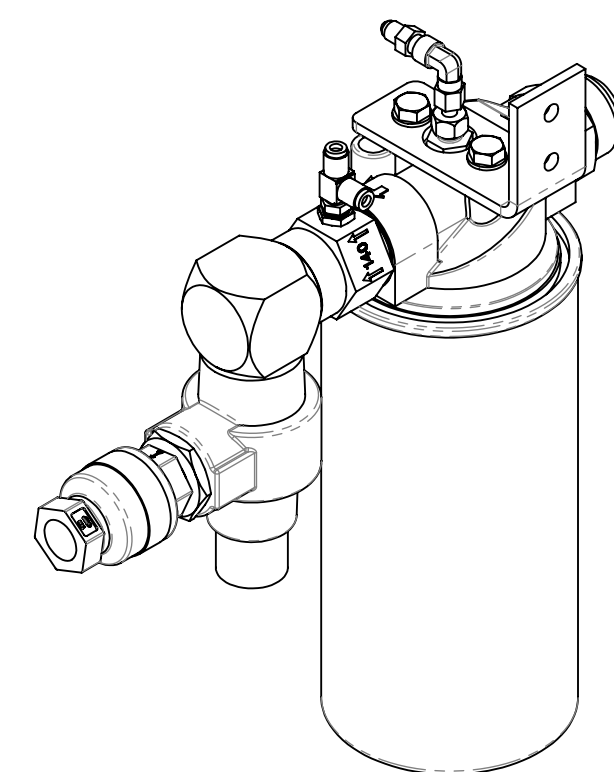
CXC22 Series Fire Pump with 150-ESD CAFS System Dimensional Drawings



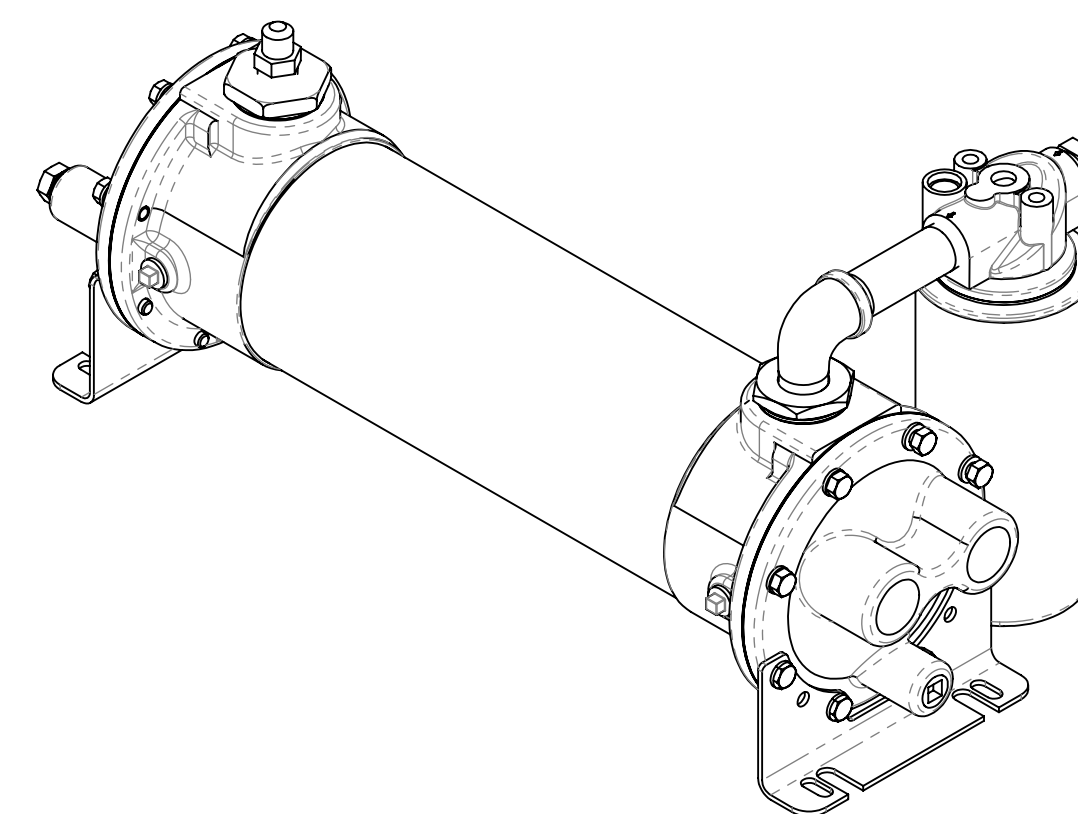
Optional Panel Strainer



Sump



Separator Filter

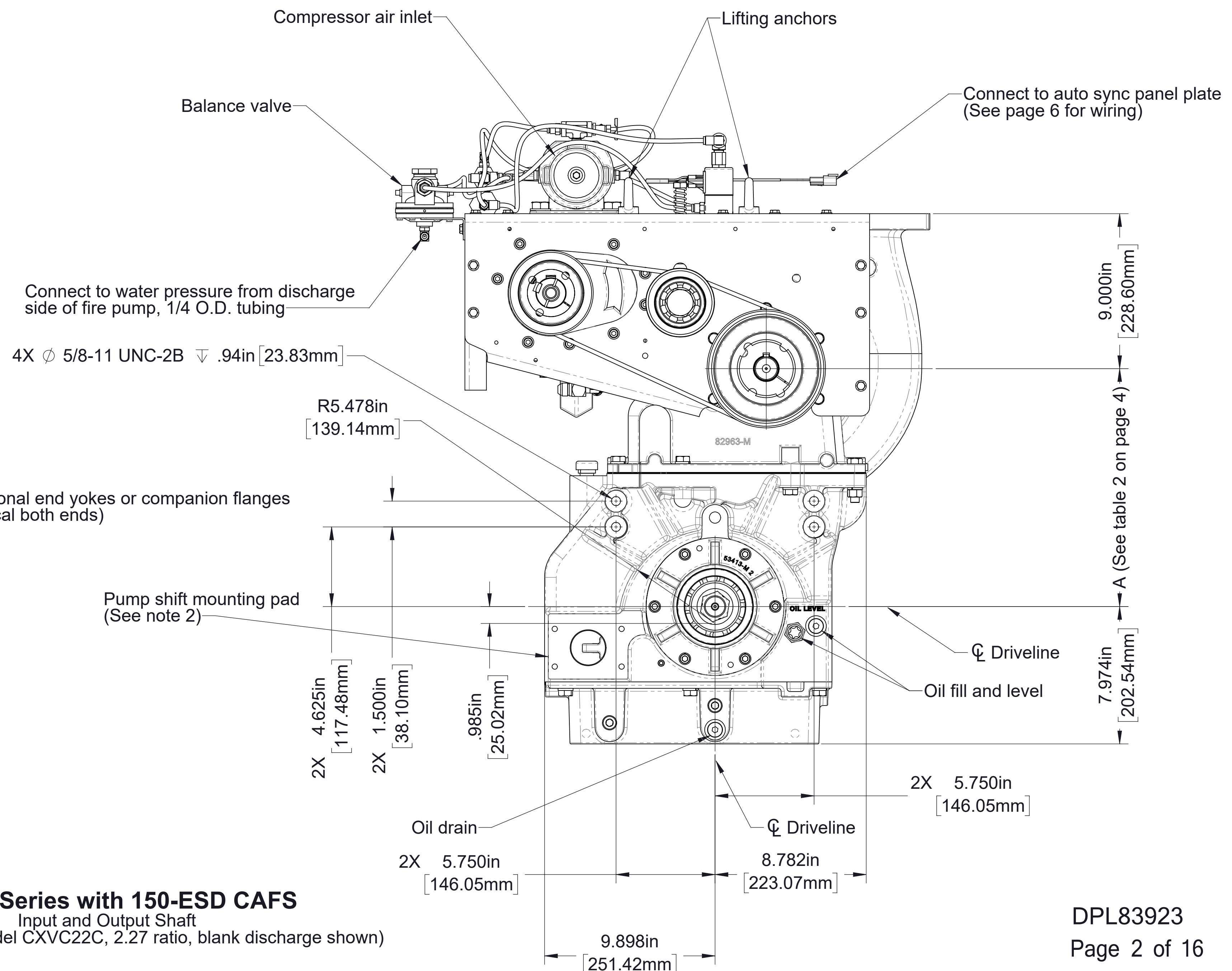
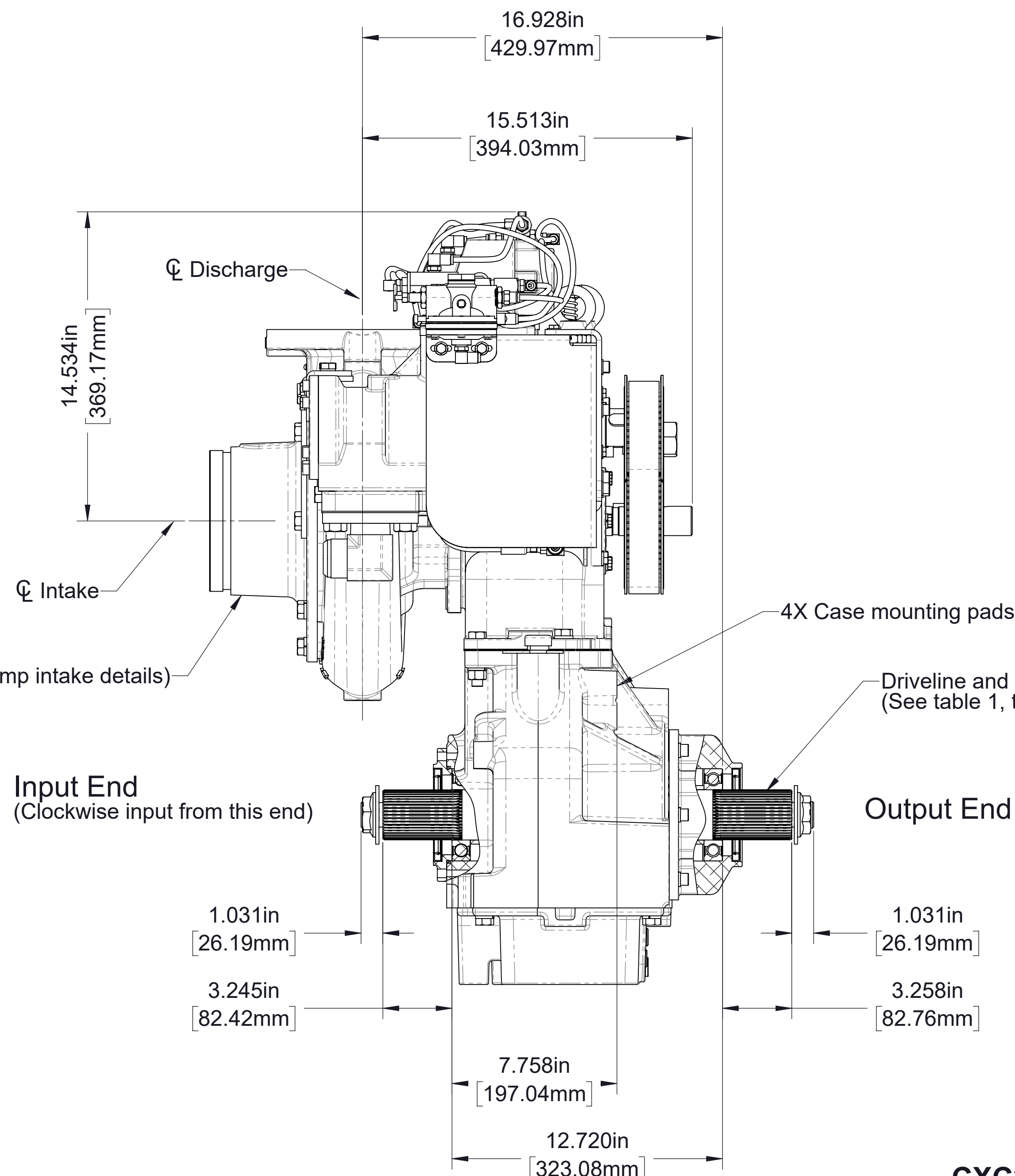
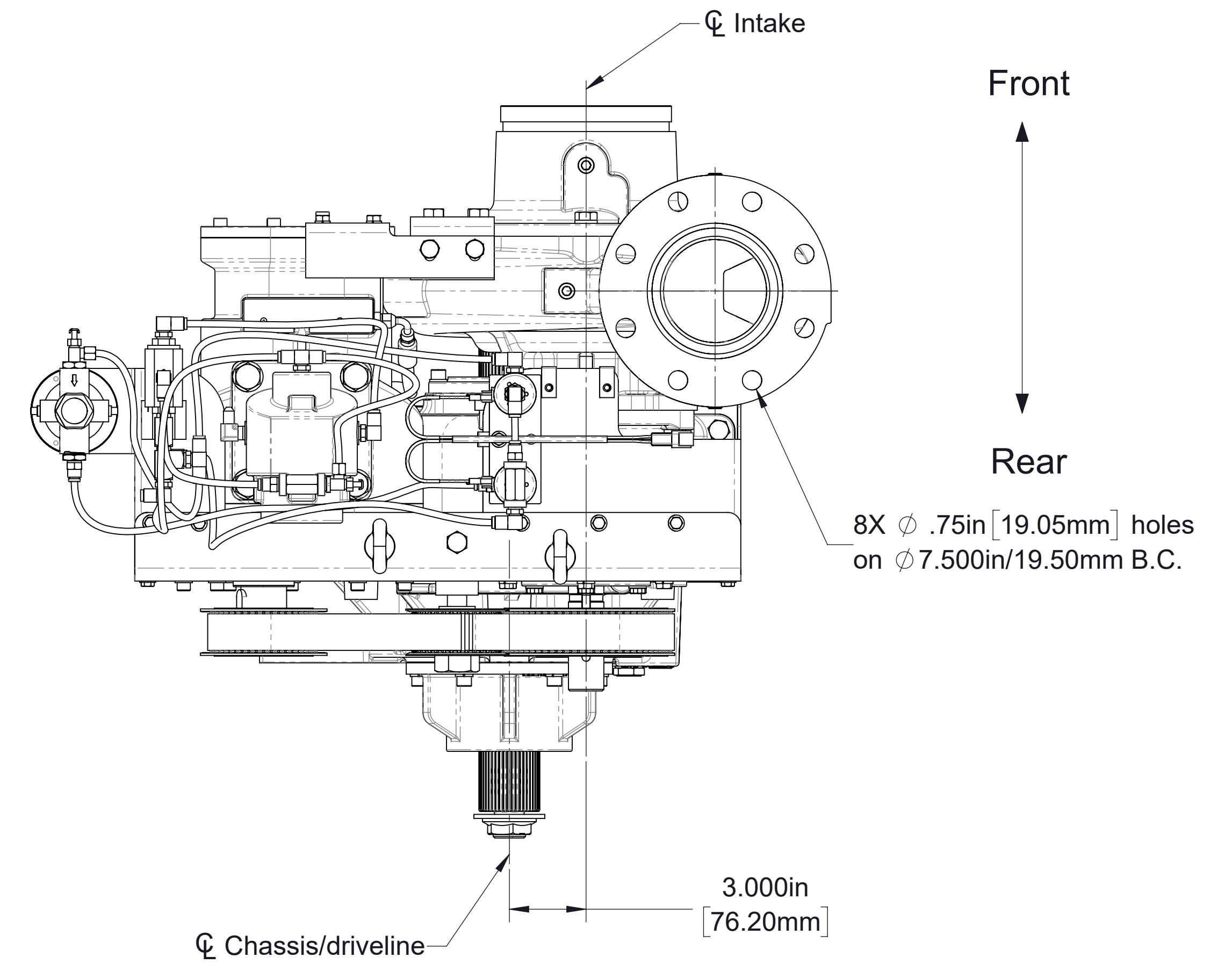


Oil Cooler/Filter

Standard Components:	Page
Mounted:	
Pump and Transmission:	
• Input and Output Shaft Driveline	2
• Input Shaft Only Driveline	3
• Available Ratios and Drop Dimensions	4
CX Intake Options:	
• Single Grooved, Model CXV	See DPL83916
• Single Flanged, Model CXN	See DPL83916
• Dual Grooved, Model CXS	See DPL83916
Shipped Loose:	
• Air Filter	5
• Oil Temperature Gauge	5
• Panel Plates	6
• Sump (Oil Reservoir)	7
• Separator Filter	8
• Oil Cooler	9
Optional Components:	
• Panel Mounted Oil Cooler Water Strainer	9
• Air Distribution Manifolds and Valves	10
• Auxiliary Air Connection	11
• Air Pressure Gauge	12
• Digital Flow Meter	12
• Oil Inject Check Valve	See DPL83810
• Hose and Fitting Kit	See DPL83810
CAF Discharge:	
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• ICS Valves	See DPL83478
• Static Mixers	See DPL83603
• Manifolds	See DPL83682
Foam Pumps:	
• Models Aquis 1.5, 3.0 or 6.0	See F-1031-2447
Schematics:	
Hydraulic:	
• In-Line Oil Cooler Strainer	13
• Panel Mounted Oil Cooler Strainer	14
• Air Circuit	15
• Electrical	16

Table 1 - Available Driveline / Models

Driveline			Optional End Yokes and Companion Flanges Available from Waterous				Model
Type	Size	Spline	Yoke		Cross and Bearing Kit	Companion Flange	
Extra Heavy Duty	2.35 Inch	2.530-46T Involute	Spicer Series	Part Number	--	--	CXNC22C CXNC22D CXNC22E CXNC22F CXVC22C CXVC22D CXVC22E CXVC22F CXSC22C CXSC22D CXSC22E CXSC22F
			1480/1610	--			
			1650/1710	--	V 3619		
			1710	V 2837	V 2839	--	
			1810	V 2838	V 2840	--	
			SPL140	V 3388	V 3389	--	



Model CXV shown
(See DPL83916 for pump intake details)

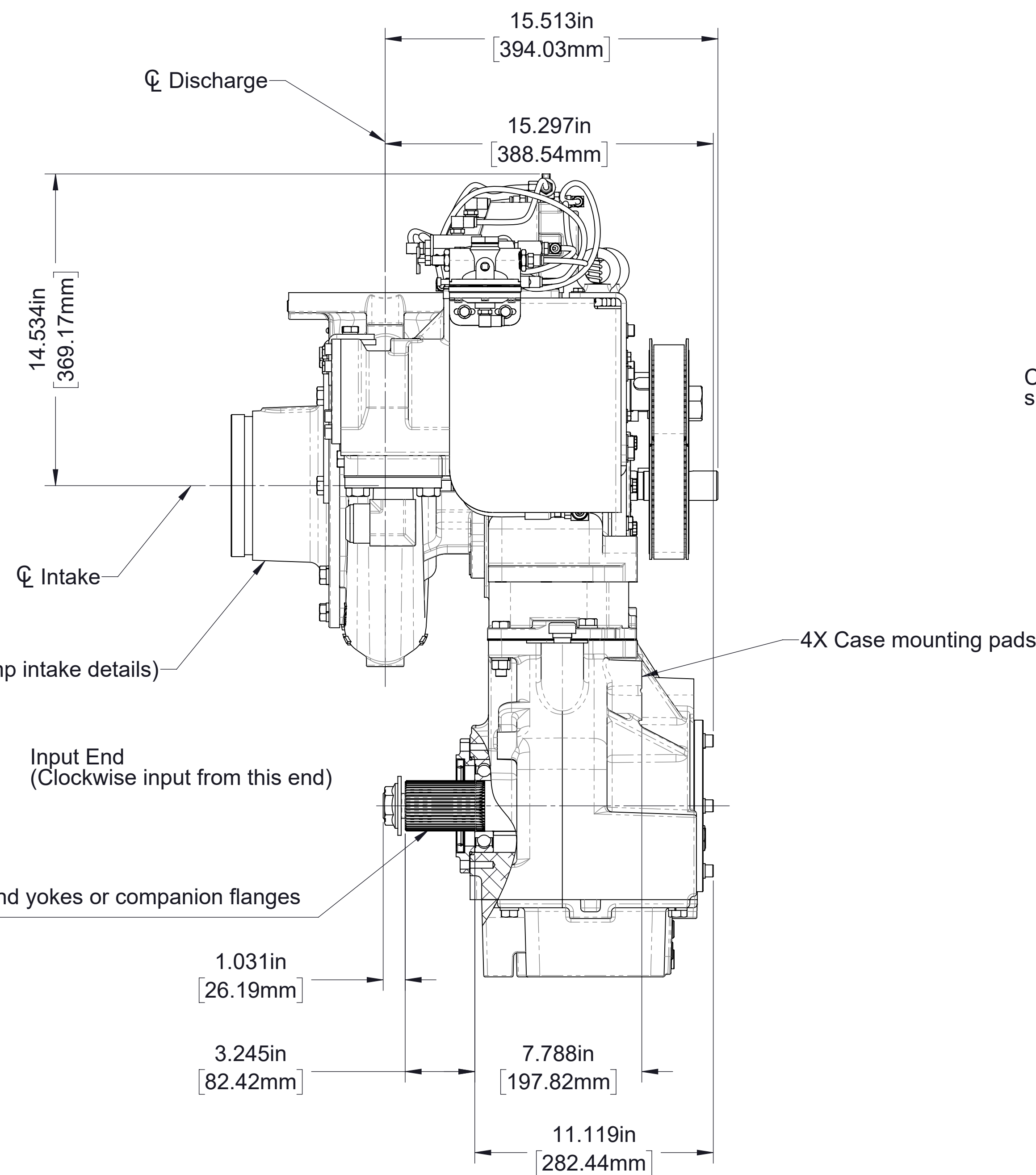
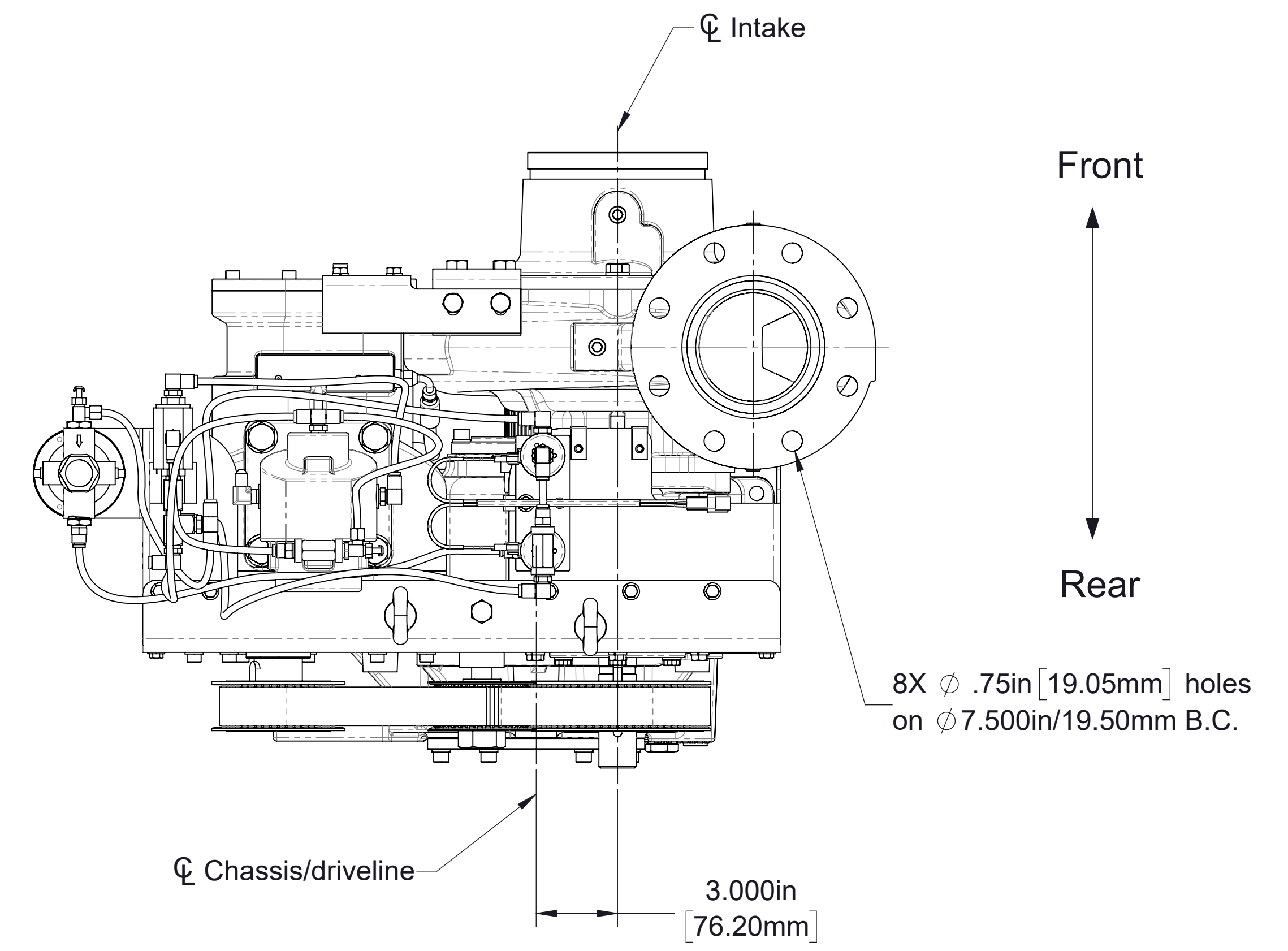
Notes:
1. See table 2 on page 4 for ratios.
2. See drawing DPL82086 for shift unit details.

