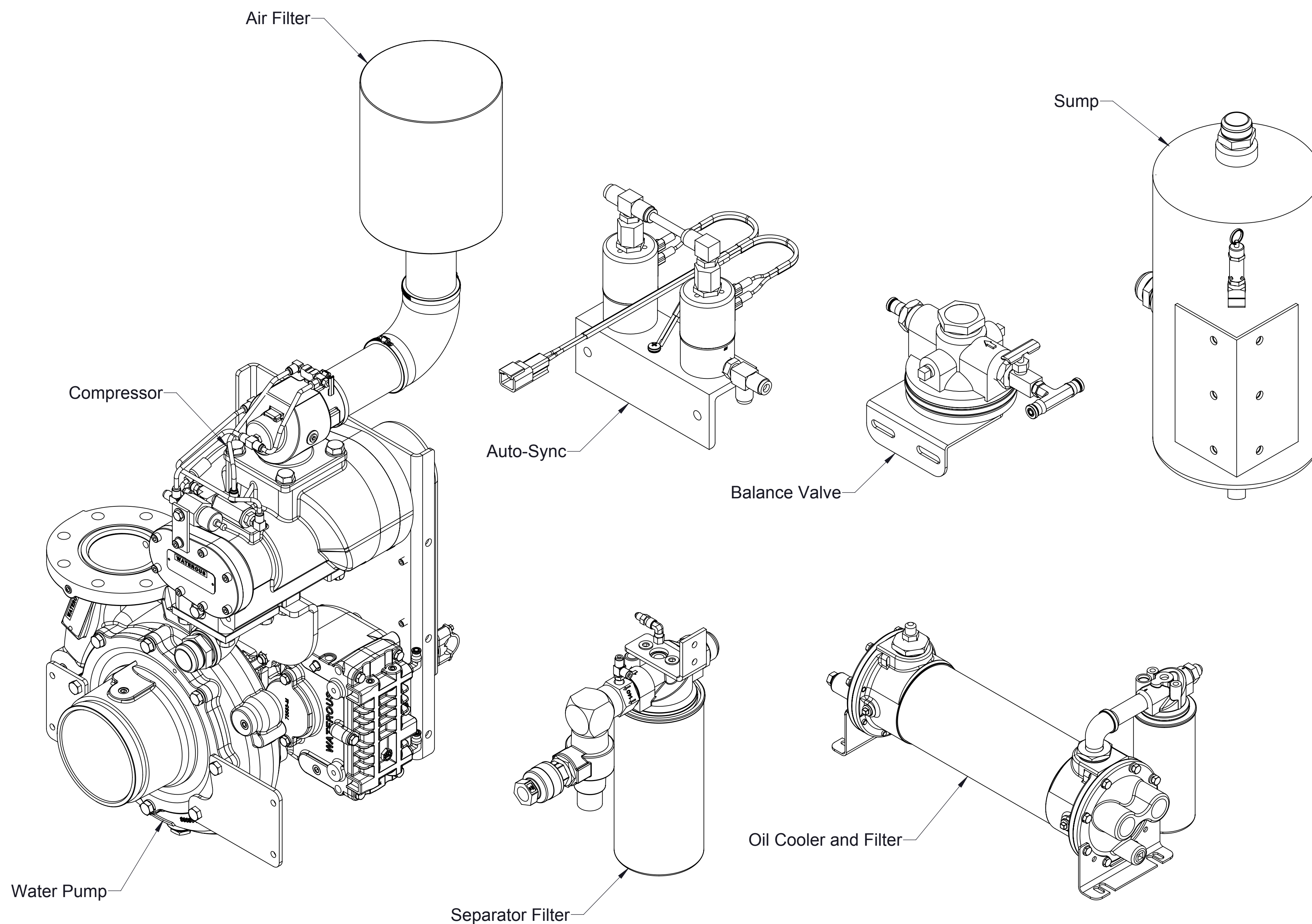
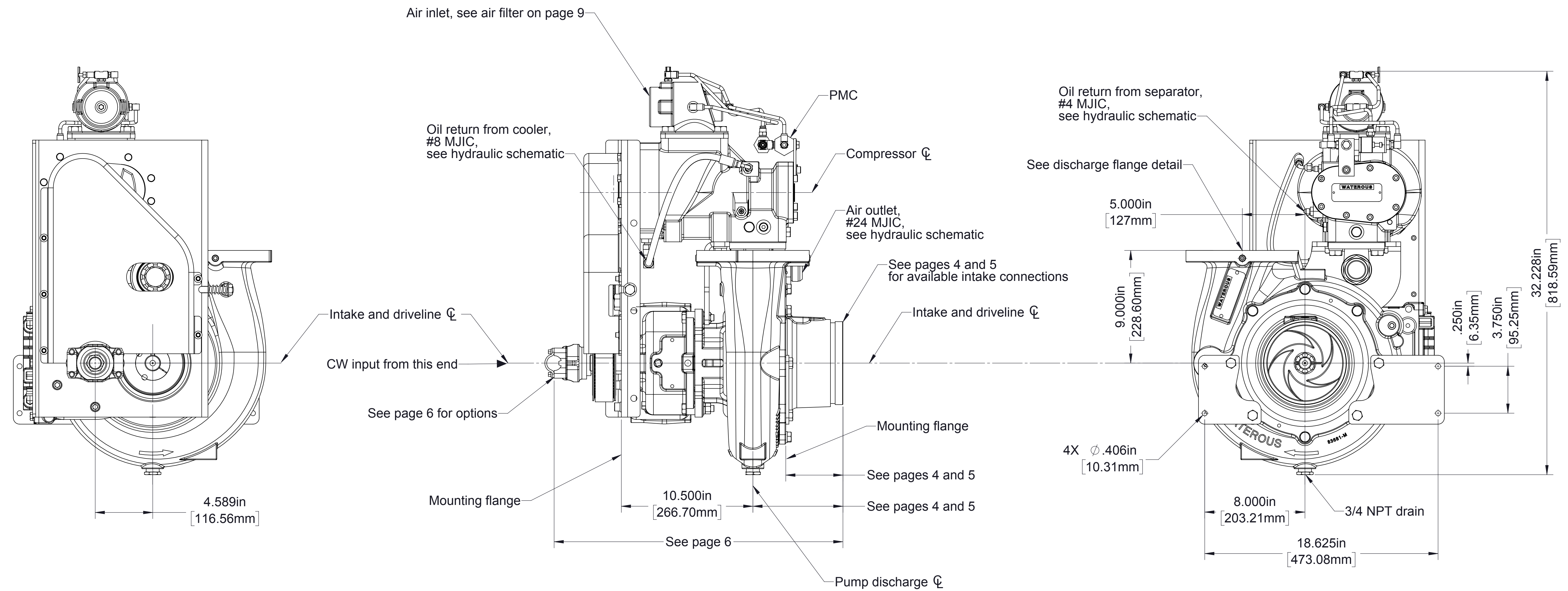
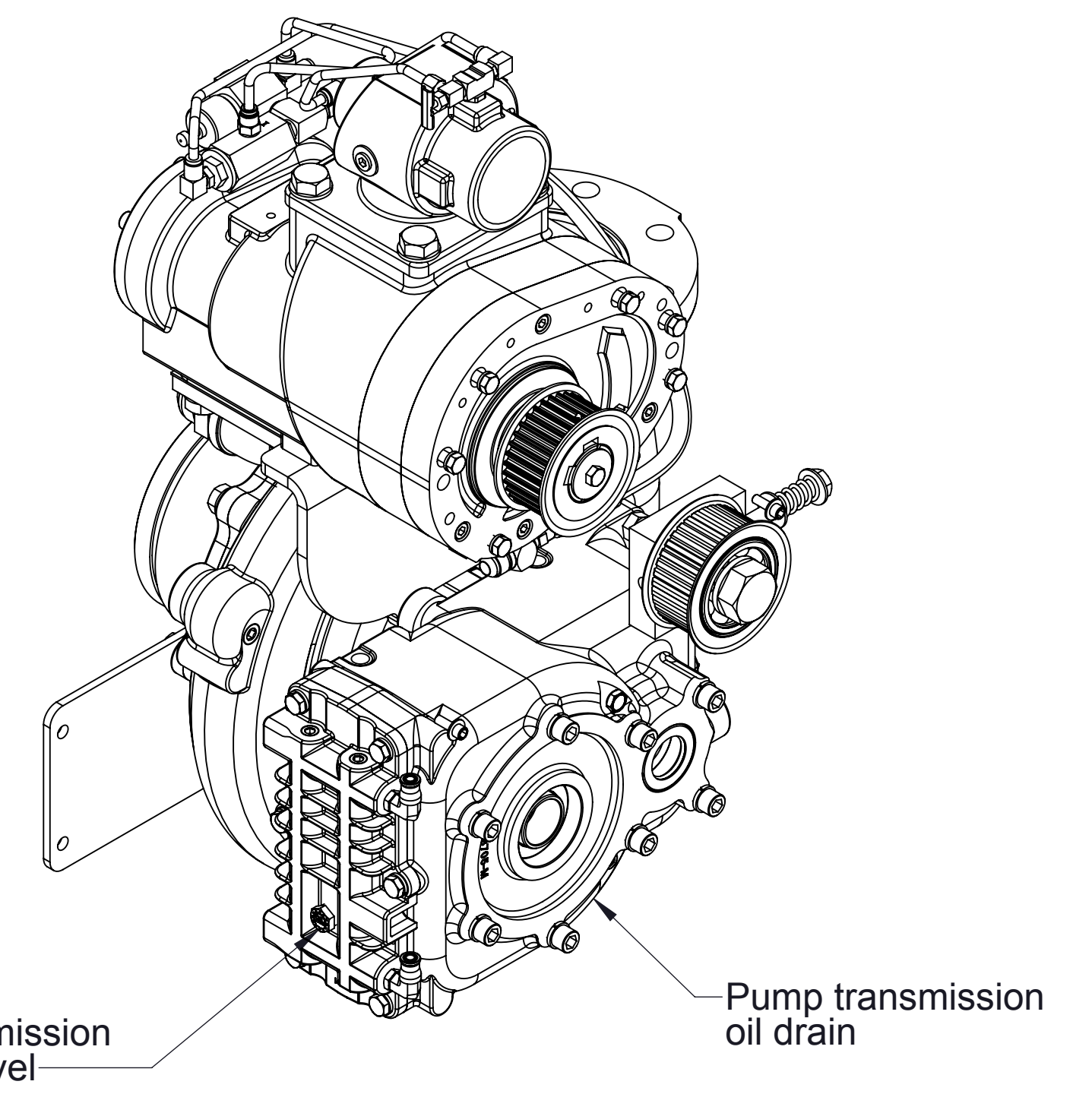
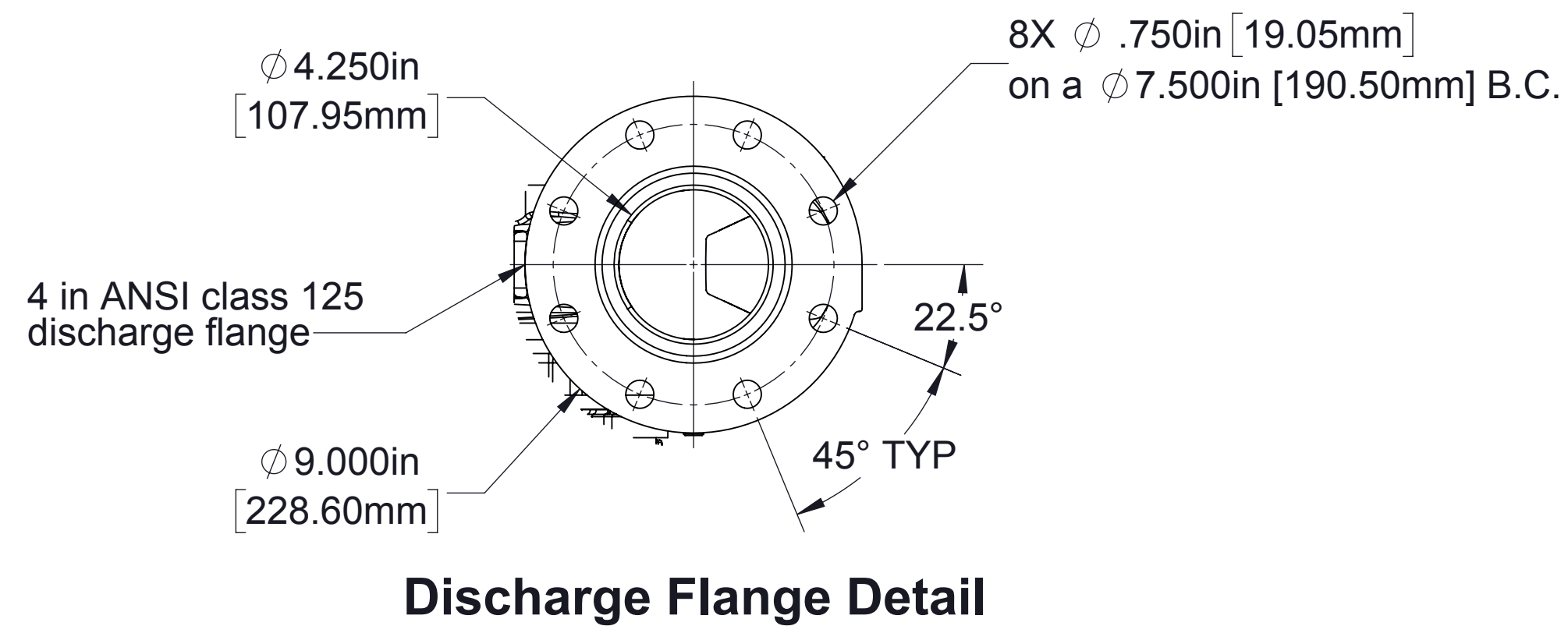


PTO Compressor System Dimensional Drawings

Models 750-150-P, 1000-150-P and 1250-150-P
Includes fire pump models: CXNK, CXSK, CXVK OR CXNPA, CXSPA, CXVPA

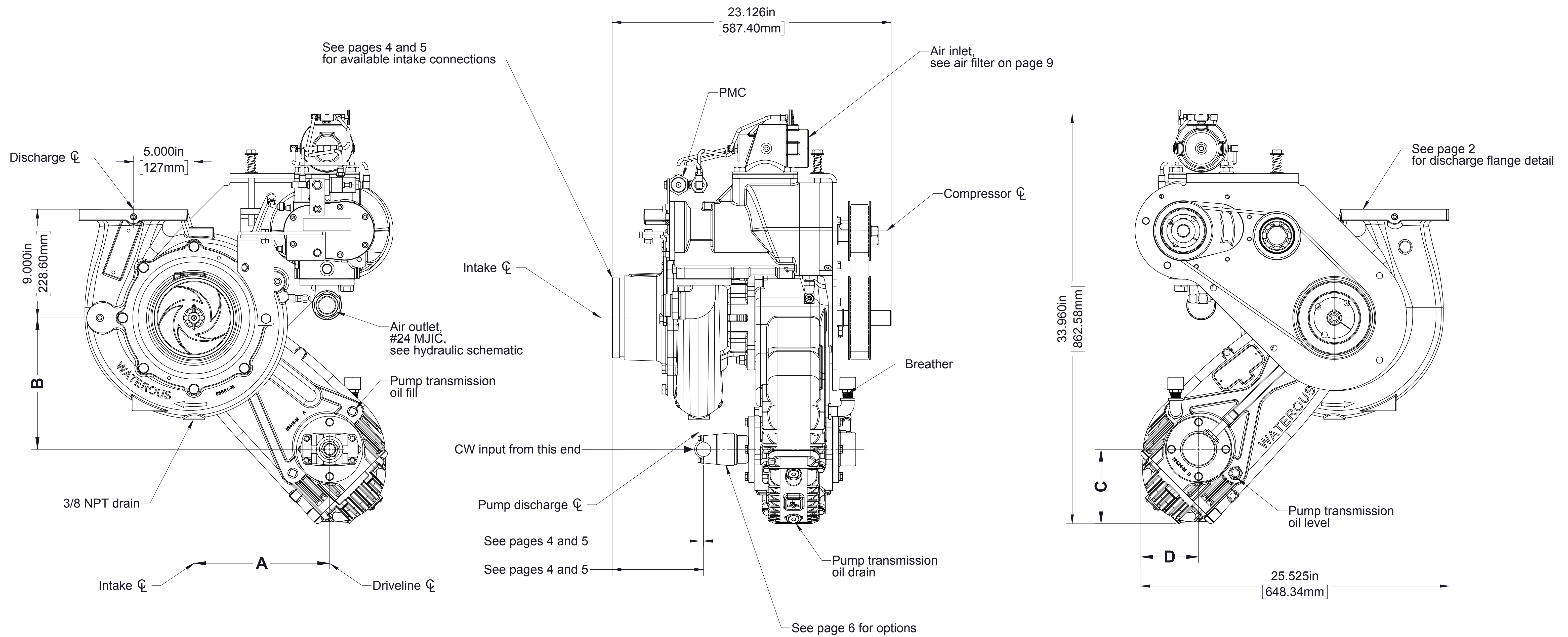


Standard Components:	Page
• Compressor and Water Pump	
• Models with K Series Transmission	2
• Models with PA Series Transmission	3
• Available Pump Intake Connections	
• Pump Models CXN and CXV	4
• Pump Model CXS	5
• Available Companion Flanges and End Yokes	6
• Sump (Oil Reservoir)	7
• Oil Cooler and Filter	8
• Air Filter	9
• Separator Filter	9
• Auto-Sync	10
• Balance Valve	10
• Oil Temperature Gauge	10
• Panel Plates	10
• Sump Vent	14
Optional Components:	
• Air Oil Cooler (Electric Fan)	11
• Air Distribution Manifold	12
• Auxiliary Air Connection	13
• Air Pressure Gauge	14
• Digital Flow Meter	14
• Oil Inject Check Valve	See DPL83810
• Hose and Fitting Kit	See DPL83810
CAF Discharge:	
• Air Discharge Check Valve Kits	See DPL83477
• 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	15
• Air Circuit	16
• Electrical	17

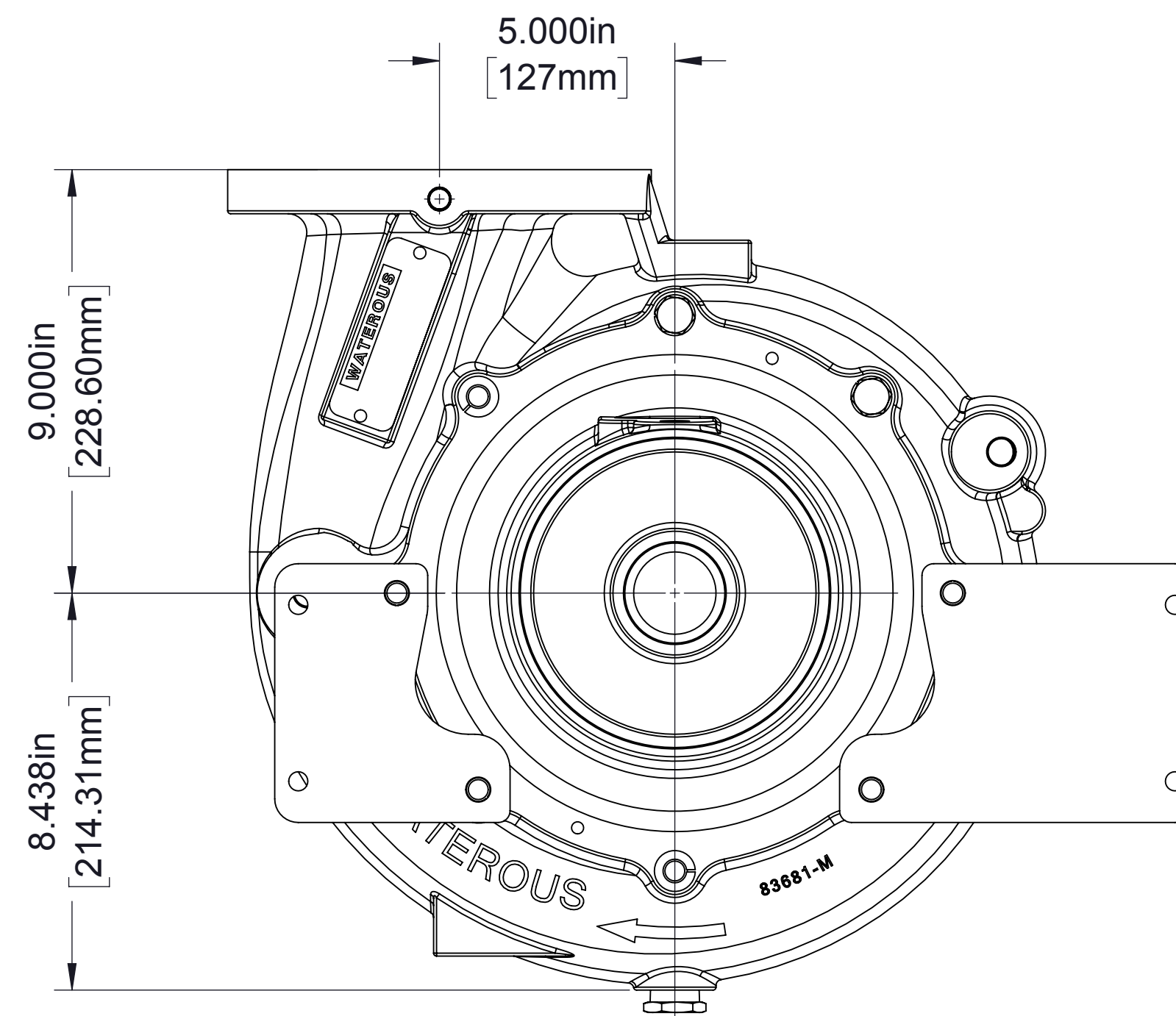
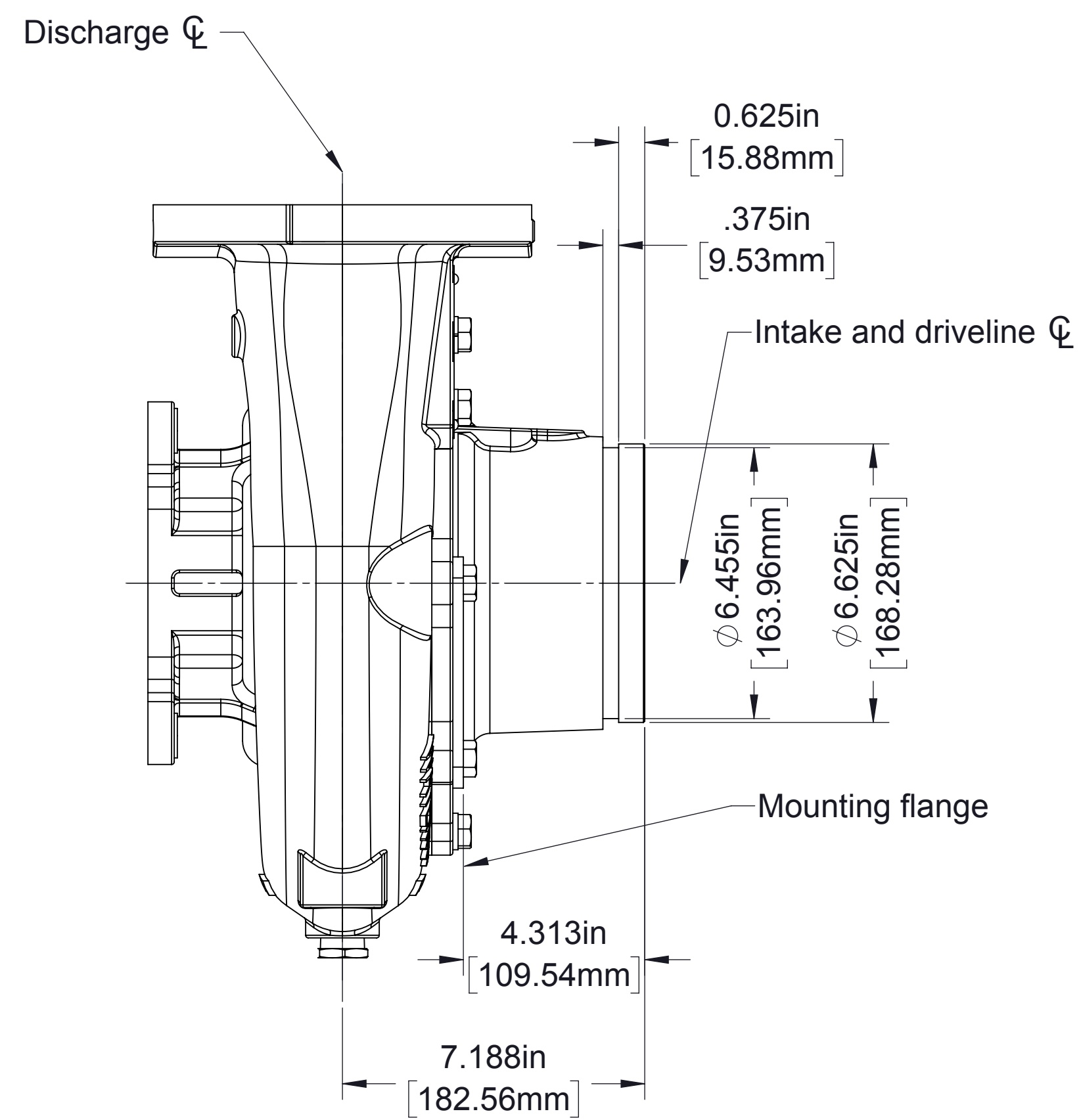


Compressor and Water Pump
(K Transmission)

