



AMETEK®

PACIFIC DESIGN TECHNOLOGIES, INC.

Thermal Management Solutions

Model 5979 Lube and Scavenge Pump

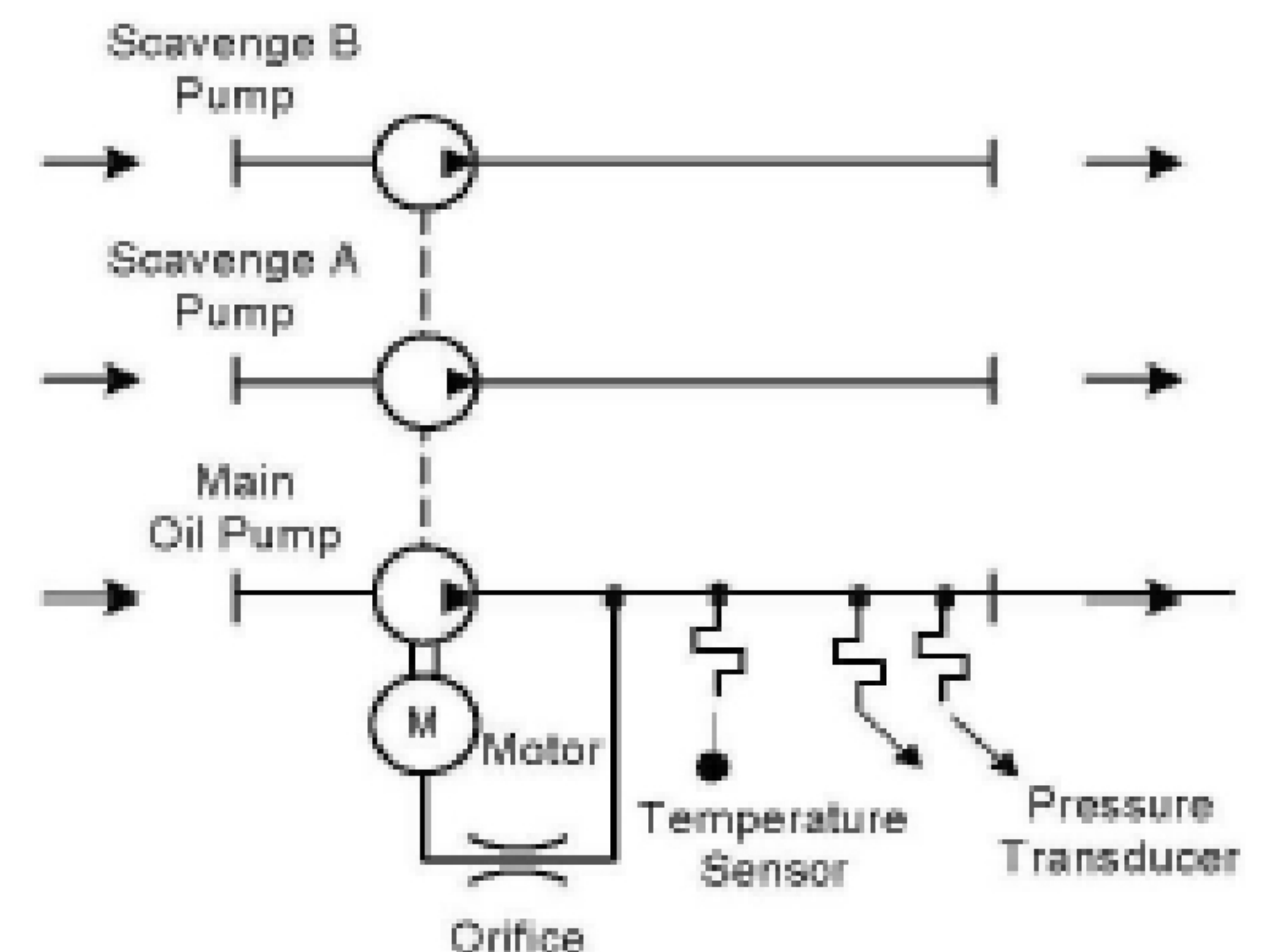
Datasheet



Lube and Scavenge Pump PDT Model 5979



Hydraulic Schematic



Description

PDT Model 5979 is designed for operation on a next generation helicopter gas turbine engine. The pump consists of three high efficiency positive displacement gerotor pumps on a common shaft driven by a single 200 VDC brushless motor. One main (lube) element and two scavenge elements are provided. The pump shaft is supported by bronze-based journal bearings, which are lubricated and cooled by the working fluid. The main oil pump is fitted with a temperature sensor and two pressure sensors on the outlet side of the pump.

