



AMETEK®

PACIFIC DESIGN TECHNOLOGIES, INC.

Thermal Management Solutions

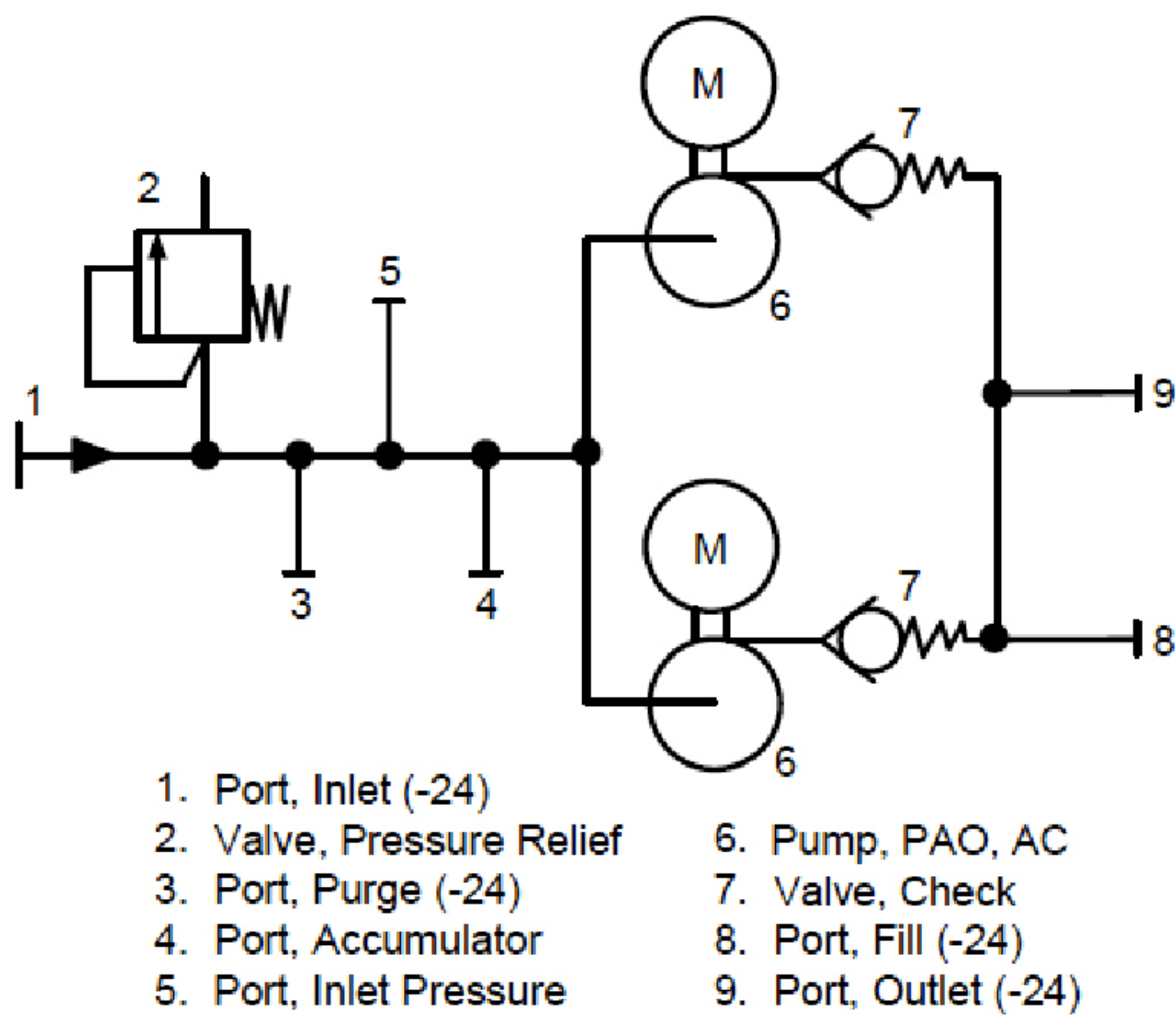
Model 5386 Coolant Pump Datasheet



Coolant Pump
PDT Model 5386



Hydraulic Schematic



Description

PDT Model 5386 depicts a redundant pump assembly which typically has a single pump operating at one time. Reverse flow through the idle pump is prevented via the integral check valves at each pump outlet. PDT Model 5386 also includes interfaces for purging and filling, and an accumulator port. The unit is qualified to various RTCADO-160 and MIL-STD-810 fixed-wing flight environmental conditions.