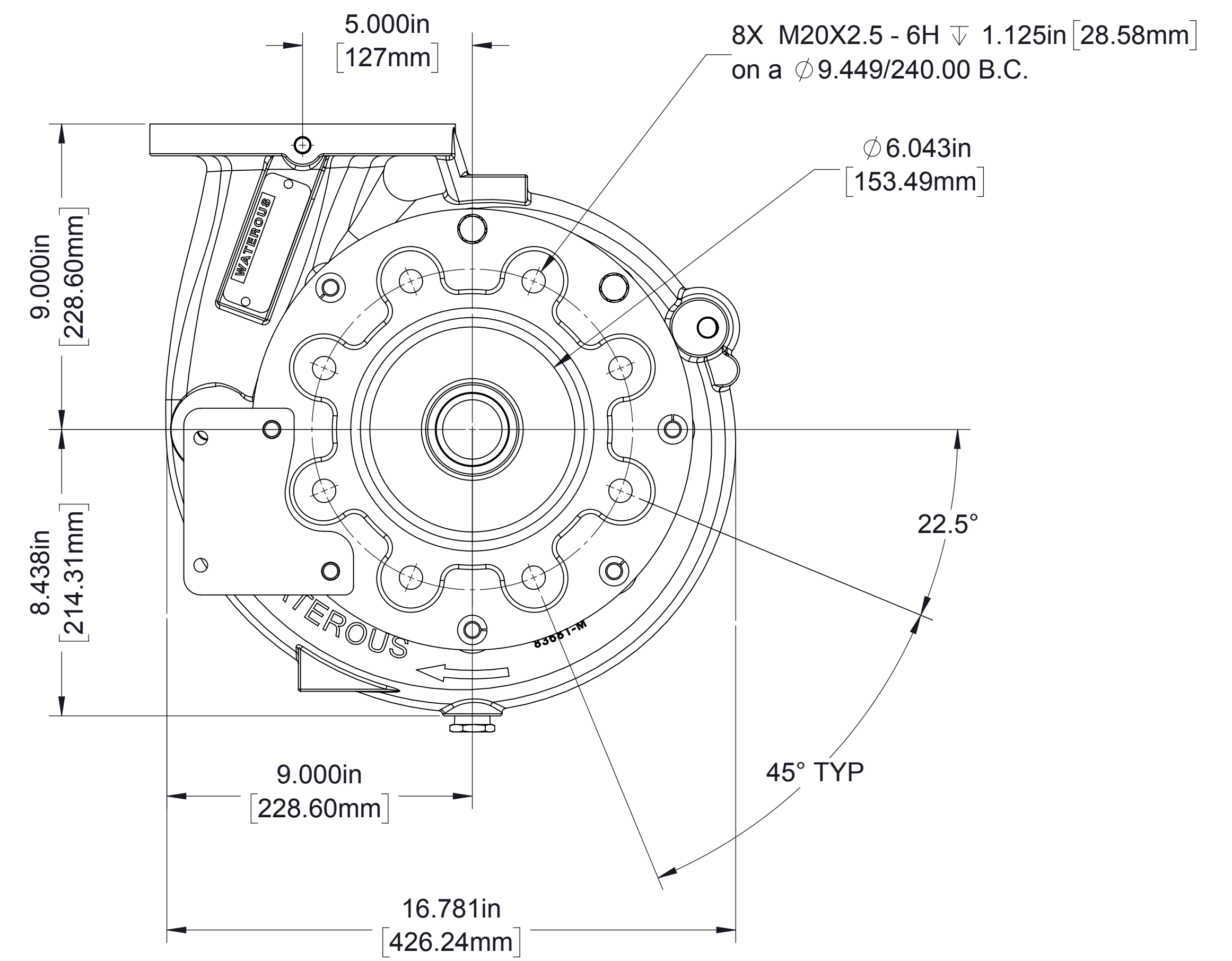
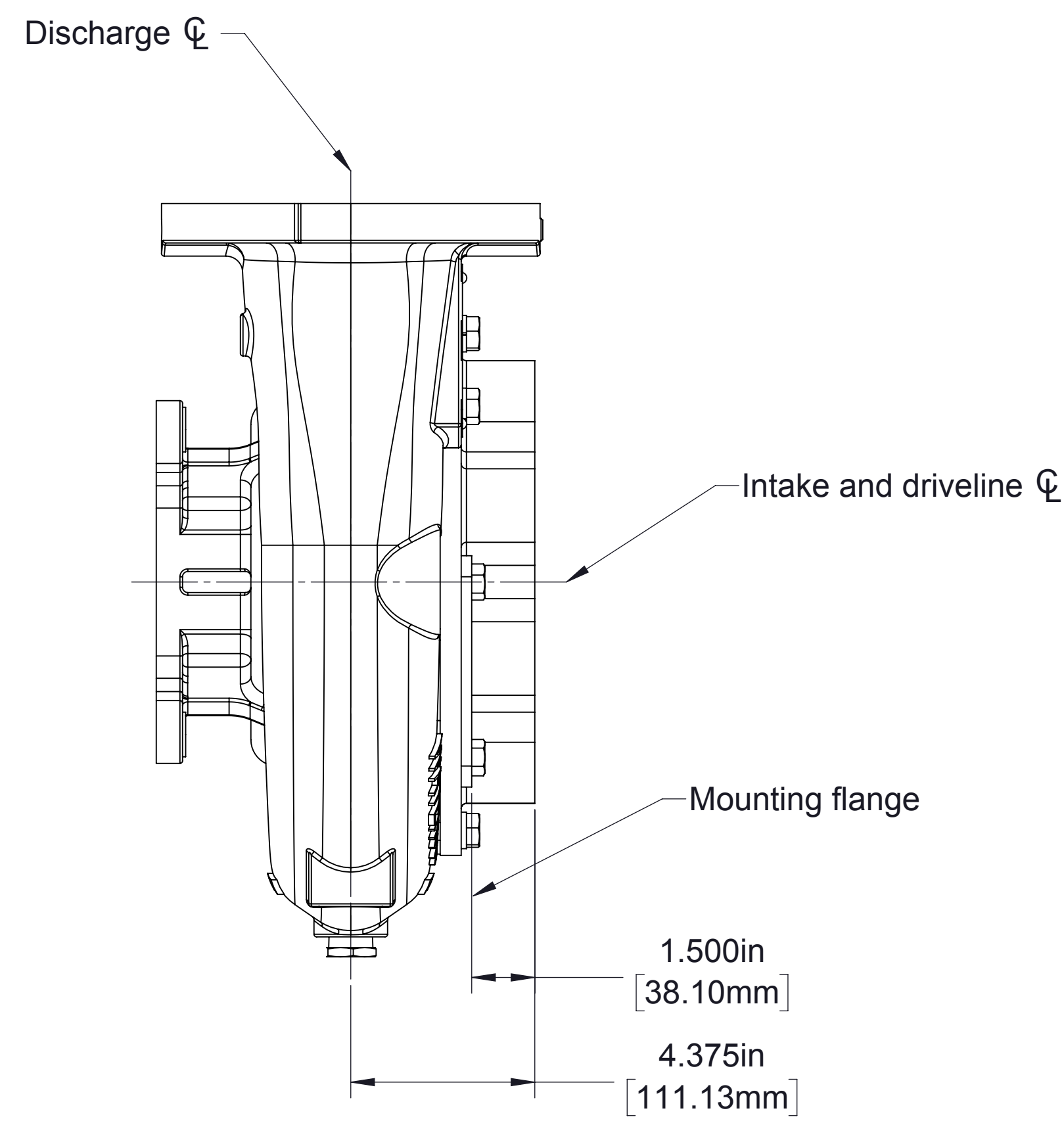
Ratio	A	B	C	D
1.70	11.288/286.71	10.943/277.94	6.111/155.22	4.737/120.32
1.90	11.269/286.24	10.924/277.47	6.130/155.70	4.755/120.79
2.10	11.239/285.46	10.894/276.70	6.160/156.46	4.786/121.56



Compressor and Water Pump
(PA Transmission)

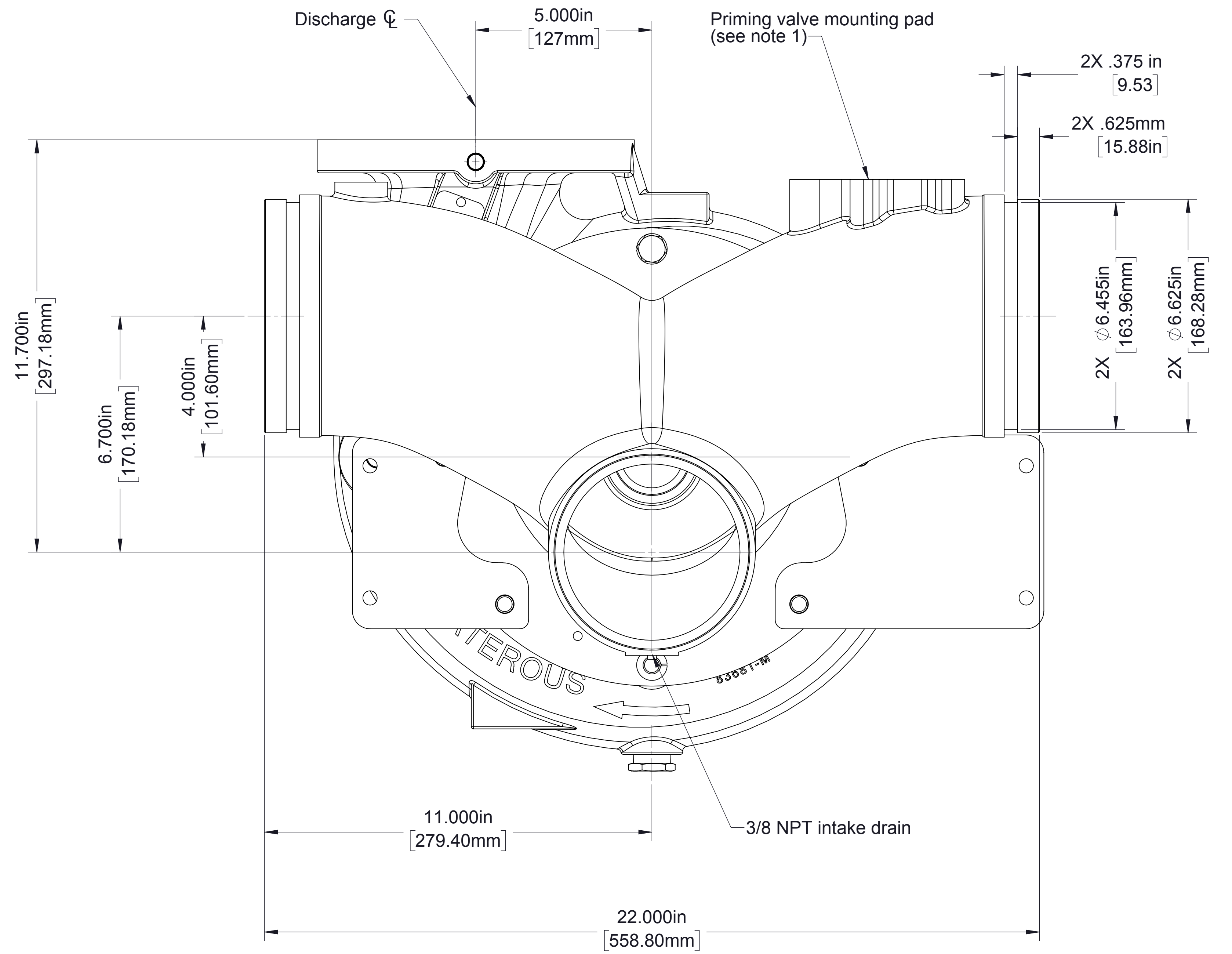
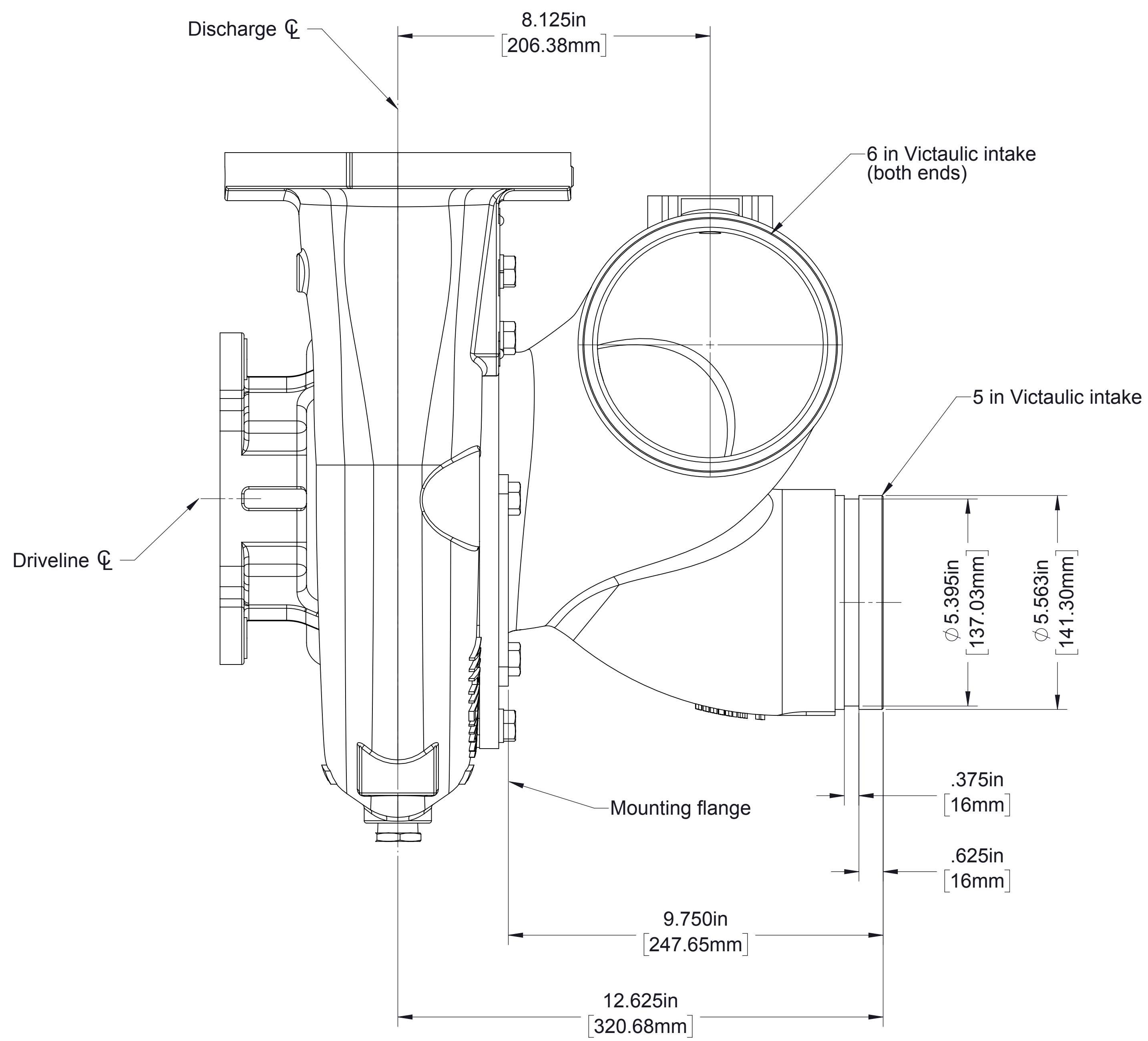


**Single Grooved Intake (6 in)
Pump model CXV**



**Flanged Intake (DIN 150)
(Pump model CXN)**

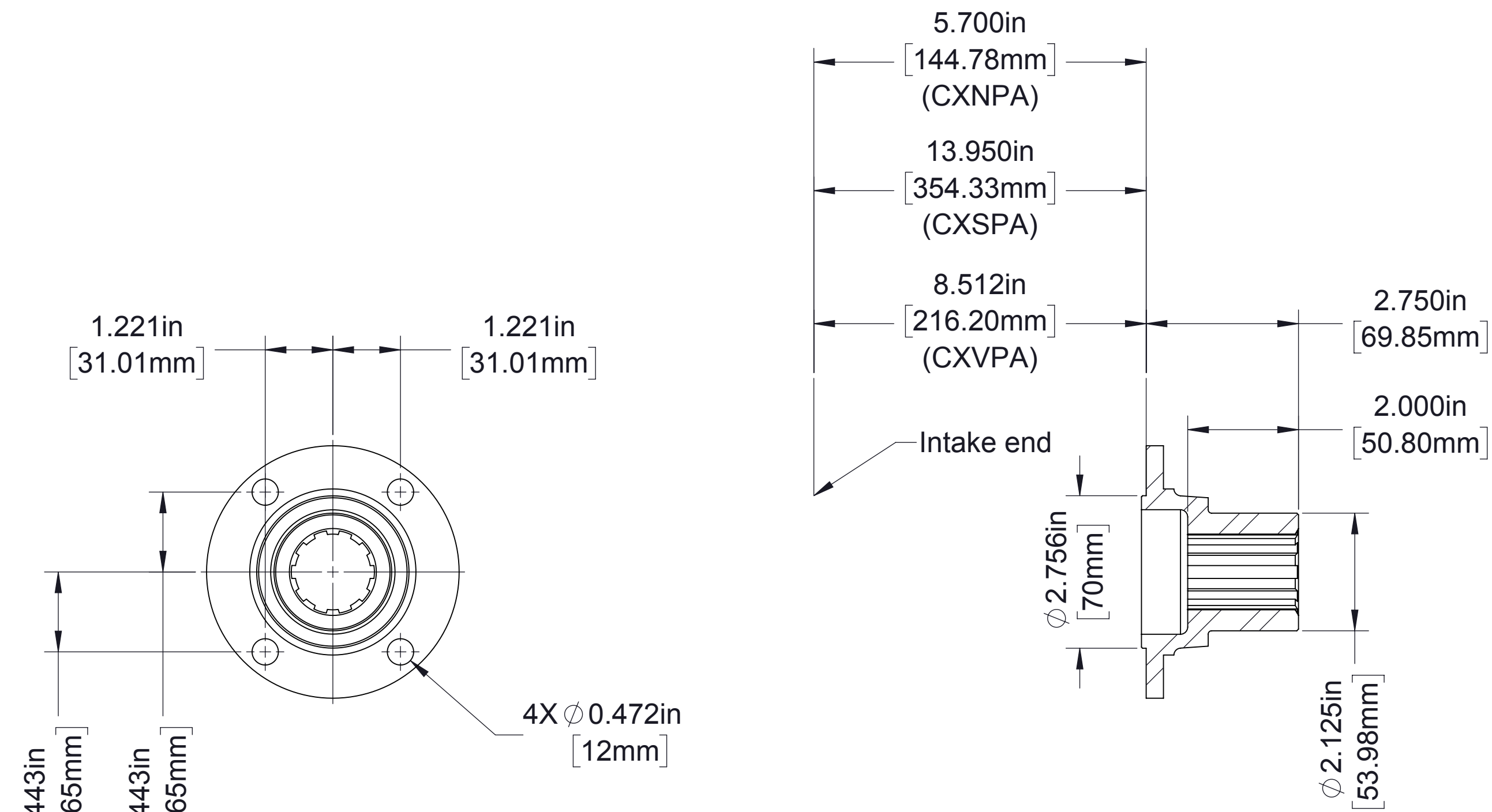
Available Pump Intake Connections



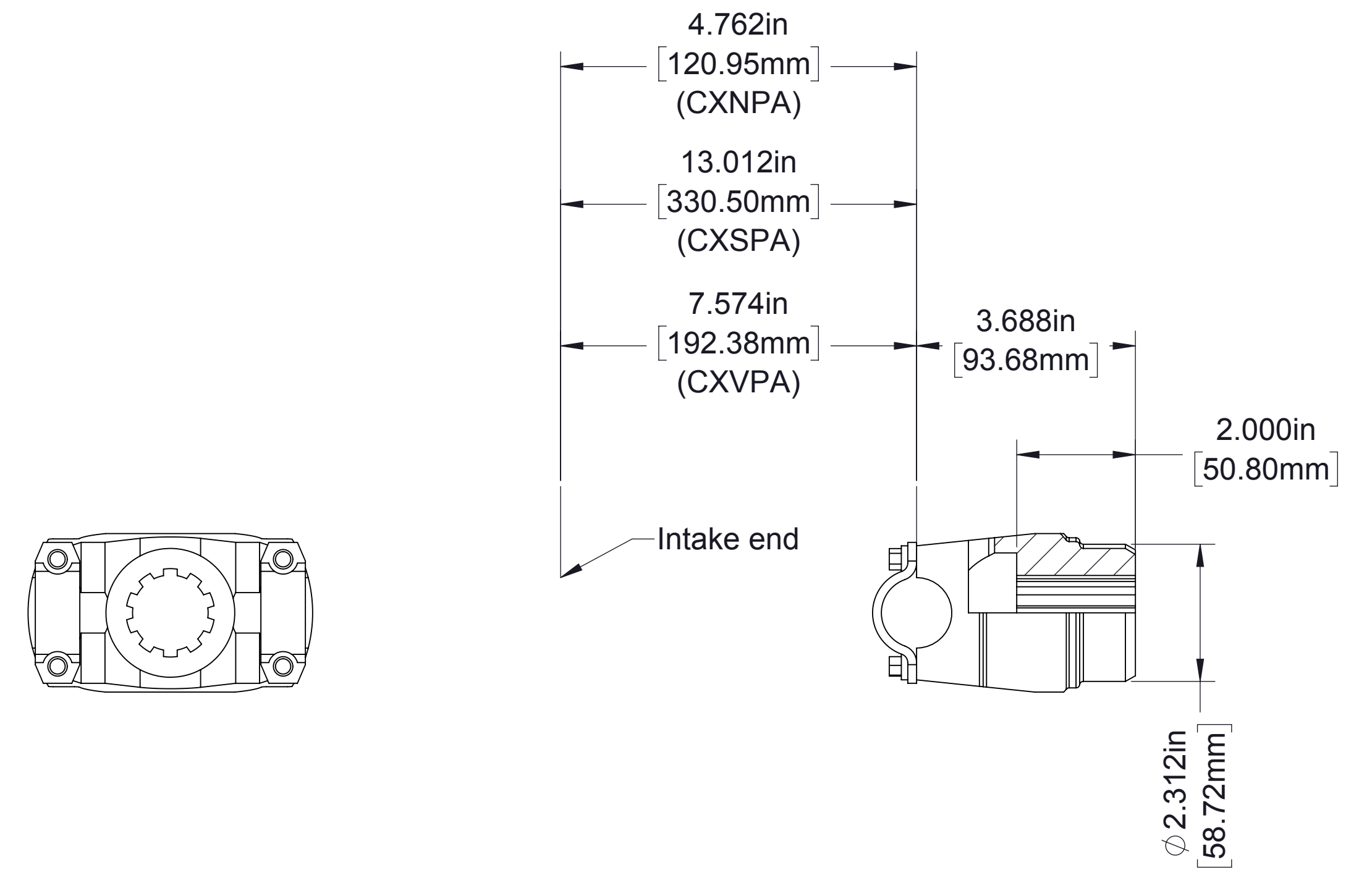
**Dual Grooved Intake (6 in)
Pump model CXS**

- Notes:
1. See drawing DPL82908 for priming valve details.
 2. Pump mounted relief valve not available.

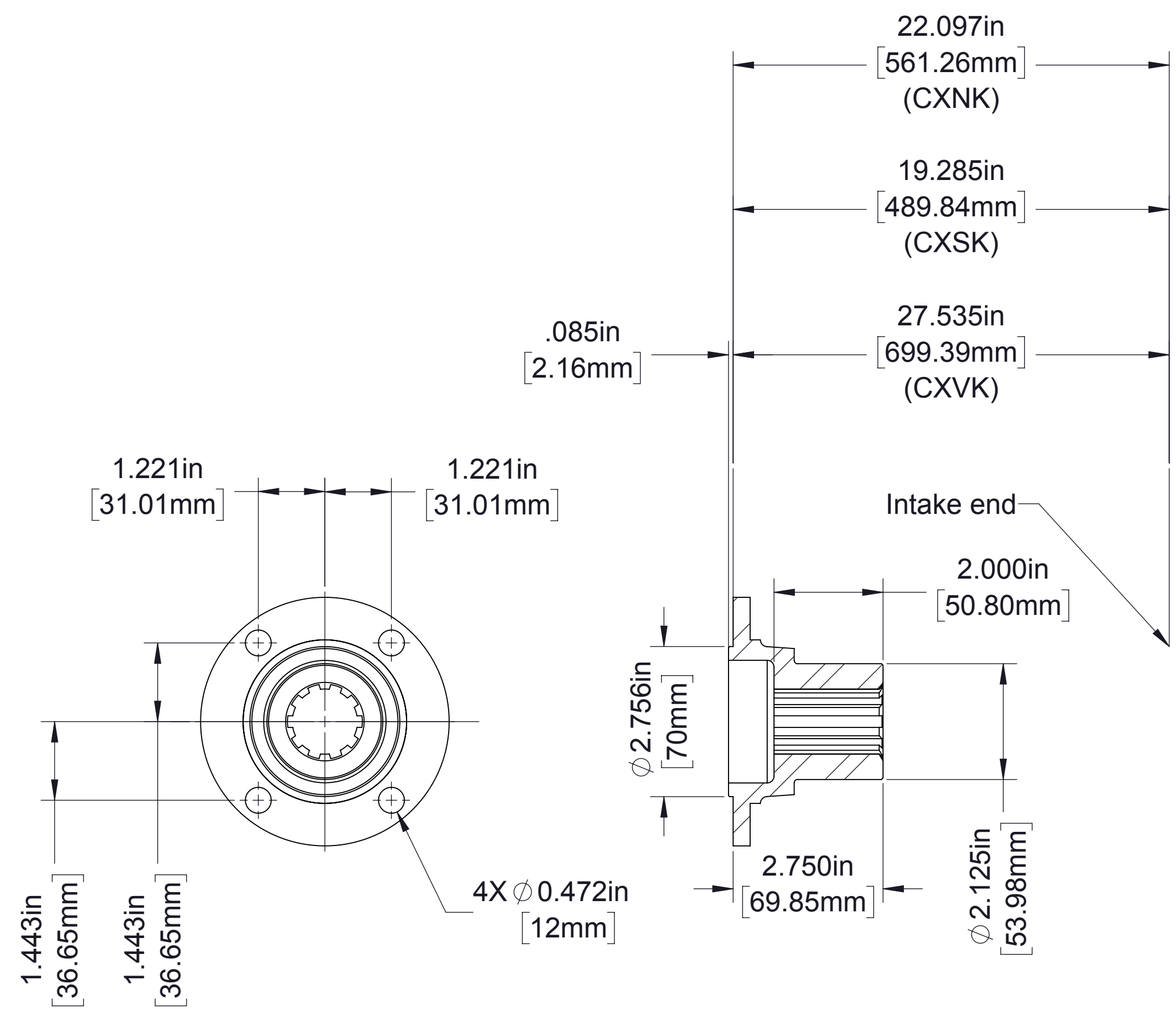
Available Pump Intake Connections



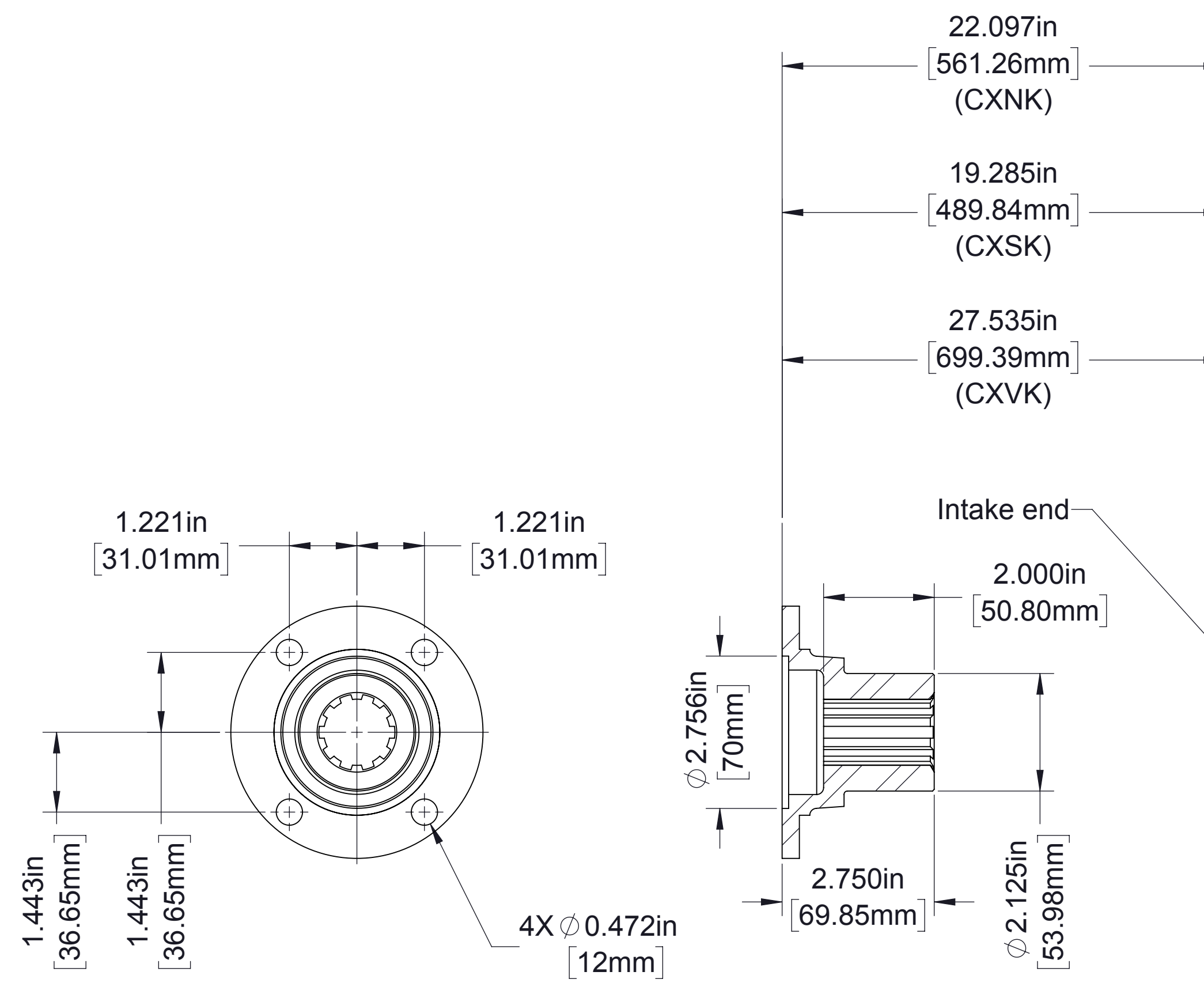
70 mm Male Pilot, part number 73330,
with 1-1/2-10 spline for PA series transmission



