



AMETEK[®]

PACIFIC DESIGN TECHNOLOGIES, INC.

Thermal Management Solutions

**Model 5152-3 & Model 5061-2 Fuel Pump
Datasheet**

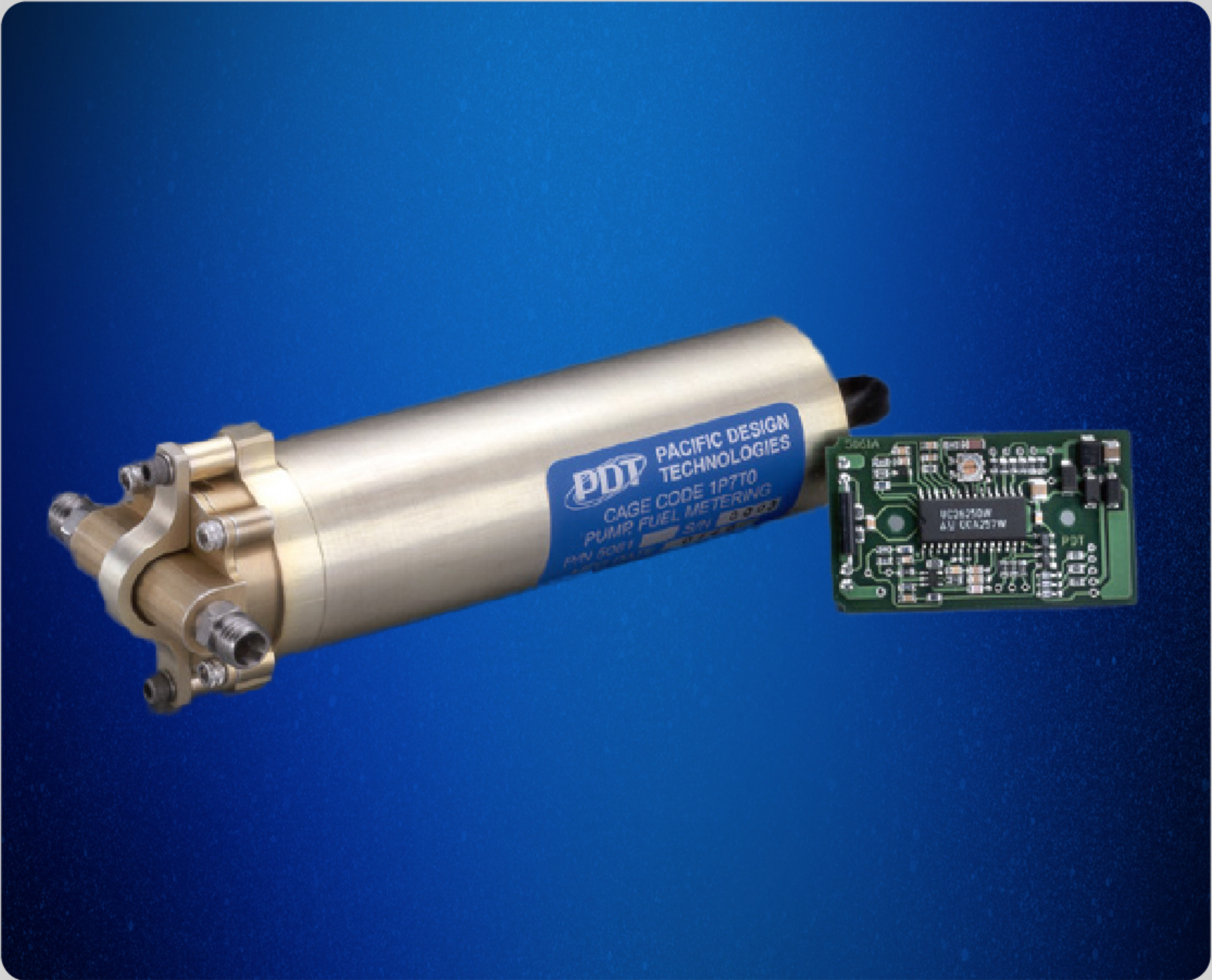


Fuel Pump

PDT Model 5152-3



PDT Model 5061-2



Description

The PDT Model 5061-2 and 5152-3 fuel metering pumps provide variable fuel flow rates suitable for today’s class of micro-turbine engines. The integral motor controller can provide a pump speed control range of 20:1. This eliminates the need for a separate fuel flow control system. The surface mount technology utilized within the controller processes the analog input drive signal to regulate the motor speed. The motor is direct coupled to the positive pump resulting in the capability of a 20:1 flow range. A variety of pump heads and speed control interface circuits are available. The micro turbine engine is part of the propulsion system for a family of robotic munitions intended for use by the United States military.