CXC22 Series with 150-ESD CAFS
Input and Output Shaft
(Clockwise input, model CXVC22C, 2.27 ratio, blank discharge shown)

Table 1 - Available Driveline / Models

Driveline			Optional End Yokes and Companion Flanges Available from Waterous				Model		
Type	Size	Spline	Yoke		Cross and Bearing Kit	Companion Flange			
Extra Heavy Duty	2.35 Inch	2.530-46T Involute	Spicer Series	Part Number	--	--	Part Number		
			1480/1610	--				V 3719	
			1650/1710	--				V 3619	
			1710	V 2837				V 2839	--
			1810	V 2838				V 2840	--
			SPL140	V 3388				V 3389	--

- CXNC22C
- CXNC22D
- CXNC22E
- CXNC22F
- CXVC22C
- CXVC22D
- CXVC22E
- CXVC22F
- CXSC22C
- CXSC22D
- CXSC22E
- CXSC22F

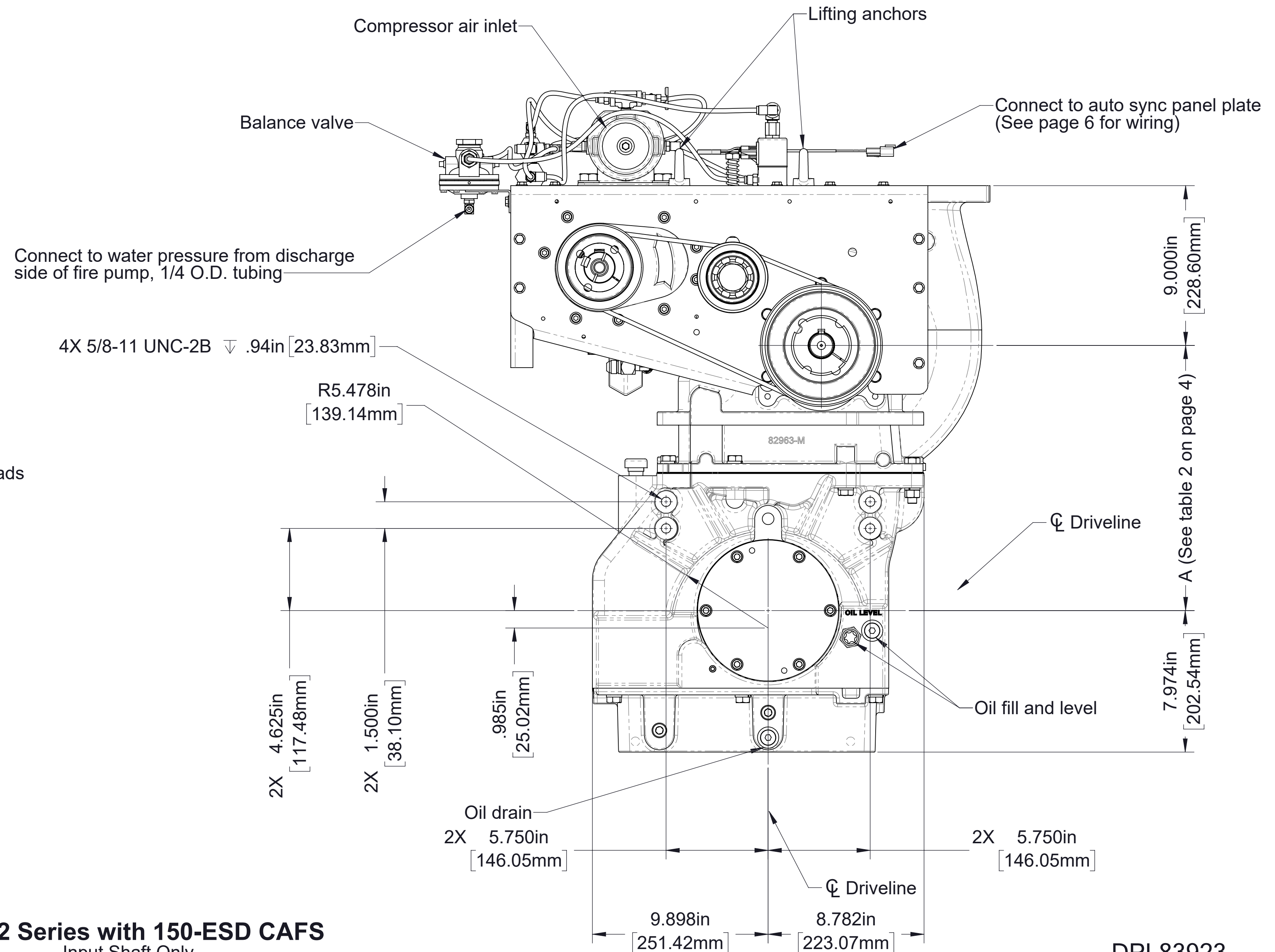


Model CXV shown
(See DPL83916 for pump intake details)

Input End
(Clockwise input from this end)

Driveline and optional end yokes or companion flanges
(See table 1)

4X Case mounting pads

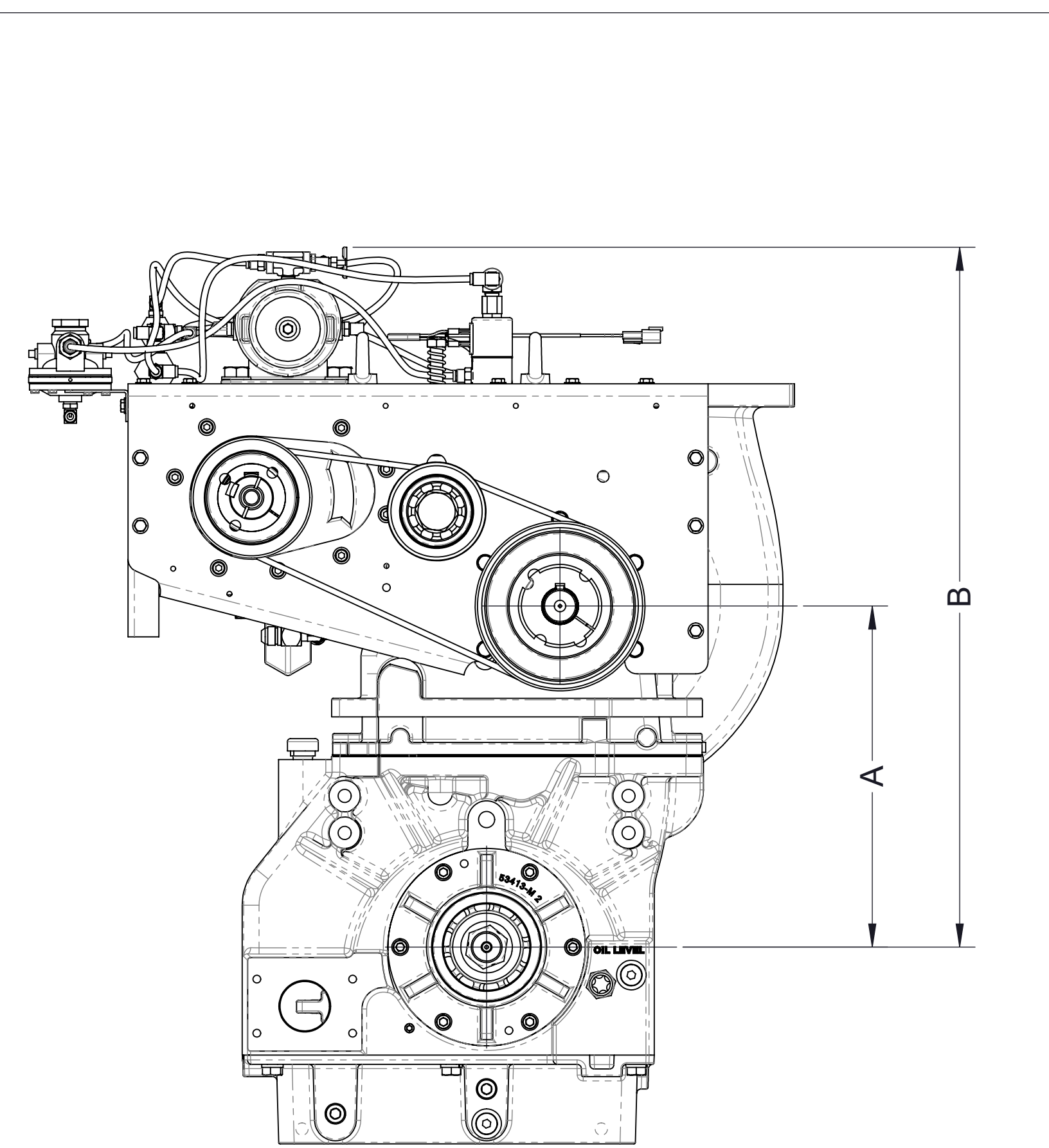


CXC22 Series with 150-ESD CAFS

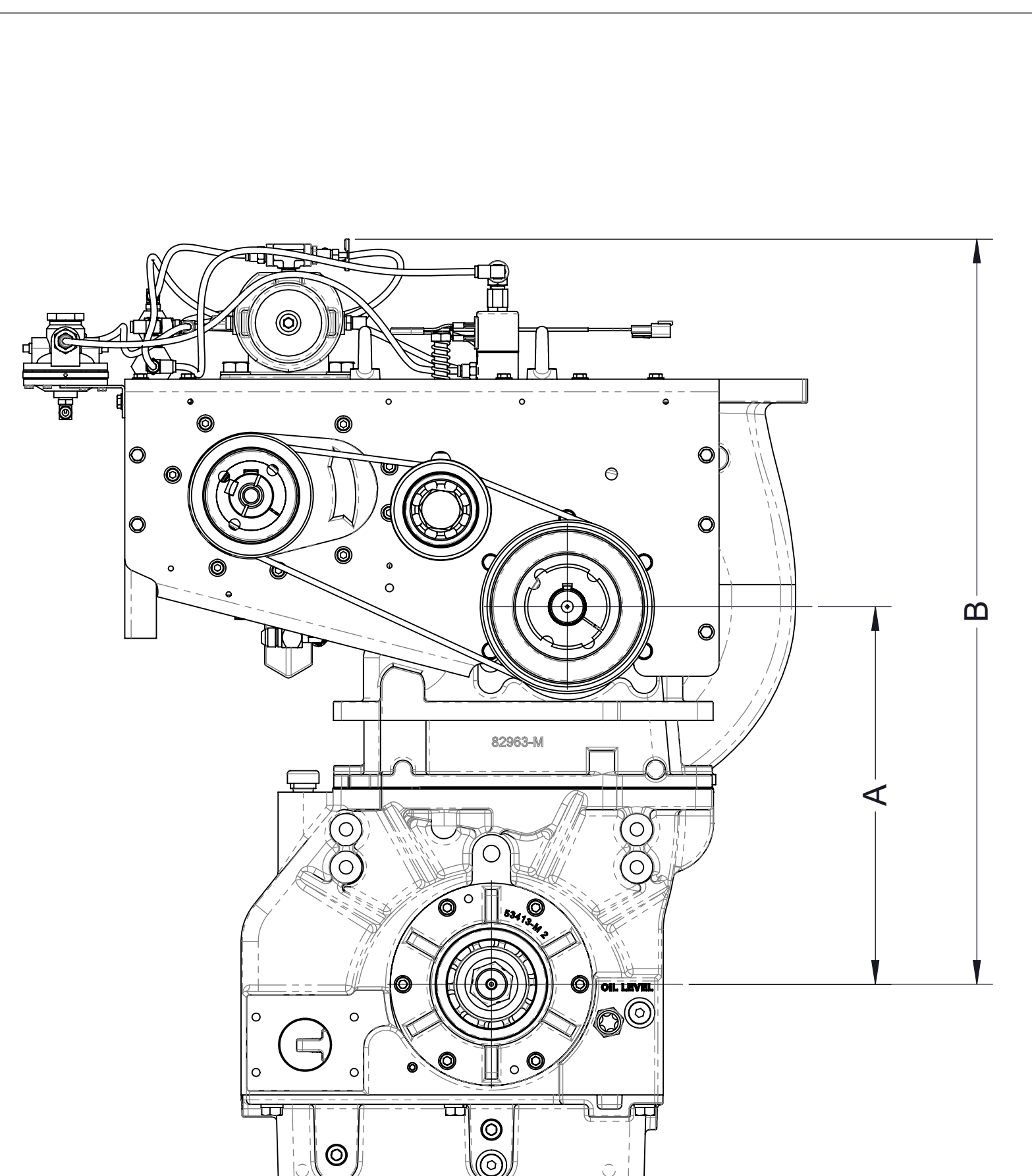
Input Shaft Only

(Clockwise input, model CXVC22C, 2.27 ratio, blank discharge shown)

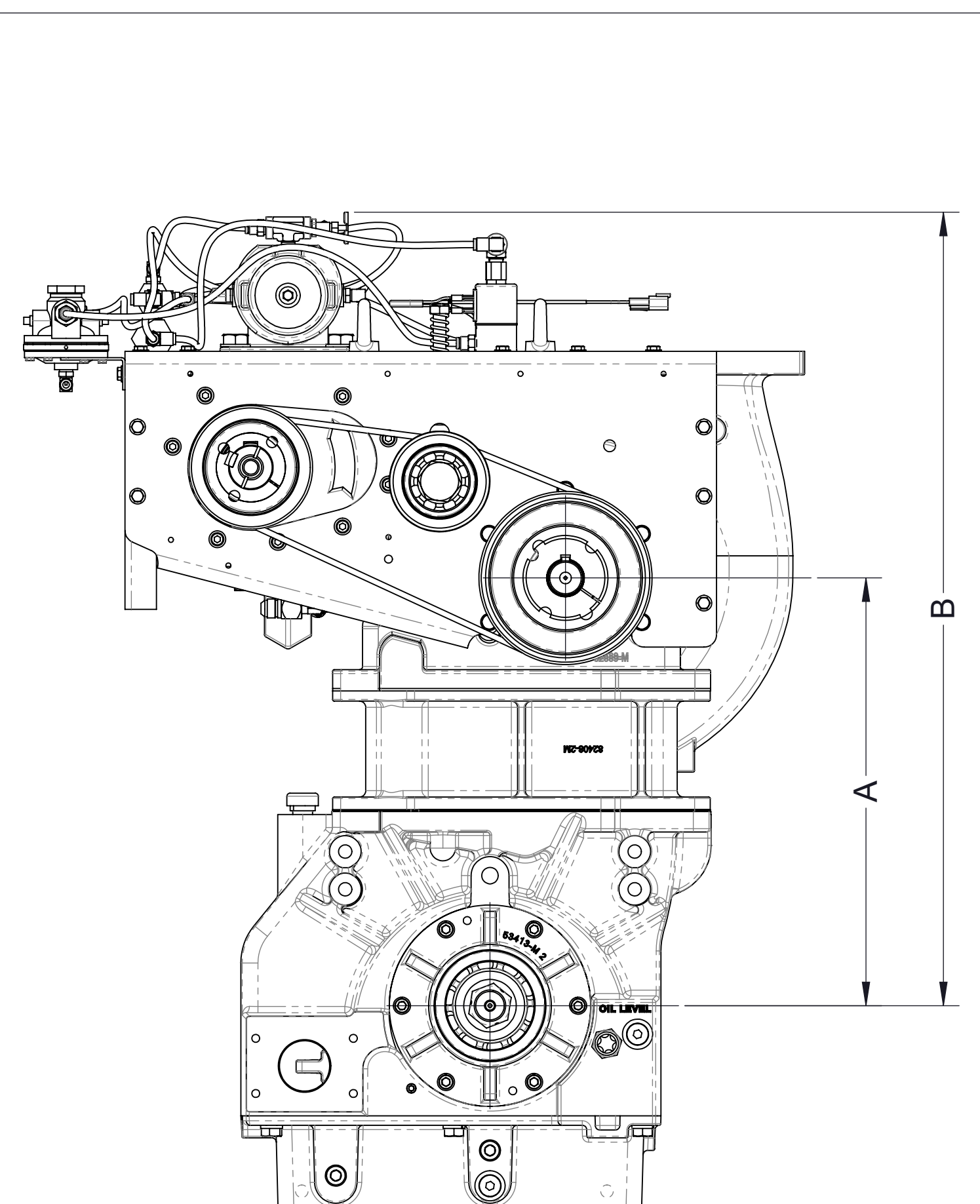
Note:
1. See table 2 on page 4 for ratios.



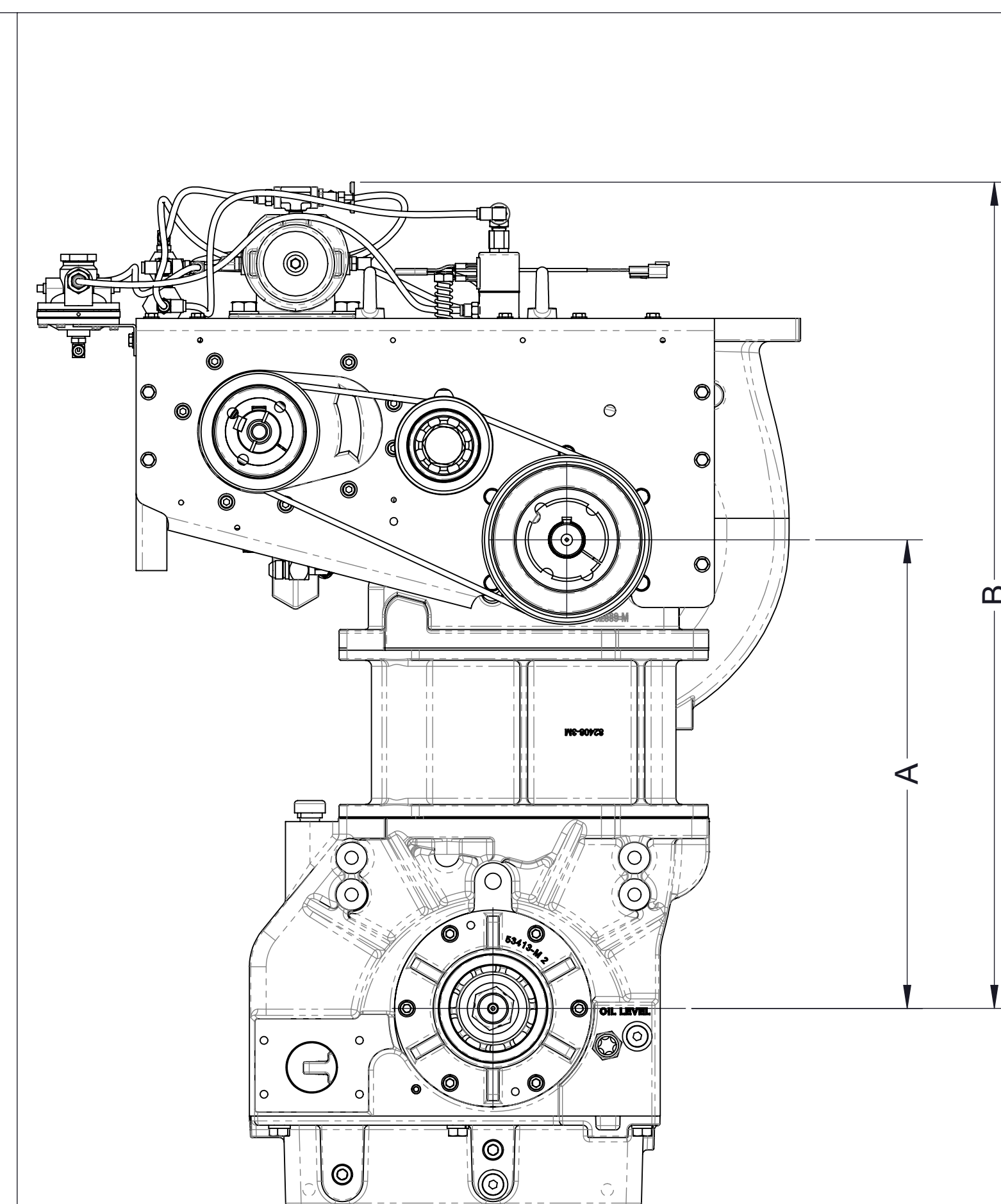
CXC22C Model
(2.27 ratio shown)



CXC22D Model
(2.27 ratio shown)



CXC22E Model
(2.27 ratio shown)