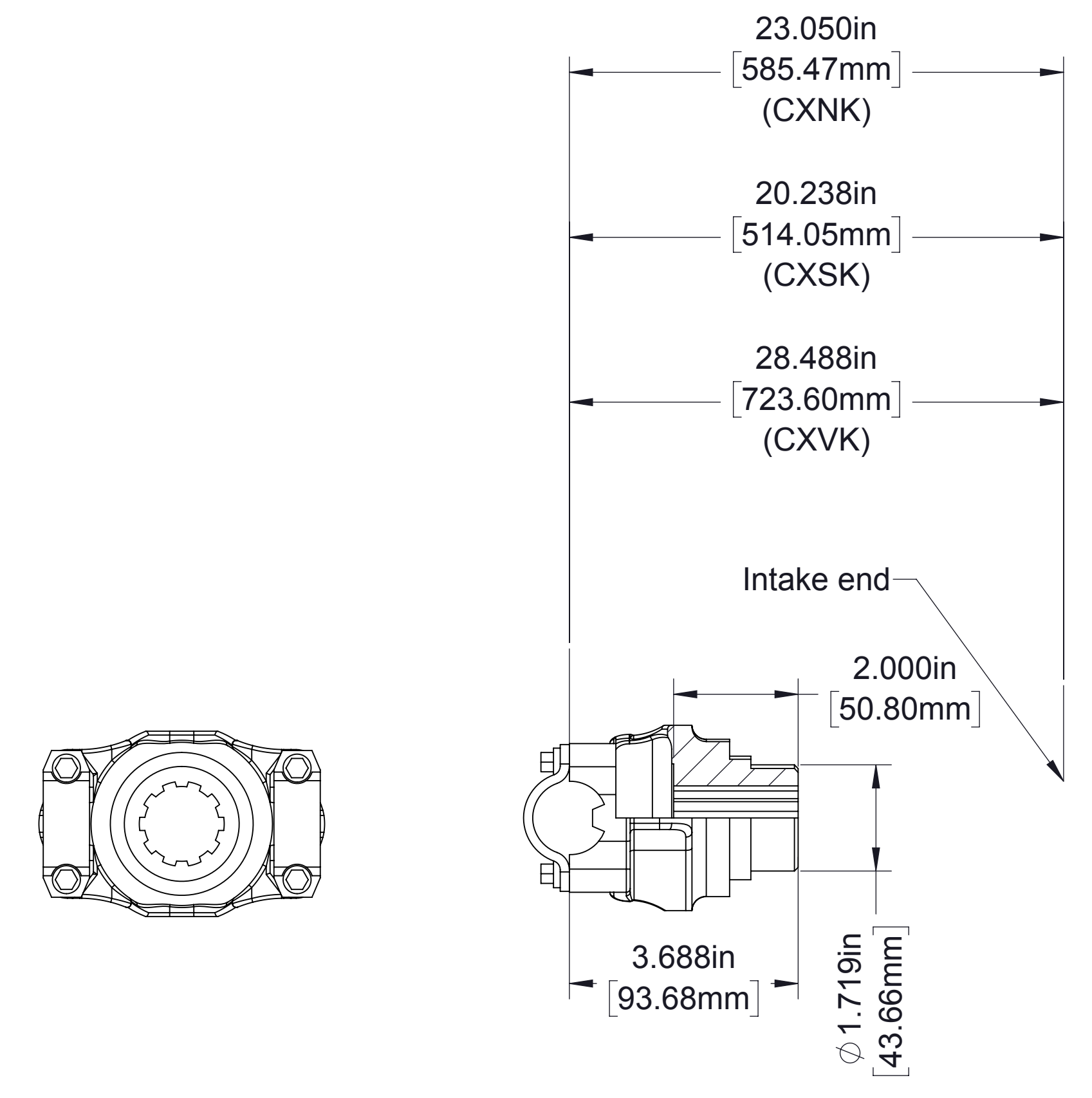
1410 Series, part number V 2861,
with 1-1/2-10 spline for PA series transmission



70 mm Male Pilot, part number 73276,
with 1-3/8-10 spline for K series transmission

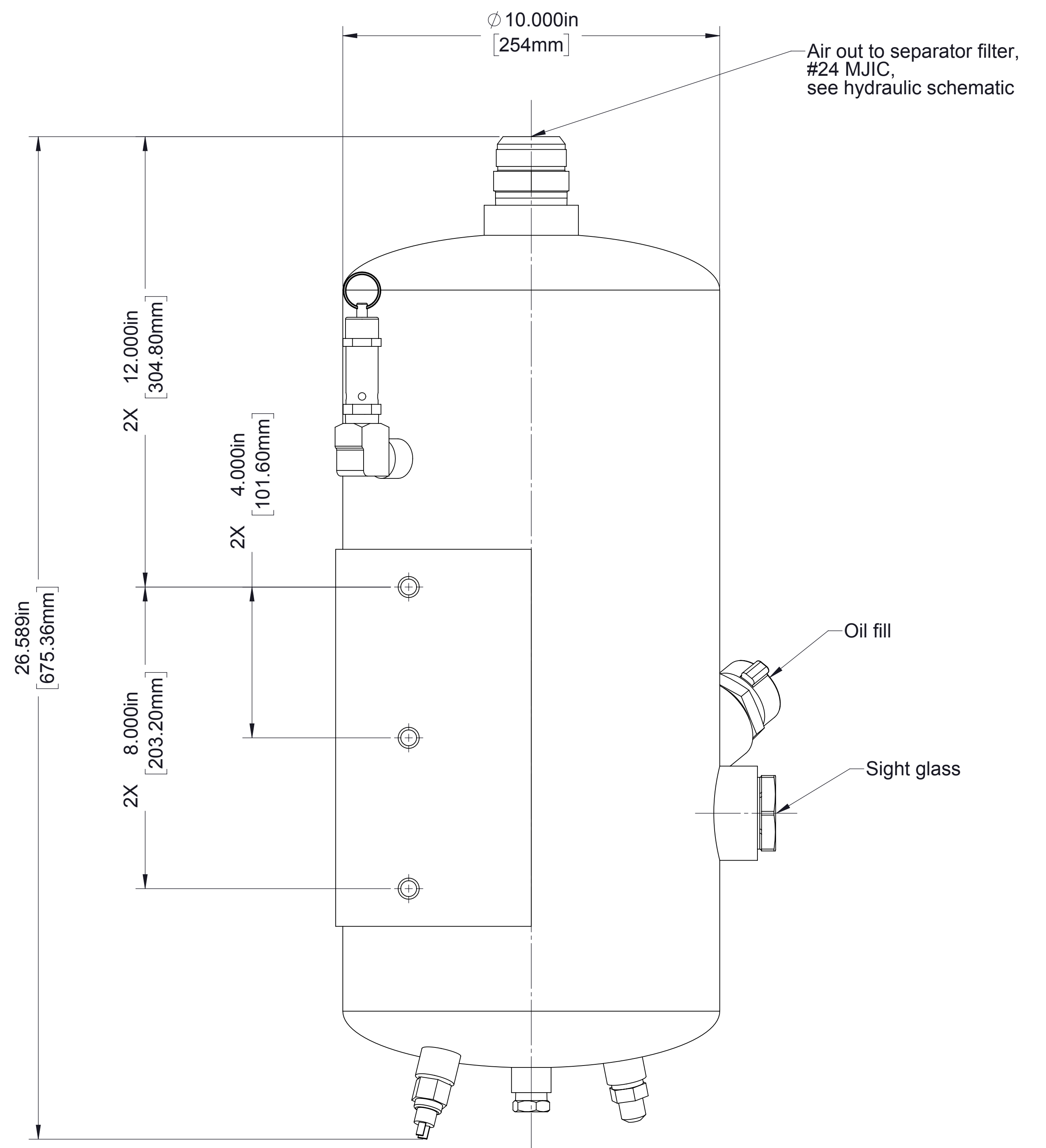
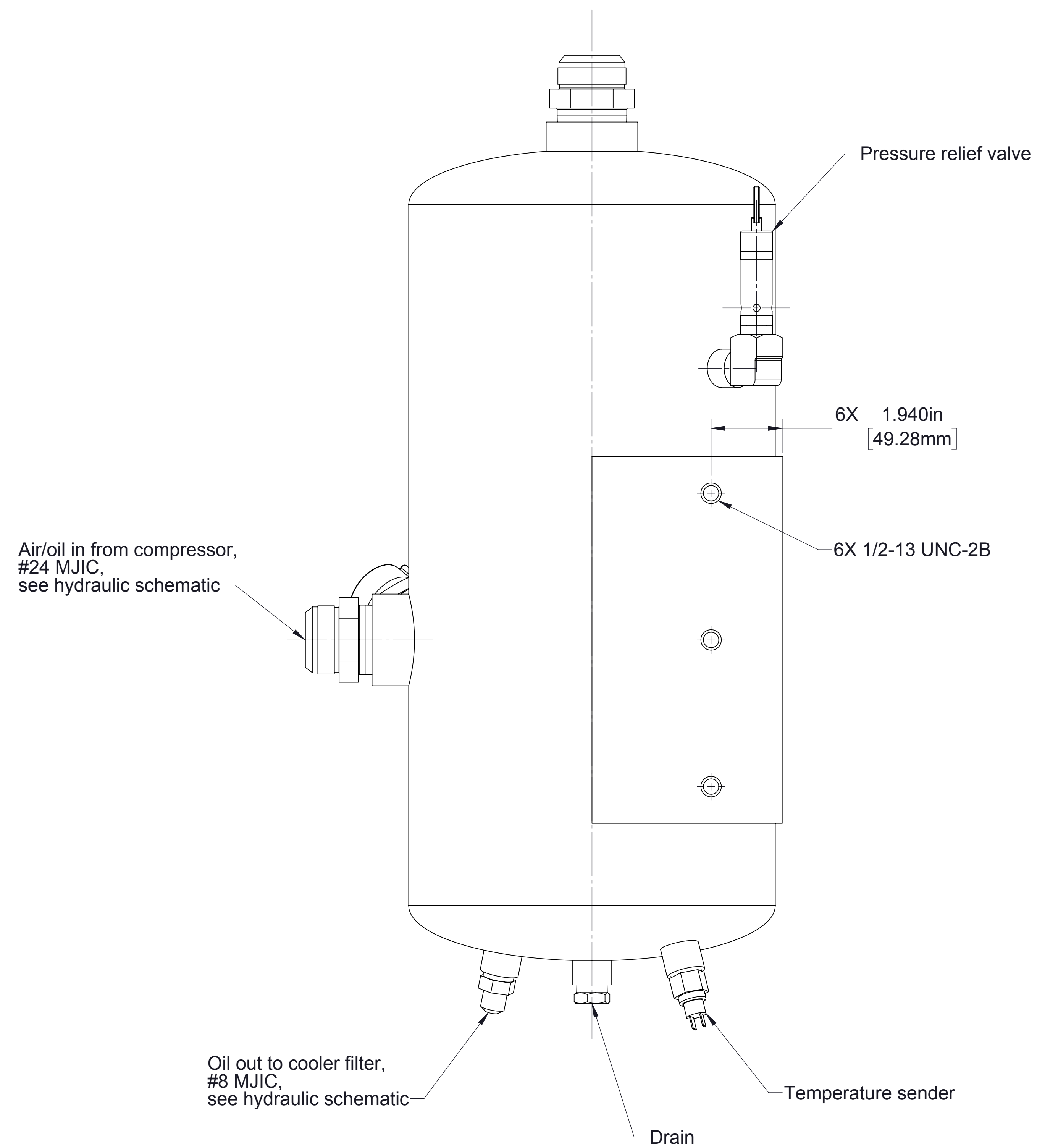
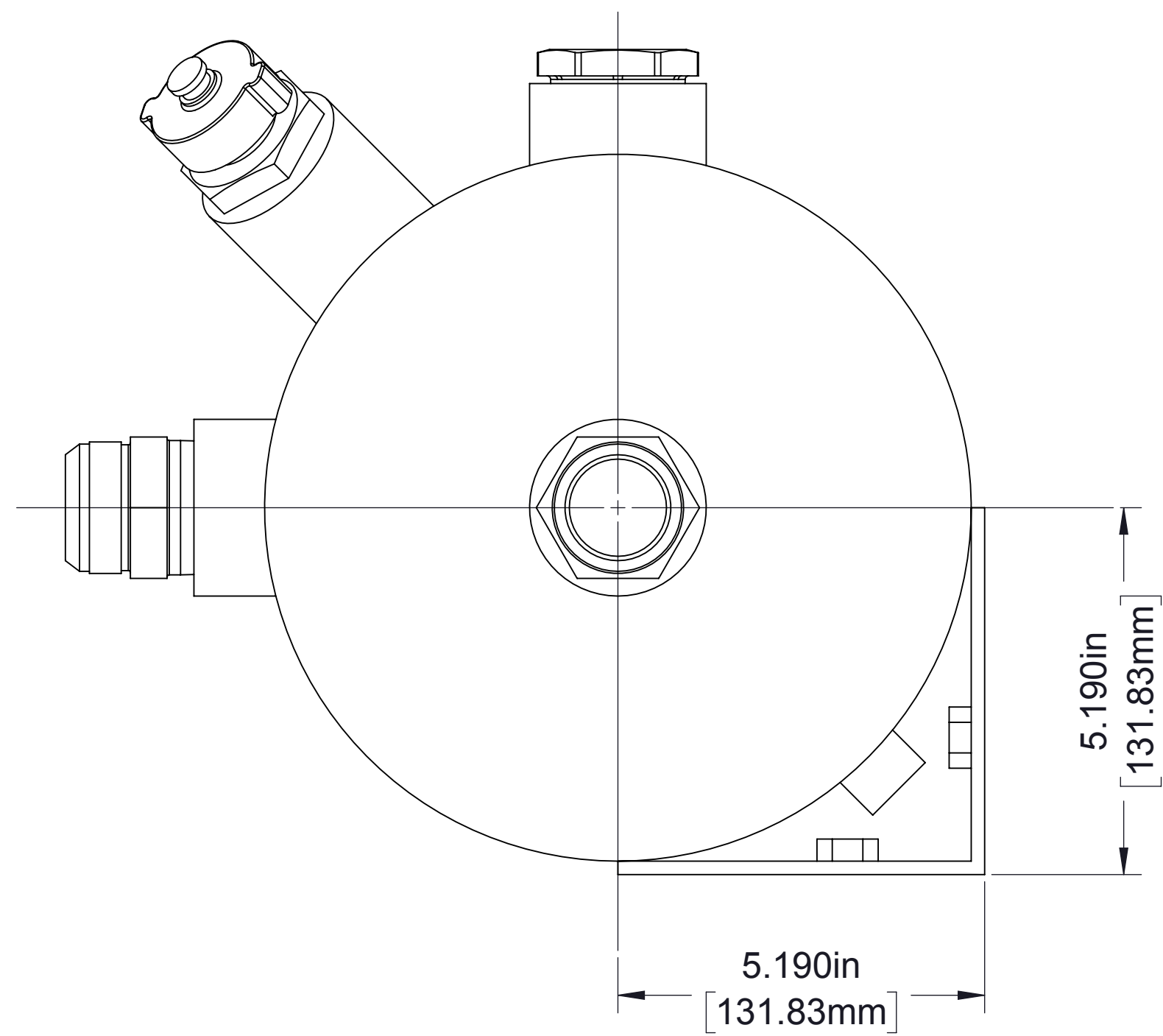


70 mm Female Pilot, part number 73377,
with 1-3/8-10 spline for K series transmission

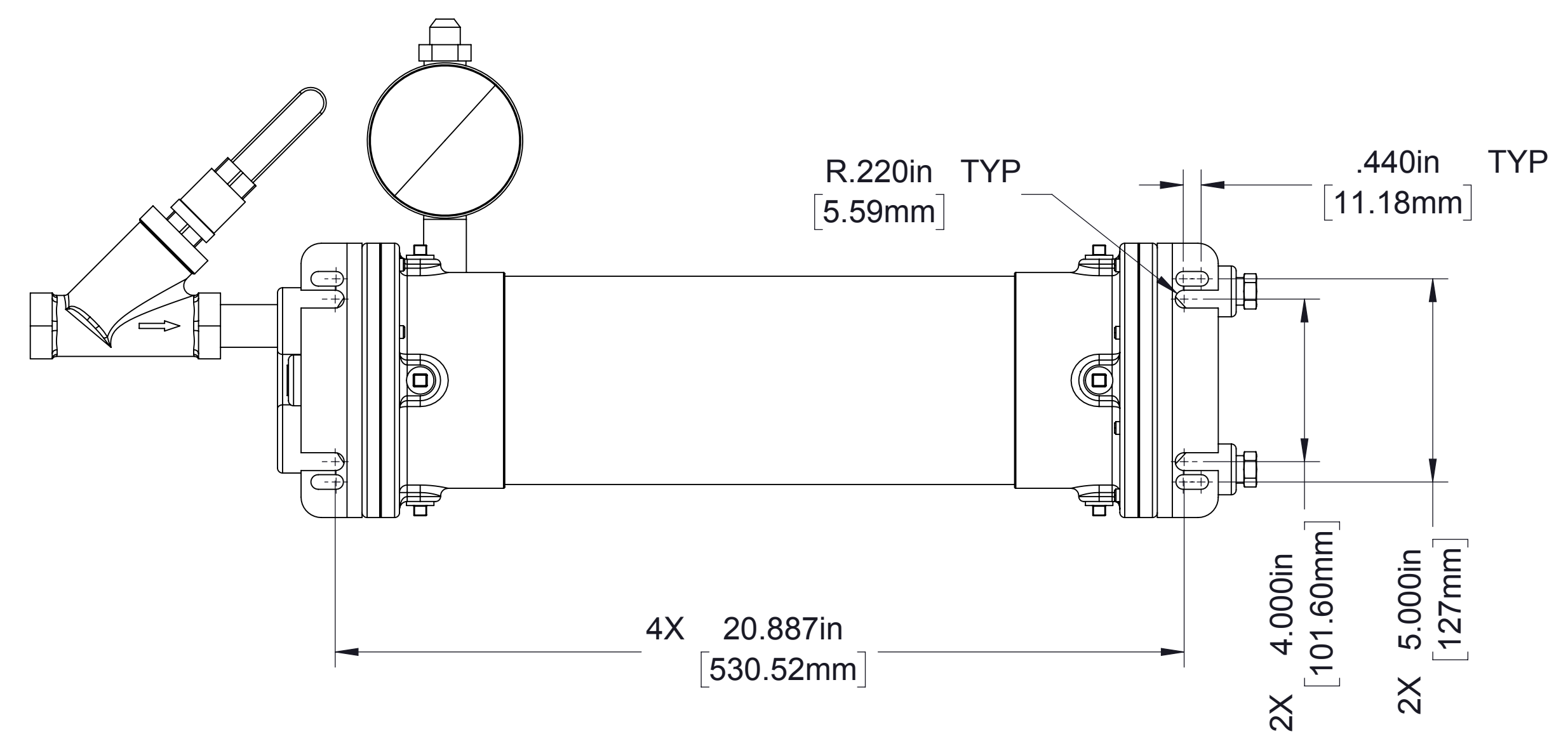
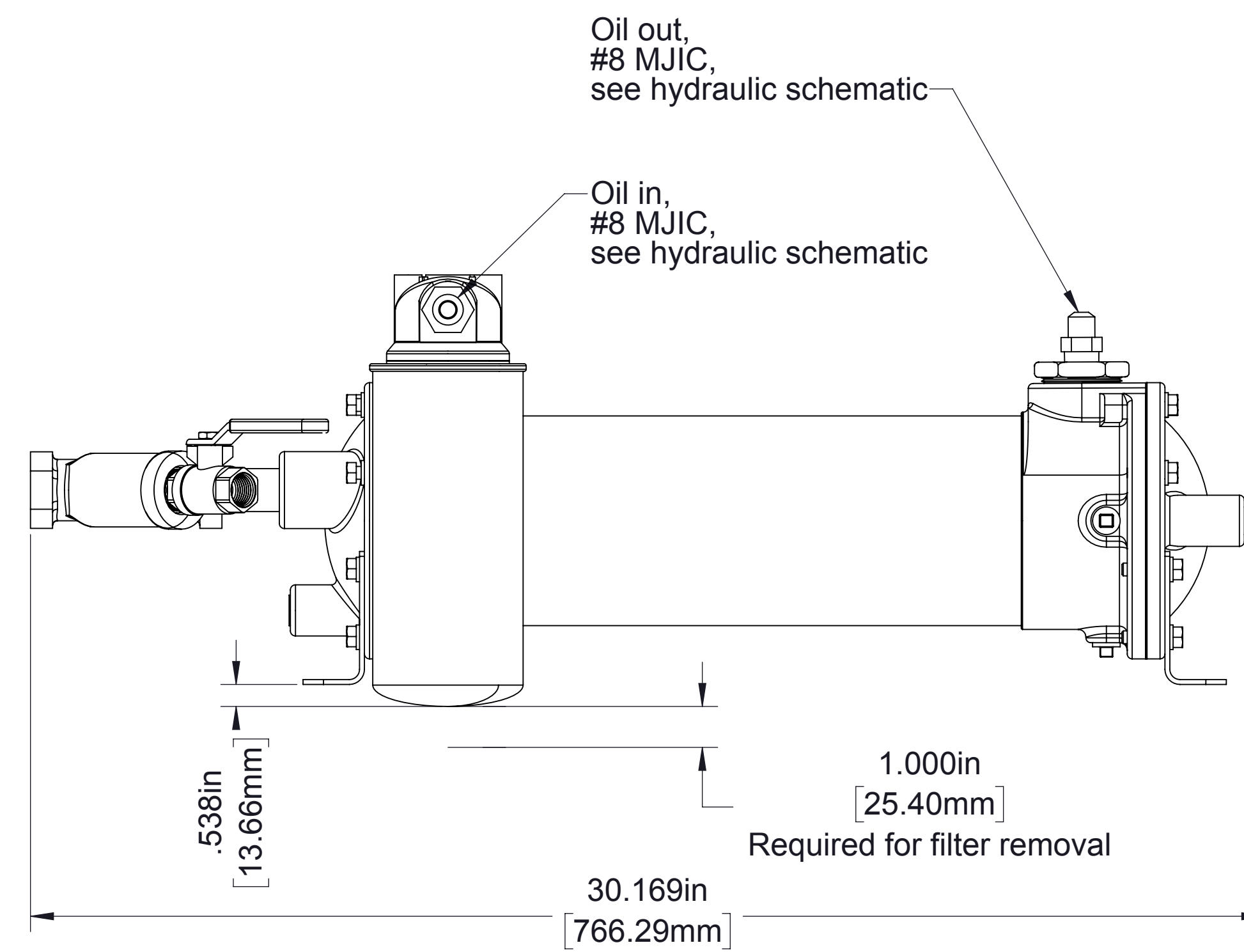
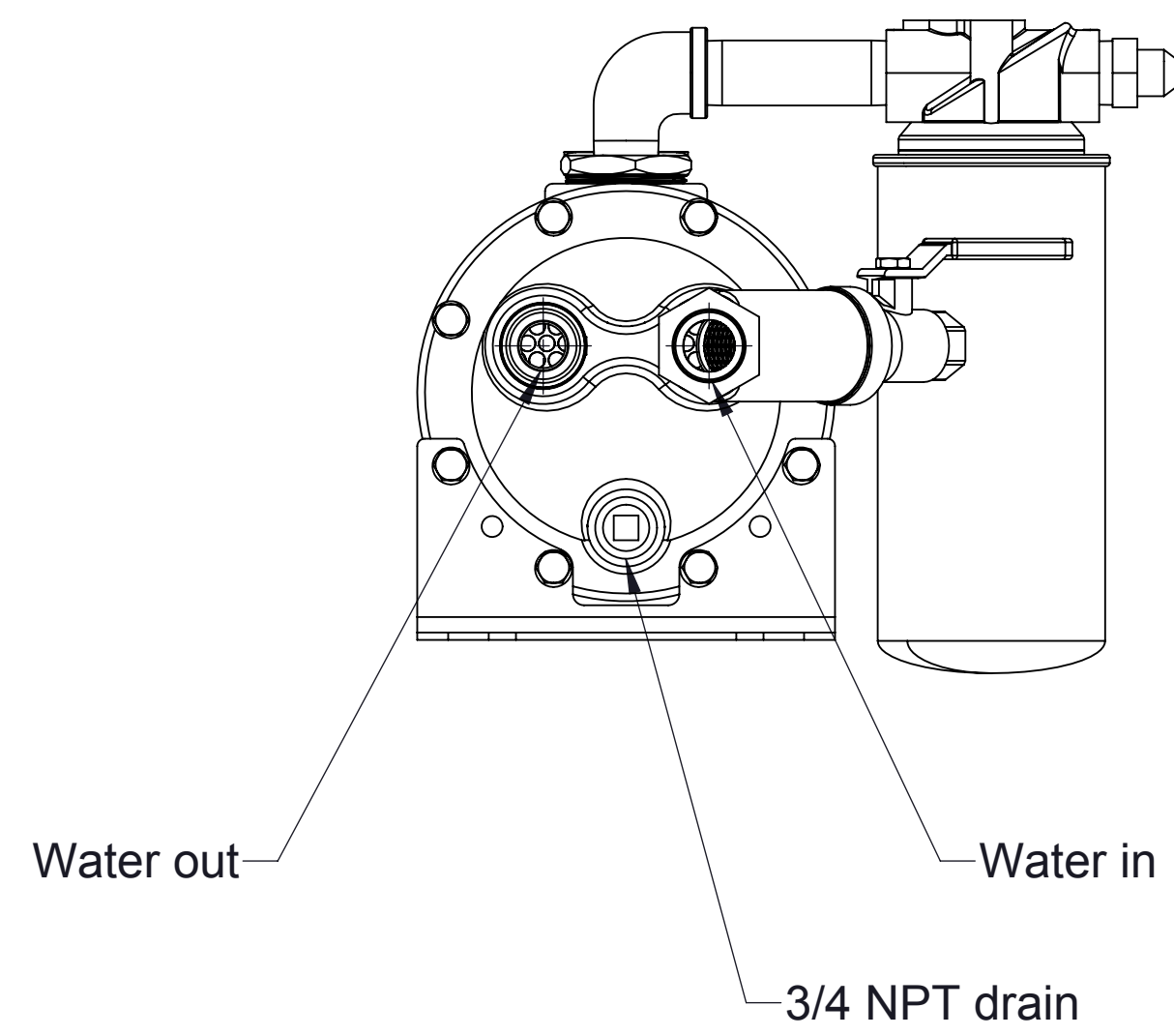
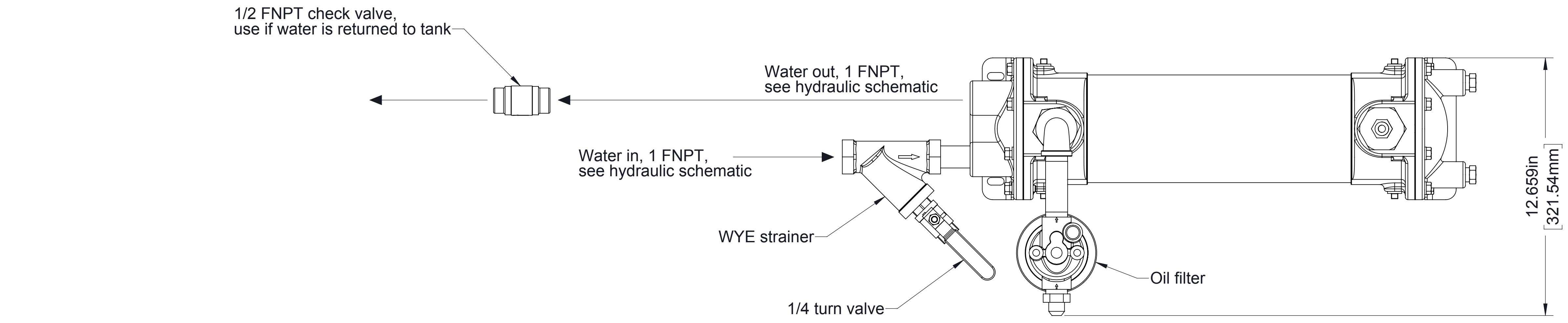


