

Mission Critical Applications

SPACE-QUALIFIED
THERMAL MANAGEMENT SOLUTIONS

Thermal Valves & Actuators

INFINITE LIFE

NO PERFORMANCE DRIFT OVER TIME

HIGH FORCE OUTPUT

IMPERVIOUS TO TEMPERATURE AND PRESSURE EXTREMES





Thermal Valves / Actuators - Matrix detailing range of capabilities (designed or quoted)

Low Temperature Capabilities (Nominal Ranges):

	Operating Temperature Range	Actuation (melting) Temperature Range	Actuation Force (lb.)	Axial Stroke (Reference) (inch)	Typical Expansion Media	Typical Dimensions (inch)
Small	From Cryogenic to 400° F	Target Temperature +/- 10° F	30	0.2	Wax Water Thermal Oil	0.8" diameter/ 1.0" long
Medium			60	0.5		1.5" diameter/ 3.0" long
			Large	100		1

(Note: Values above can vary based on envelope and configuration)

Additional Capabilities

- Life Cycles: over 1,000,000 cycles
- Active or Passive Control
- Zero Degradation in Performance
- No Elastomers
- No Particle Generation
- Hermetically Sealed
- No Leakage of Expansion Media



Sample Applications:

- Thermal Bypass Valve With Pressure Relief for Hydraulic or Coolant System
- Heat Exchanger Thermal Actuator
- Safety Release Latch Actuator
- Hydraulic and Coolant System Thermal Valves

We provide engineered solutions for all of your mission-critical fluid handling, thermal management and actuation needs.

● **LET'S TALK!**

For any questions or to engage with our technical team, please contact us at

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