Specification
Pump Parameters

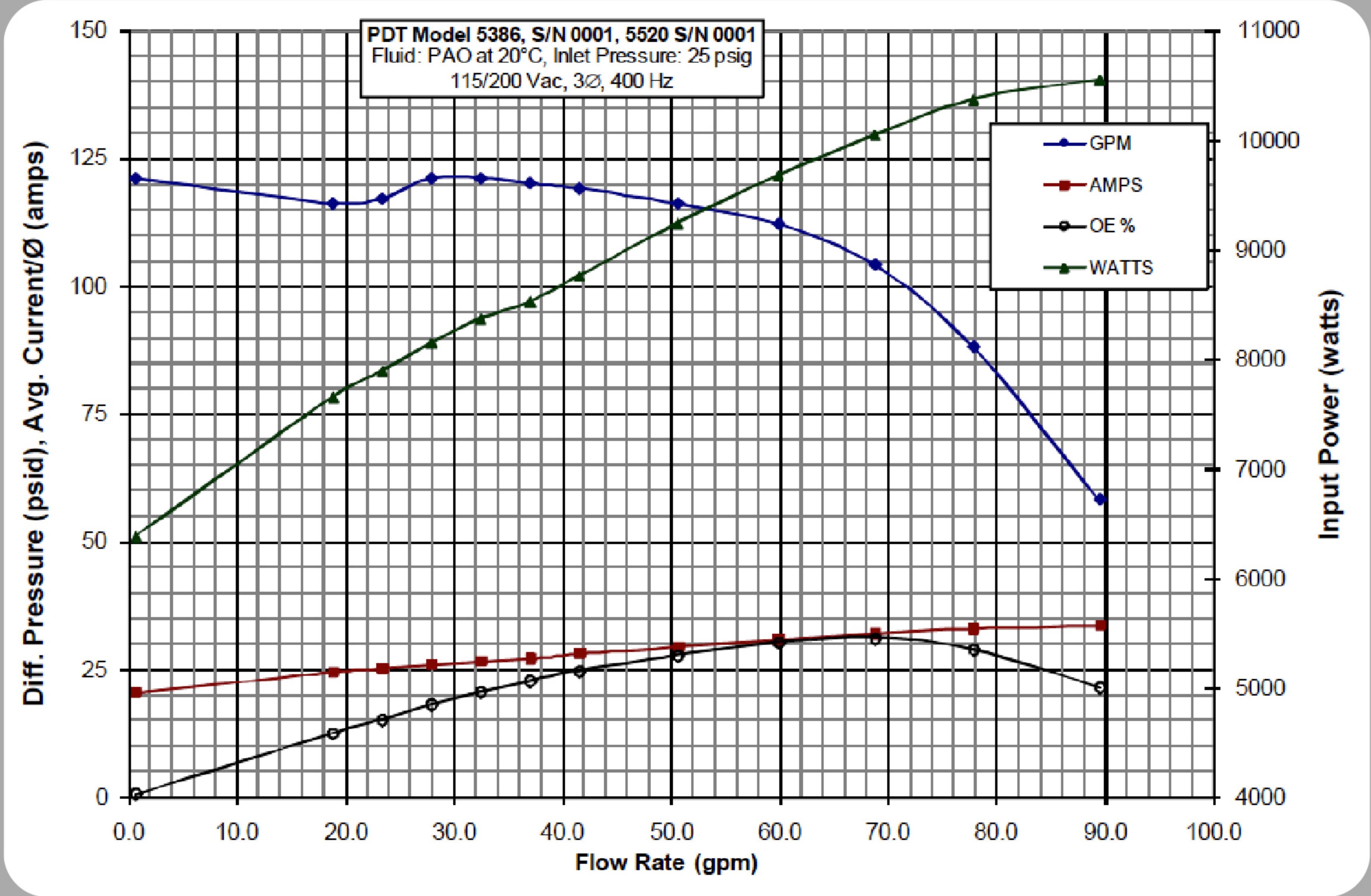
Fluid:	Polyalphaolefin (PAO) per MIL-PRF-87252
Pump Flow:	40.0 gpm (min) @ 115 psid
Temperature Ranges:	25±1 psig @ +68°F Operating: -67°F to +160°F Ambient Storage: -67°F to +185°F
Operating Voltage:	115/200 VAC, 3Ø, 400 Hz
Input Power:	30 amps/ phase (max)
Pressure:	Proof: 375 psig Burst: 500 psig
Pump Type:	Centrifugal
Weight:	60.0 lbs (max)
	Aluminum surfaces anodized per MIL-A-8625F Type II.
Electrical:	Mounting interface finished per MIL-C-5541 Class 3 Motor over-temperature switches