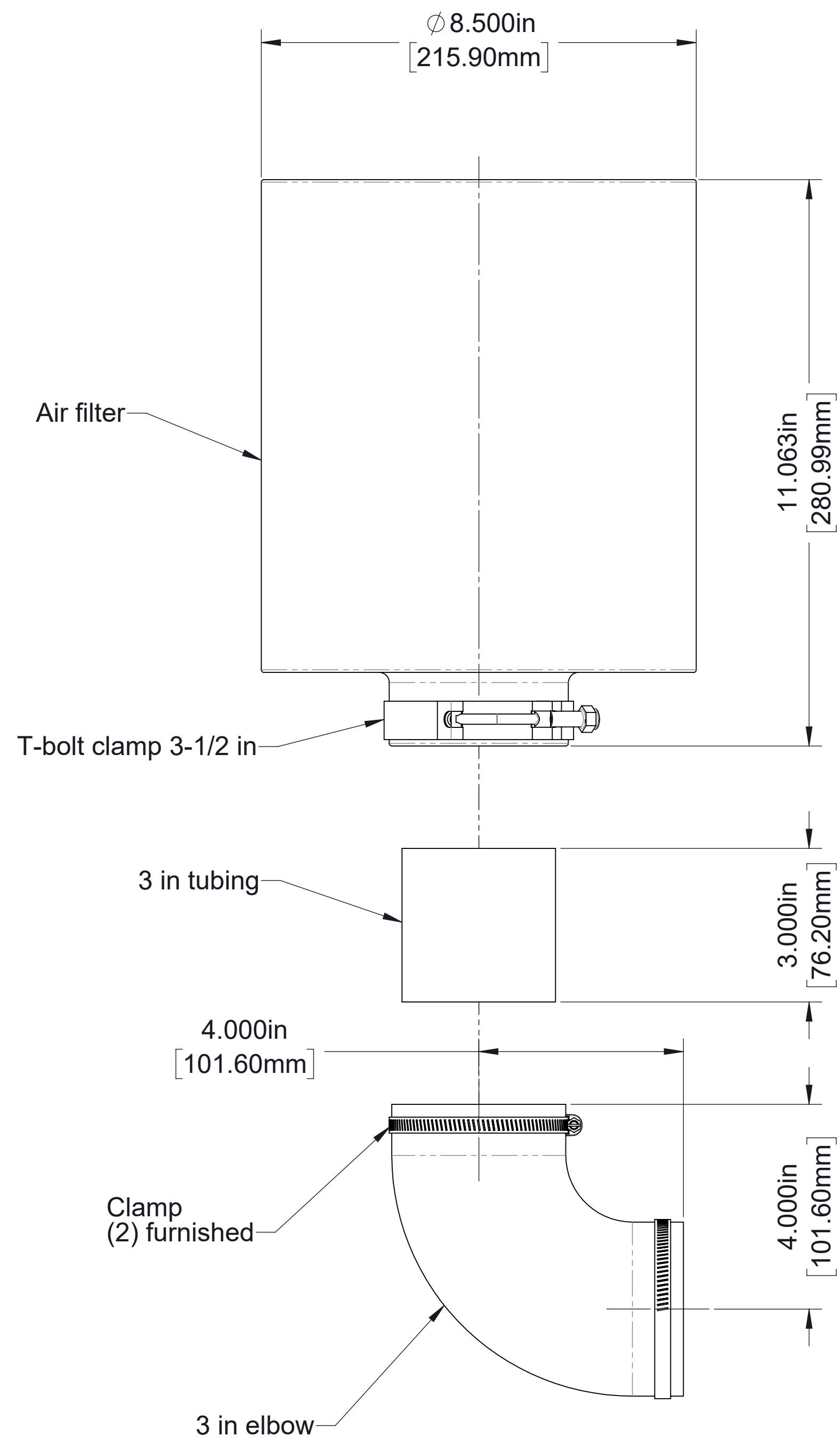
CXC22F Model
(2.27 ratio shown)

Table 2 - Available Ratios

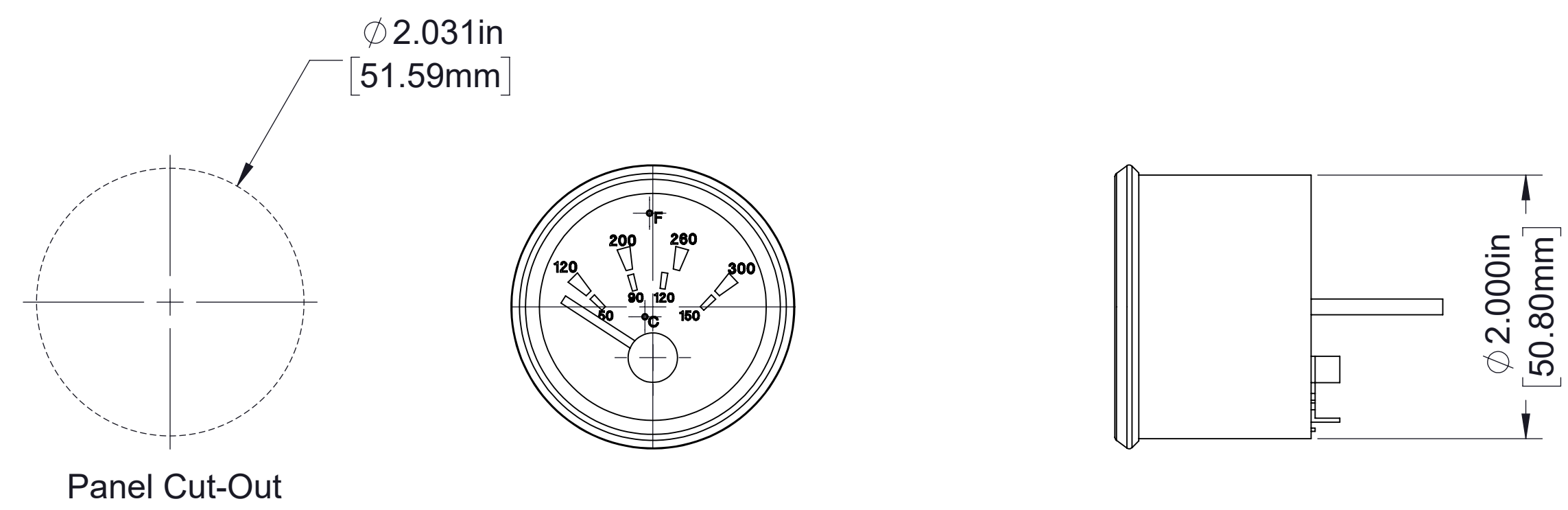
Drive to Driven Ratio	CXC22C		CXC22D		CXC22E		CXC22F	
	Dimension A	Dimension B	Dimension A	Dimension B	Dimension A	Dimension B	Dimension A	Dimension B
1.27	14.312/363.52	29.013/736.93	14.825/376.56	29.526/749.96	16.861/428.27	31.562/801.67	18.892/479.86	33.593/853.26
1.41	13.899/353.03	28.600/726.44	14.931/379.25	29.632/752.65	16.971/431.06	31.672/804.47	19.002/482.65	33.703/856.06
1.48	13.878/352.50	28.579/725.91	14.907/378.64	29.608/752.04	16.951/430.56	31.562/803.96	18.981/482.12	33.682/855.52
1.58	13.756/349.40	28.457/722.81	14.788/375.62	29.489/749.02	16.830/427.48	31.531/800.89	18.861/479.07	33.562/852.47
1.69	13.839/351.51	28.540/724.92	14.876/377.85	29.577/751.26	16.932/429.84	31.624/803.25	18.961/481.61	33.662/855.01
1.79	14.045/356.74	28.746/730.15	15.072/382.83	29.773/756.23	17.127/435.03	31.828/808.43	19.168/468.87	33.869/860.27
1.88	13.690/347.73	28.391/721.13	14.717/373.81	29.418/747.22	16.773/426.03	31.474/799.44	18.809/477.75	33.510/851.15
1.97	13.870/352.30	28.571/725.70	14.912/378.76	29.613/752.17	16.970/431.04	31.671/804.44	19.012/482.90	33.713/856.31
2.03	13.984/355.19	28.685/728.60	15.028/381.71	29.729/755.12	17.086/433.98	31.787/807.39	19.132/485.95	33.833/859.36
2.27	13.811/350.80	28.512/724.20	14.856/377.34	29.577/750.75	16.920/429.77	31.621/803.17	18.971/481.86	33.672/855.27
2.46	14.042/356.67	28.743/730.07	15.087/383.21	29.788/756.62	17.154/435.71	31.855/809.12	19.205/487.81	33.906/861.21
2.68	13.746/349.15	28.447/722.55	14.793/375.74	29.494/749.15	16.865/428.37	31.566/801.78	18.923/480.64	33.624/854.05

All dimensions shown as inch/millimeter

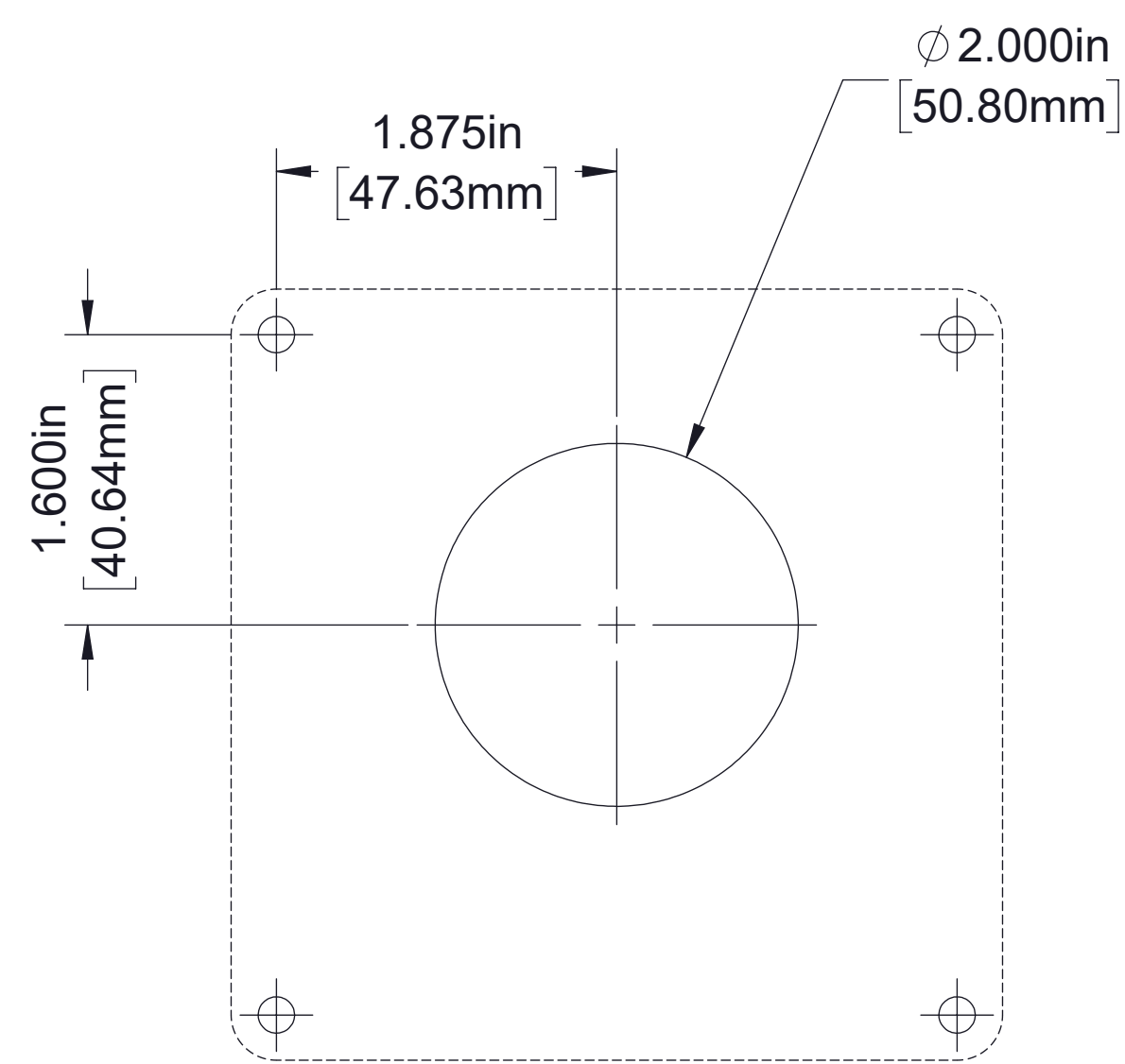
Available Ratios and Drop Dimensions



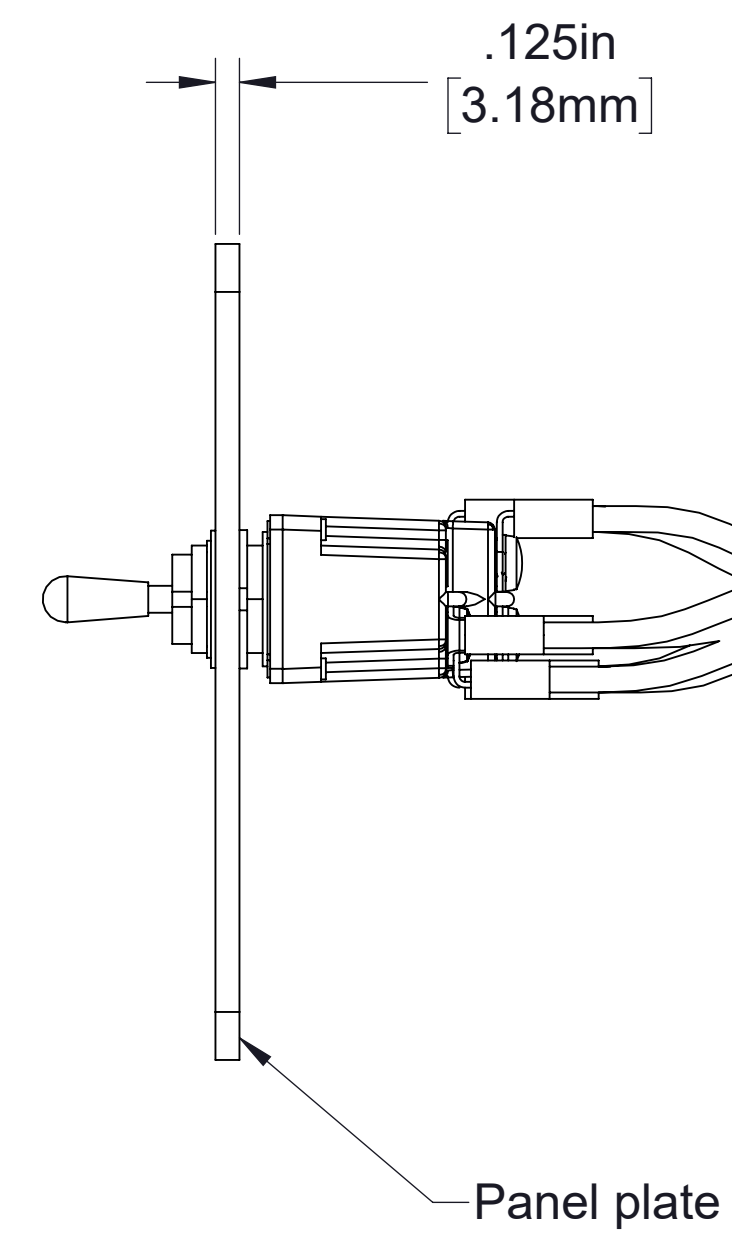
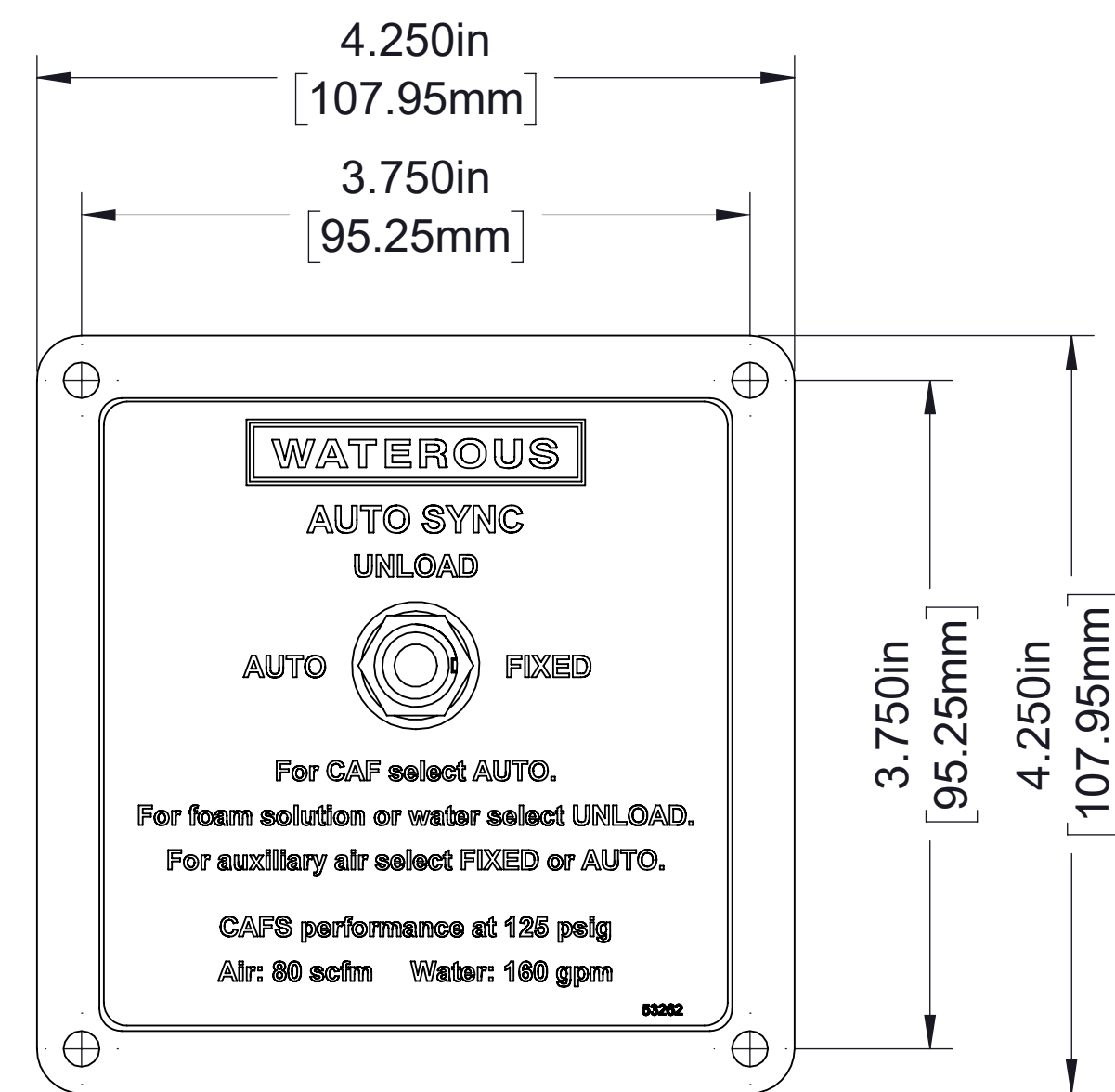
Air Filter



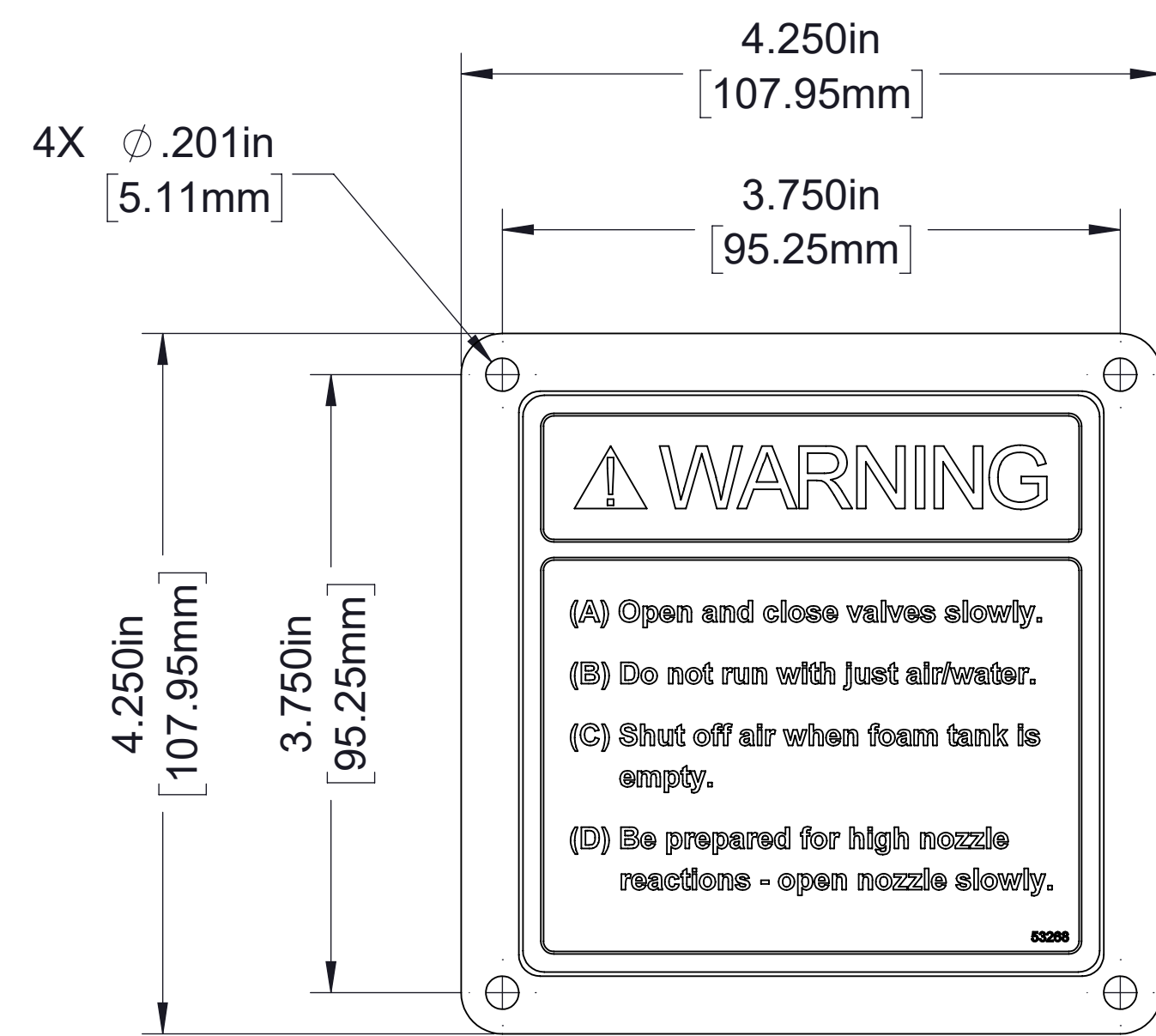
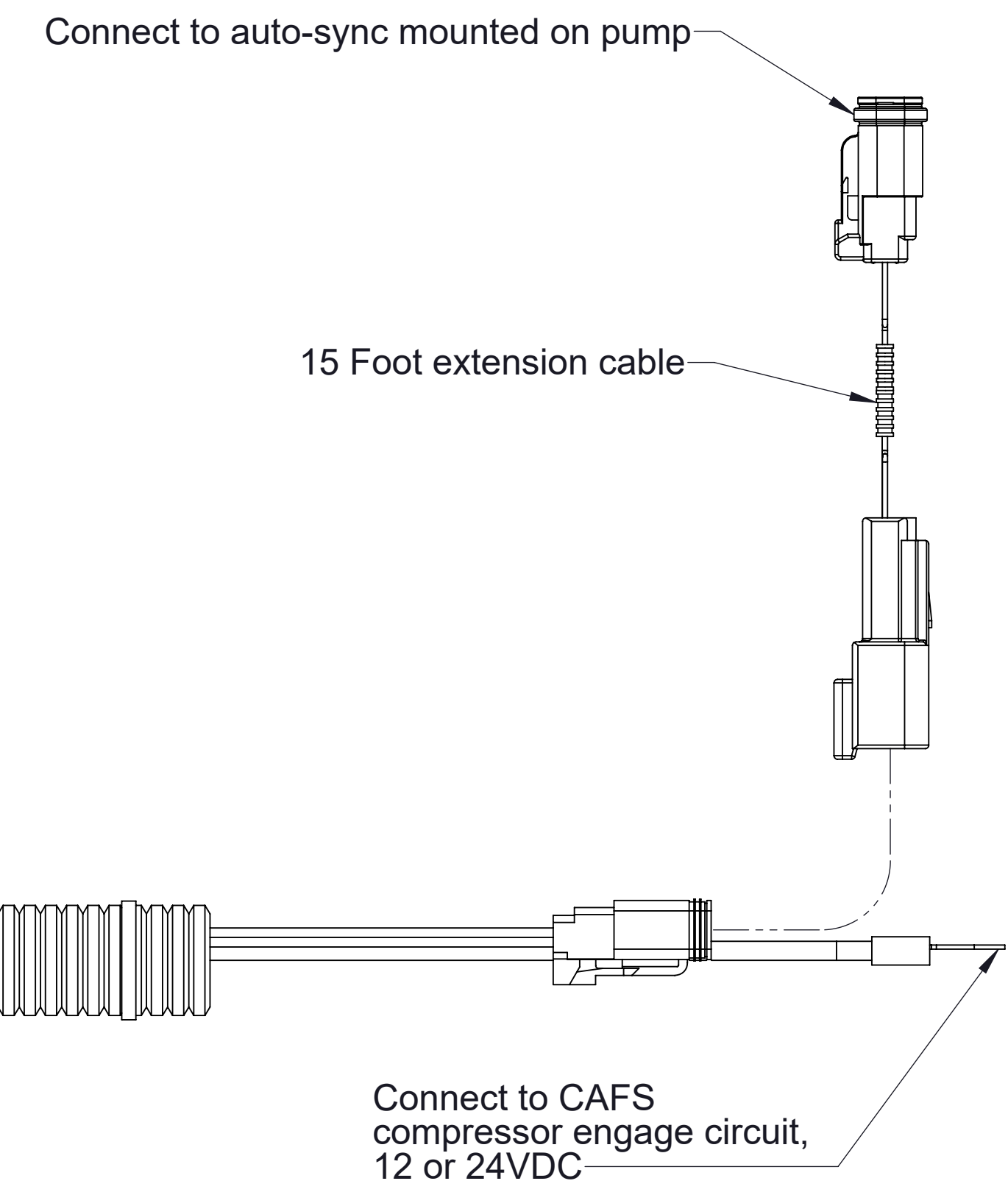
Oil Temperature Gauge
 (Wiring to sump temperature sender not furnished by Waterous)