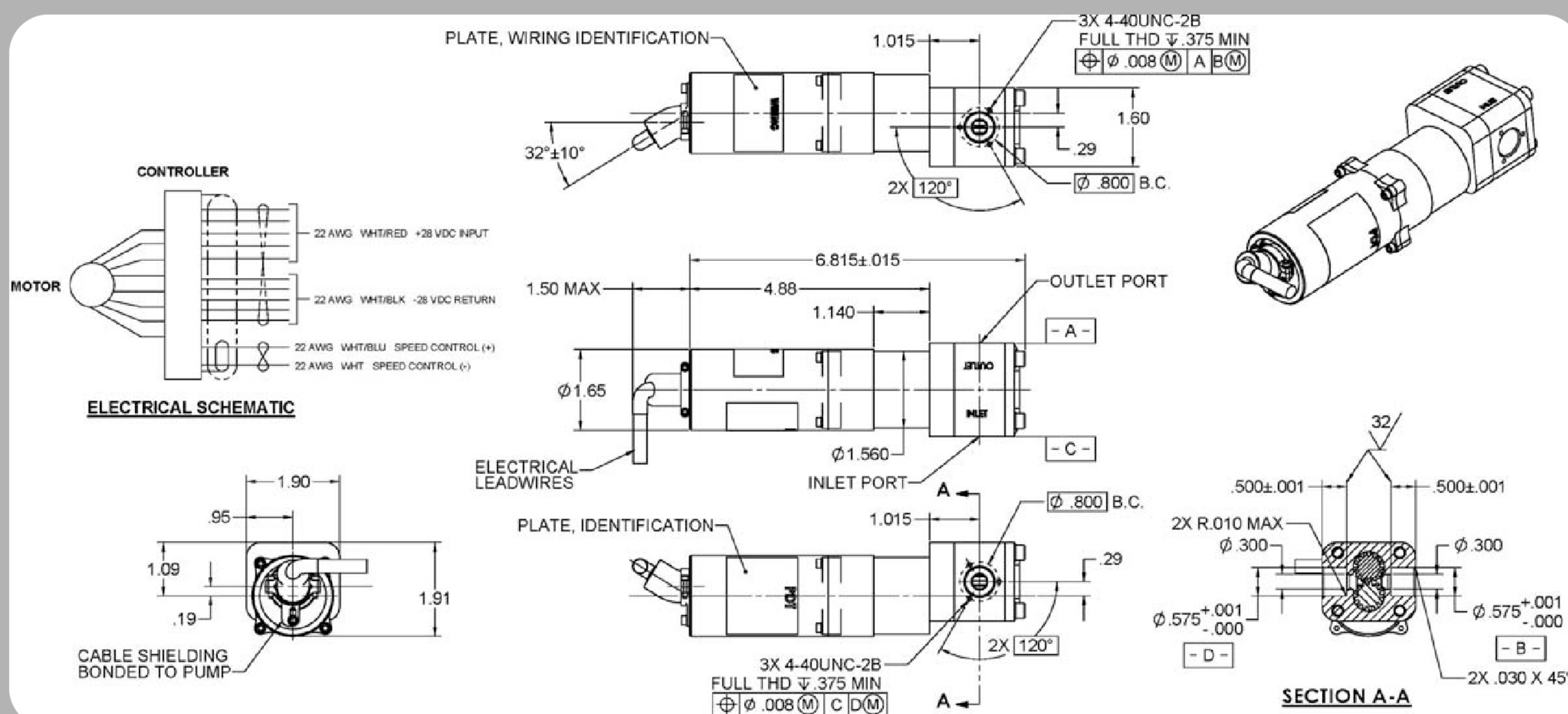
Specification

PDT Model 5061-2	Fluid:	JP-10 per MIL-P-87107
	Flowrate (Variable):	5 pph (.01 gpm) @ 5 psid to 50 pph (.11 gpm) @ 90 psid;
	Rated Conditions:	+70°F ± 10°F (S.G.=.935)
	Operating Temperature:	-65°F to 185°F
	Inlet Pressure:	3.5 to 15 psia
	Input Power:	28vdc
	Speed Control Input:	0-10vdc
	Dry Weight:	0.5 lbs. (max)
PDT Model 5052-3	Fluid:	JP-10 per MIL-P-87107
	Flowrate (Variable):	20 pph (.04gpm) @ 5 psid to 340 pph (.68gpm) @ 300 psid
	Rated Conditions:	80°F ± 5°F, (S.G. = 0.93)
	Operating Temperature:	-60°F to 165°F
	Inlet Pressure:	9.7 psia to 10 psig
	Input Power:	28 vdc / 11 amps at max flowrate
	Speed Control Input:	0.7 - 12 vdc
	Dry Weight:	2.2 lbs. max