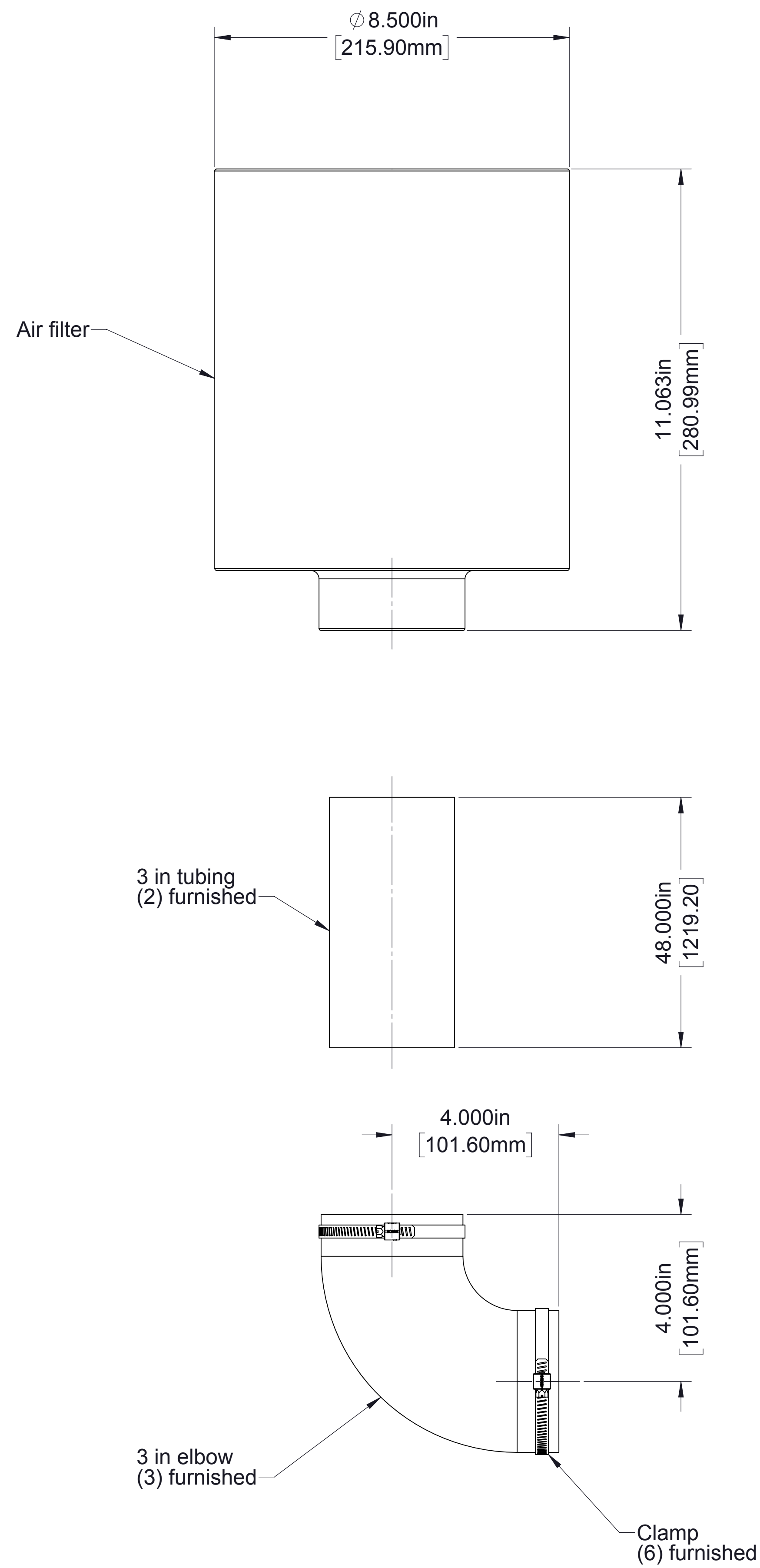
1410 Series, part number V 2591,
with 1-3/8-10 spline for K series transmission

Available End Yokes and Companion Flanges

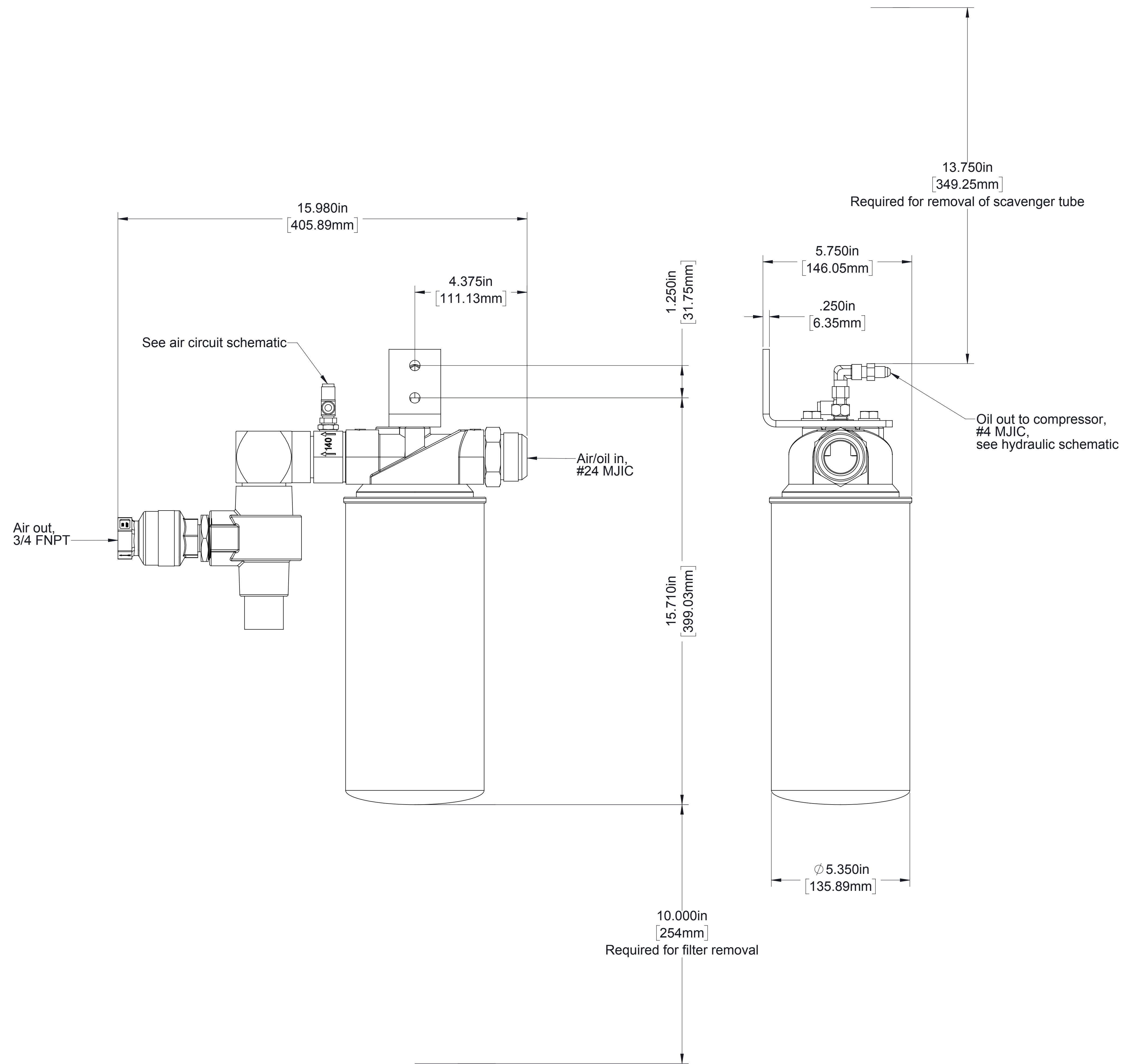


Sump (Oil Reservoir)

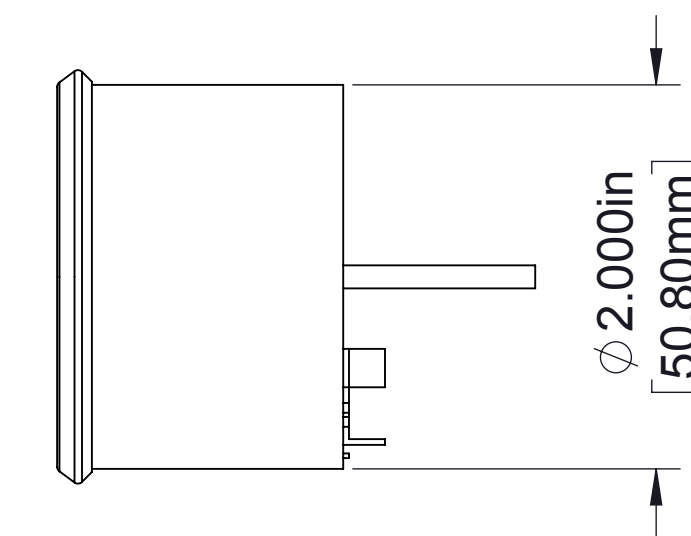
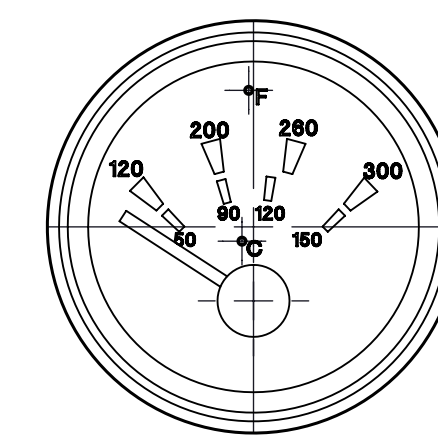
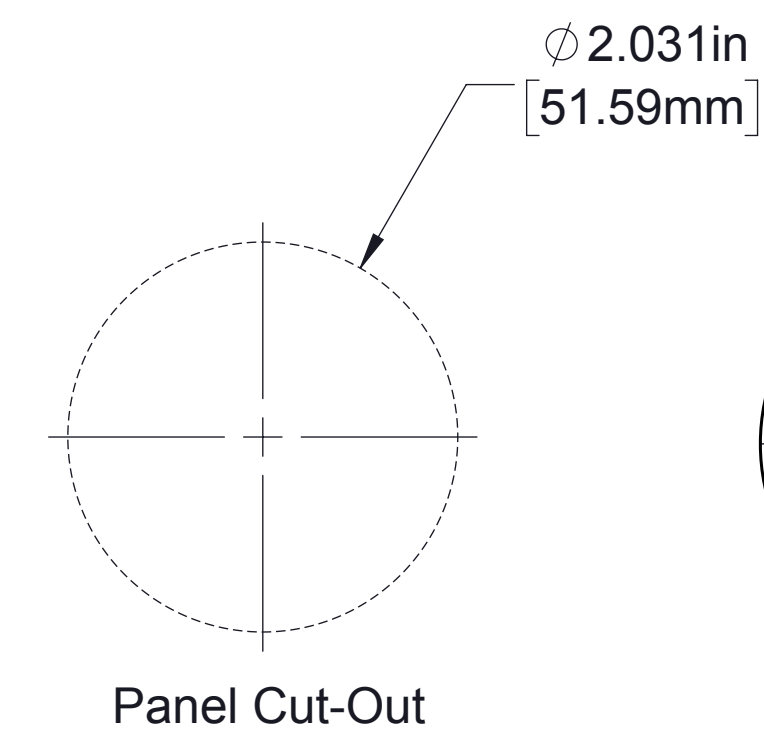
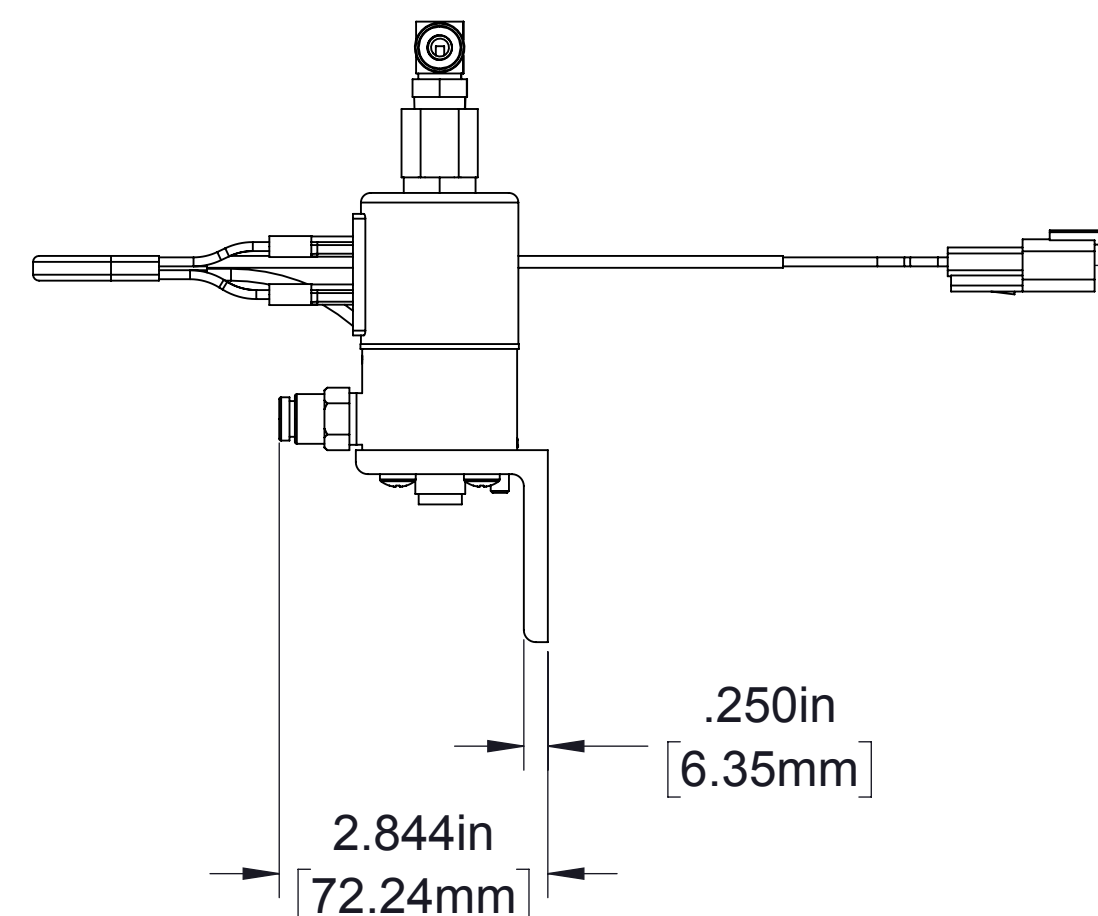
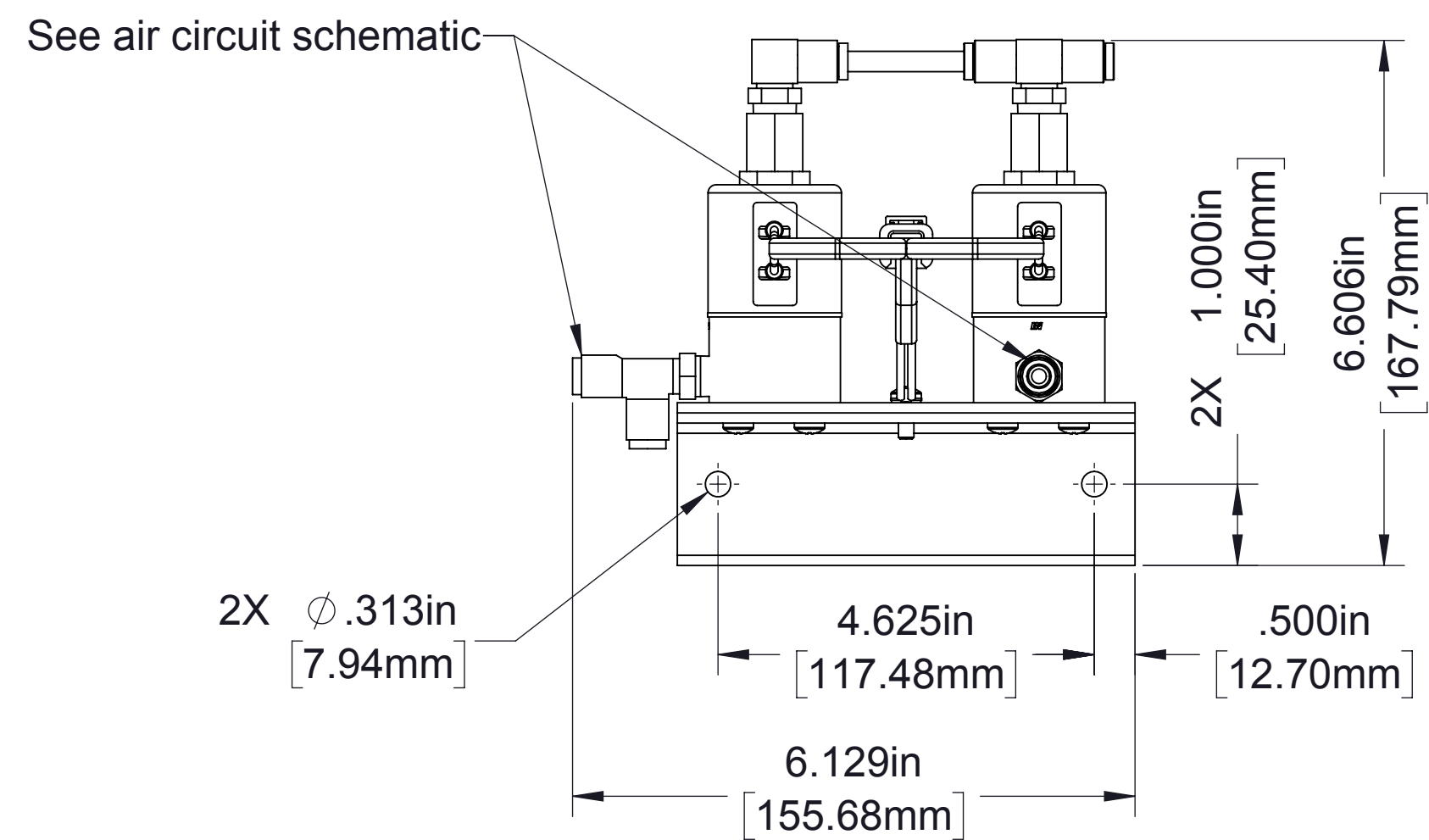




Air Filter



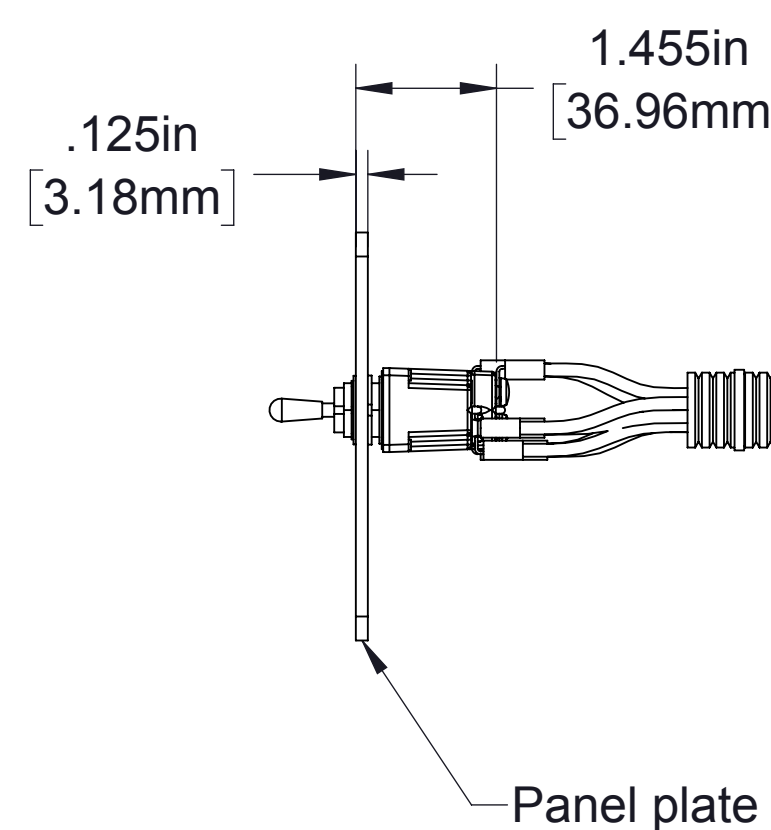
Separator Filter



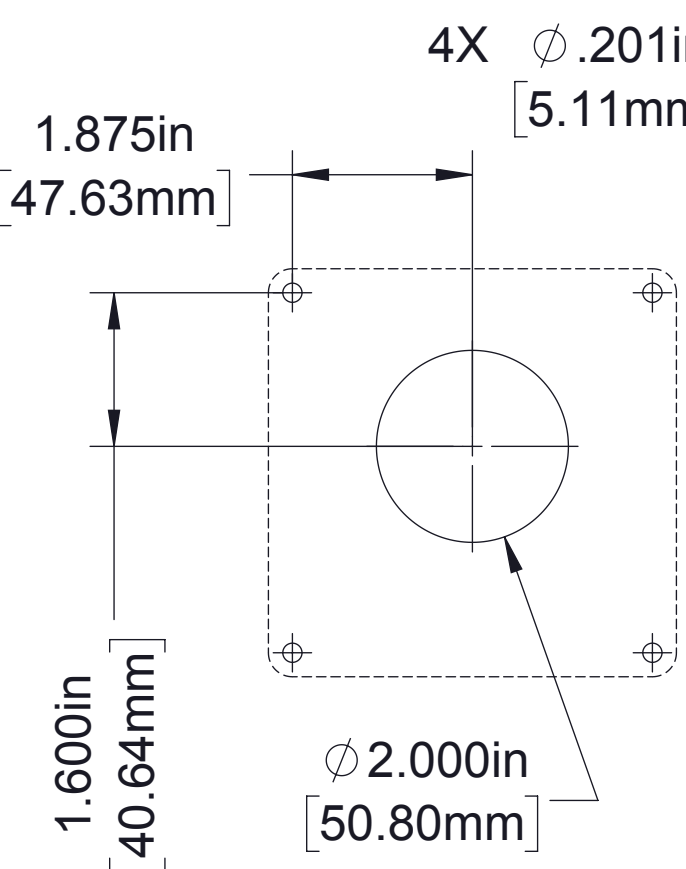
Oil Temperature Gauge
(Wiring to sump temperature sender not furnished by Waterous)