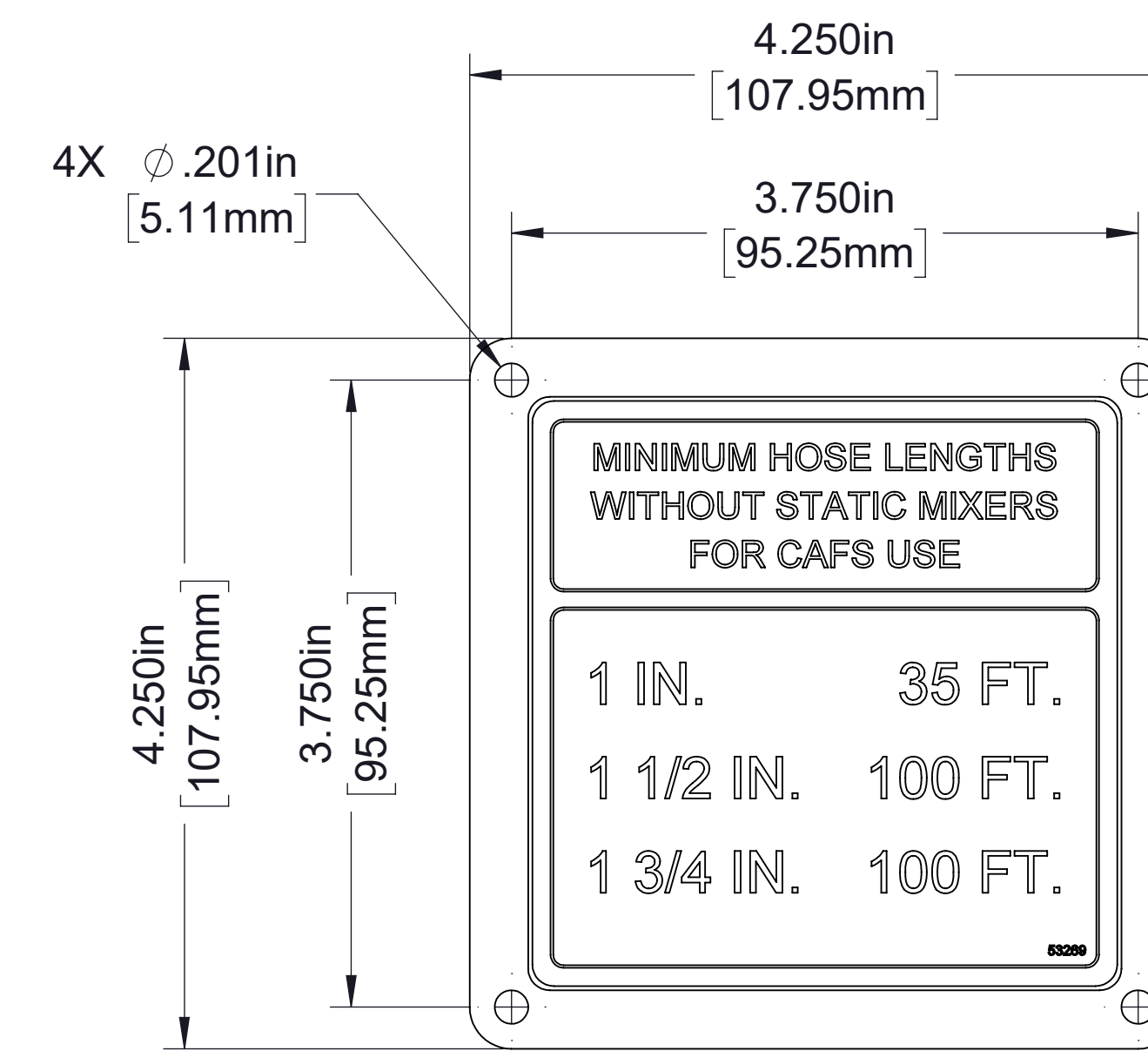
Panel Cut-Out



Auto-Sync

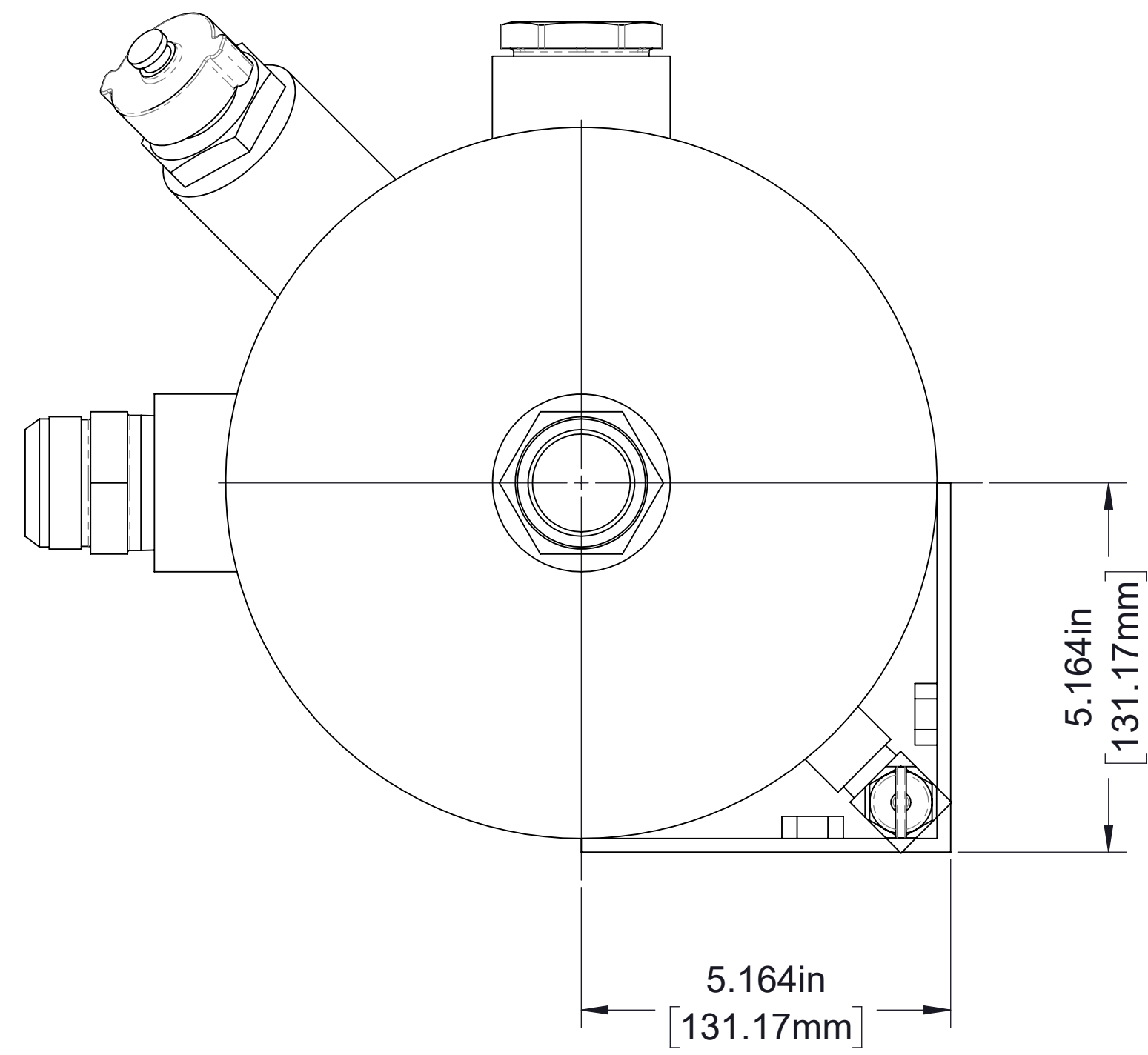


CAFS Warning

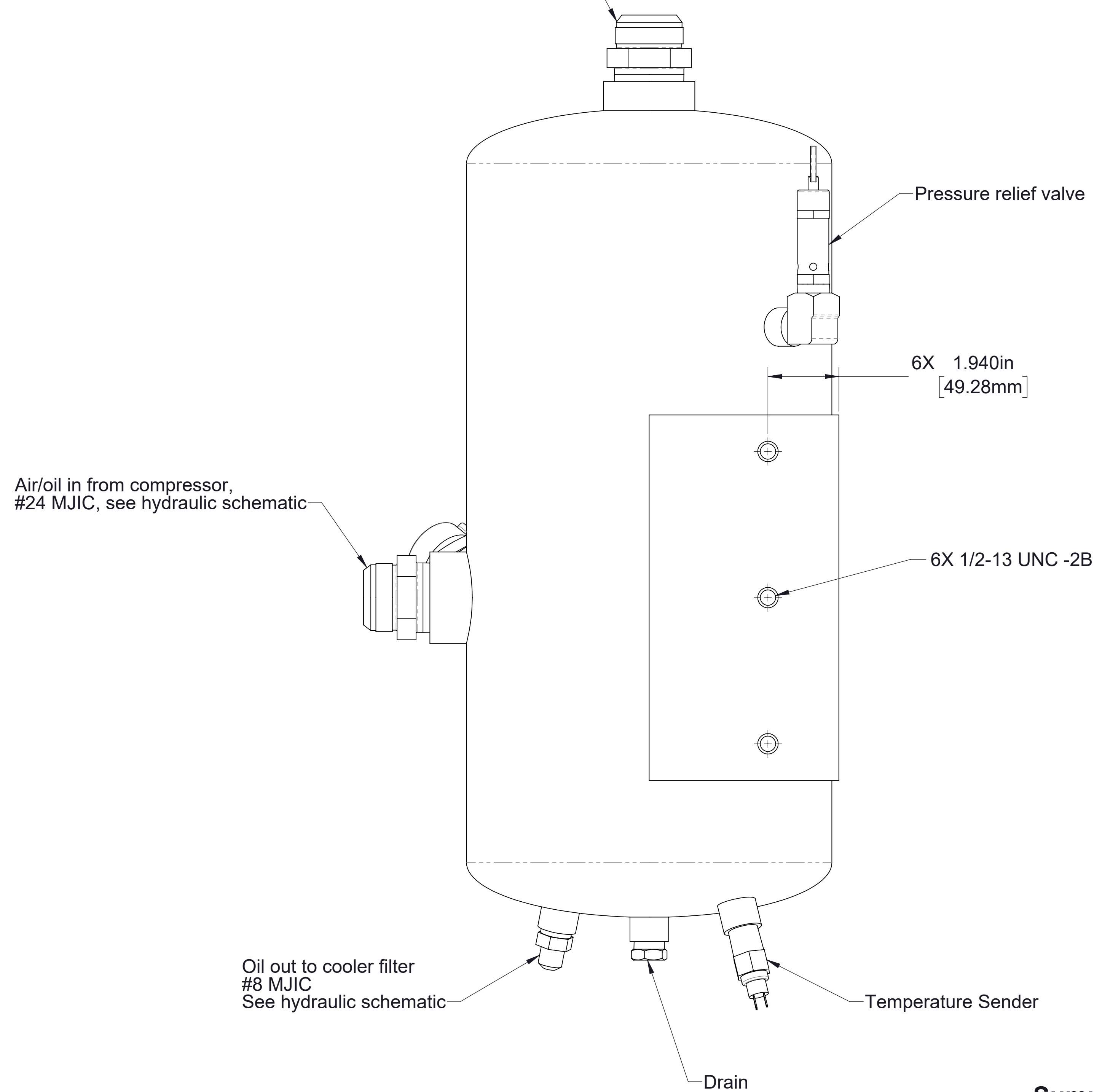


Hose Length

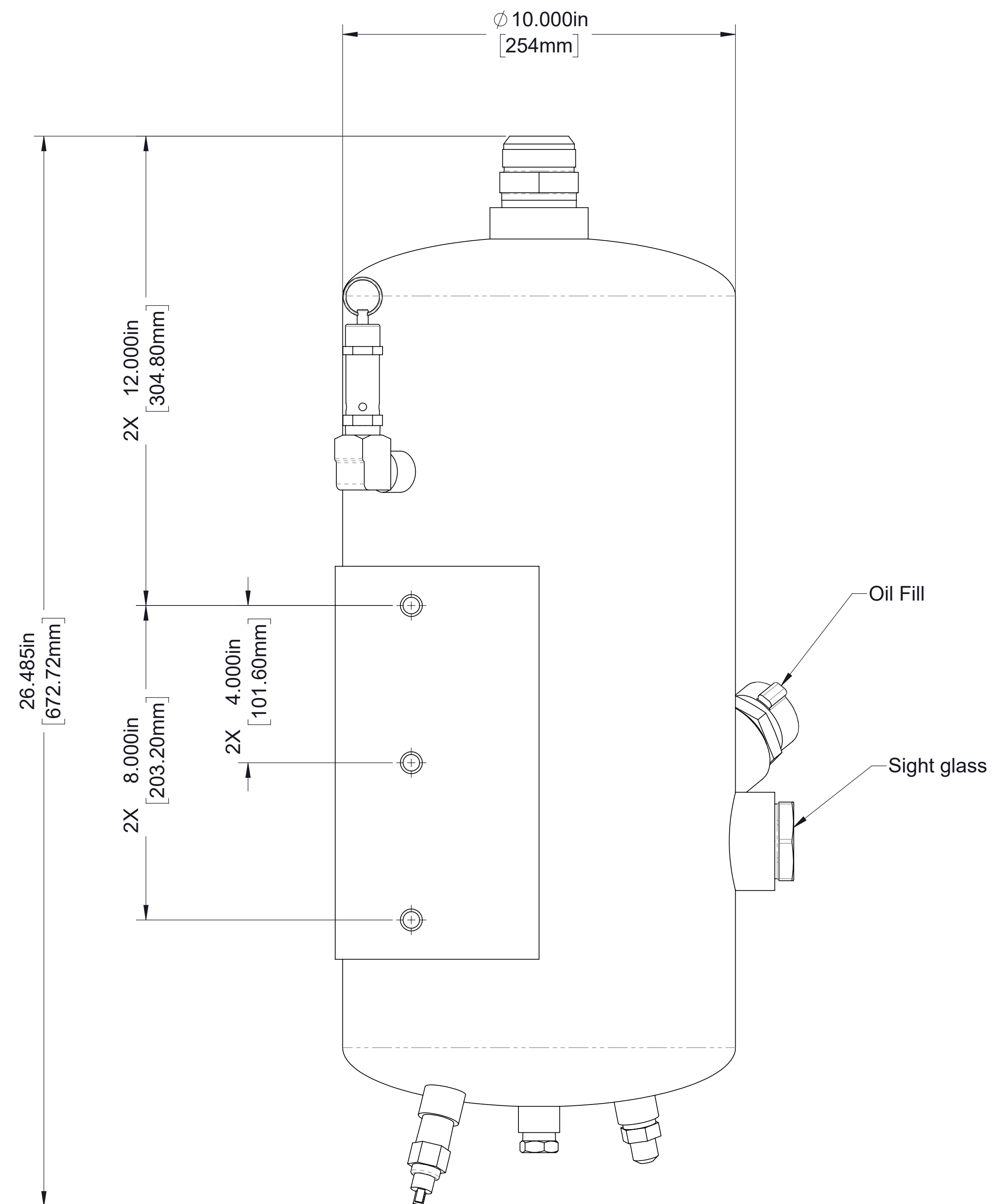
Panel Plates

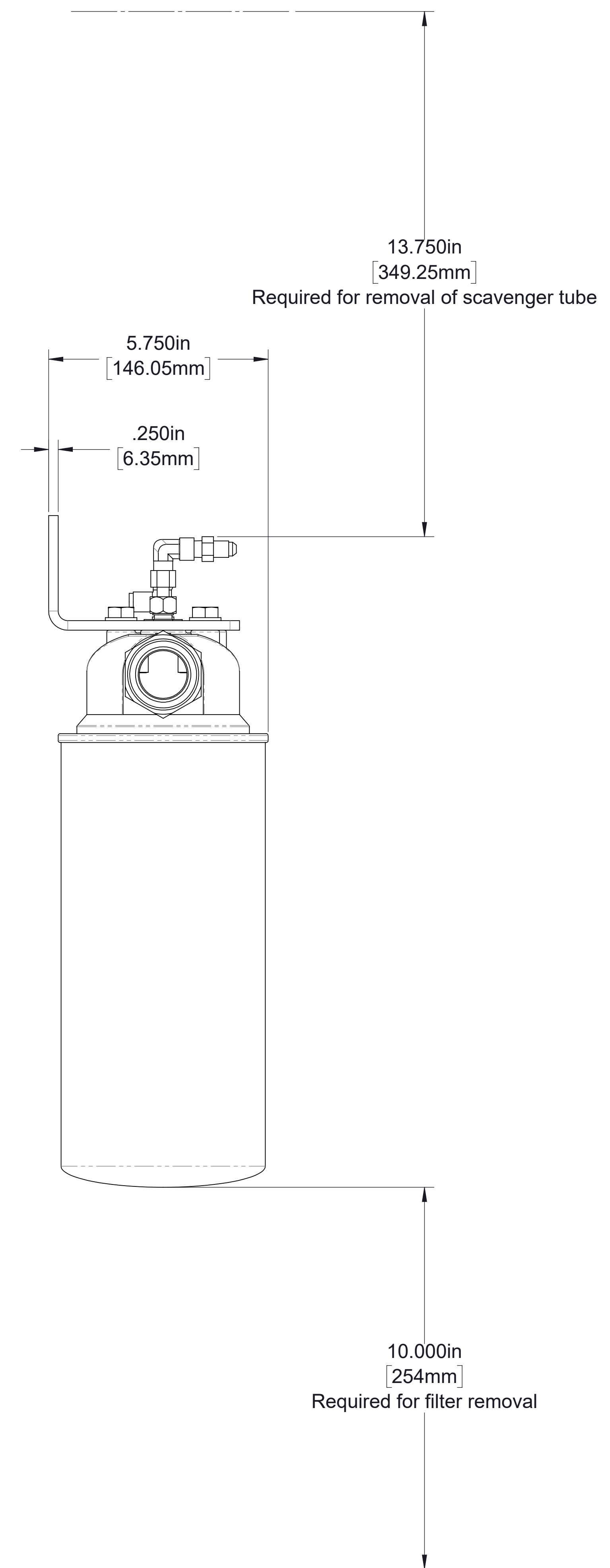
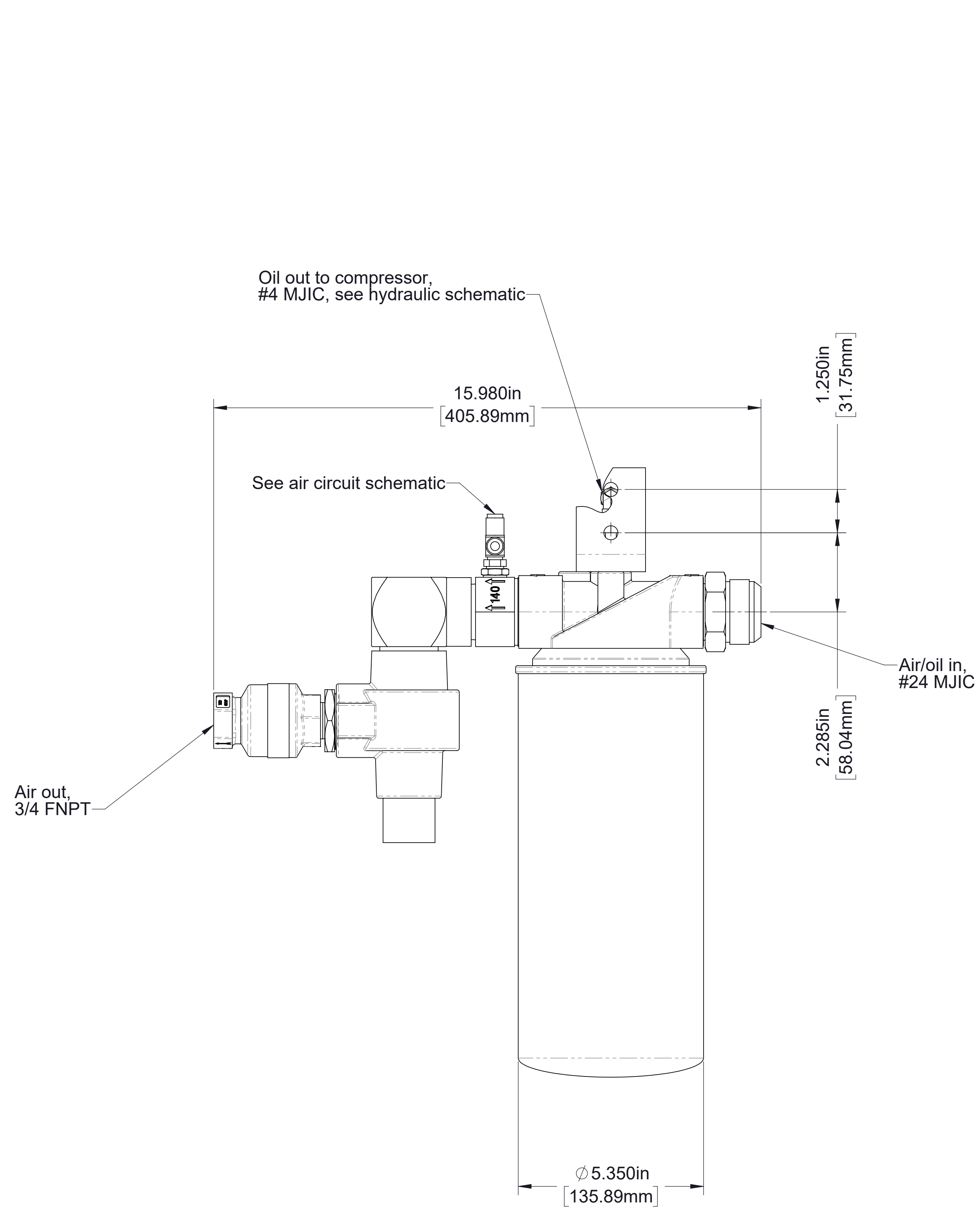