Fuel Pump

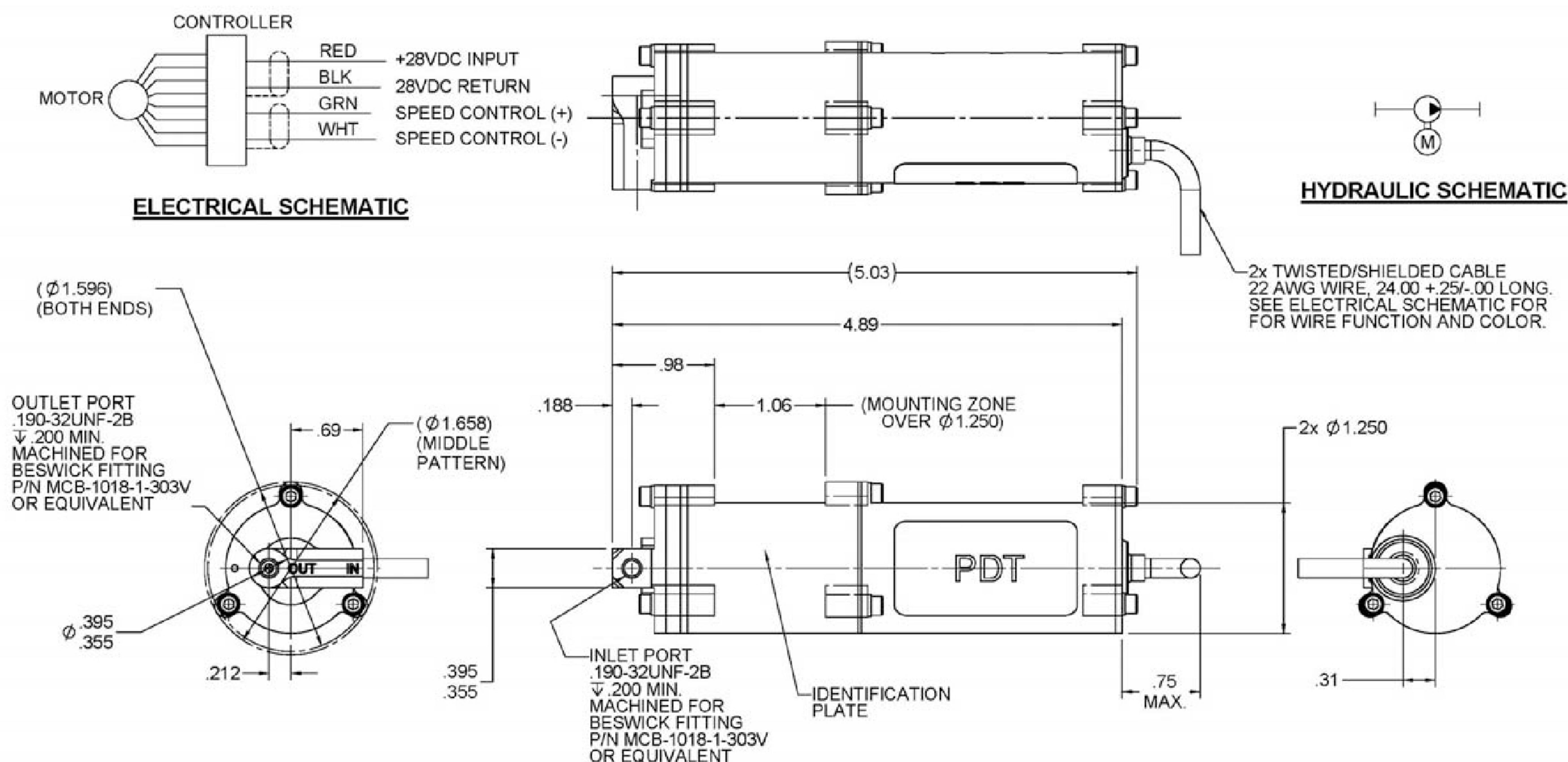
PDT Model 5152-3 & 5061-2

Performance Graph



Outline

Dimensions are in inches.





PACIFIC DESIGN TECHNOLOGIES, INC.
59 South La Patera Ln., Goleta, CA 93117
Phone 805-961-9110 • Fax 805-961-9120
Email info.pd-tech@ametek.com
www.pd-tech.com

Our people are part of our product.