15 foot cable

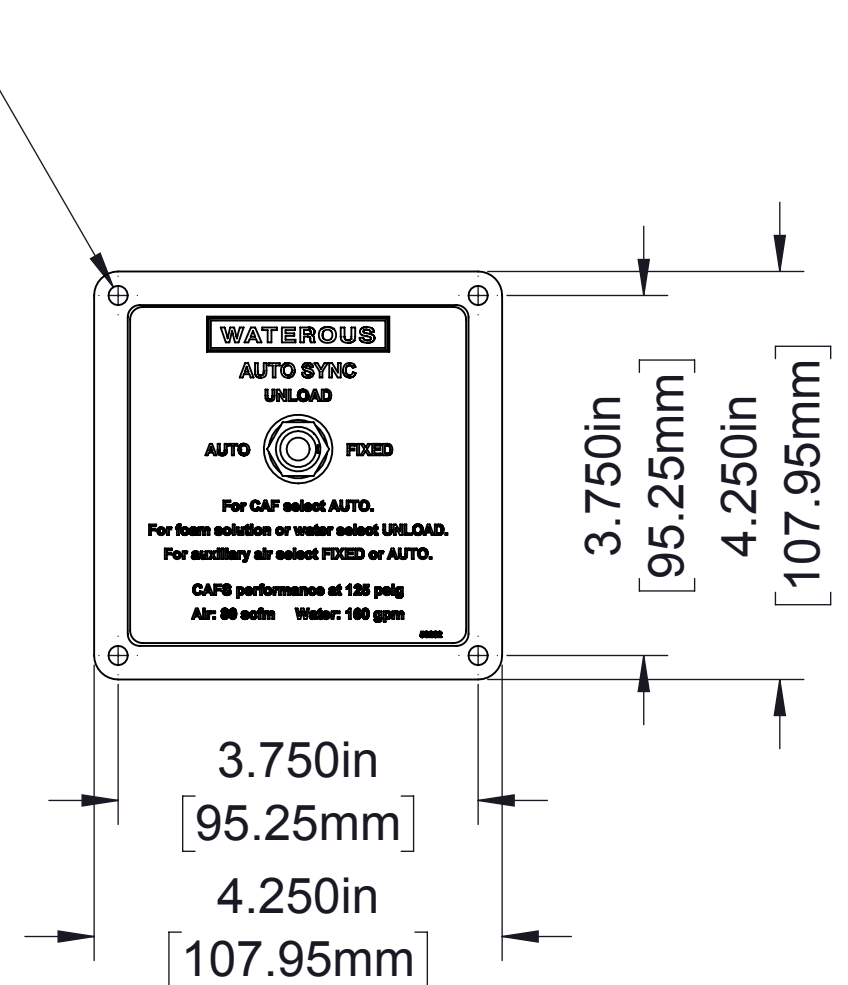
Connect to CAFS compressor engage circuit, 12 or 24V



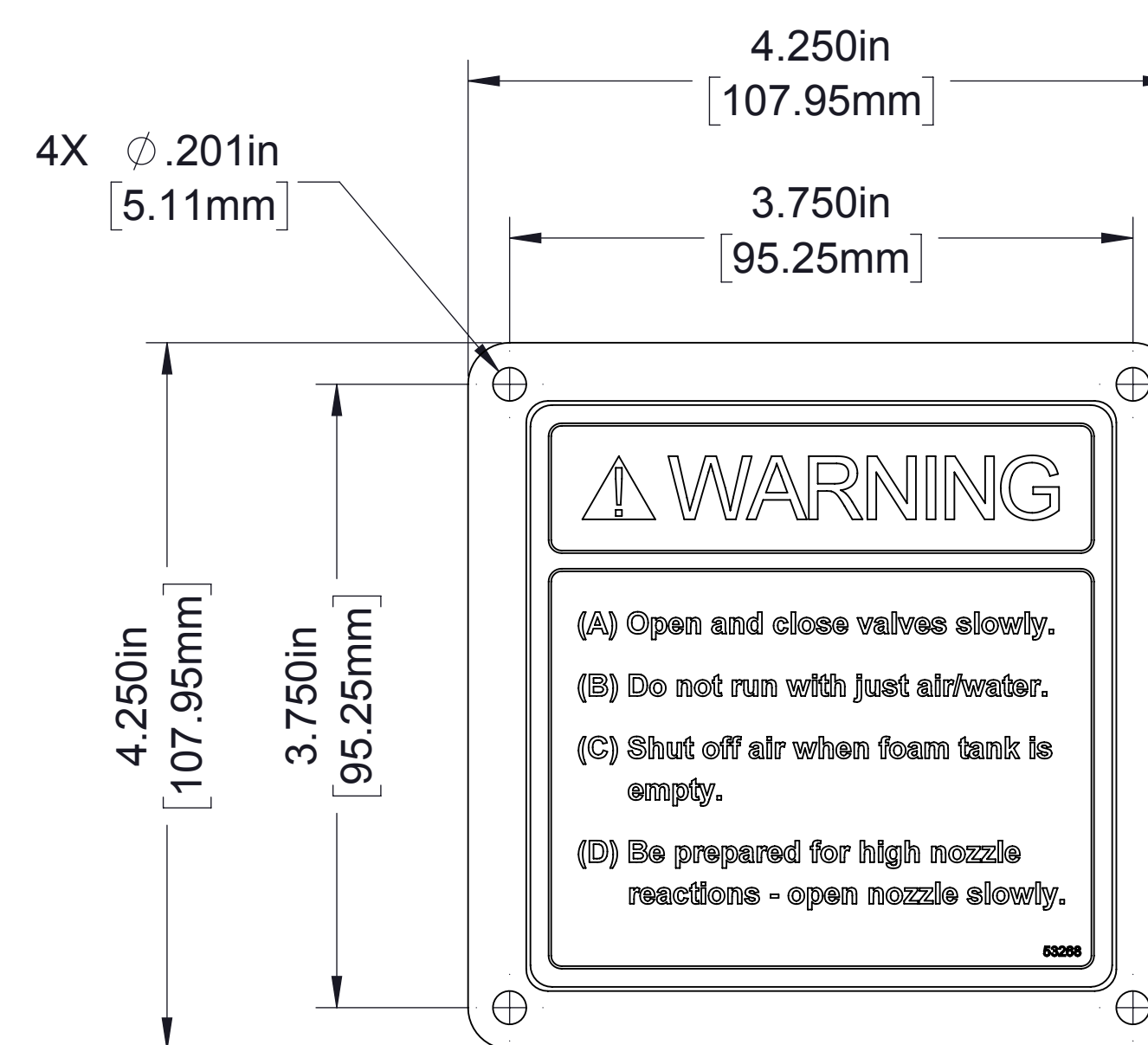
Panel plate



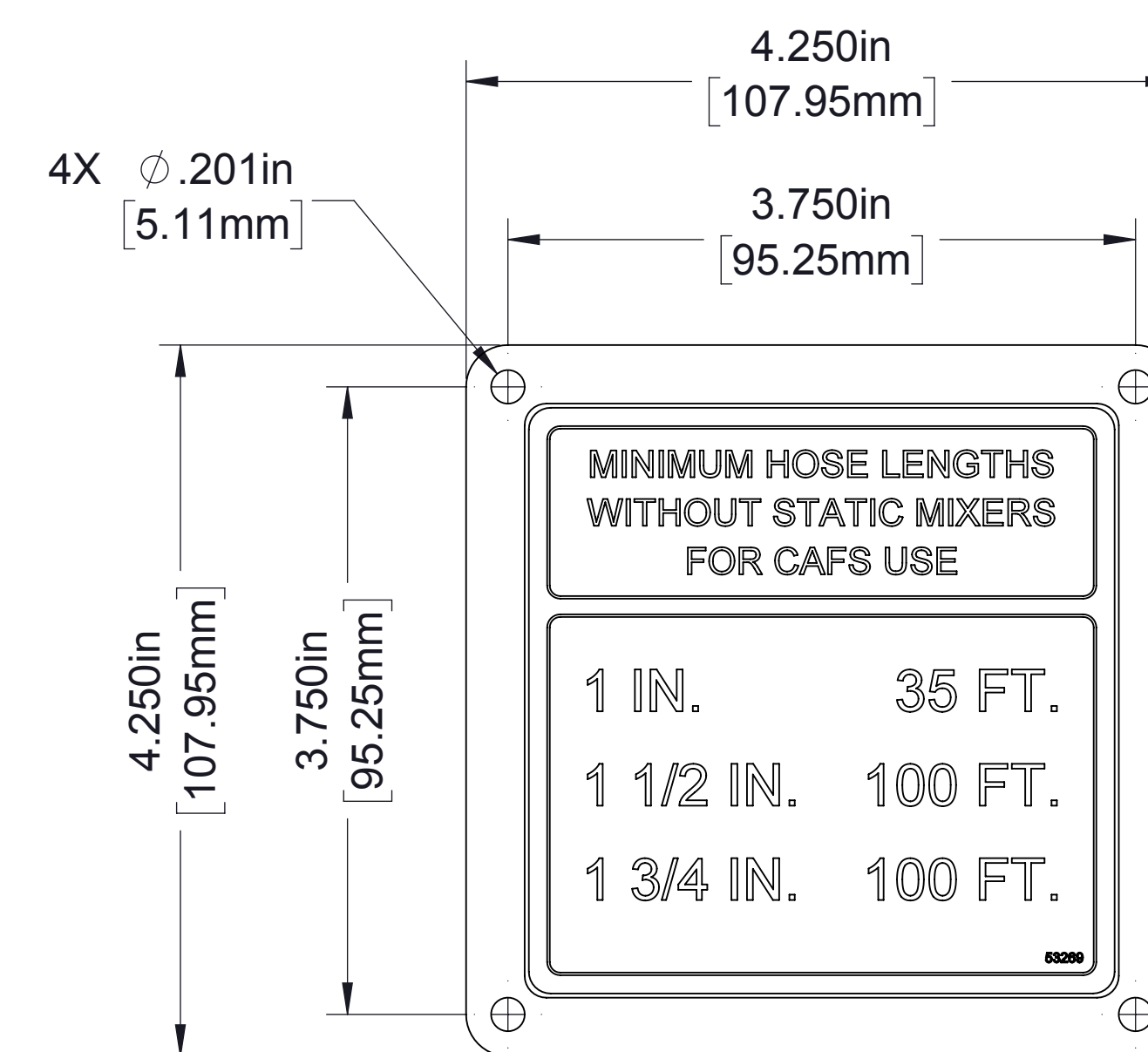
Panel Cut-Out



Auto-Sync



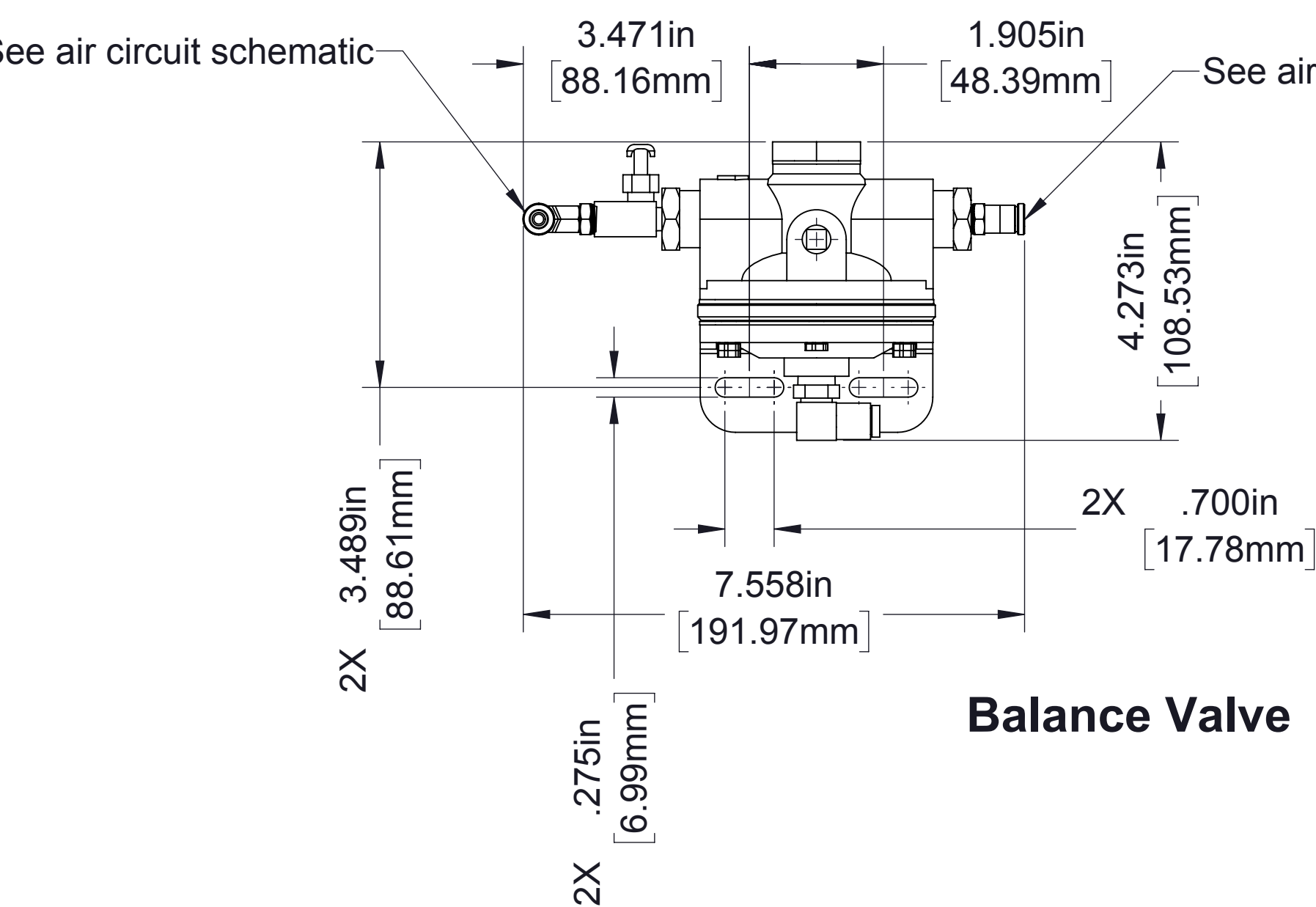
CAFS Warning



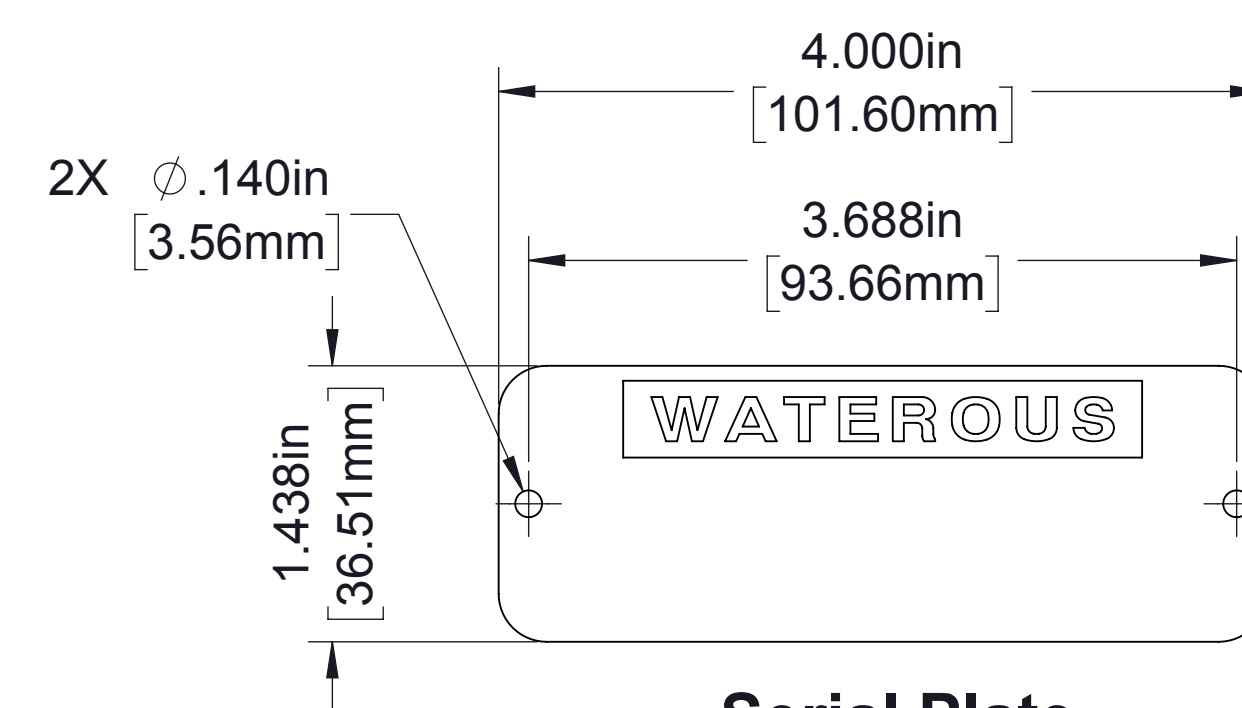
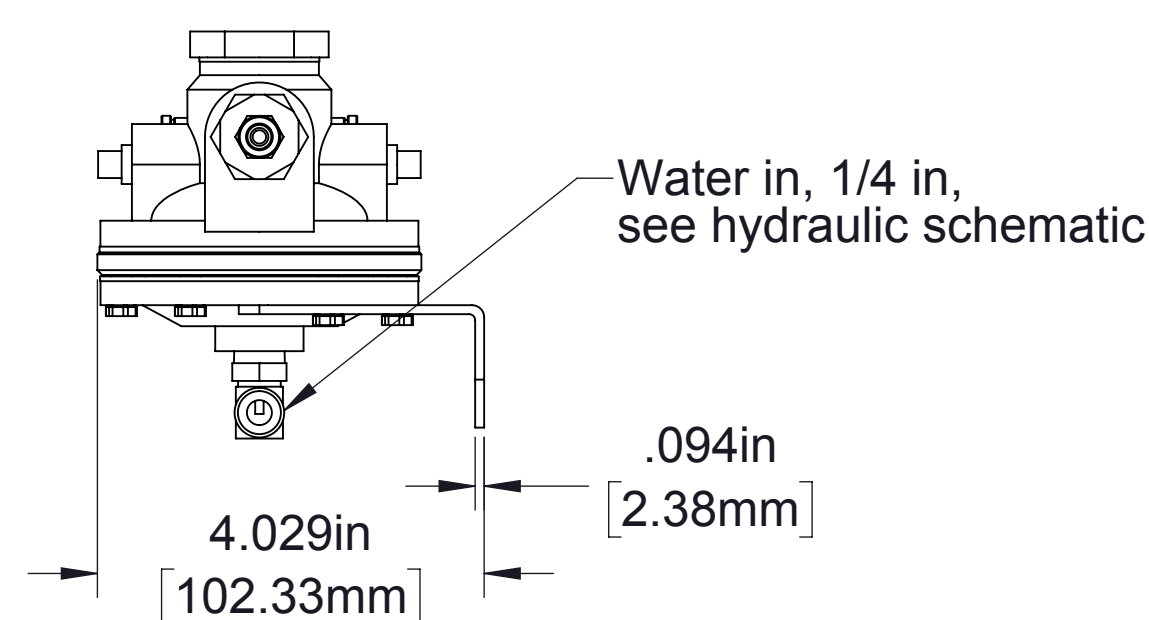
Hose Length

WARNING
(A) Open and close valves slowly.
(B) Do not run with just air/water.
(C) Shut off air when foam tank is empty.
(D) Be prepared for high nozzle reactions - open nozzle slowly.

MINIMUM HOSE LENGTHS WITHOUT STATIC MIXERS FOR CAFS USE
1 IN. 35 FT.
1 1/2 IN. 100 FT.
1 3/4 IN. 100 FT.



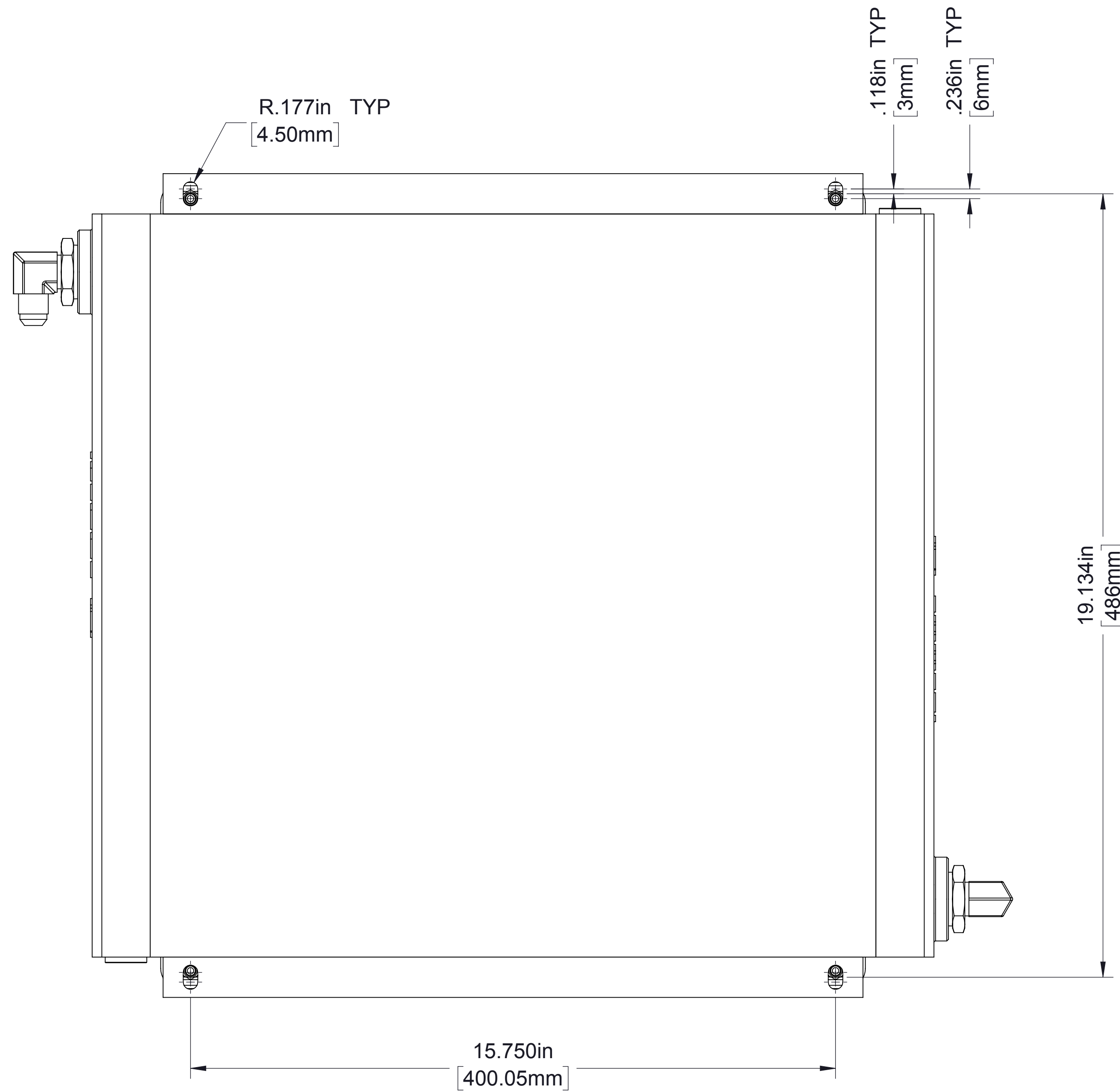
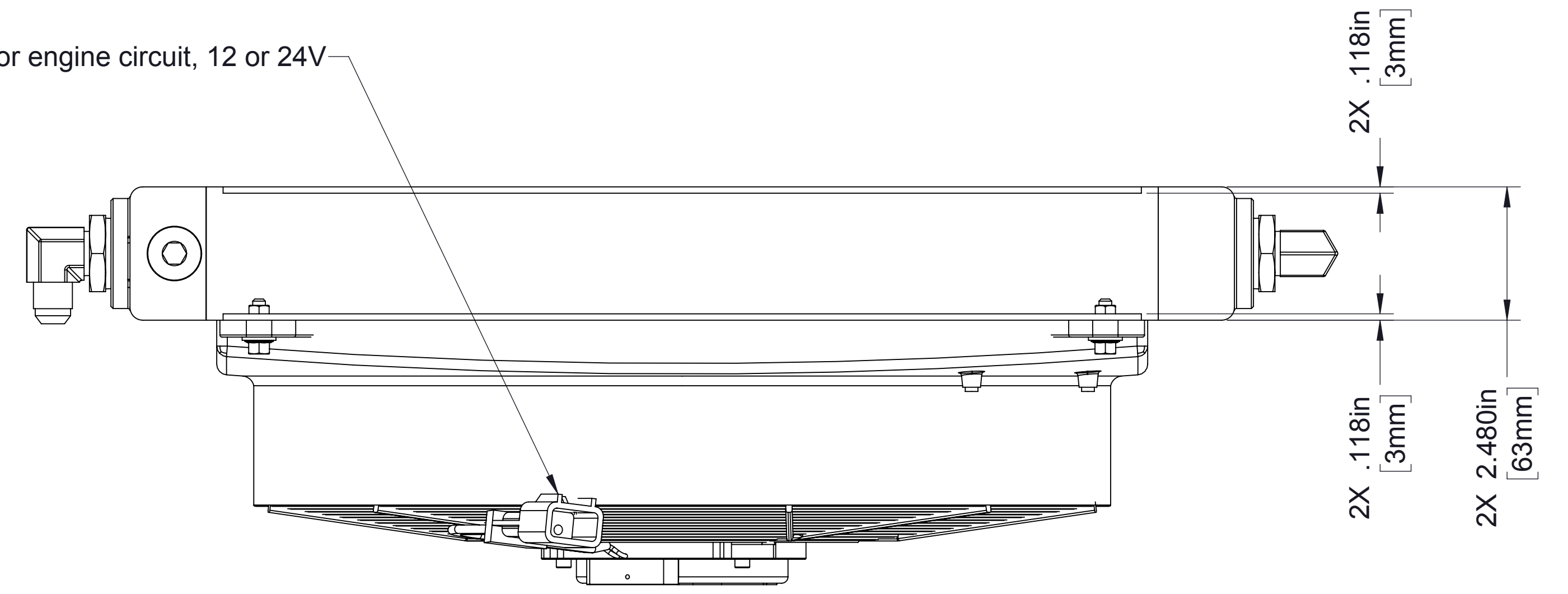
Balance Valve