Air out to separator filter,
#24 MJIC, see hydraulic schematic
(Sump must be mounted with the #24 MJIC fitting facing up)

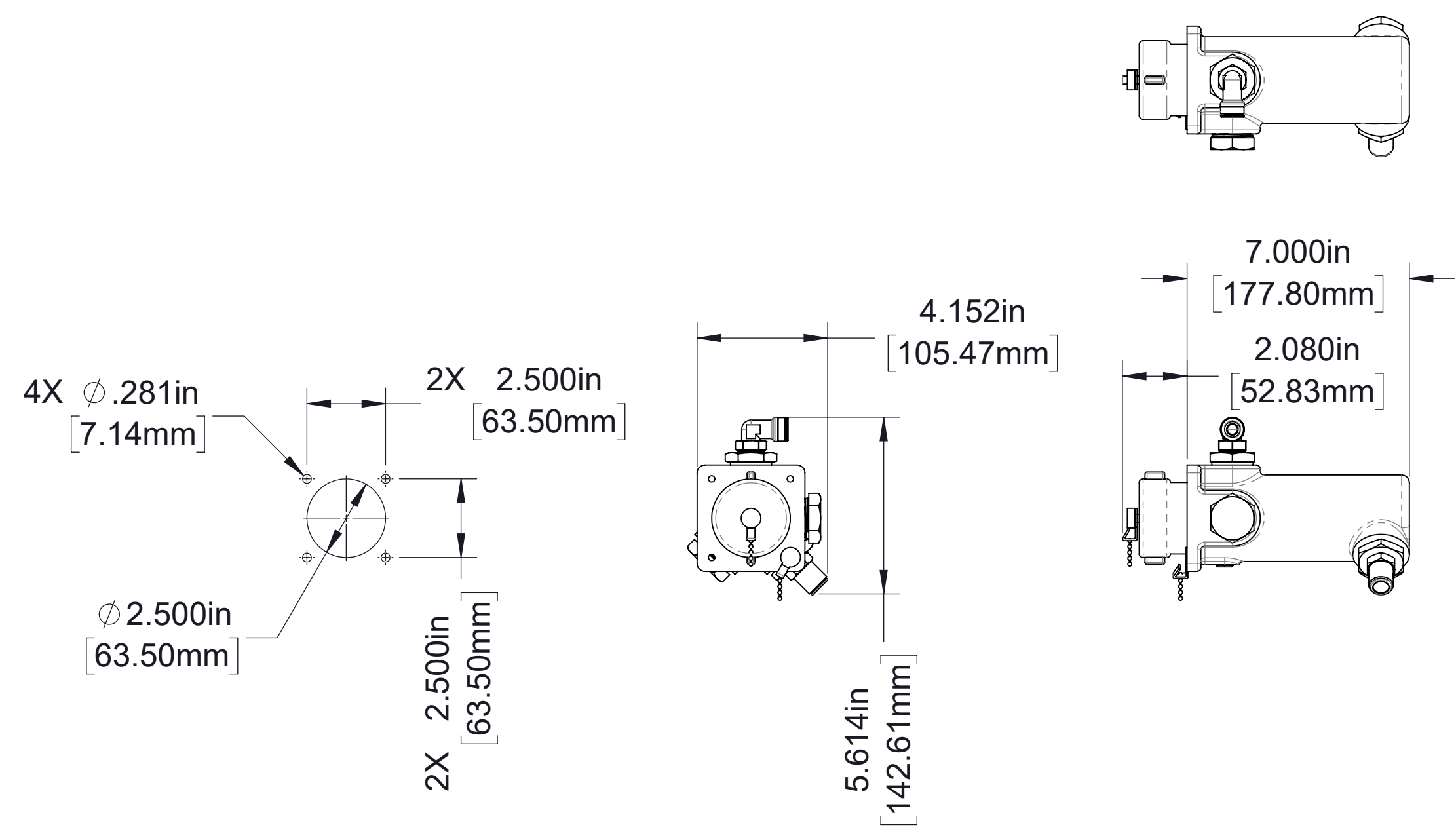
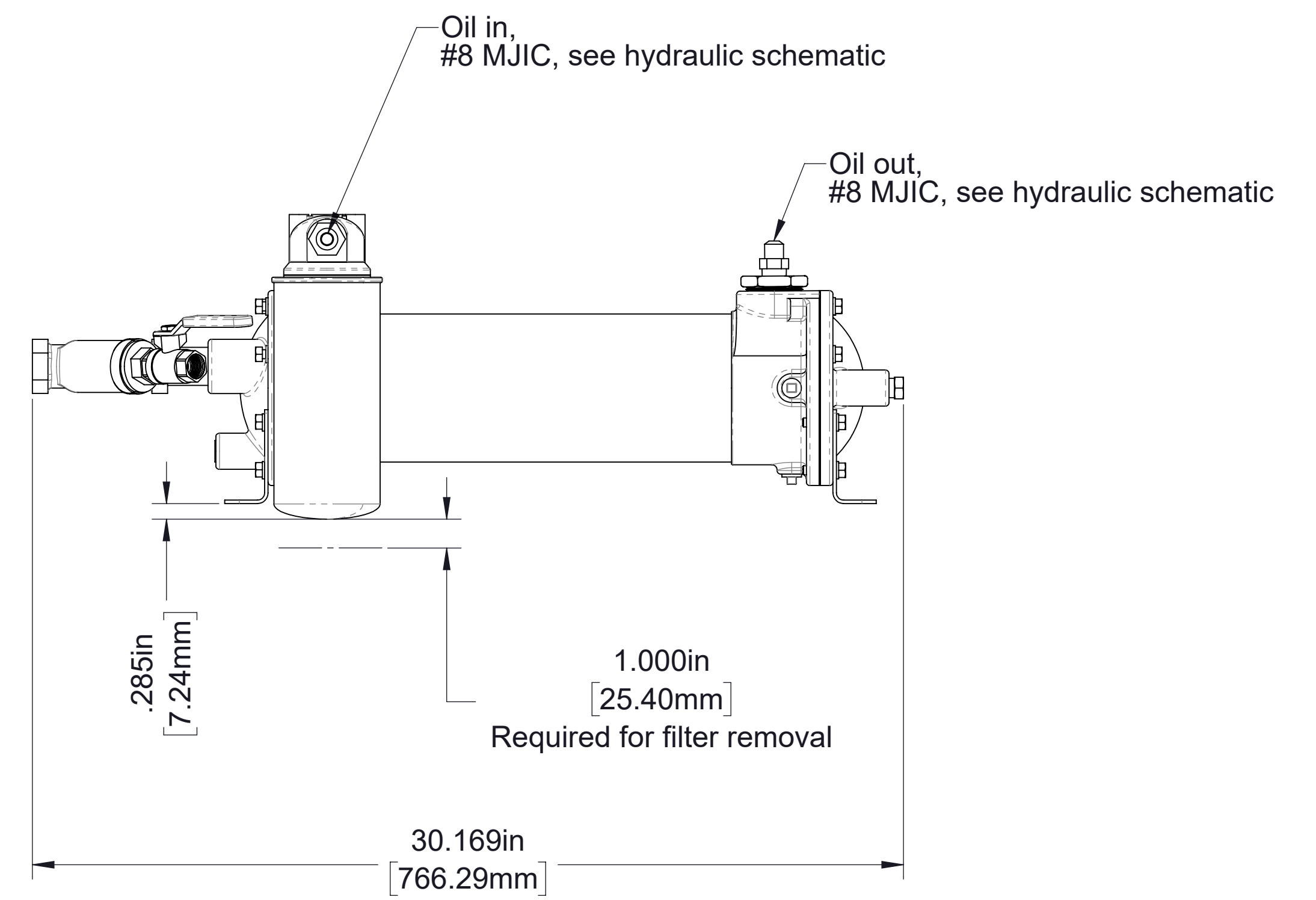
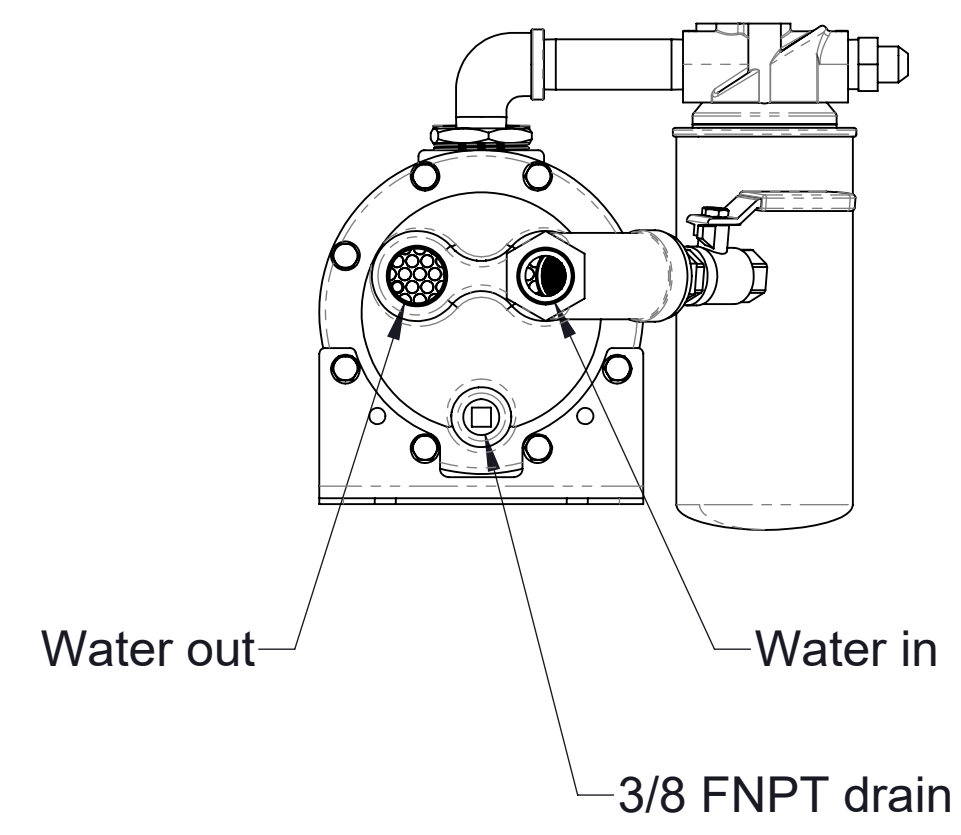
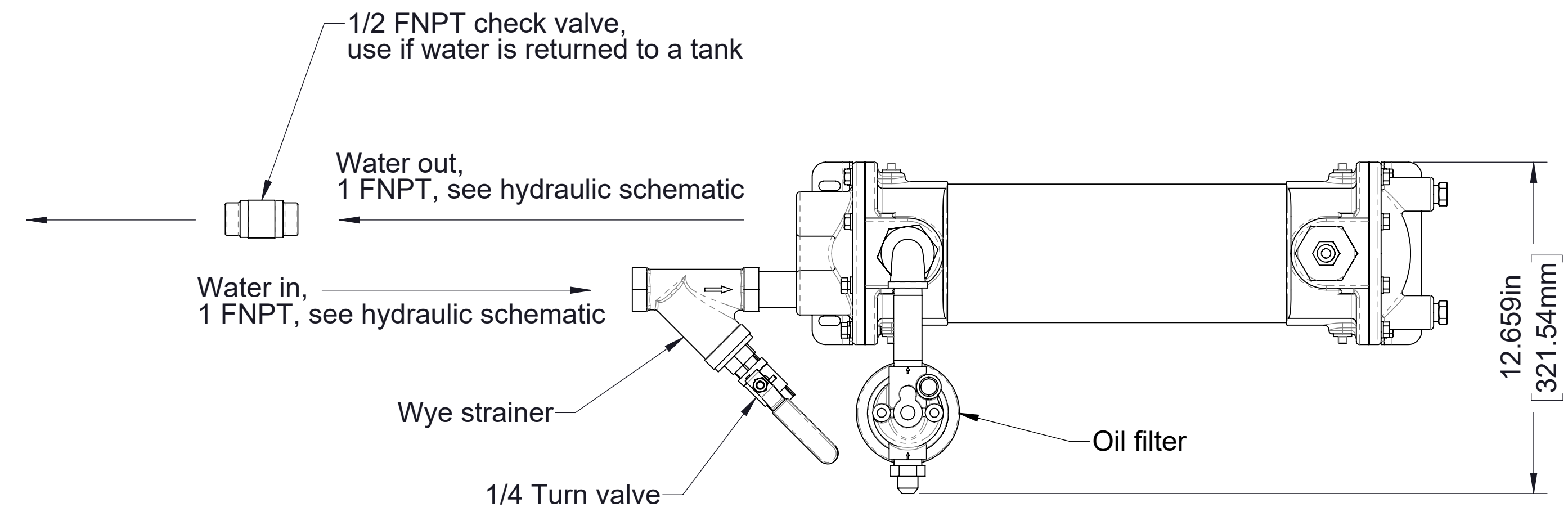


Sump (Oil Reservoir)



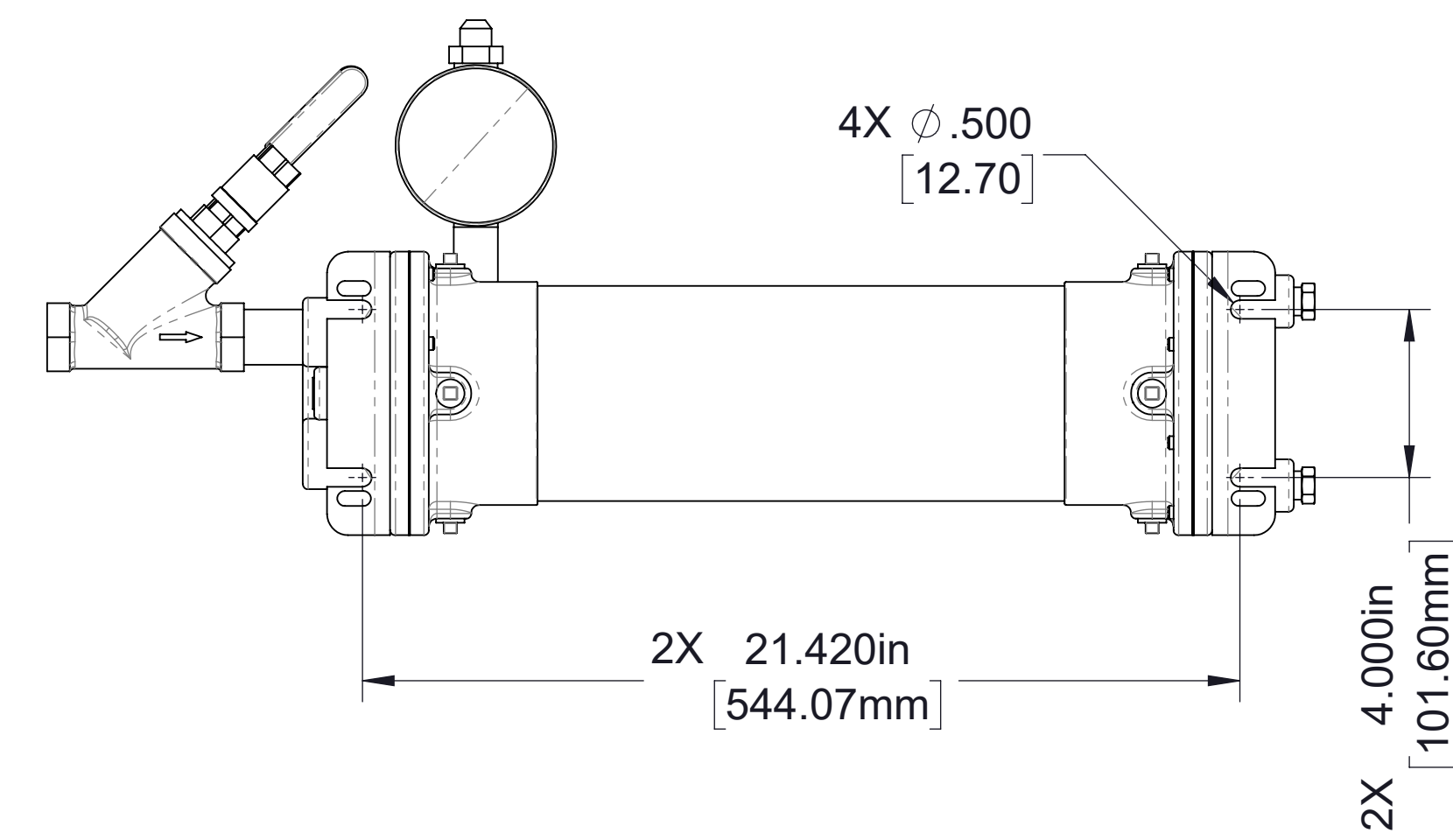


Separator Filter

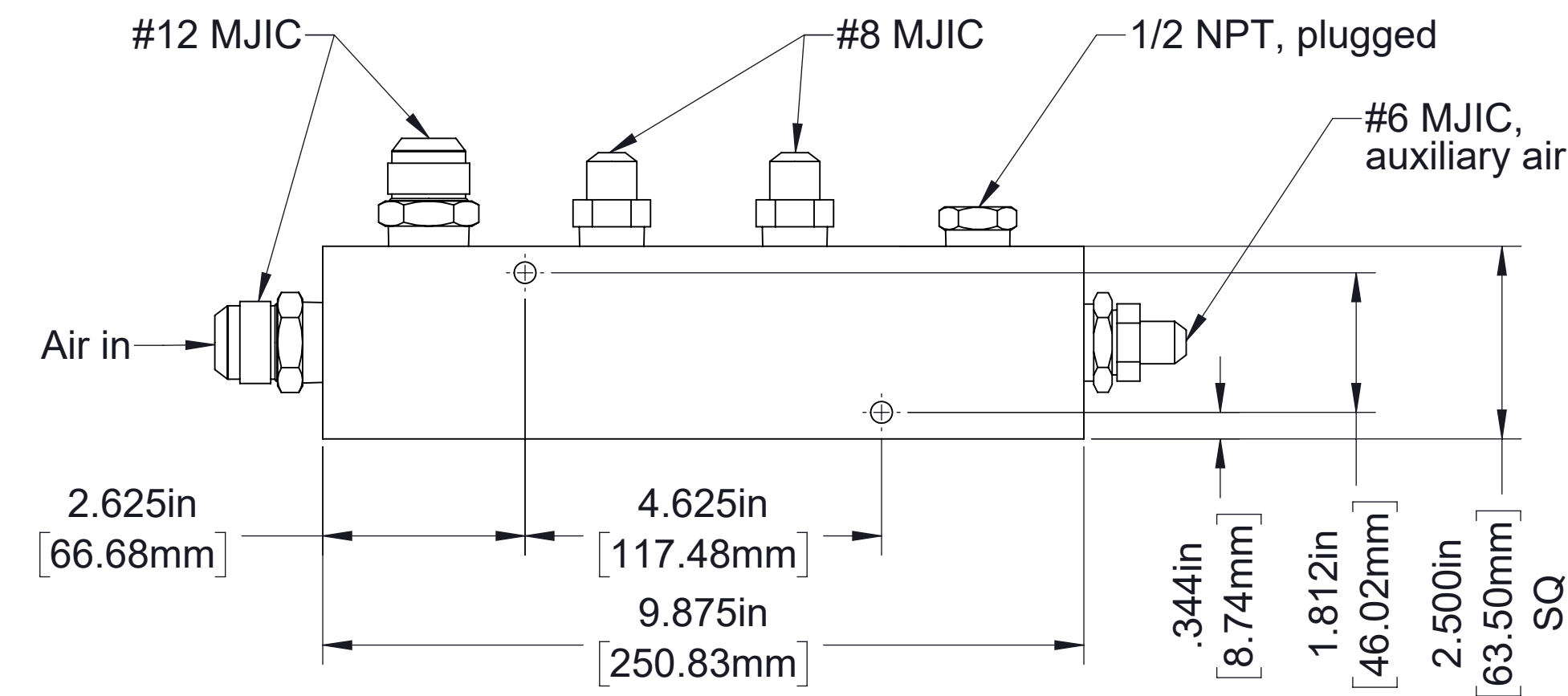
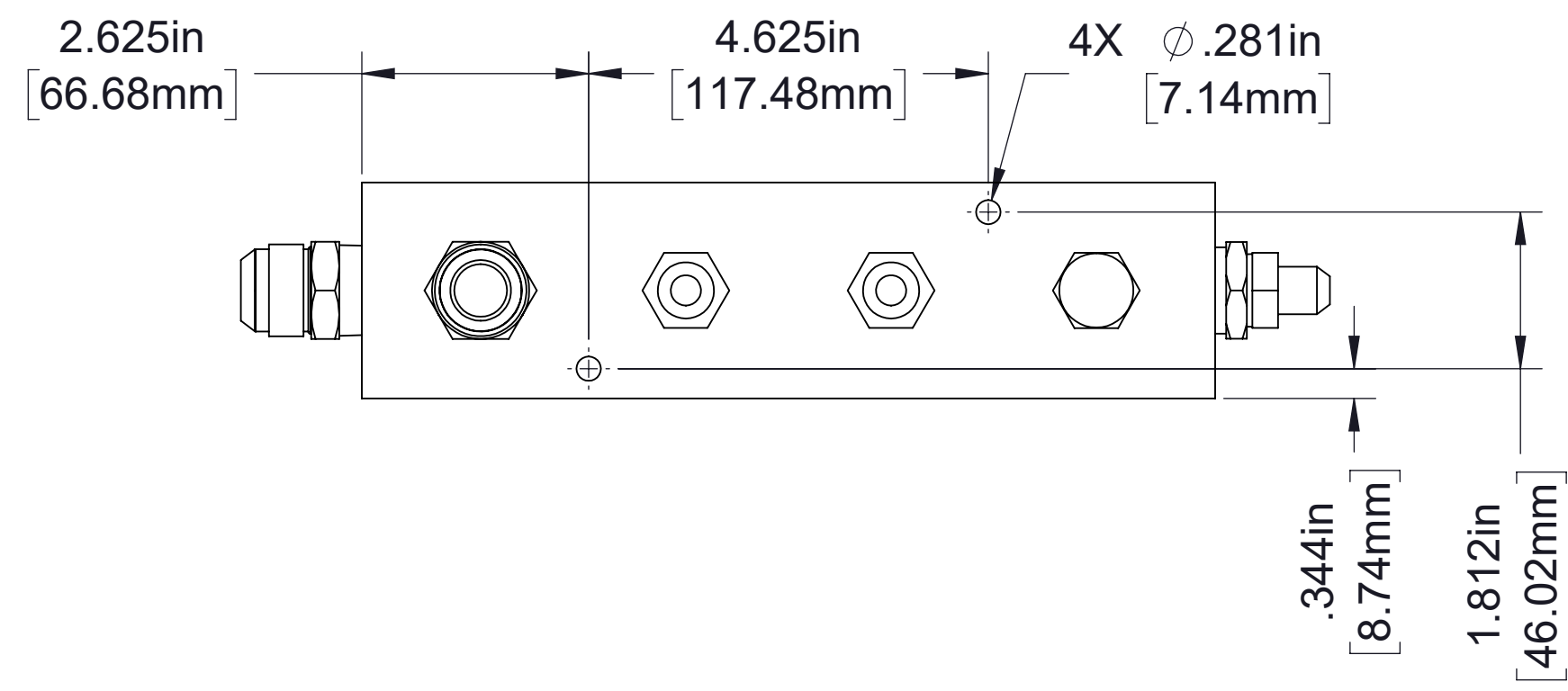