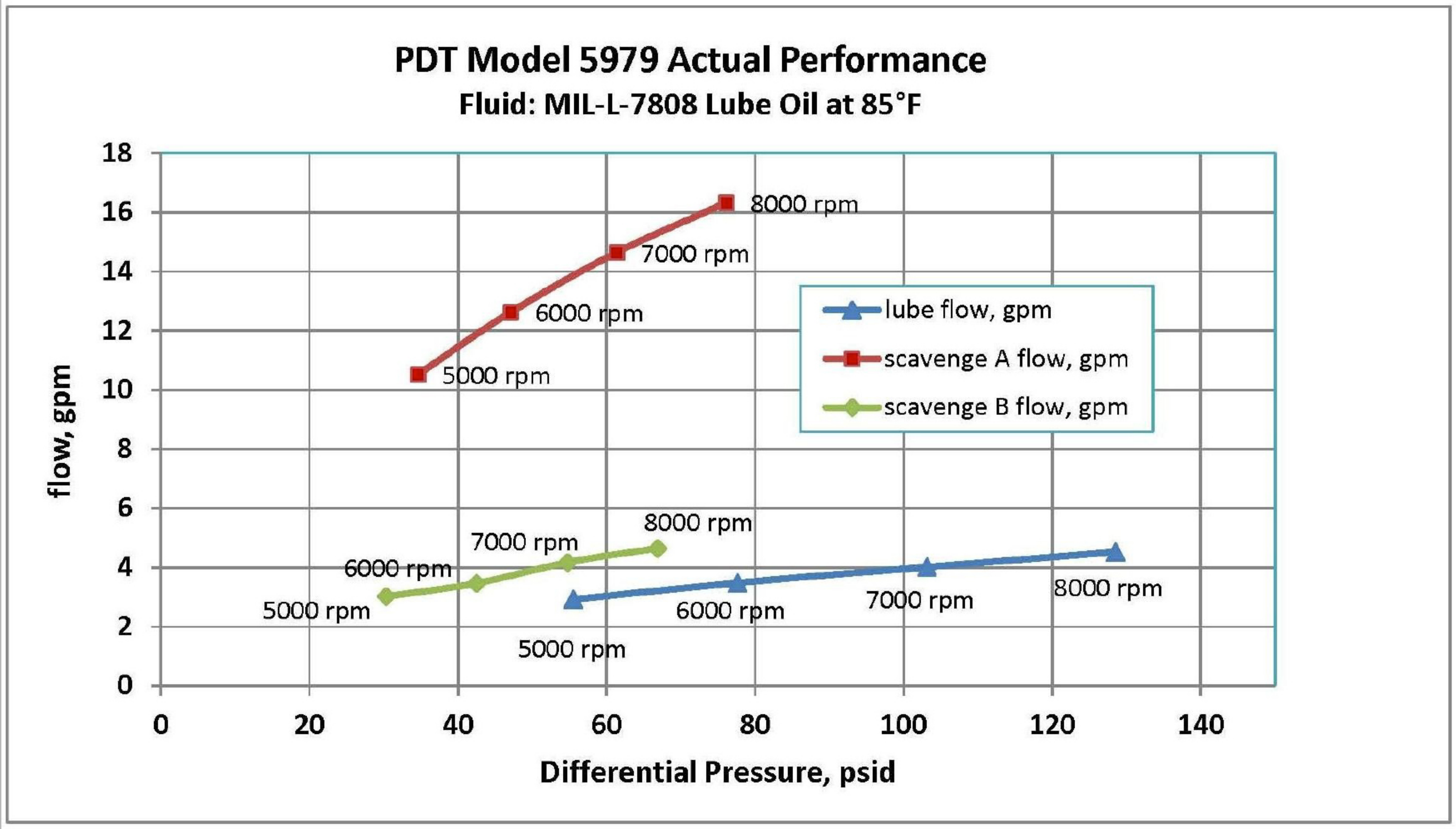
Specification

Pump Parameters

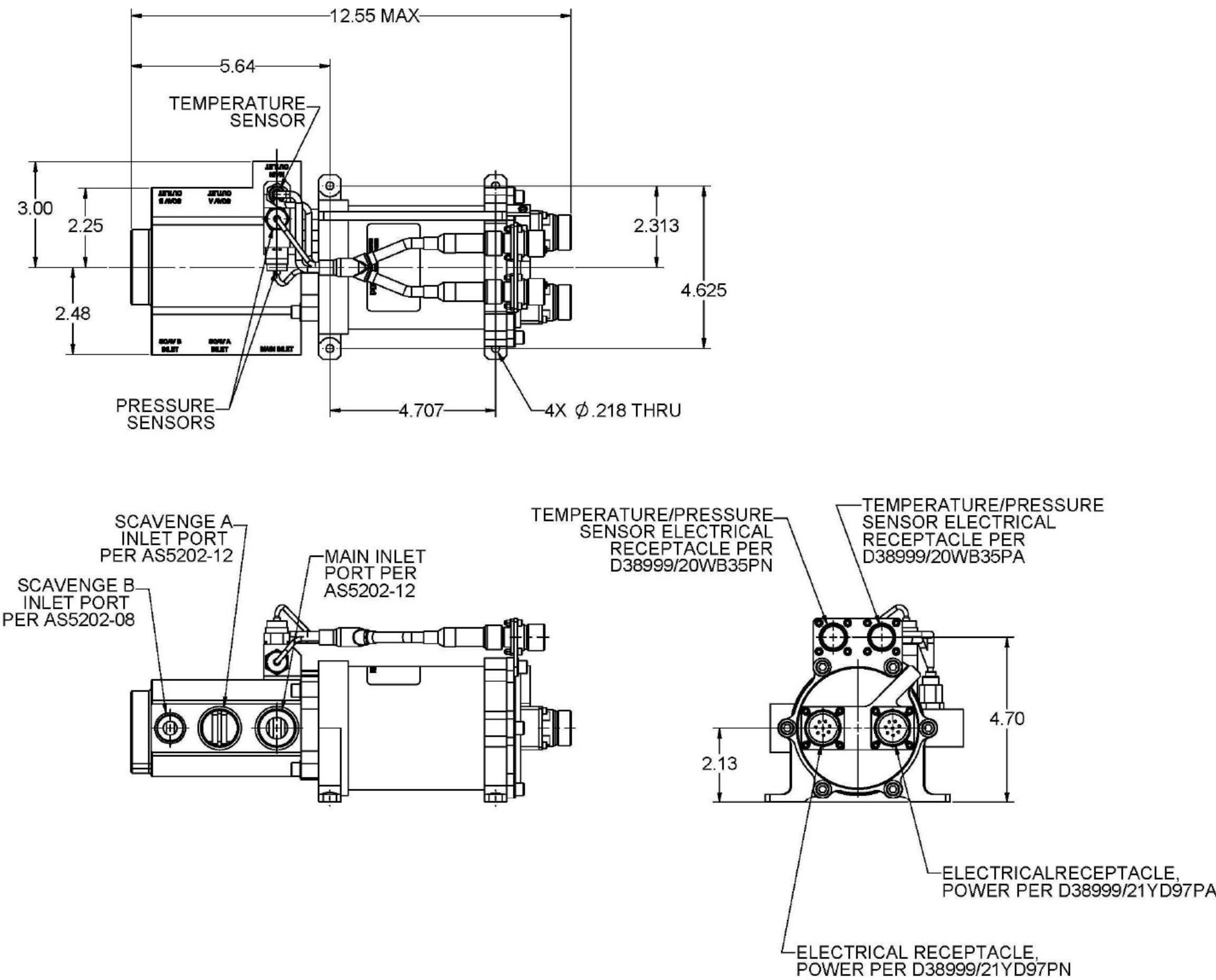
Fluids:	Oil per MIL-L-7808 or MIL-L-23699
Flow (@ 75°F):	Lube: 4.5 gpm @ 130 psid Scavenge A: 16 gpm @ 65 psid Scavenge B: 4.5 gpm @ 65 psid
Temperature:	Operating: -65°F to 250°F
Pressure:	Proof: 570 psig Burst: 760 psig
Dry Weight:	15.5 lbs max (dry)
Motor:	Brushless D.C. Dual (redundant) stator windings Hall-Effect position sensors 330 VDC maximum excitation 200 VDC nominal excitation

Lube and Scavenge Pump
PDT Model 5979

Performance Graph



Outline
Dimensions are in inches.





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Our people are part of our product.