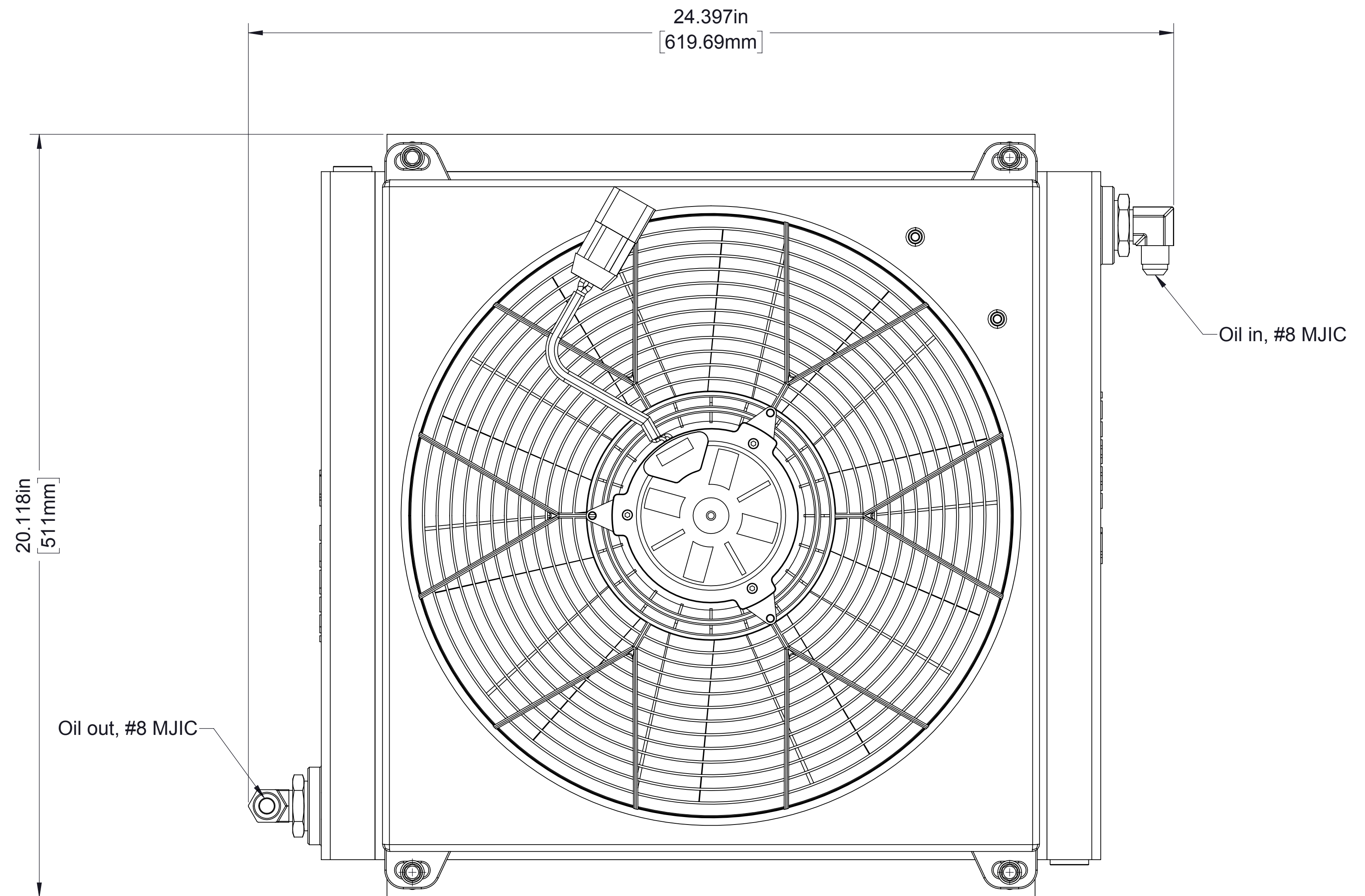
Serial Plate

Panel Plates

Connects to CAFS compressor engine circuit, 12 or 24V

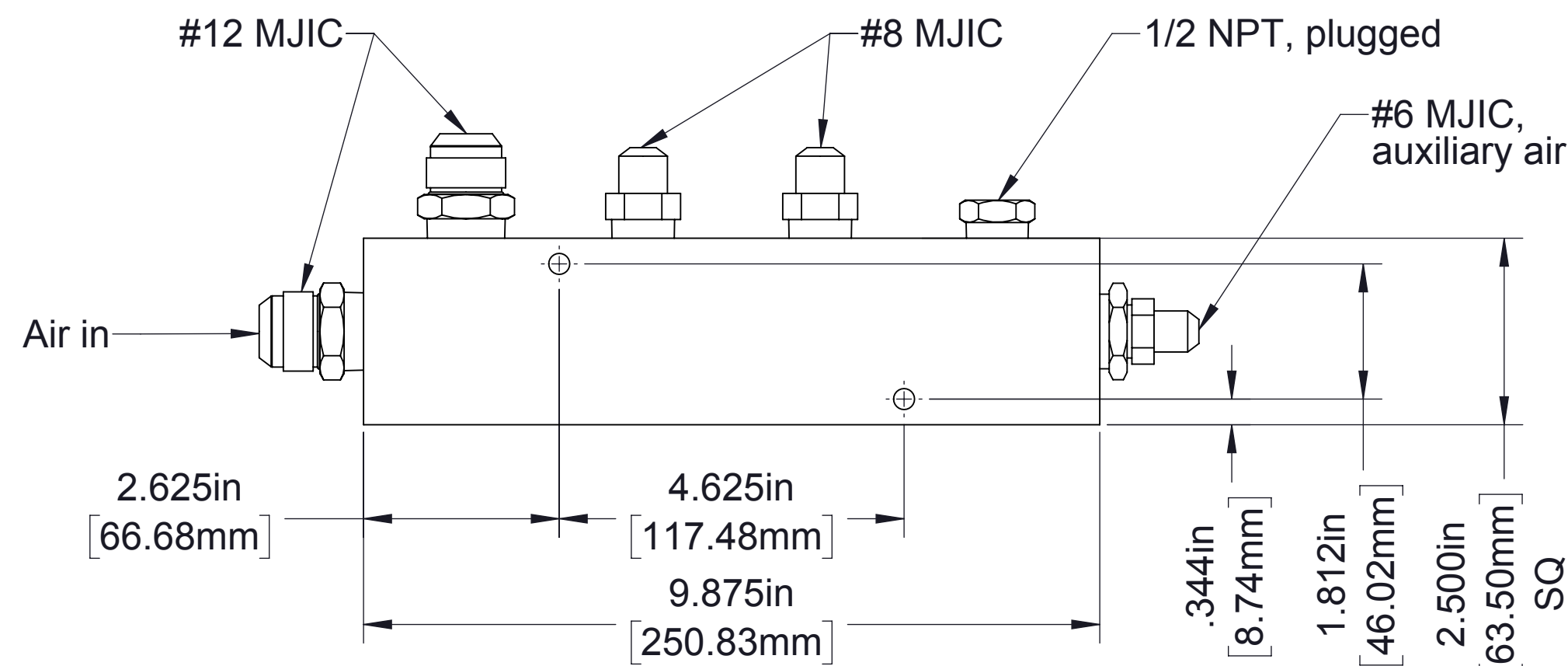
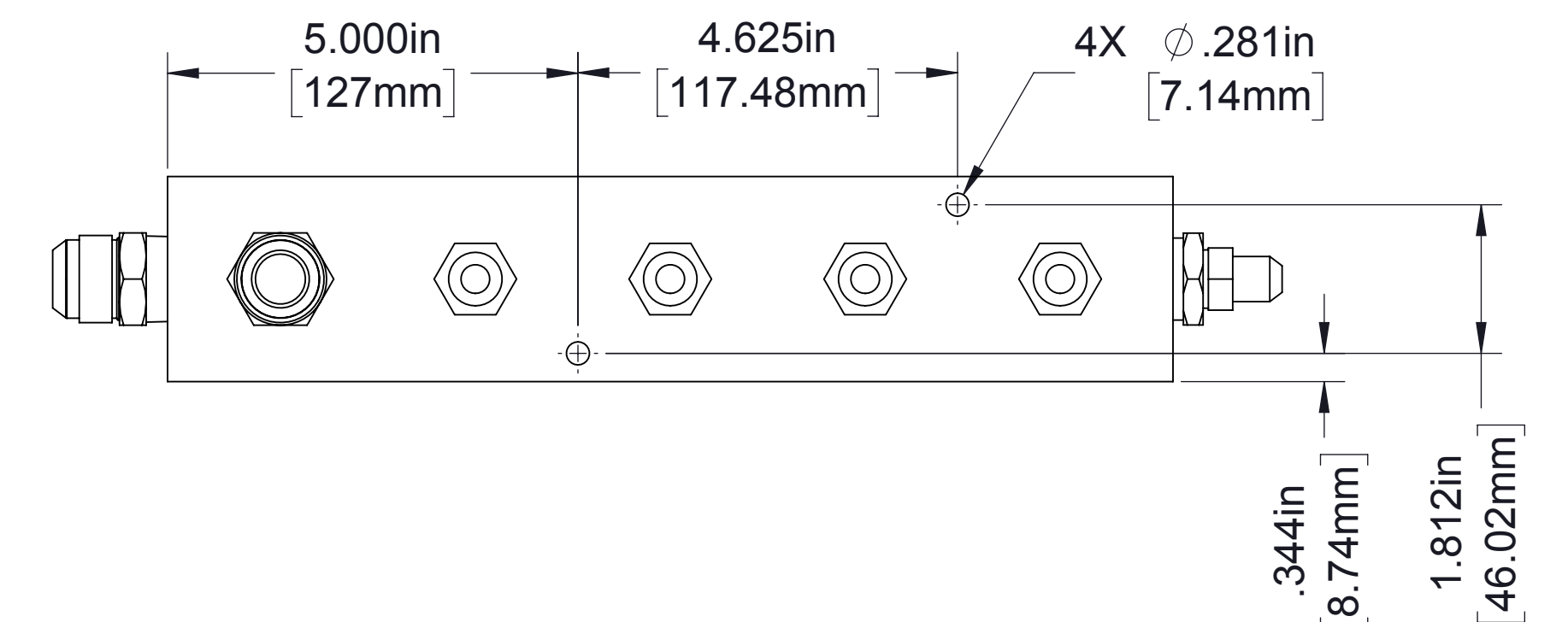
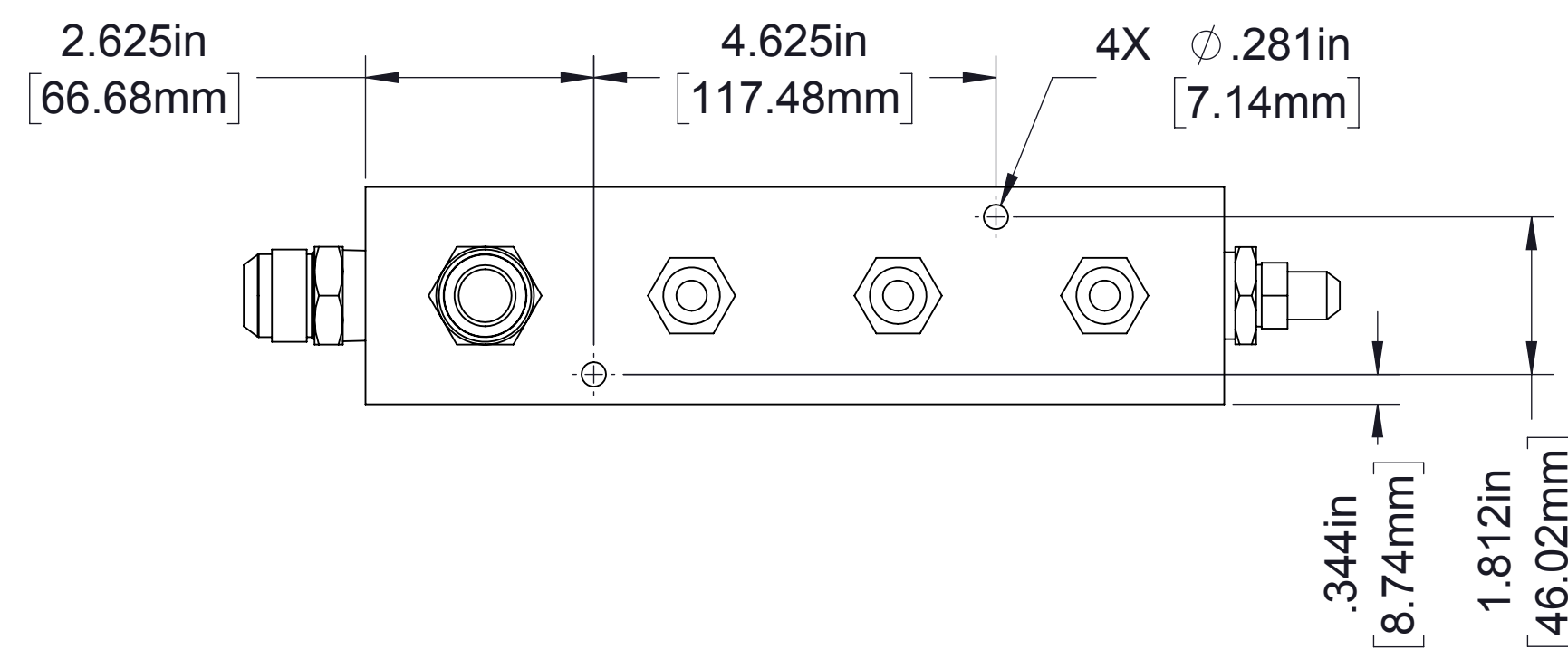
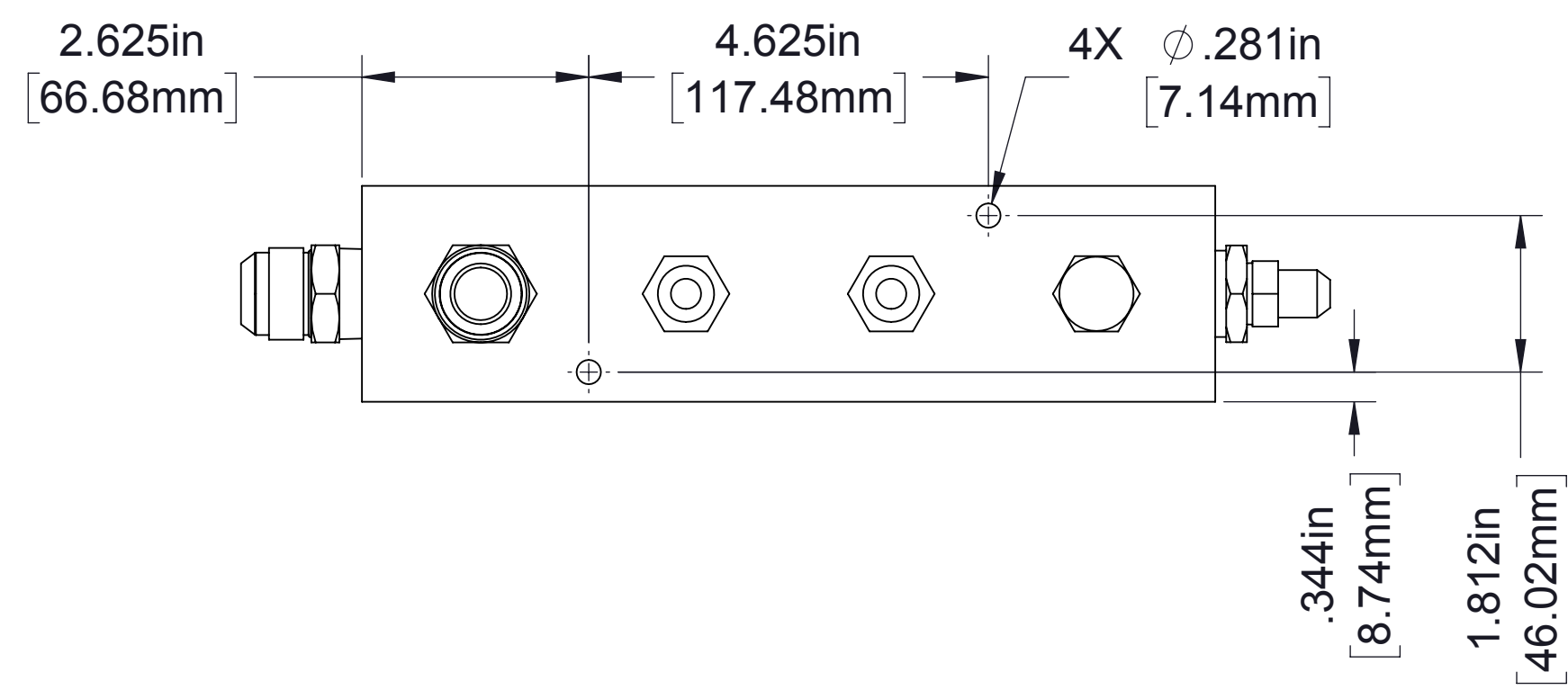


Viewed from back

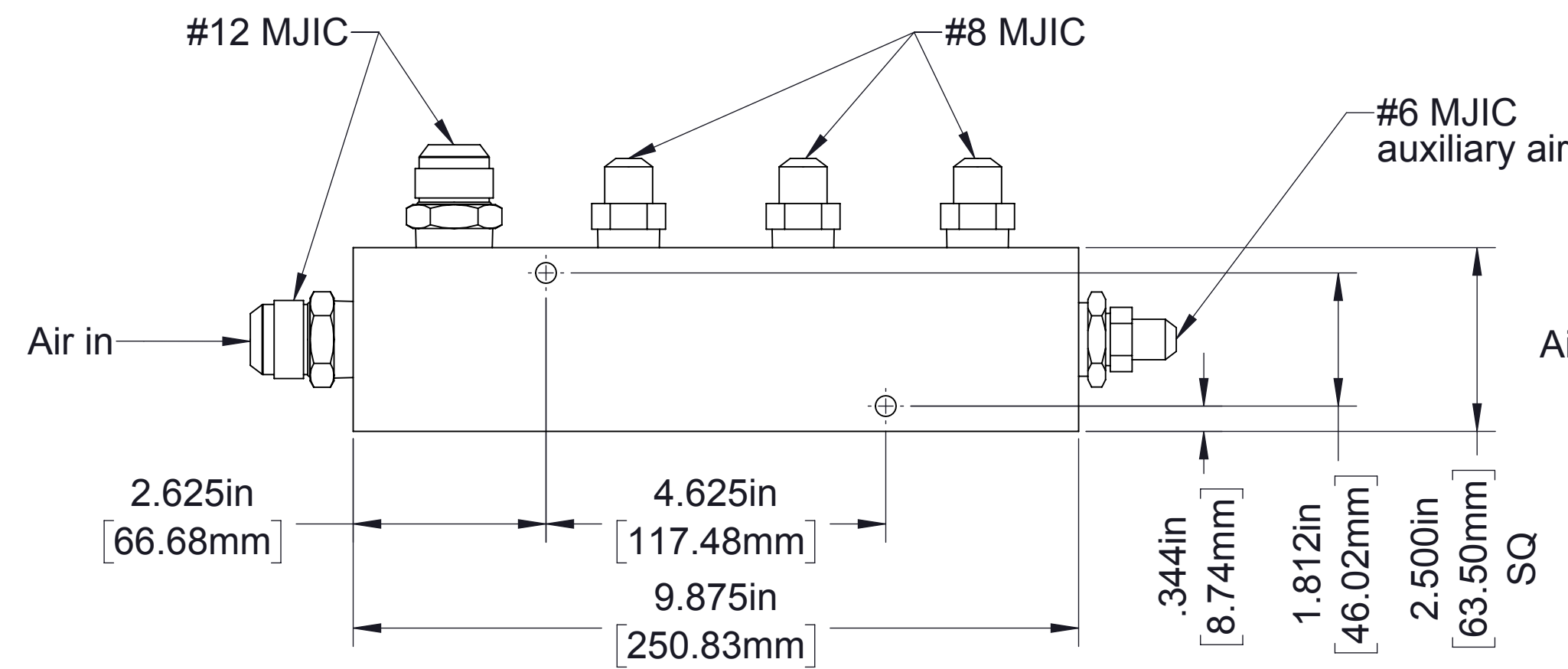


**Optional Air Cooler
(Electric Fan)**

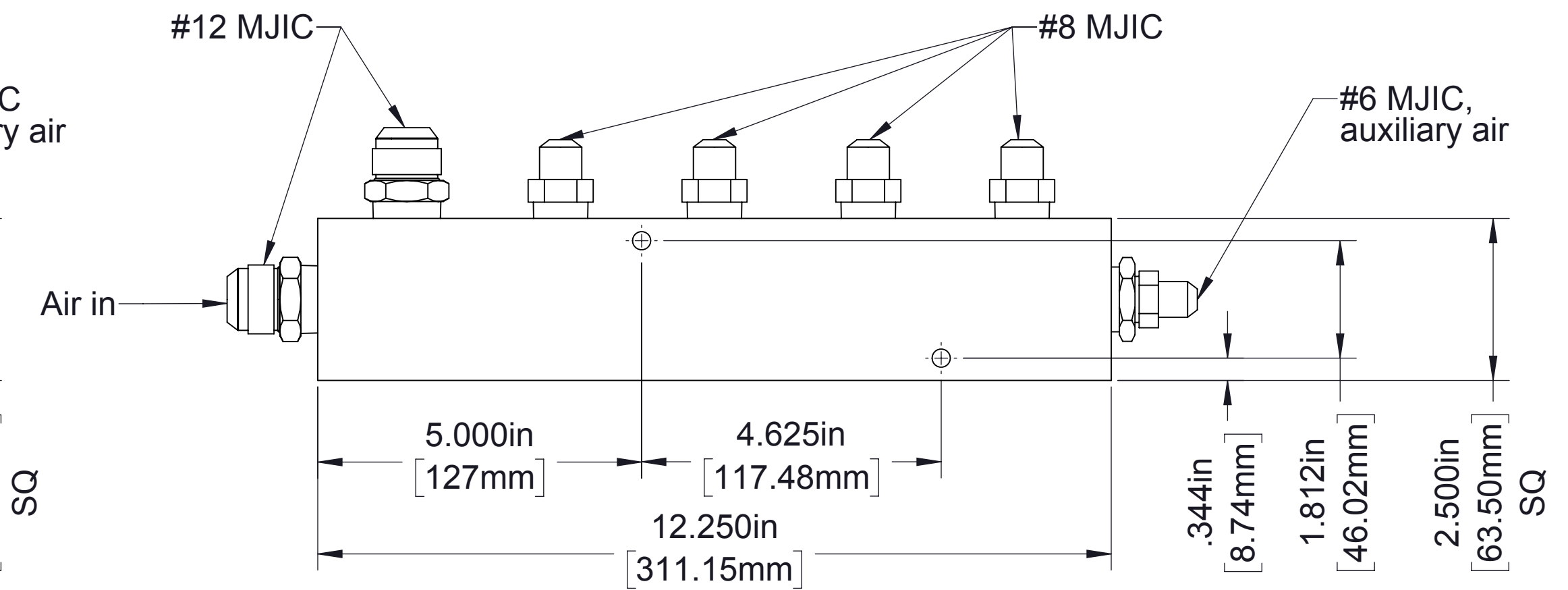
May be used as secondary cooler in conjunction with oil cooler on page 8. Not available as a stand-alone cooler.



3 Port Manifold,
order part number 83360-1A

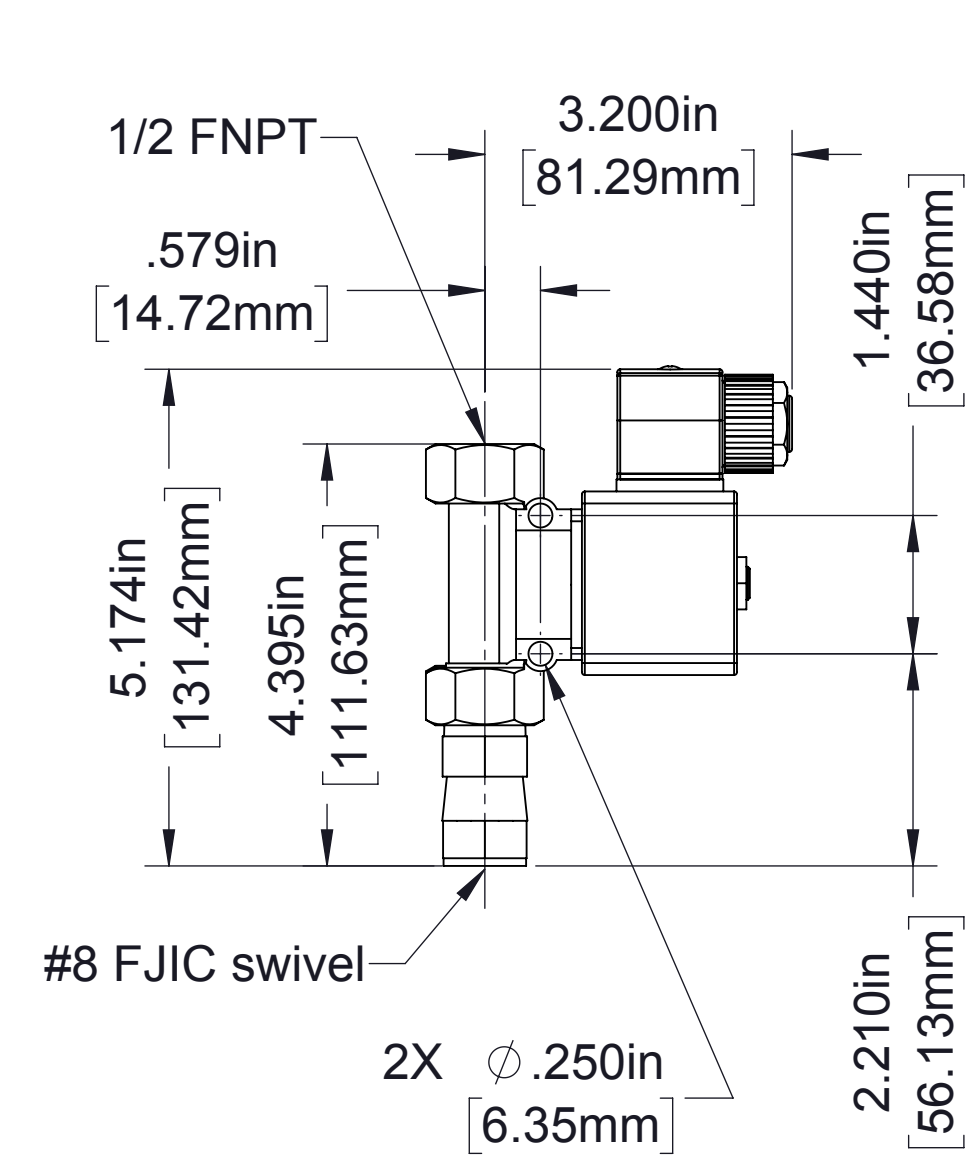


4 Port Manifold,
order part number 83360-1B



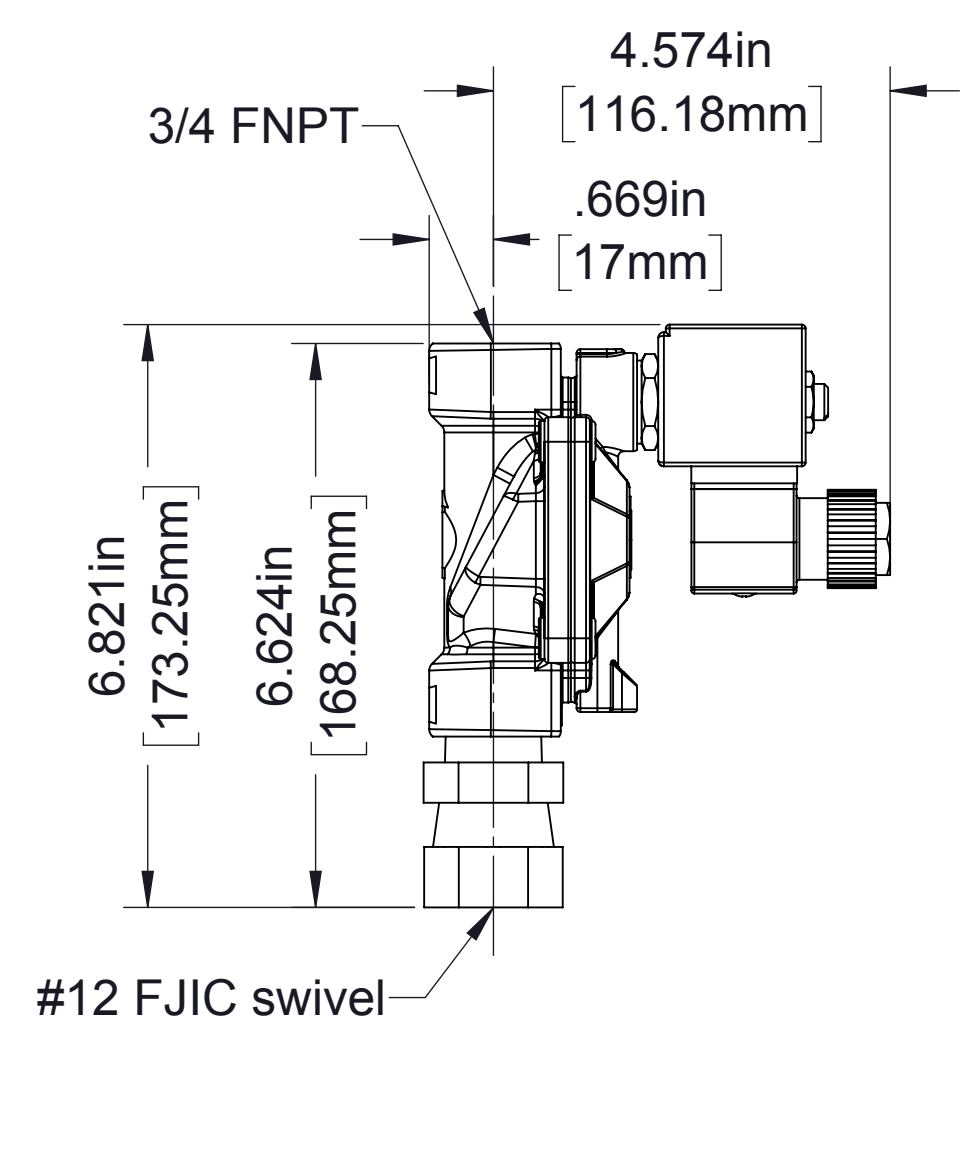
5 Port Manifold,
order part number 83360-1C