Relief Valve Information

Crack:	150±15 psig
Reseat:	130 psig (min)

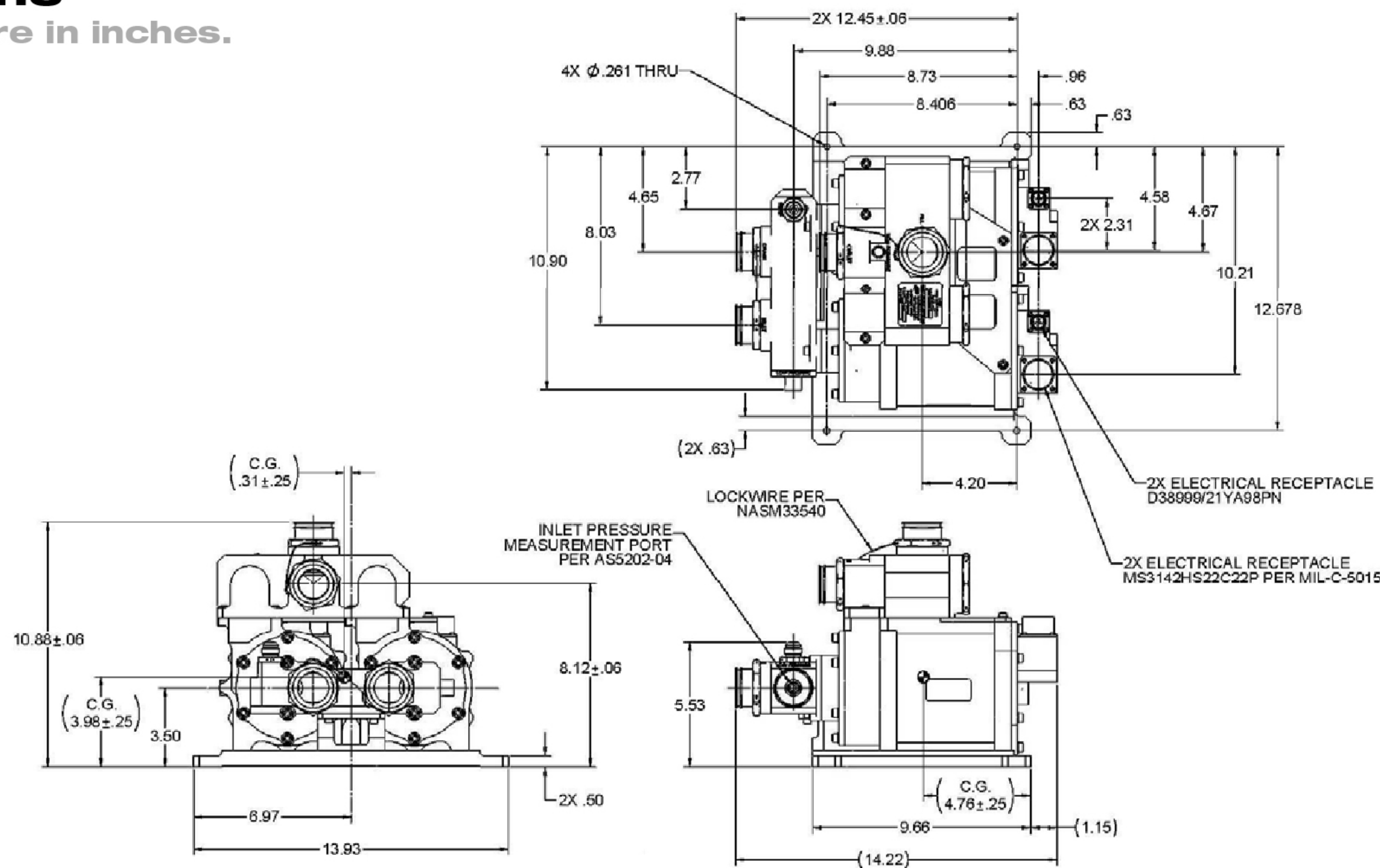
Coolant Pump
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Performance Graph



Dimensions

Dimensions are in inches.





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