Panel Cut-Out

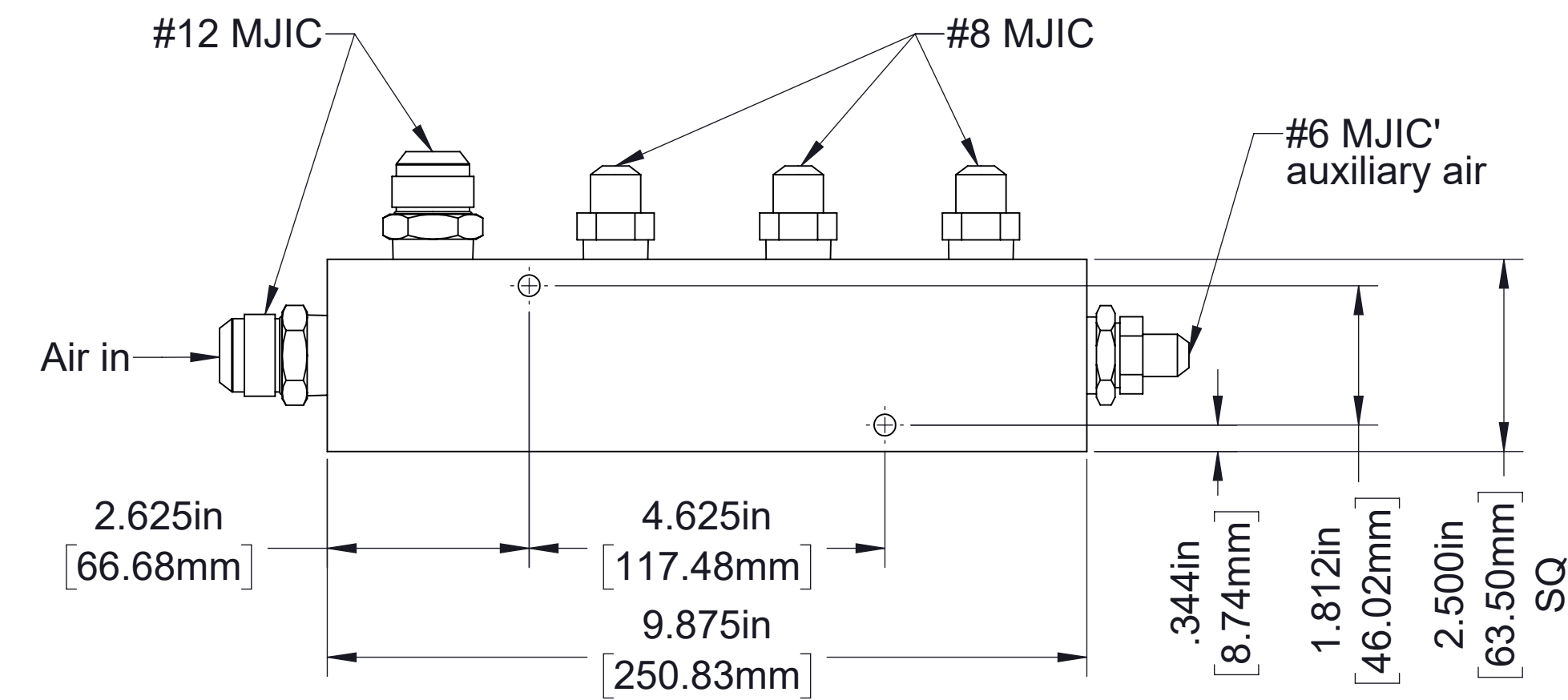
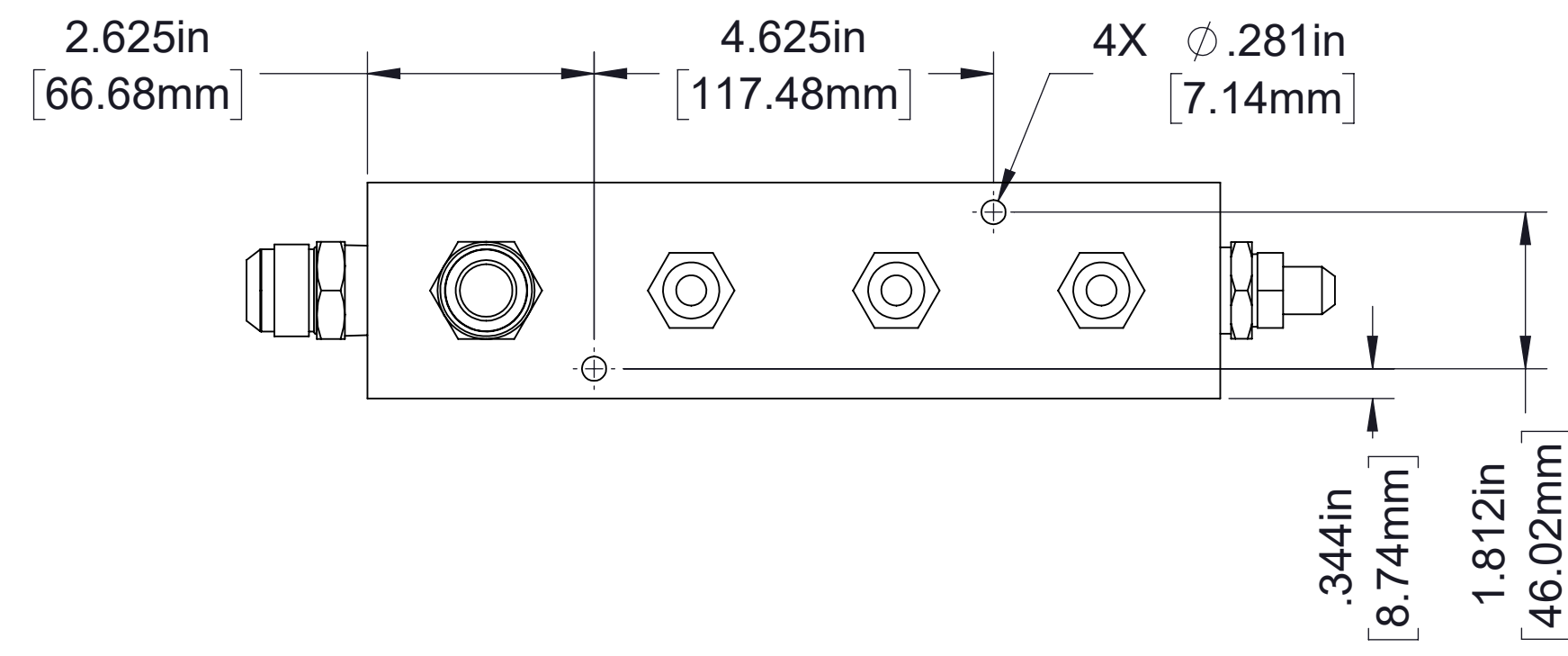
Optional Panel Mounted Strainer



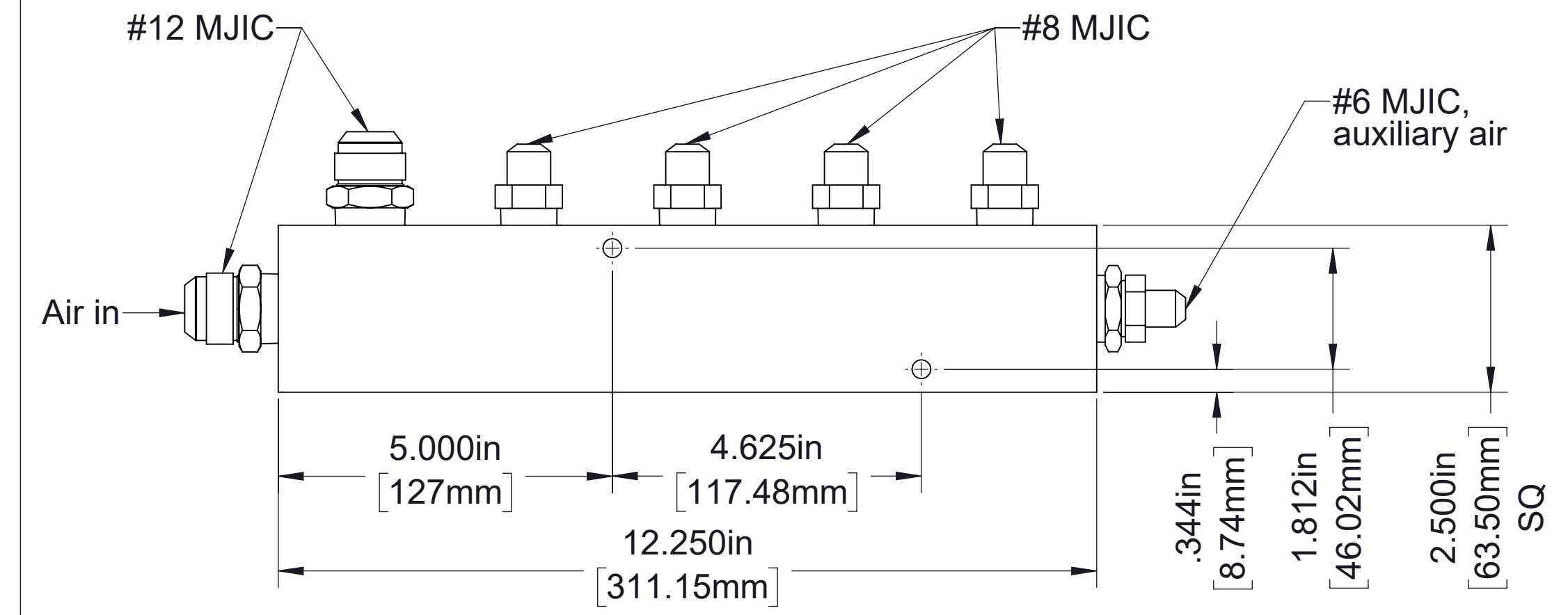
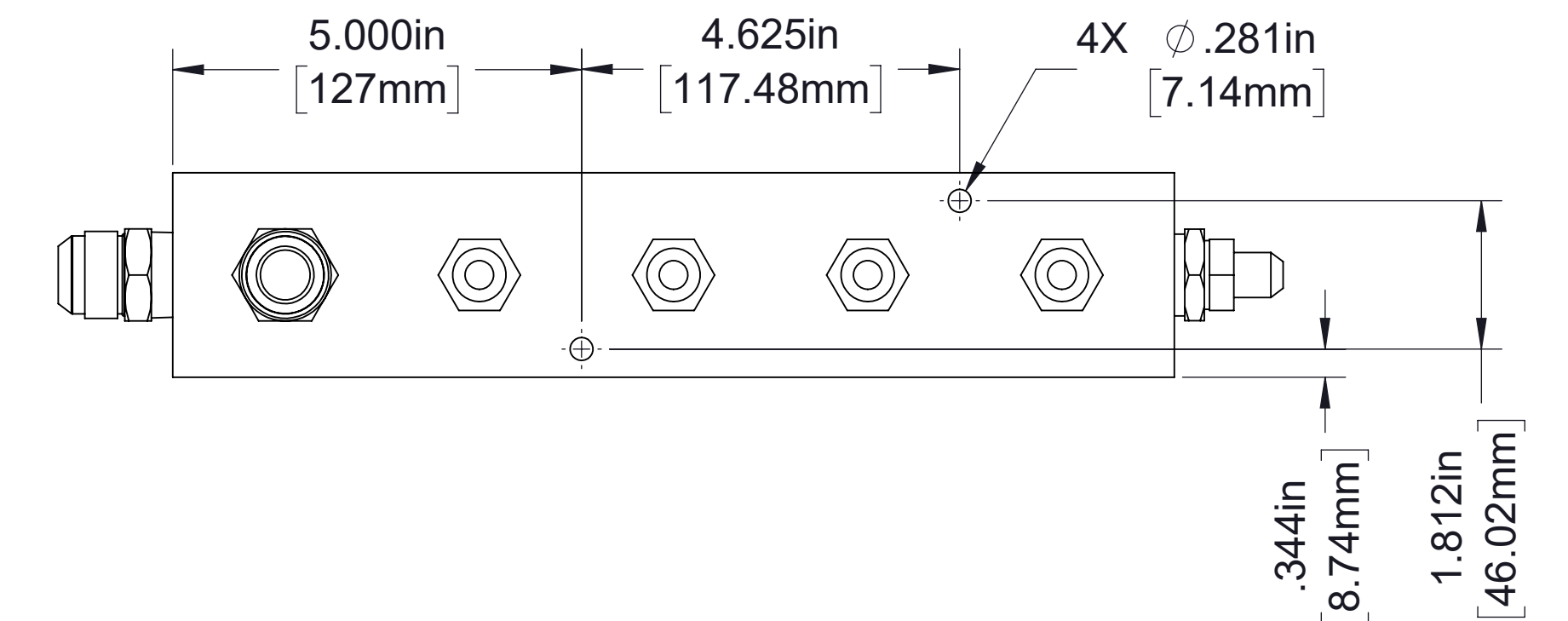
Oil Cooler



3 Port Manifold
Order part number 83360-1A

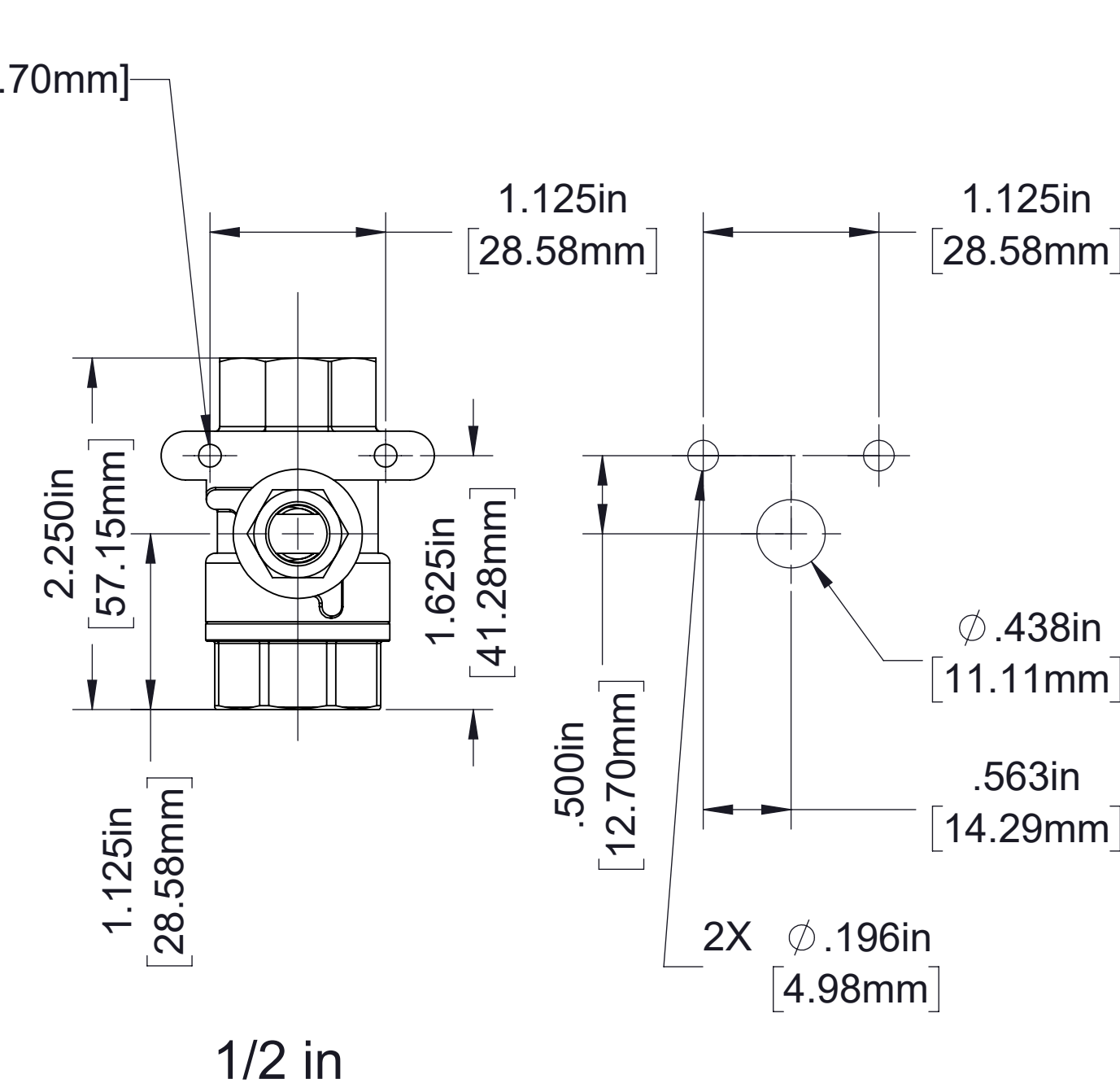
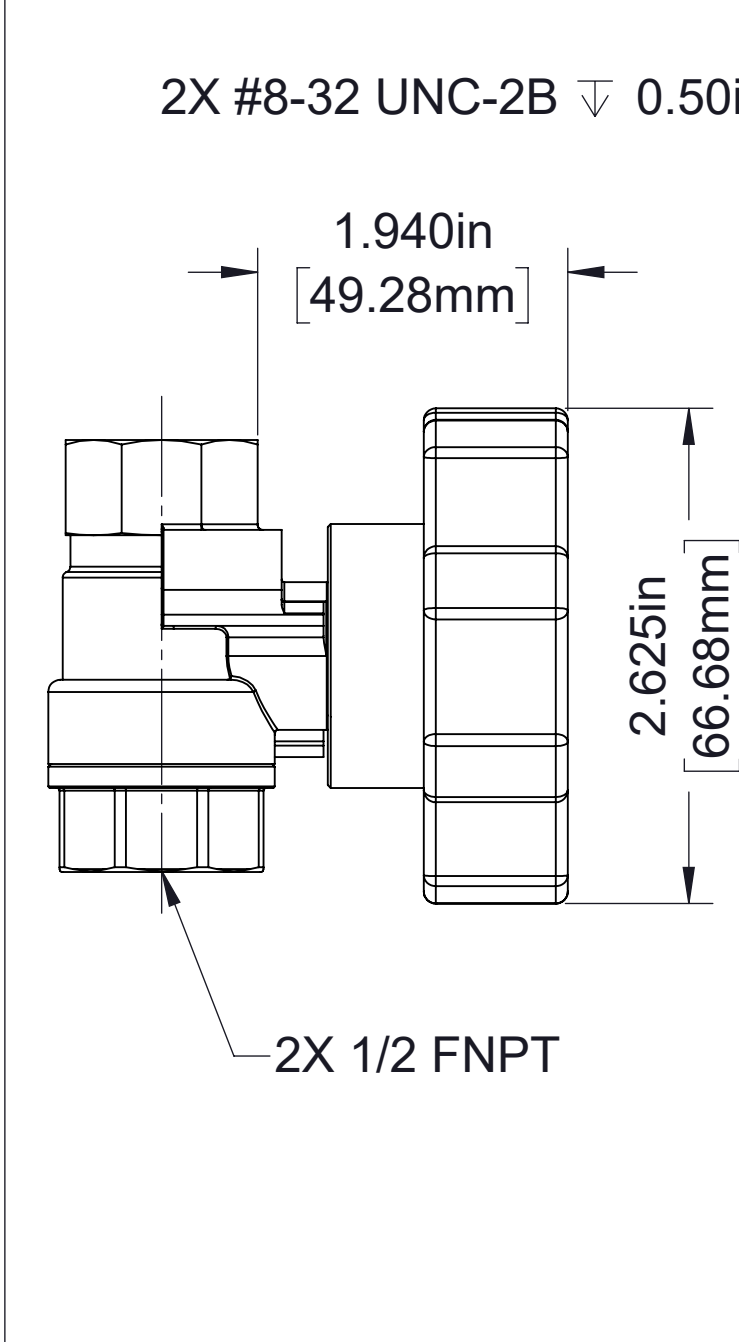
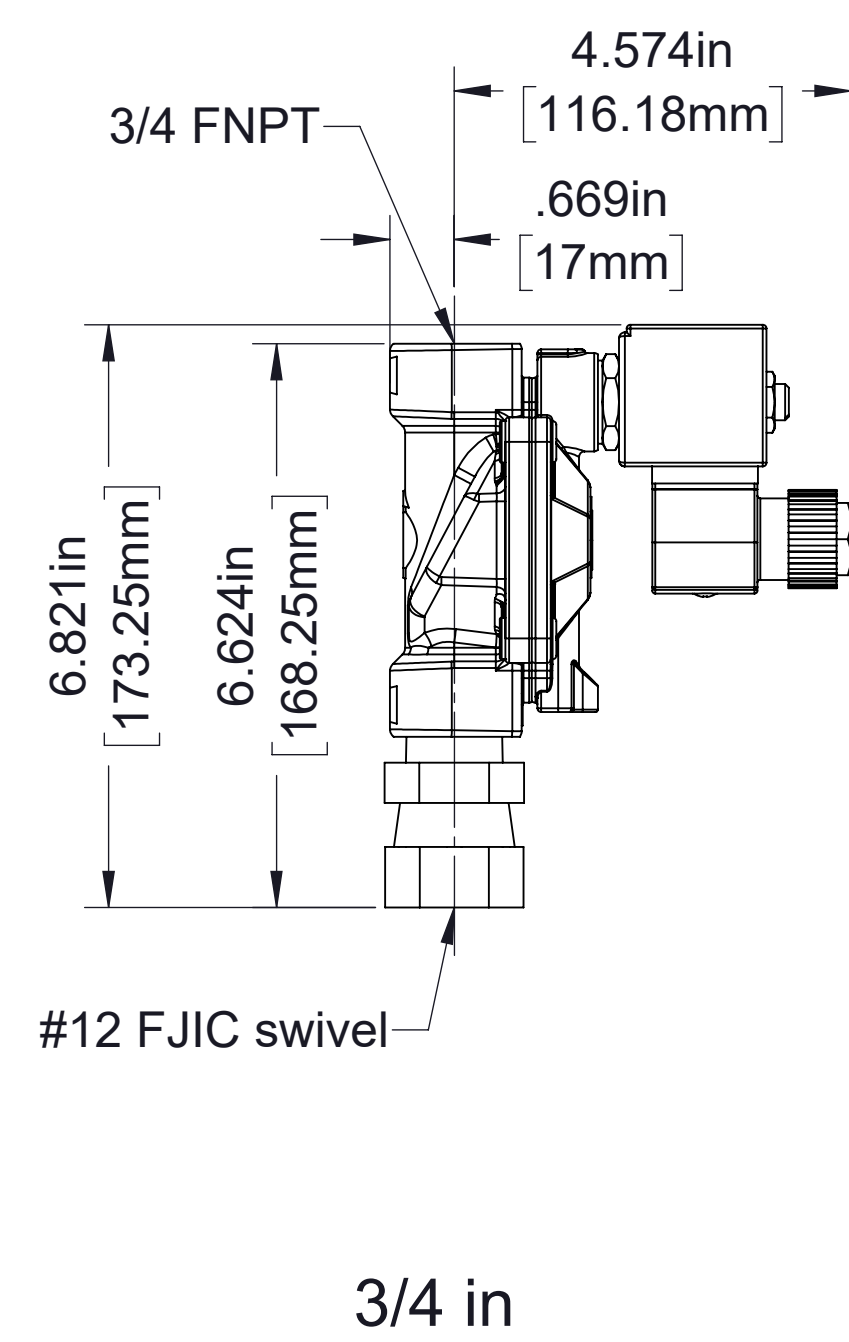
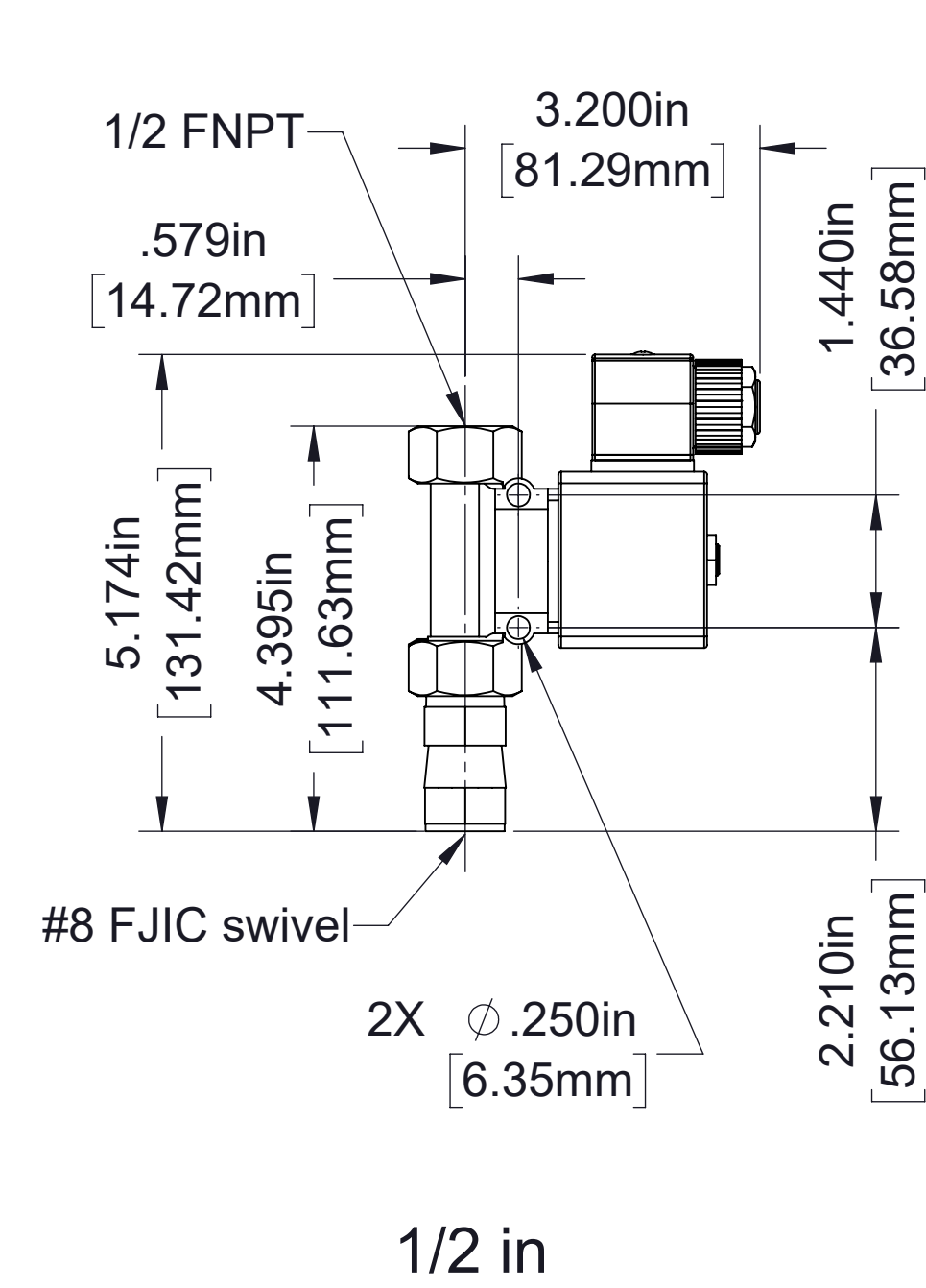