Optional Air Distribution Manifold

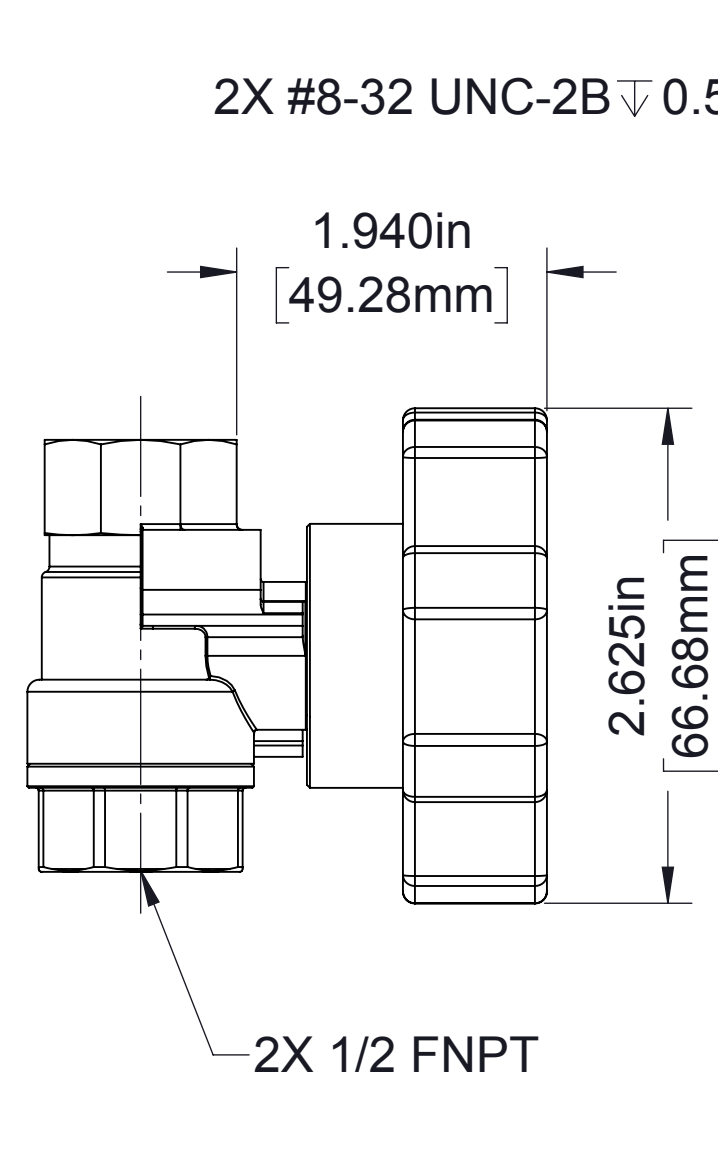


1/2 in

Electric

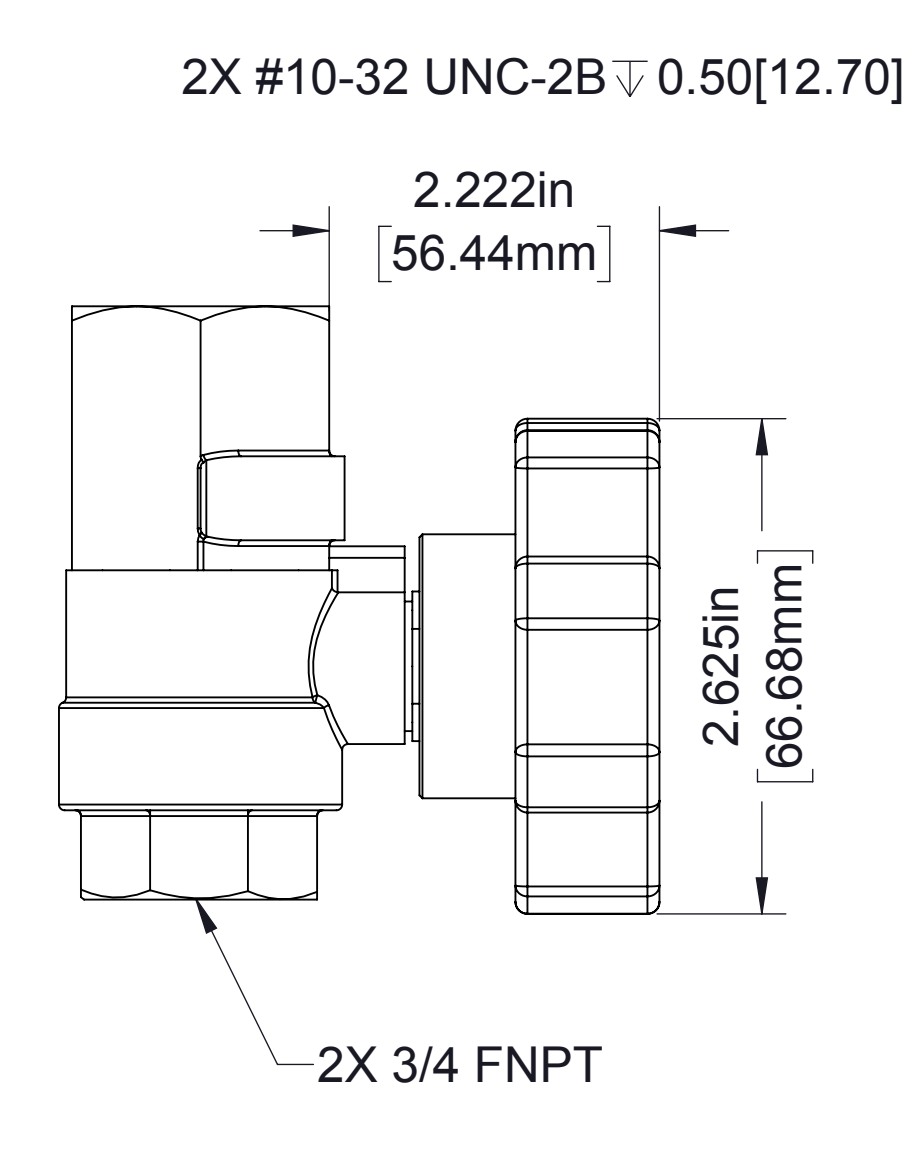
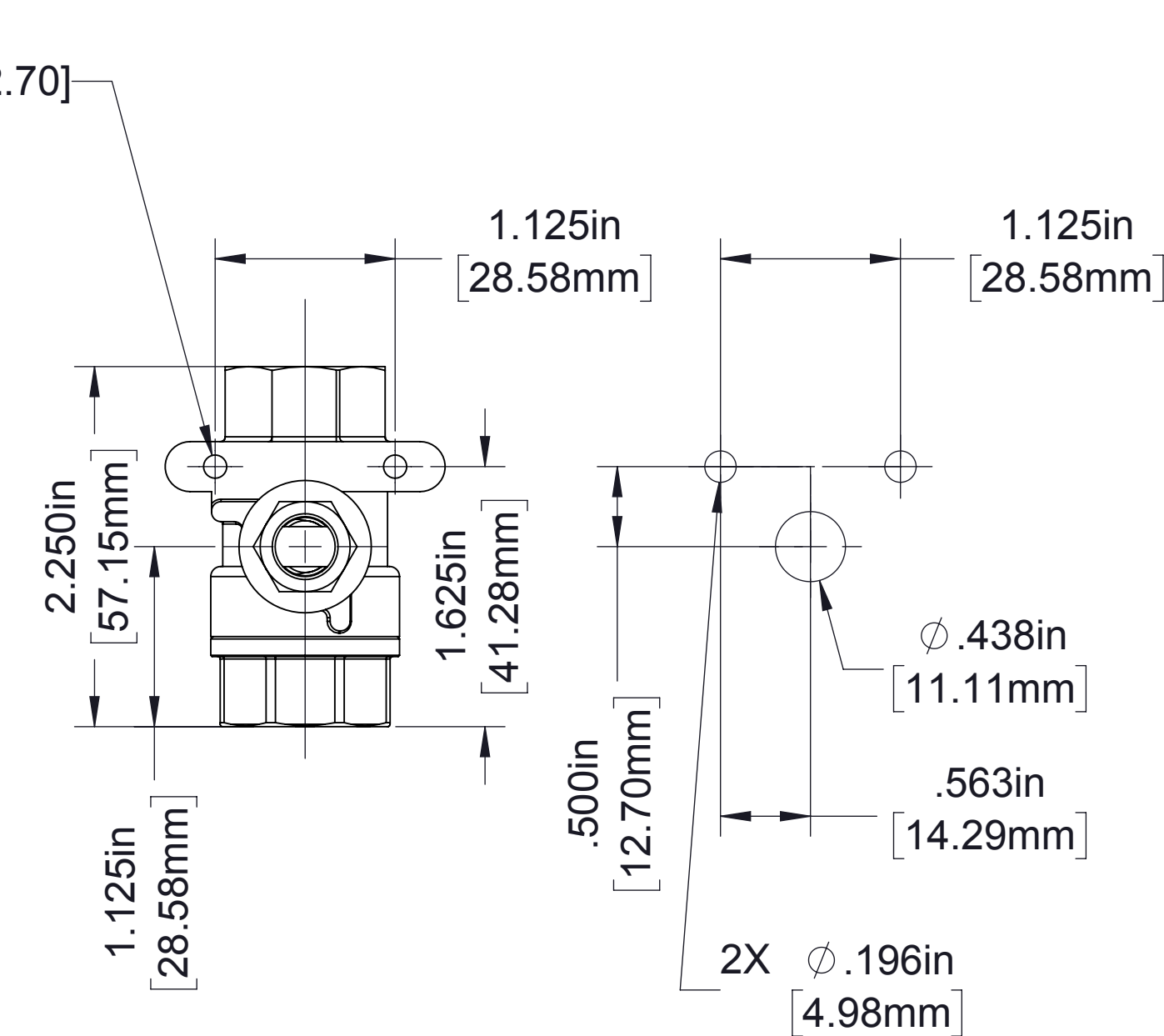