4 Port Manifold
Order part number 83360-1B



5 Port Manifold
Order part number 83360-1C

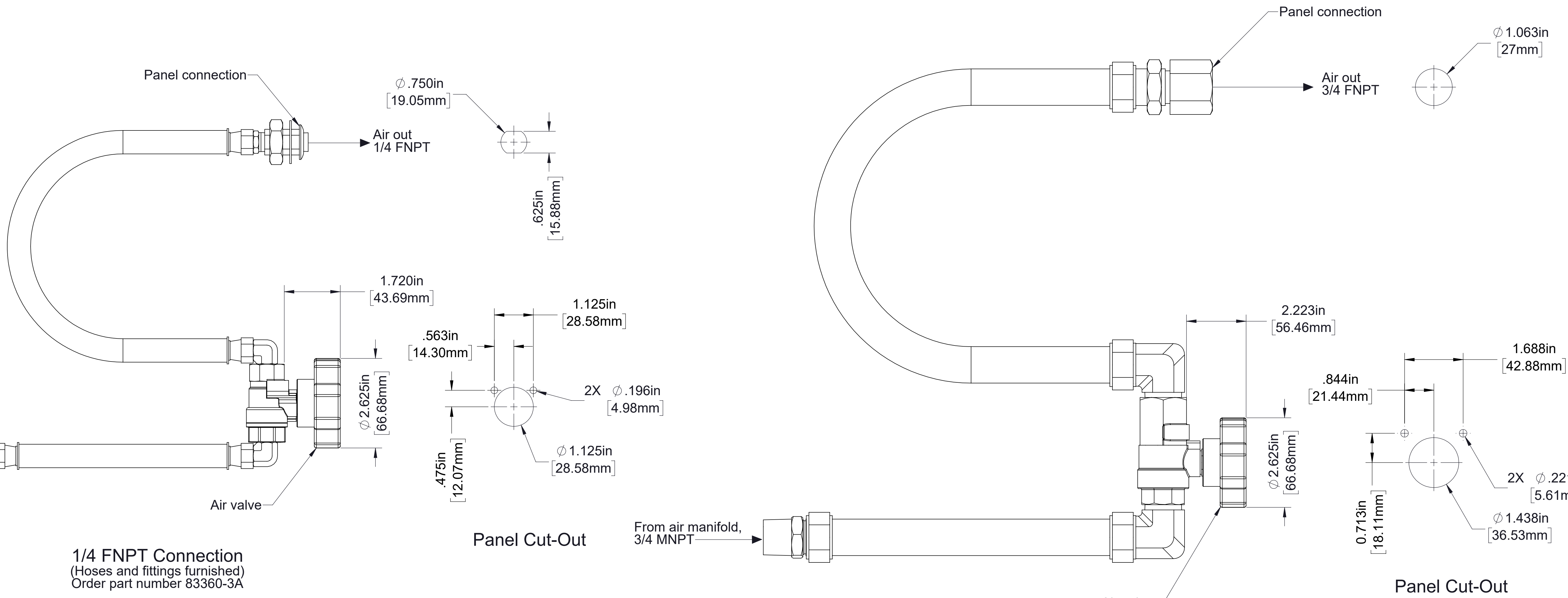
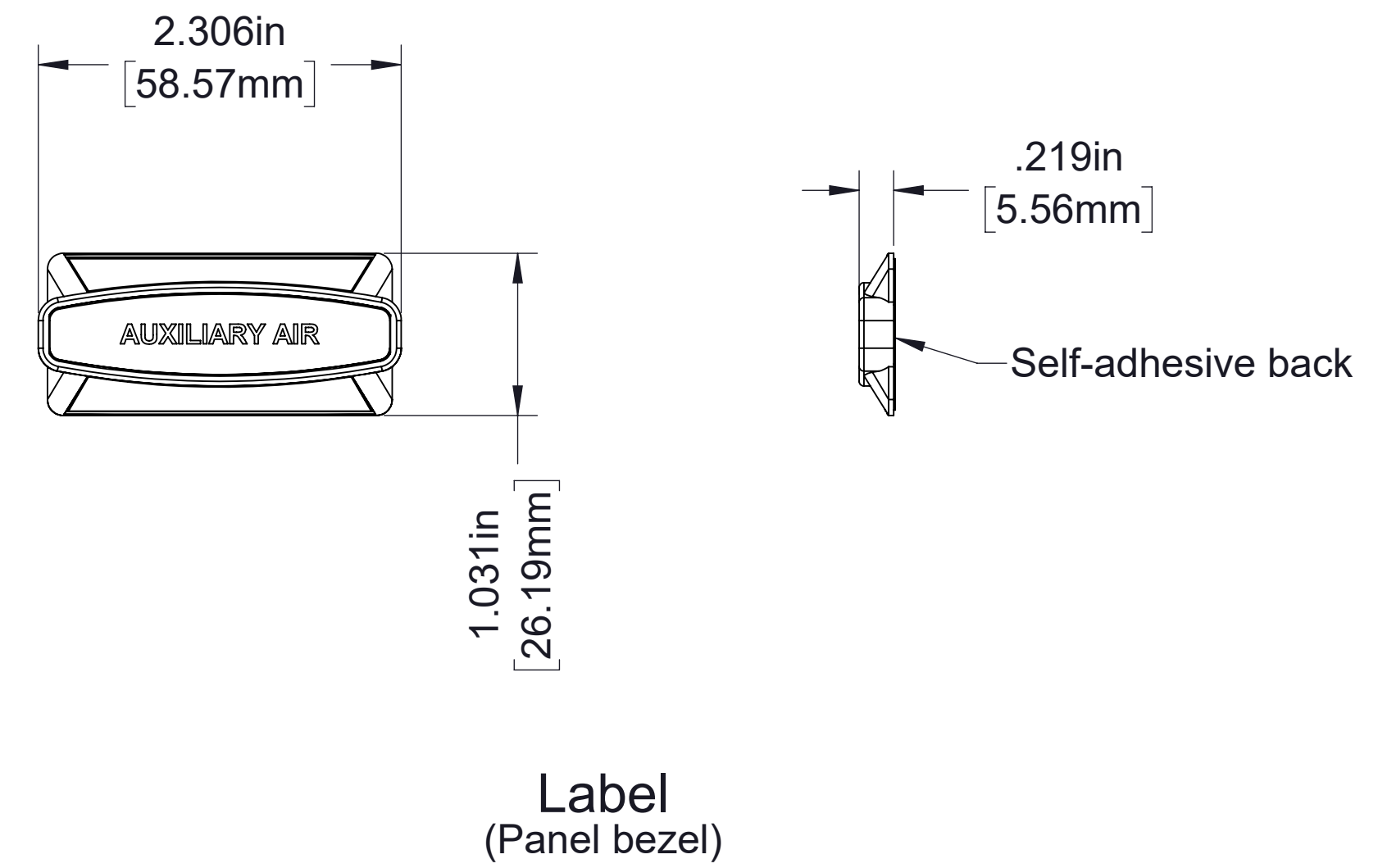
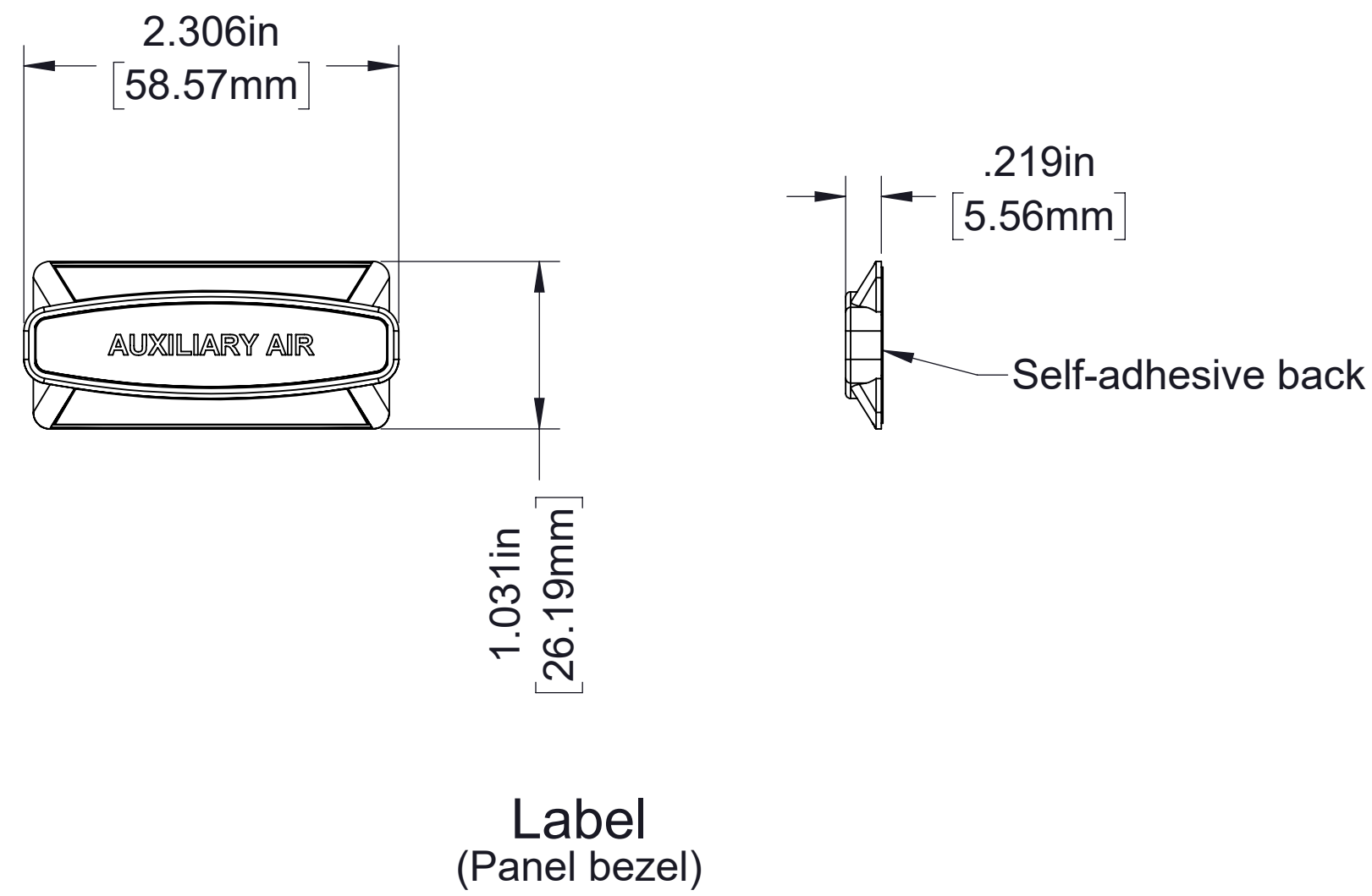
Optional Air Distribution Manifolds



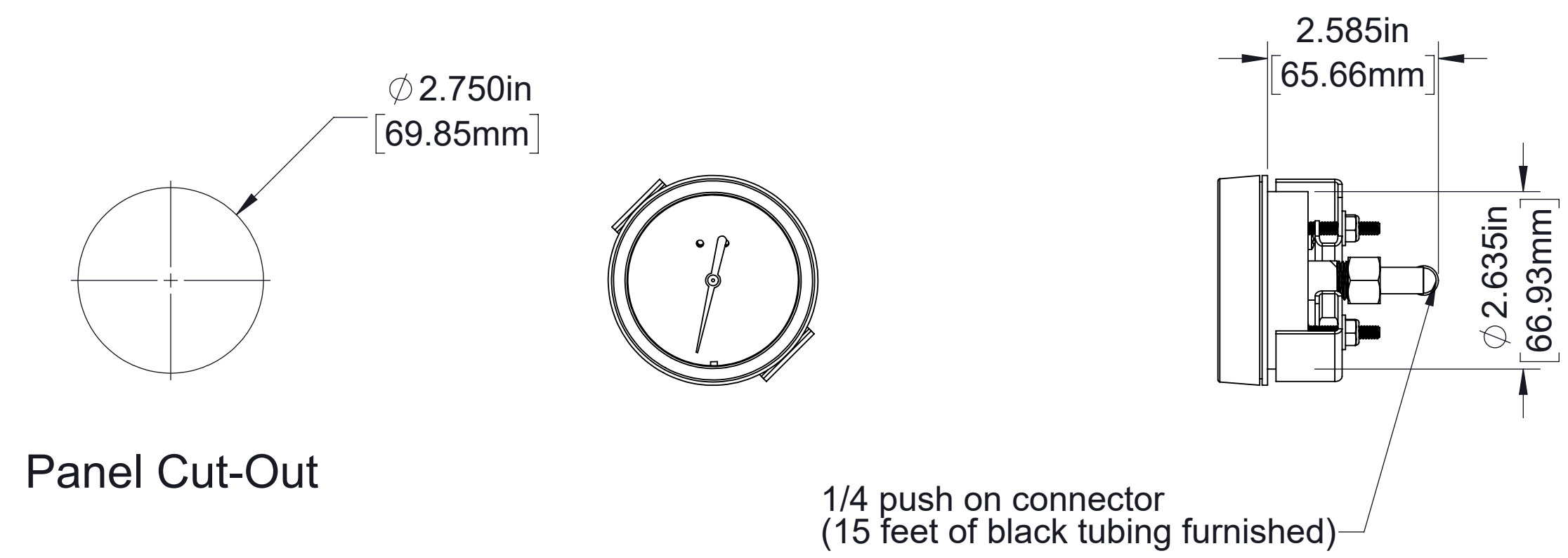
Electric Valves

Manual Valves

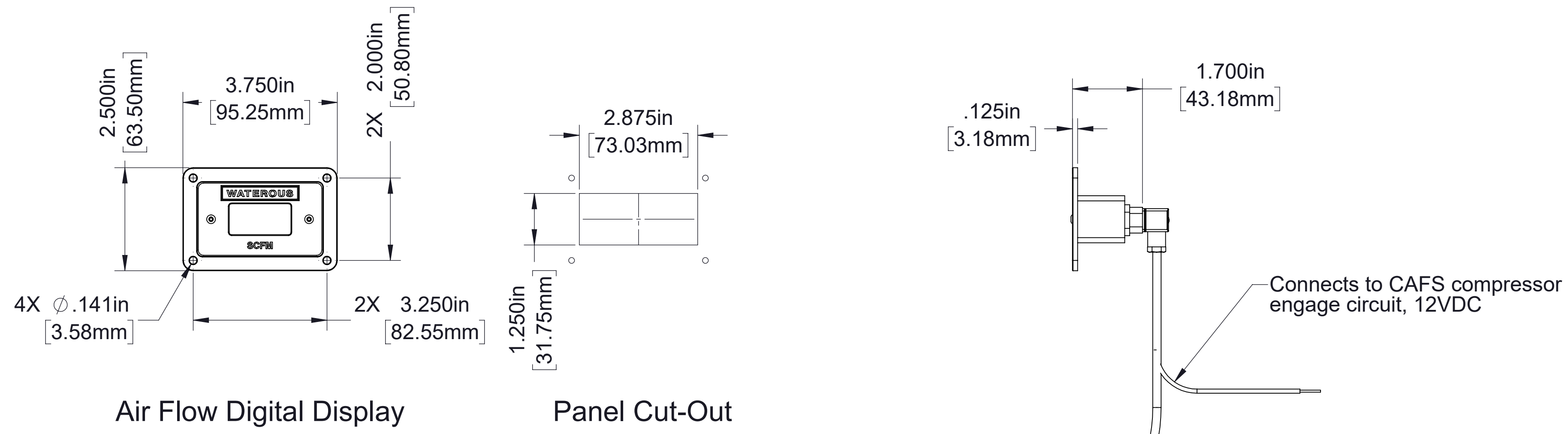
Optional Air Valves



Auxiliary Air Connection

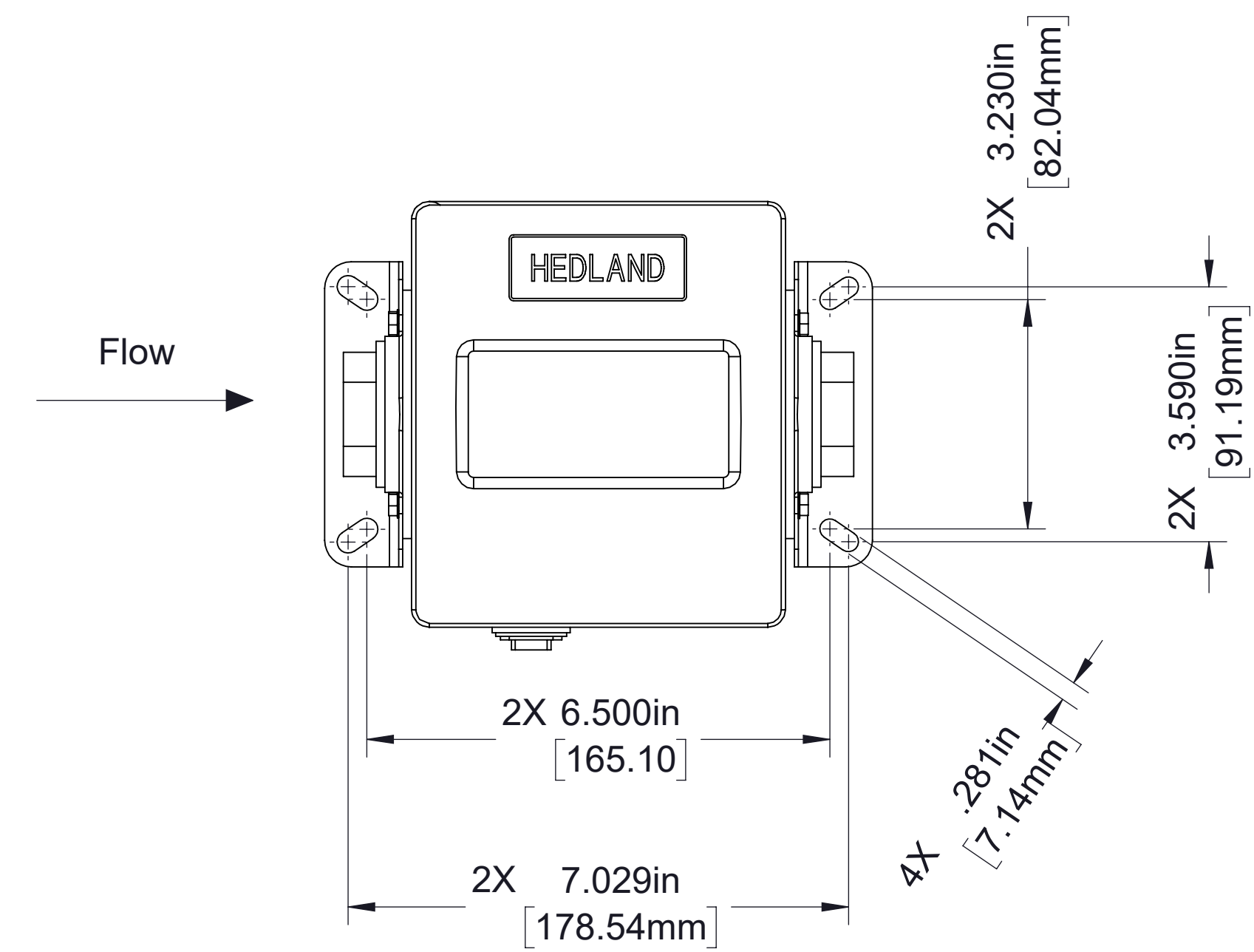
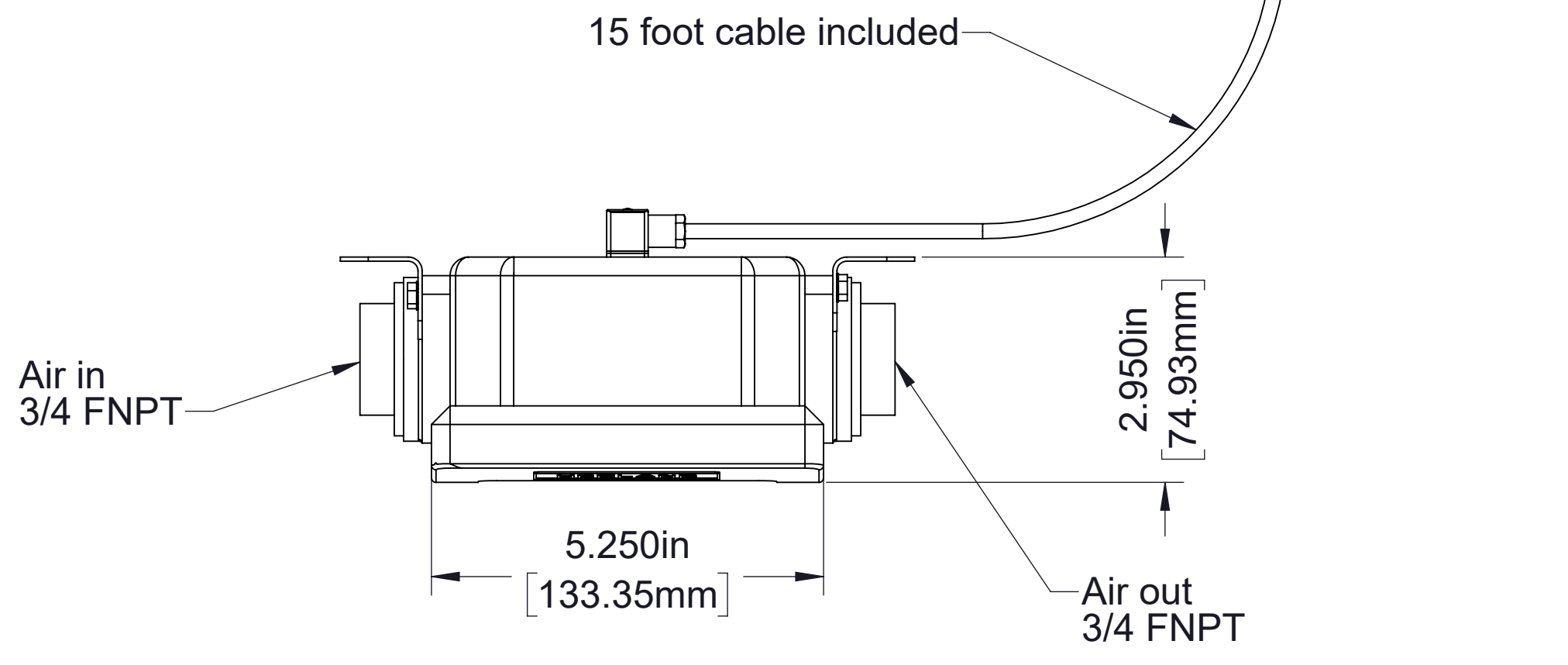


Optional Air Pressure Gauge
 Single Mpa scale order part number 83417-1A
 Dual PSI/Kpa scale order part number 83417-1B



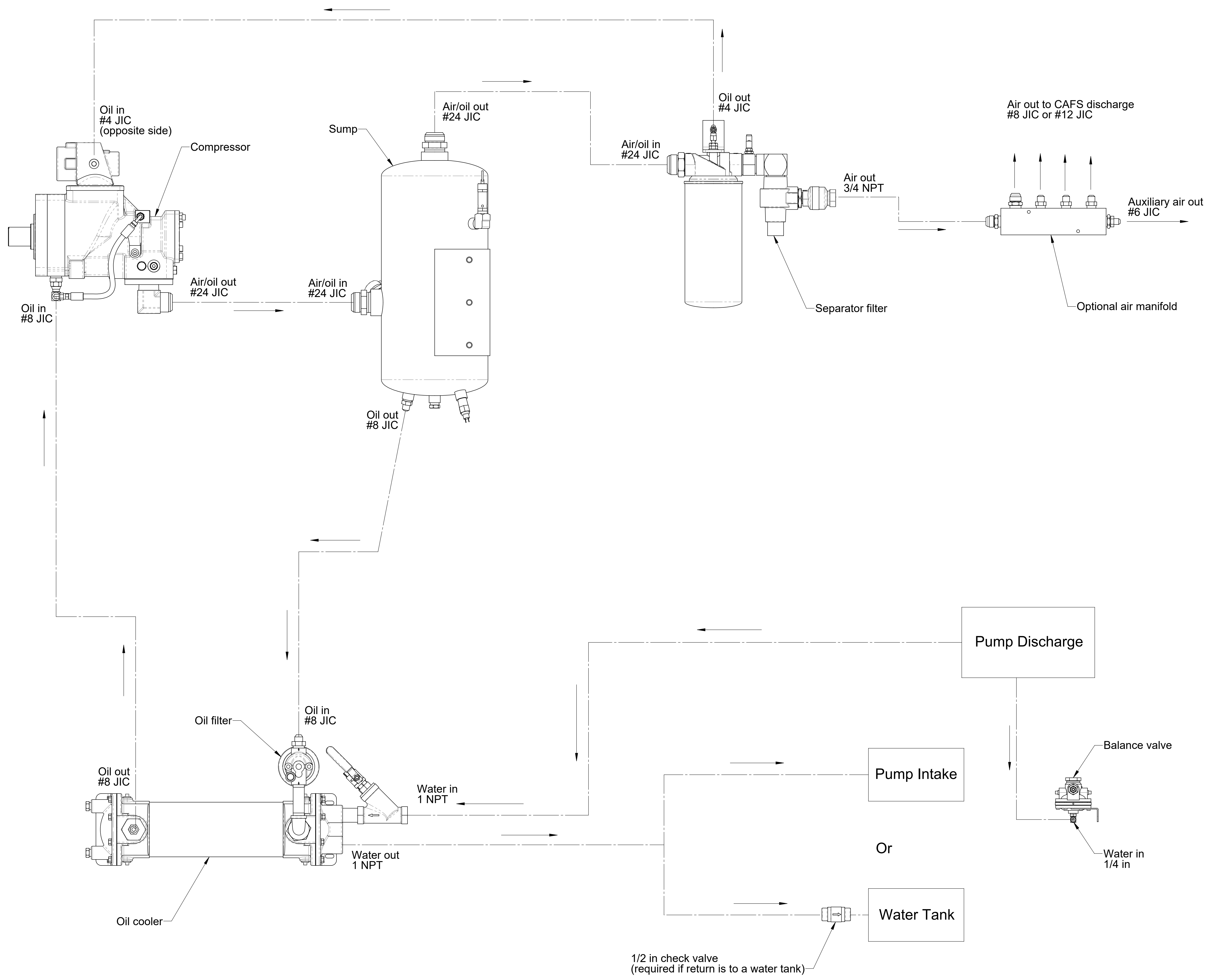
Air Flow Digital Display

Panel Cut-Out

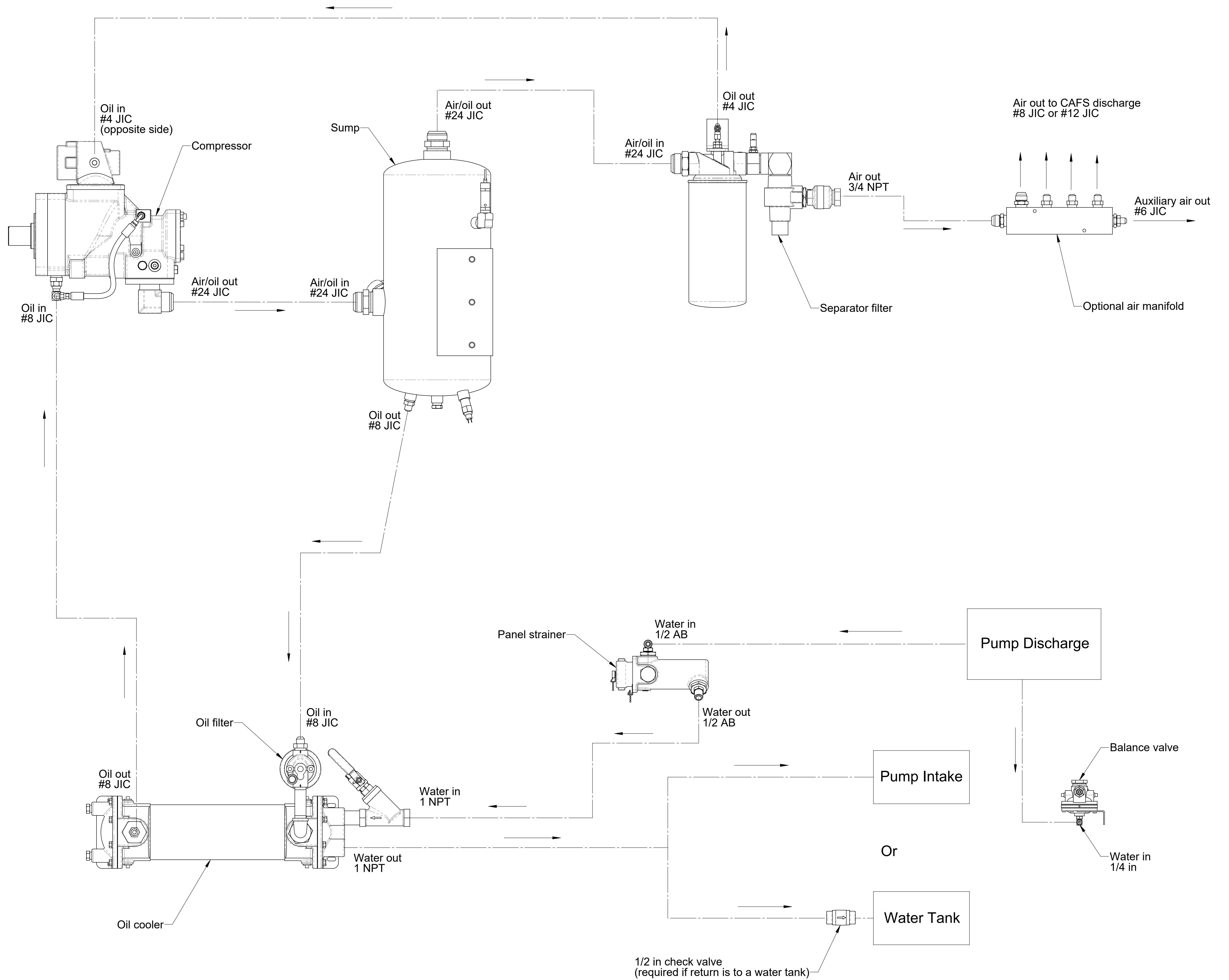


Air Flow Meter

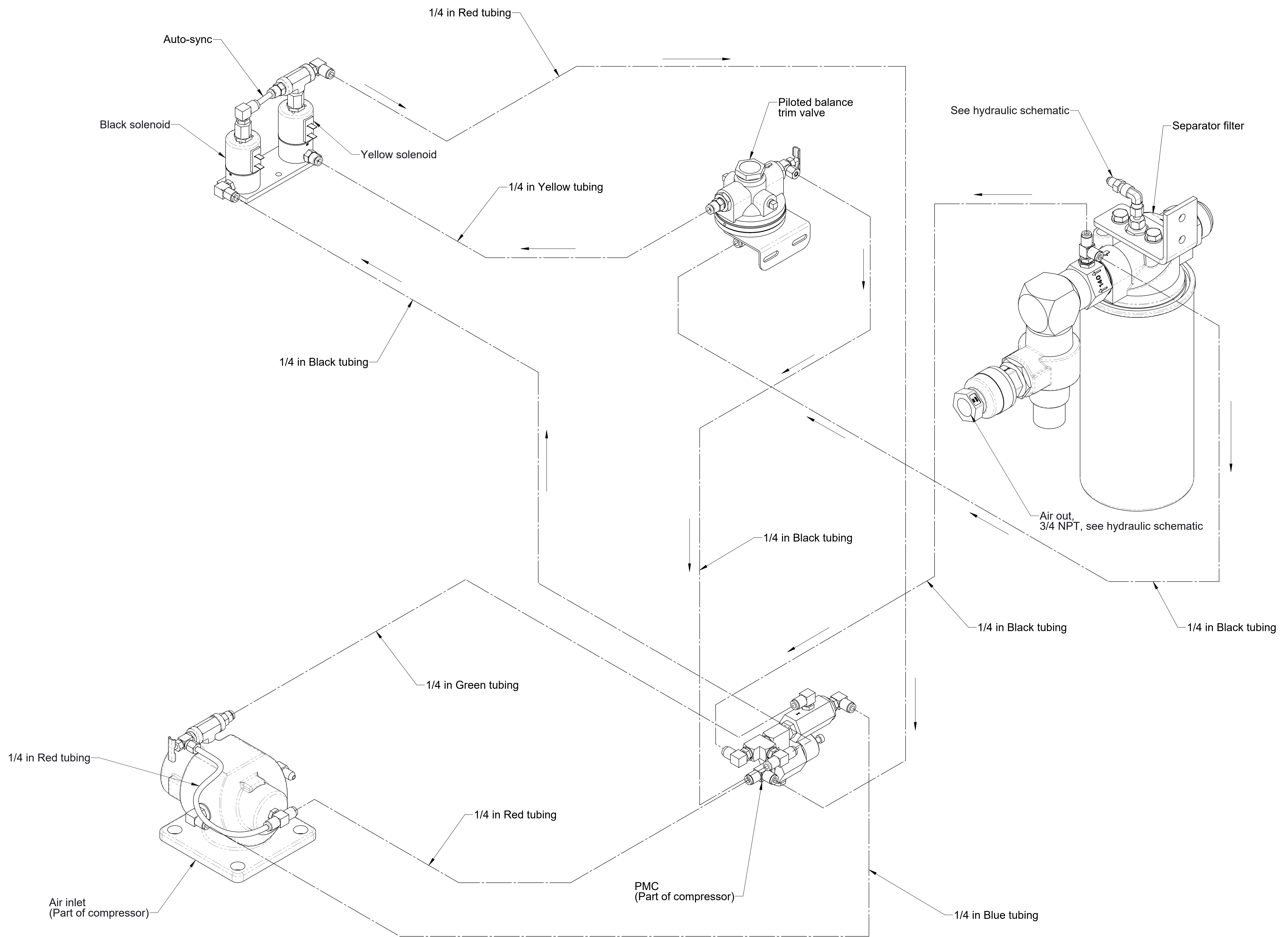
Optional Digital Air Flow Meter
 Order part number Q-0390024, 12V



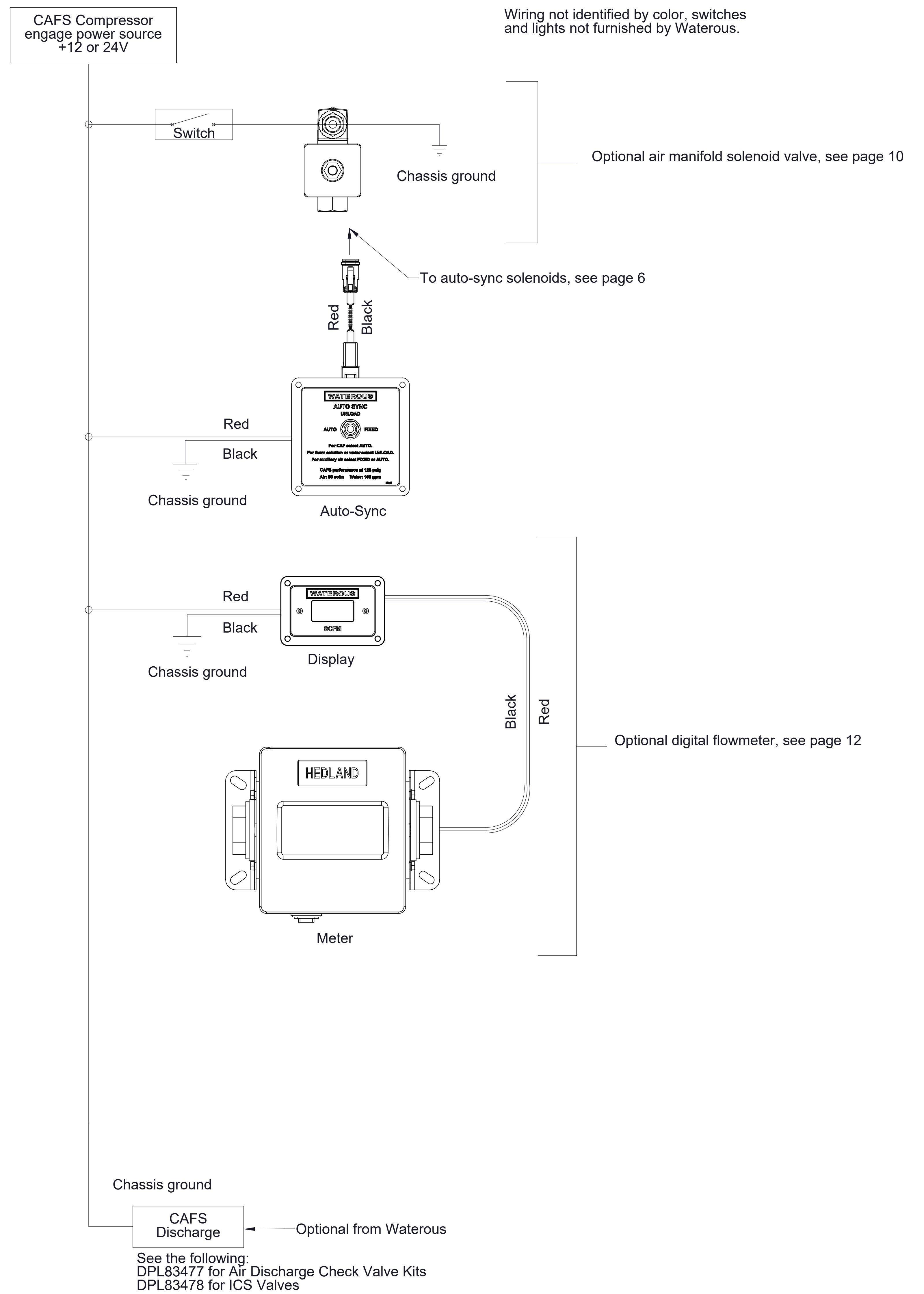
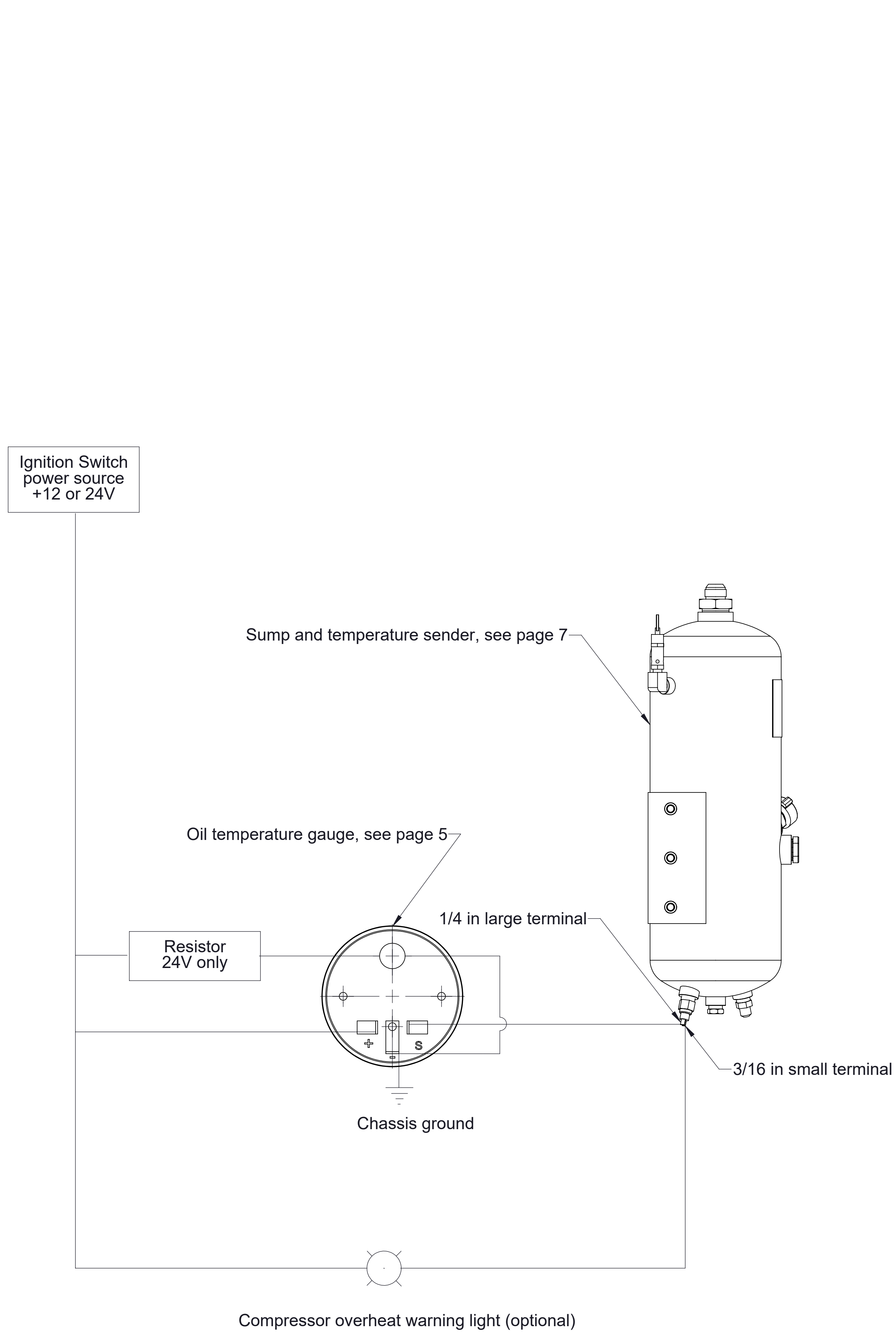
Hydraulic Schematic
Inline strainer



Hydraulic Schematic
Panel strainer



Air Circuit Schematic



Notes:
 1. Wiring and light not furnished by Waterous.
 2. All wire 16 gauge unless noted otherwise.