3/4 in

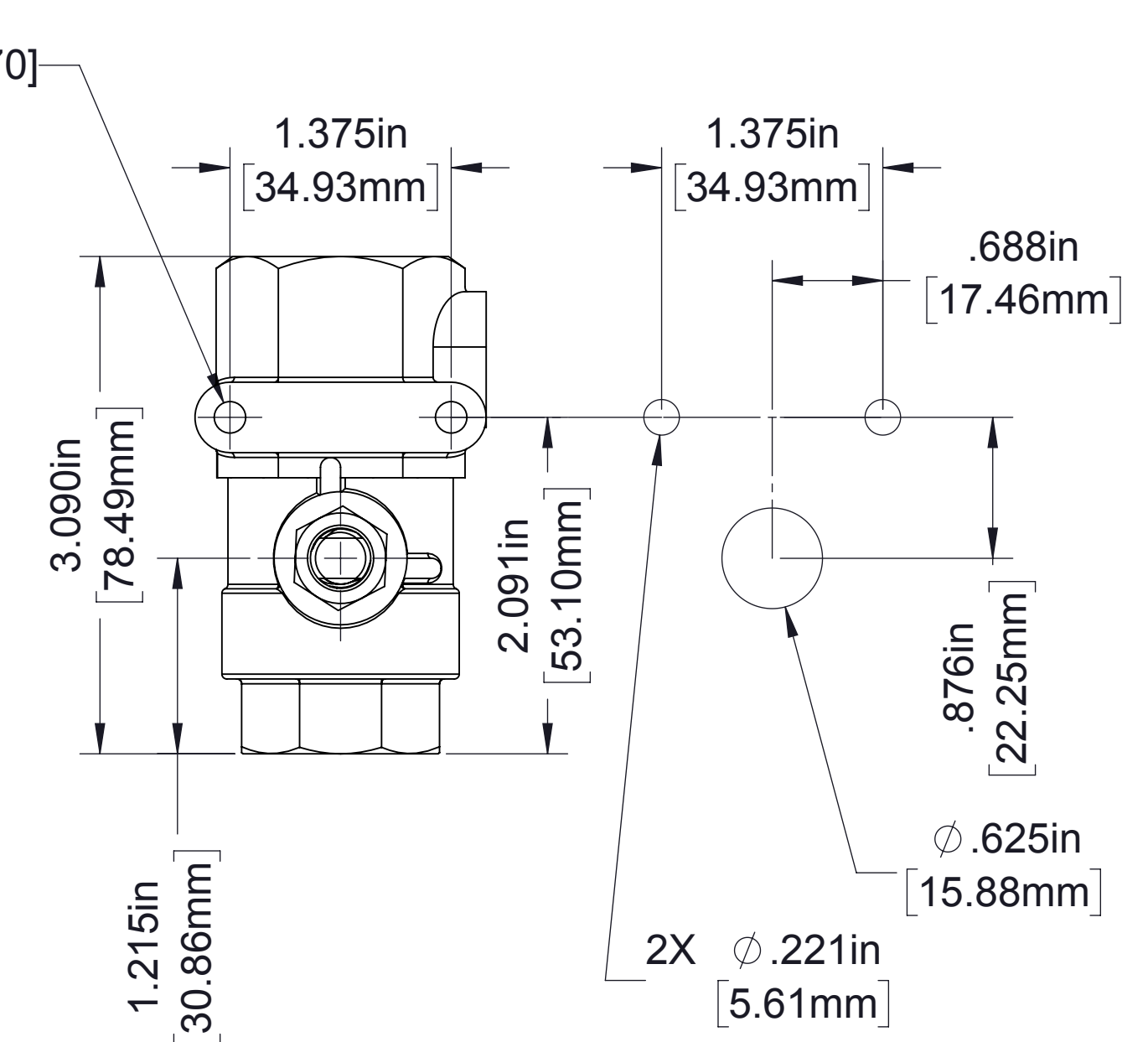


1/2 in

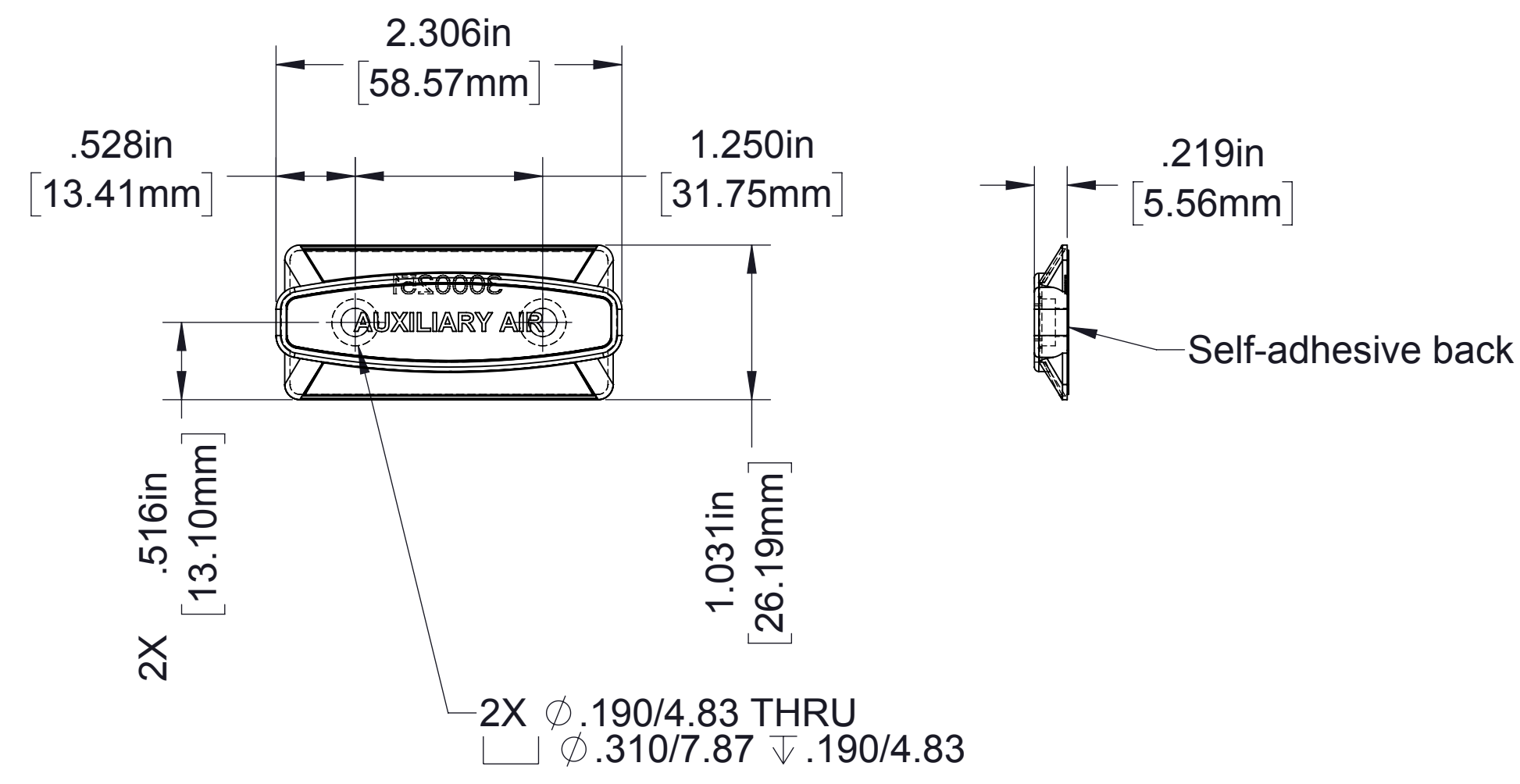
Manual



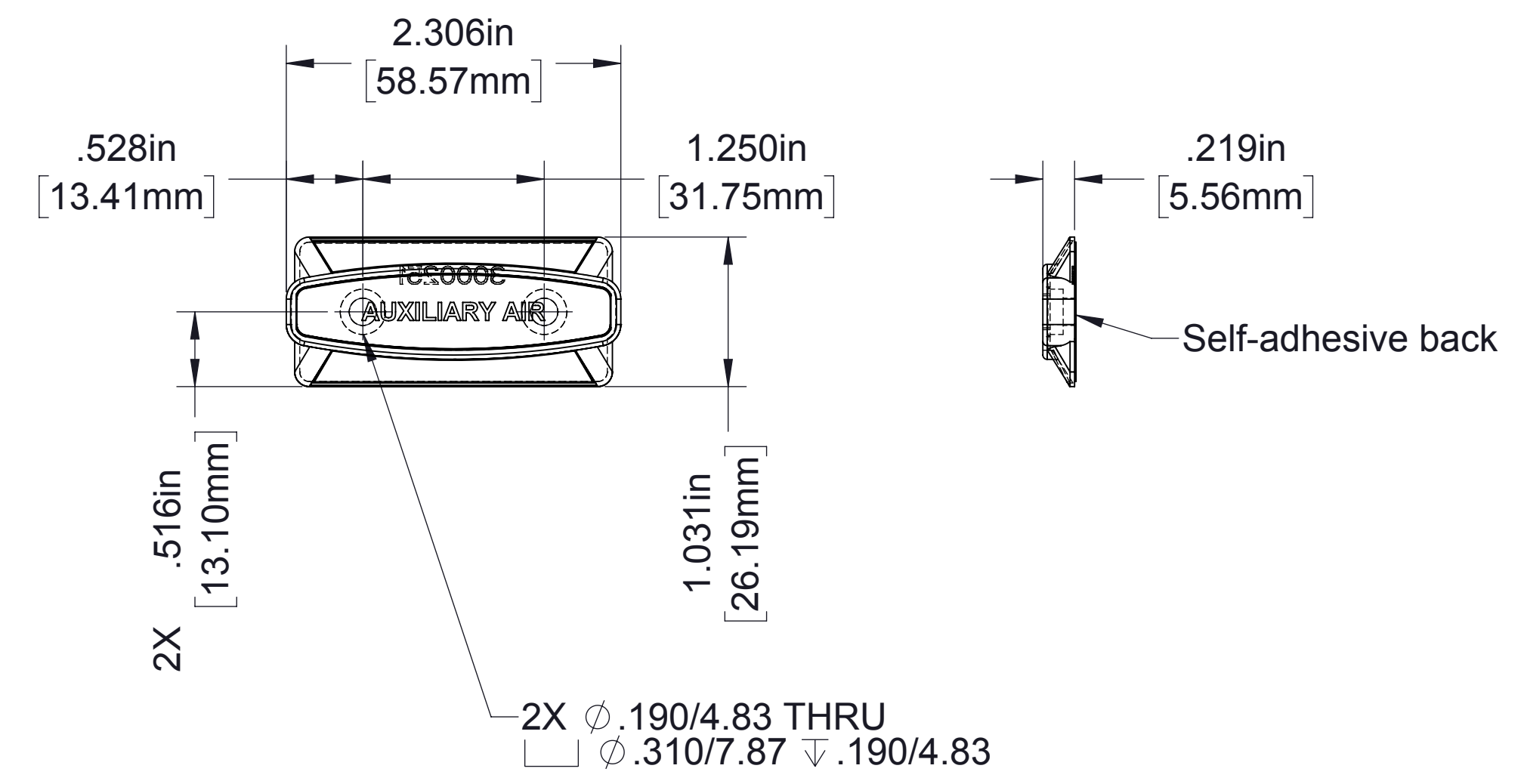
3/4 in



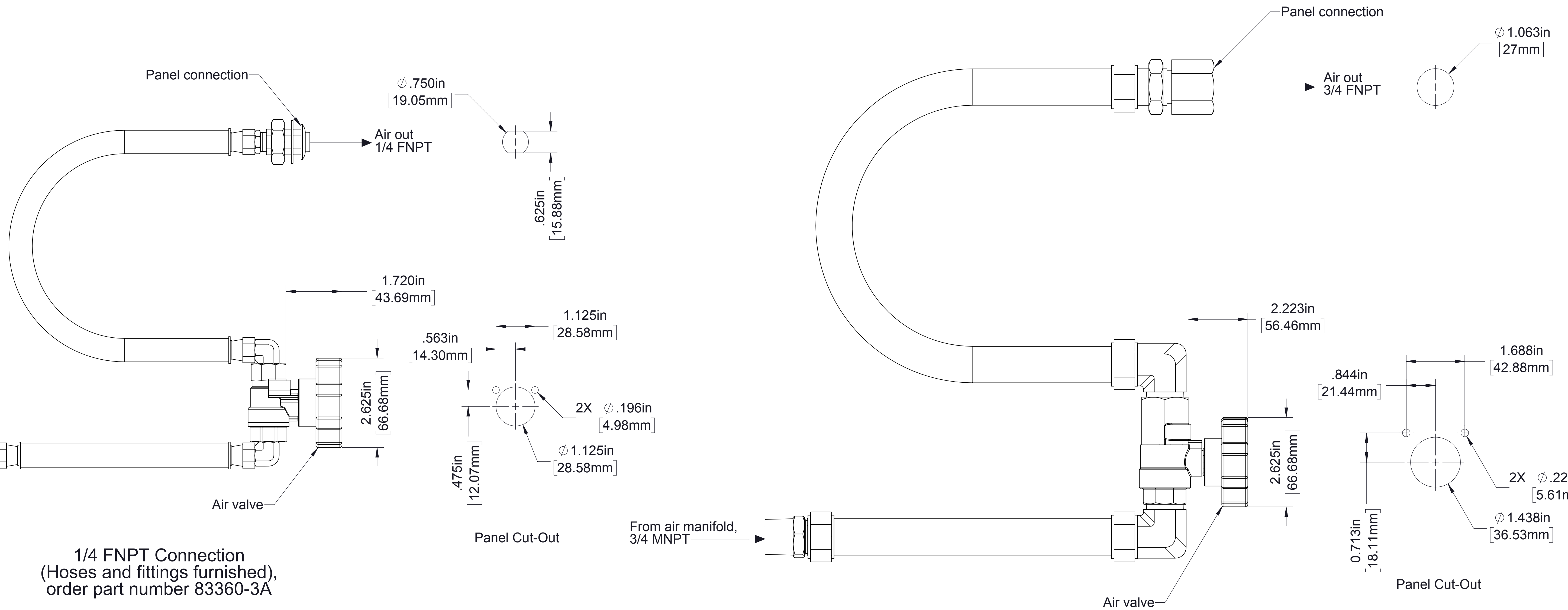
Optional Air Valves



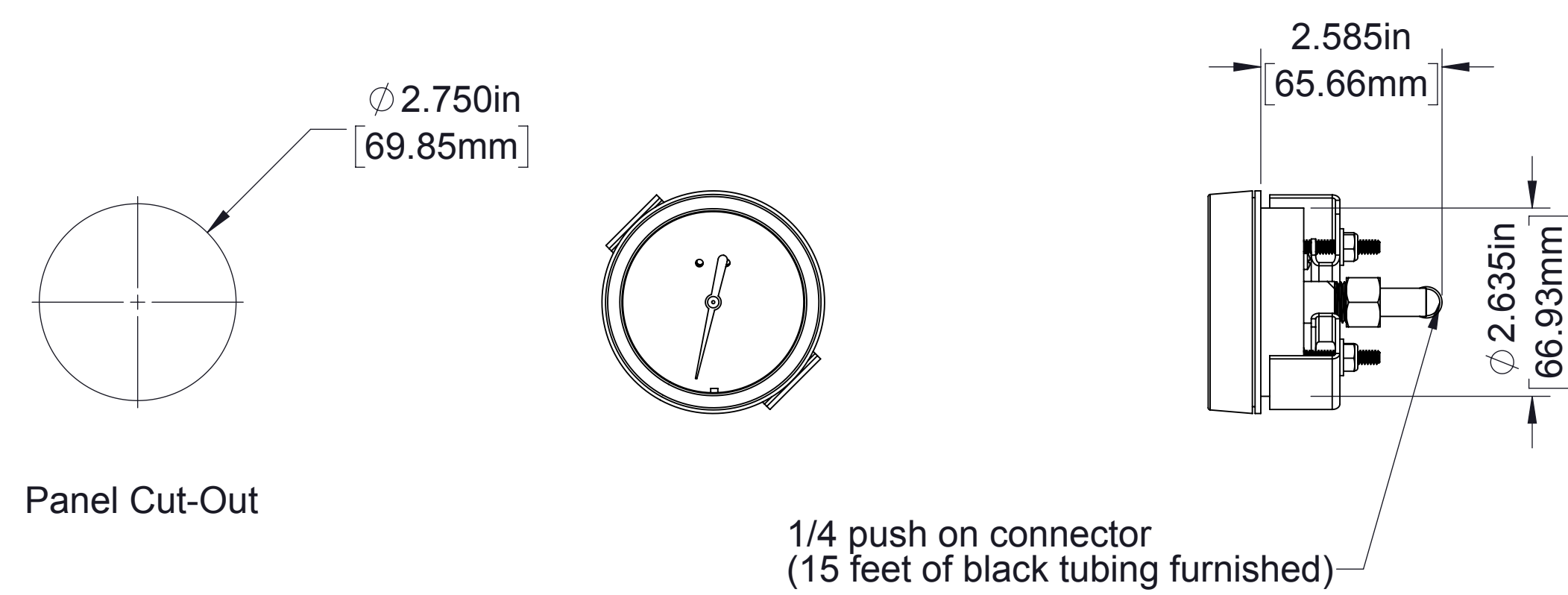
Label



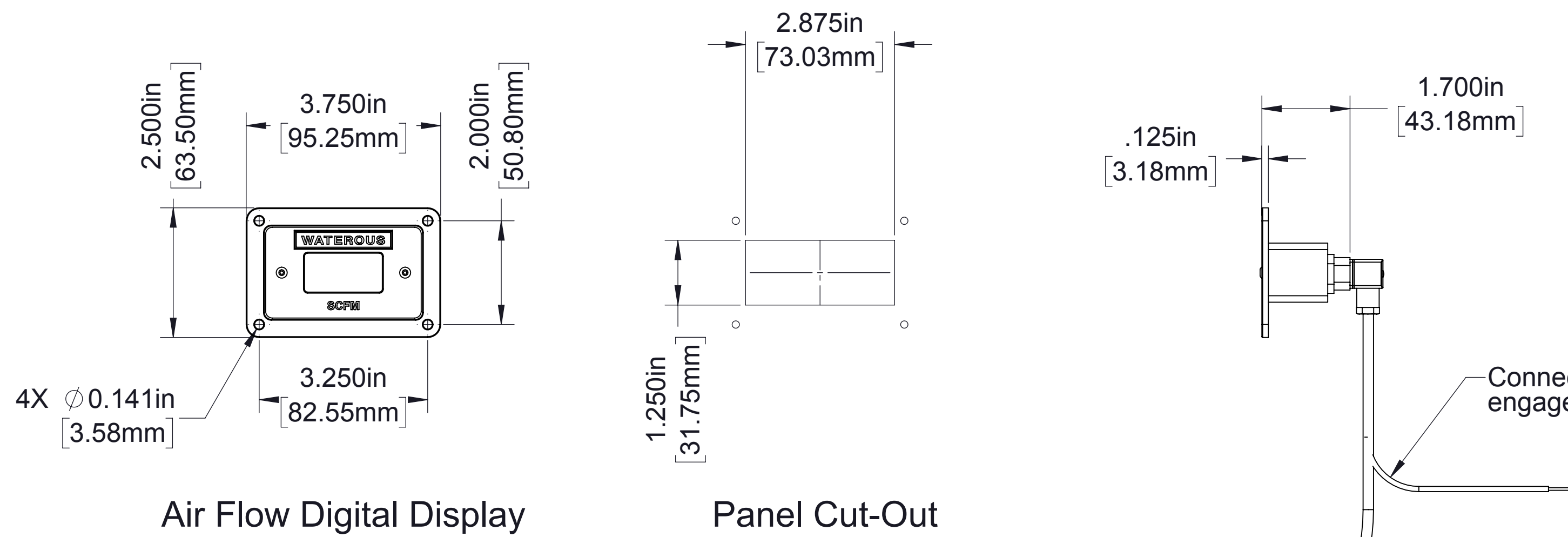
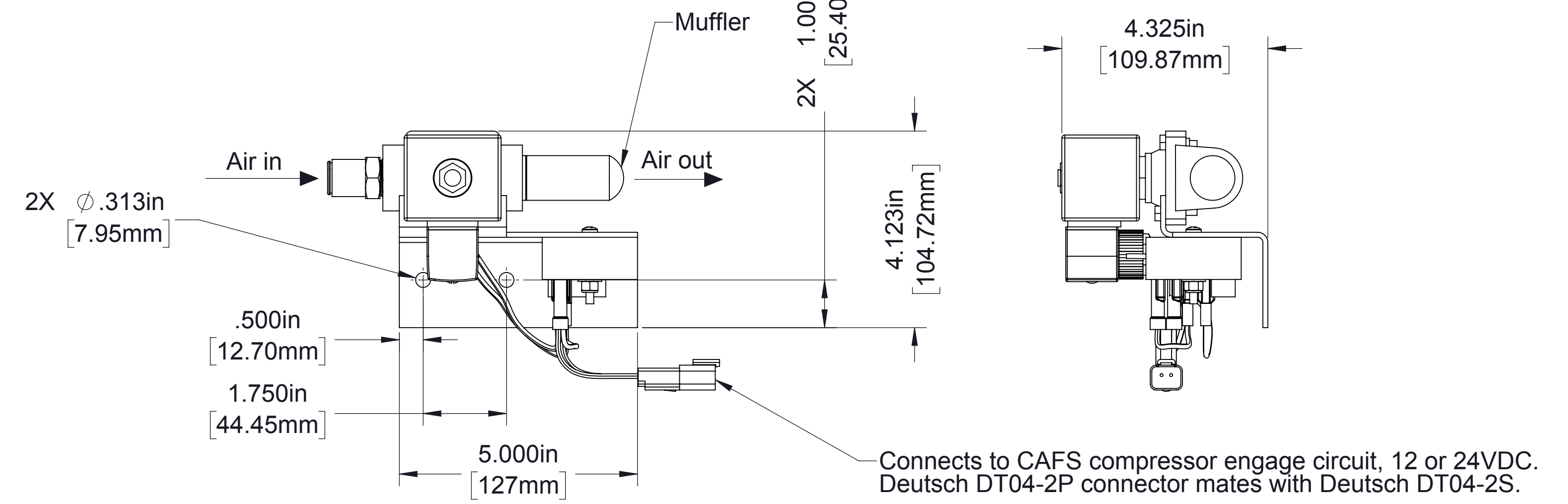
Label



Optional Auxiliary Air Connection

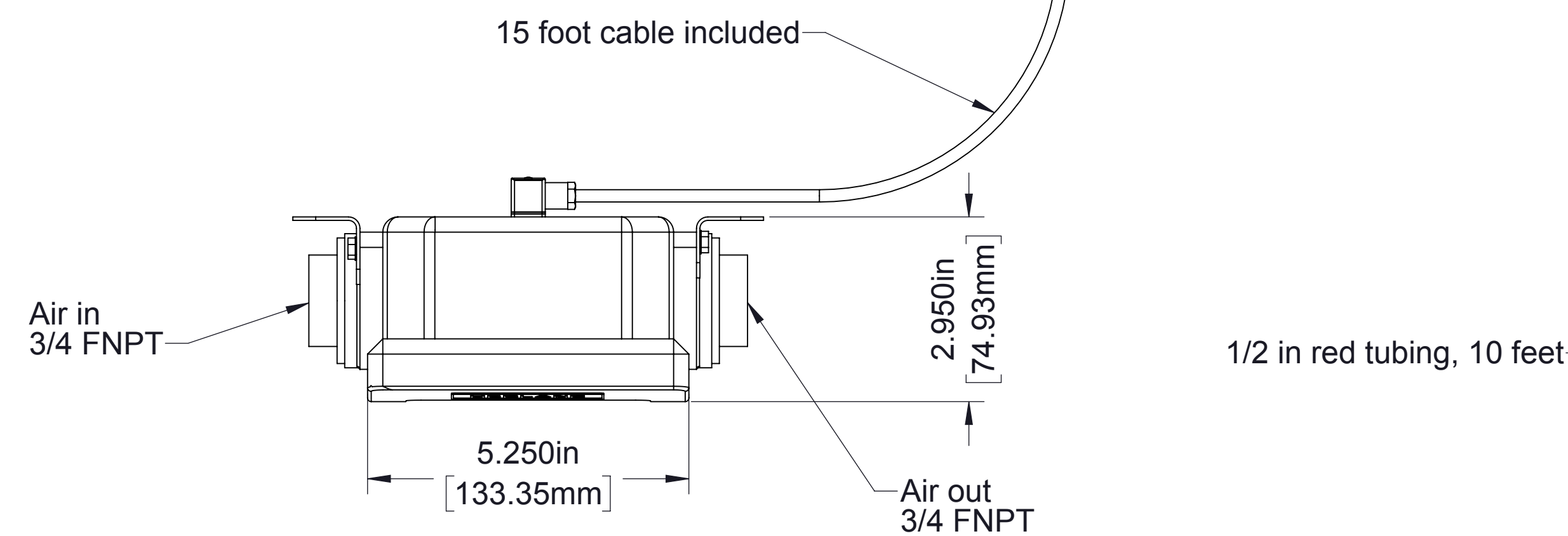


Optional Air Pressure Gauge
 Single Mpa scale order part number 83417-1A
 Dual PSI/Kpa scale order part number 83417-1B



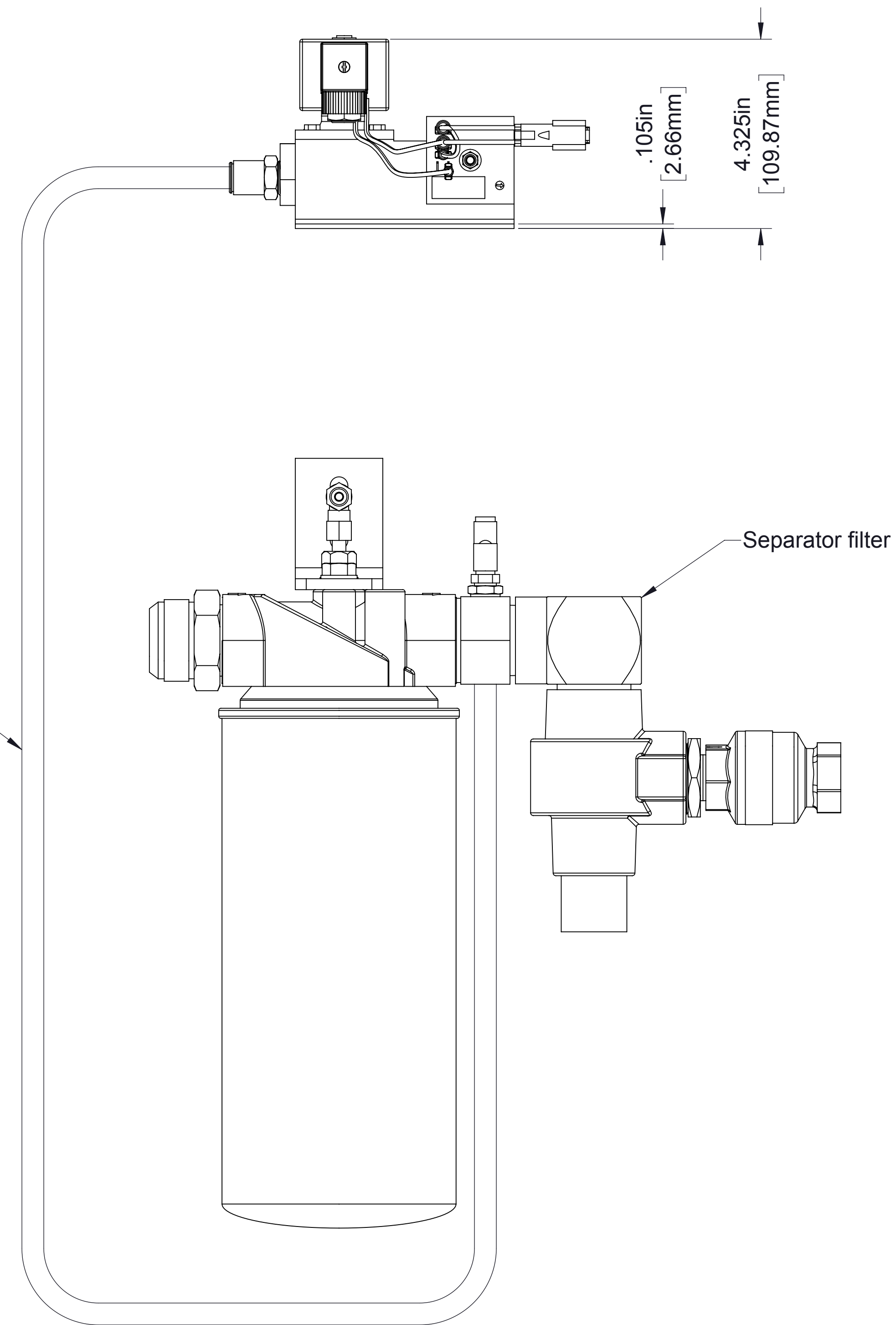
Air Flow Digital Display

Panel Cut-Out



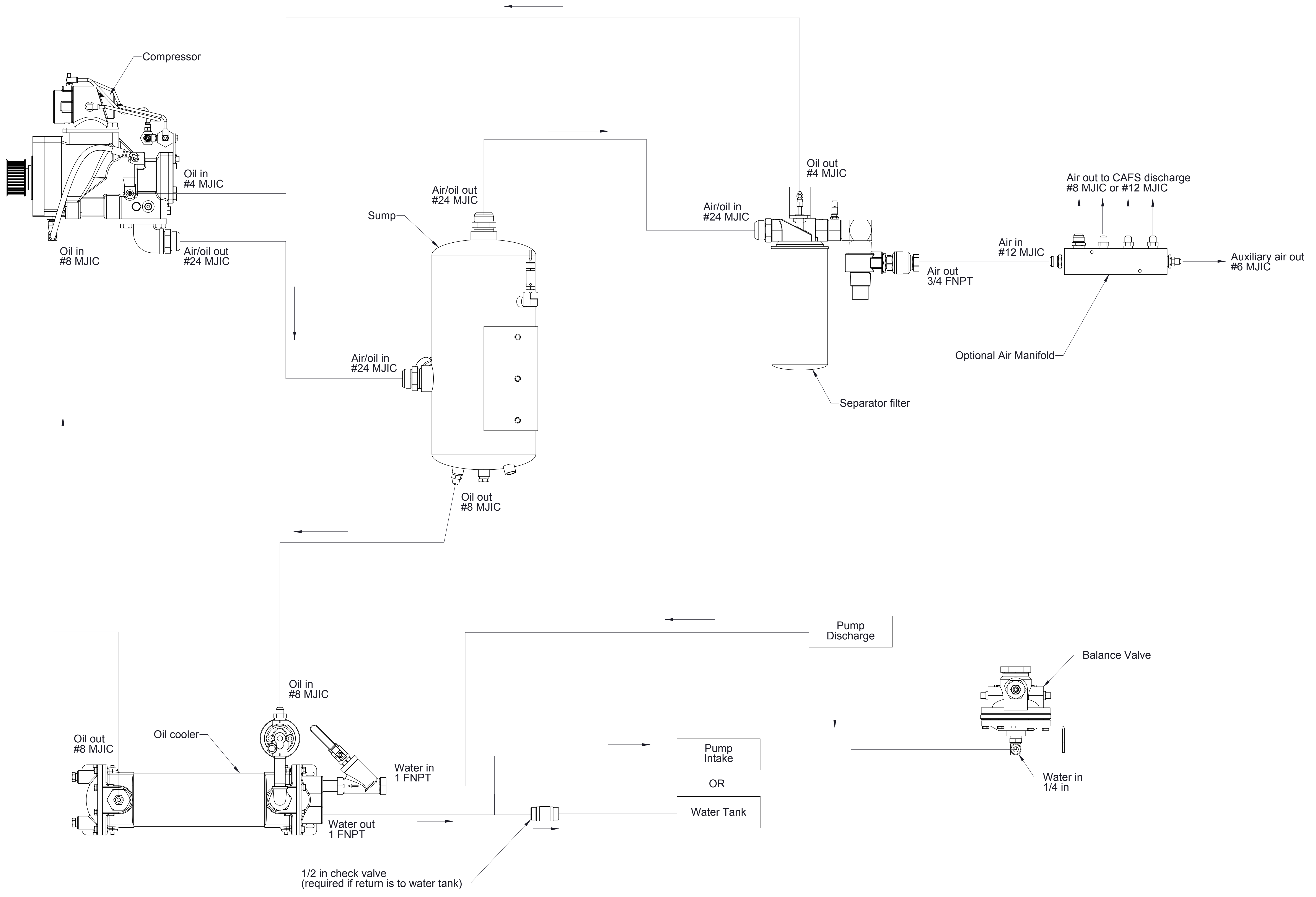
Air Flow Meter

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

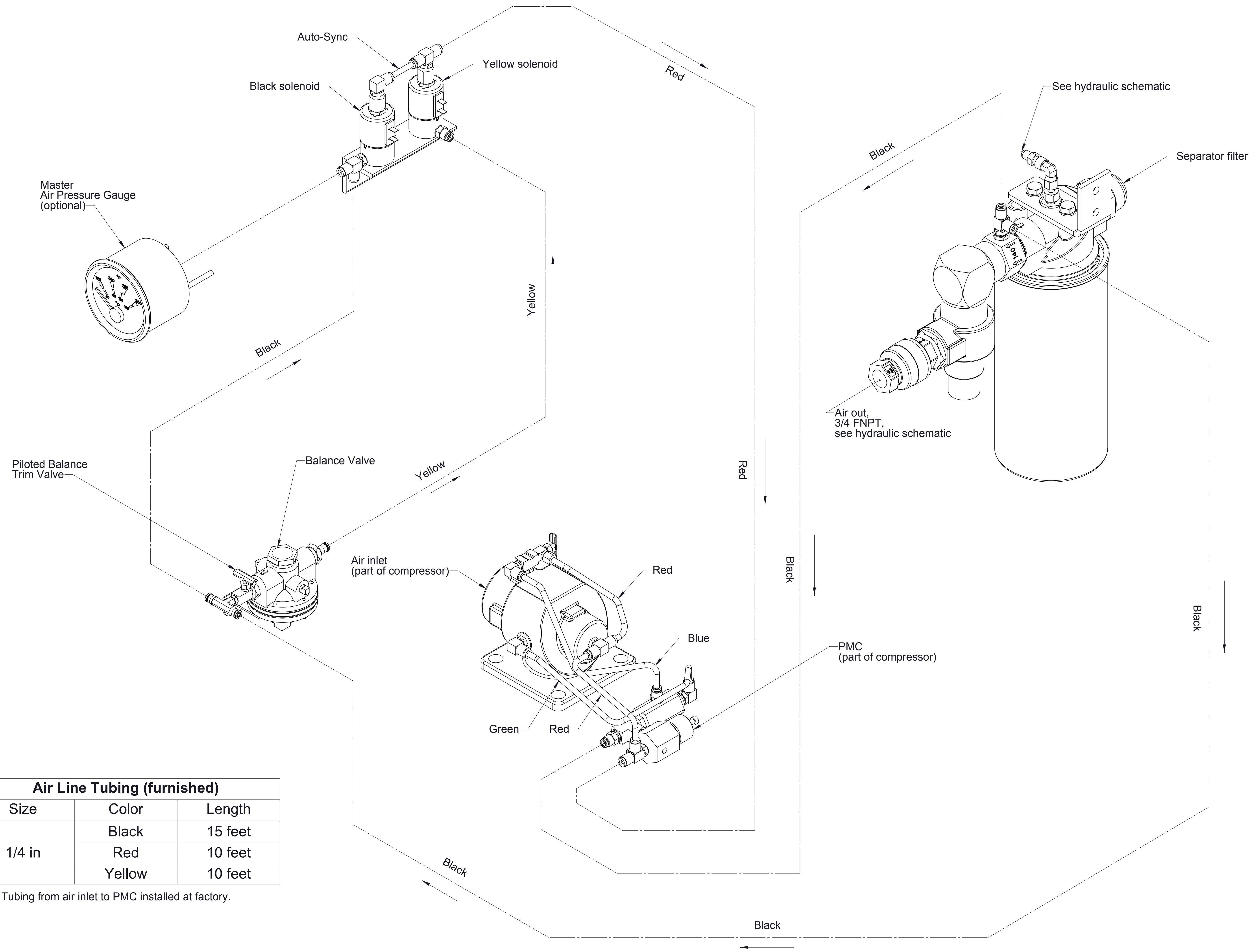


Sump Vent

Vents compressor pressure for 10 seconds at start-up to prevent engine stalling. order part number 83293-2A (12V) or 83293-2B (24V).



Hydraulic Schematic

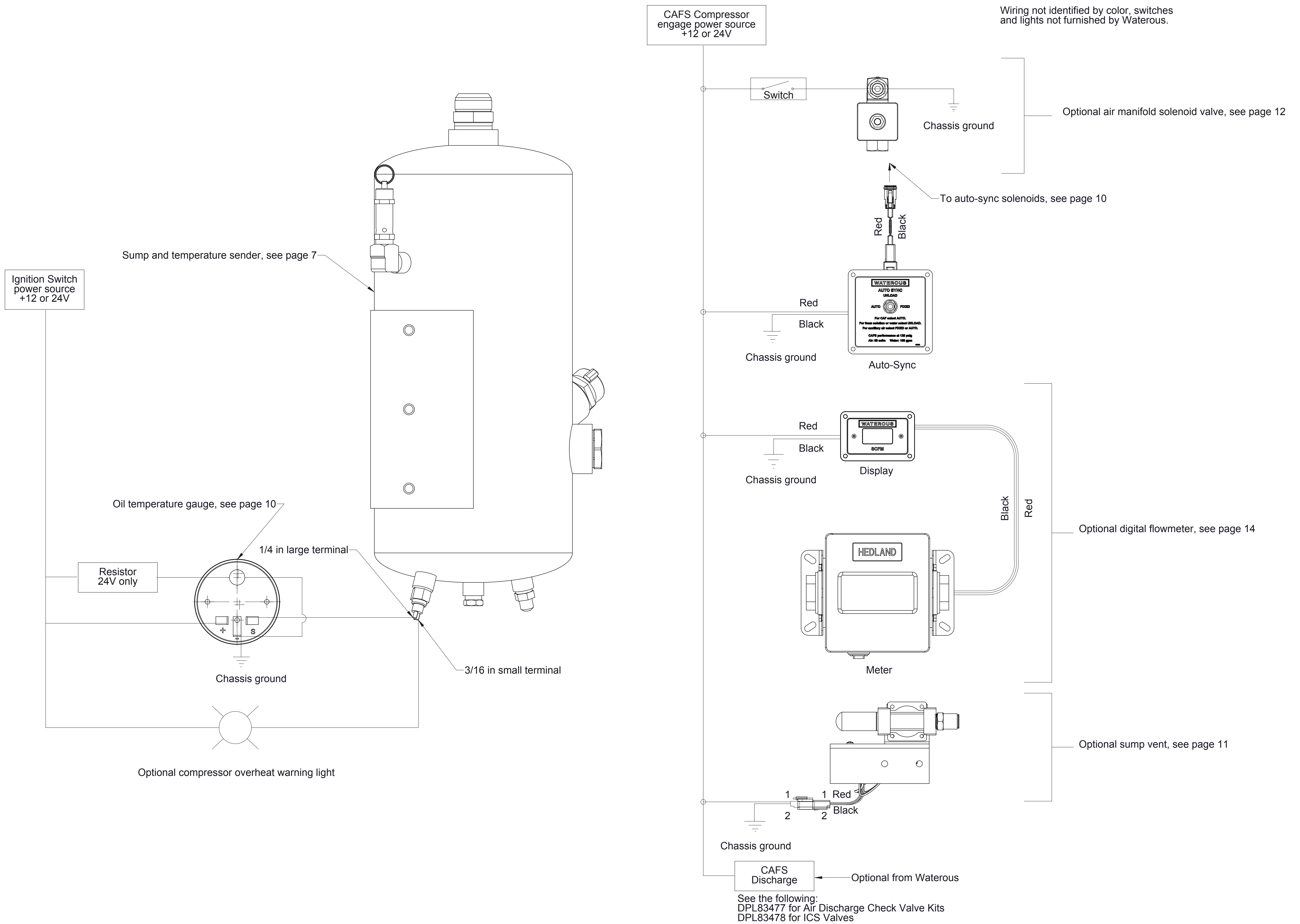


Air Line Tubing (furnished)		
Size	Color	Length
1/4 in	Black	15 feet
	Red	10 feet
	Yellow	10 feet

Note: Tubing from air inlet to PMC installed at factory.

----- Installed by OEM

Air Circuit Schematic



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

Electrical Schematic