

# SHERWIN VALVE



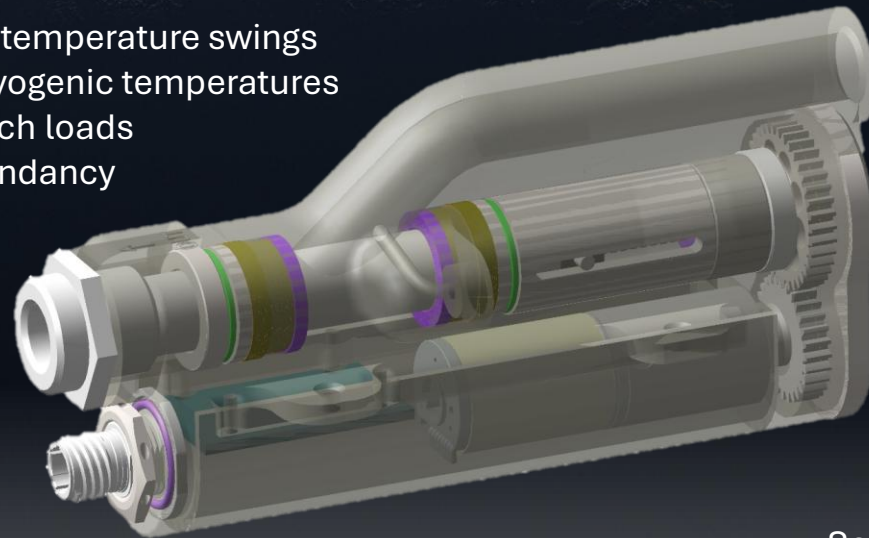
Fast-Acting, High-Pressure Servo Valve with Zero Leaks

**Patented zero leak metallic seals:**

- Increased resistance to FOD
- Increased tolerance to rapid temperature swings
- Improved performance at cryogenic temperatures
- Increased resistance to launch loads
- Built-in seal multi-layer redundancy
- Increased lifetime

Significant flexibility in component materials and working fluids

Casted valve body, optimized for low mass and volume; optional built-in integration fixtures



Feasibility for rapid delivery and customization

Ultra high-pressure design enables greater propulsion system efficiencies

High precision, efficient servo stack for flow control

Self-locking mechanism holds position without power

Software-operated precision control; programmable fail-safe positioning

Leak Rate	< 10 <sup>-8</sup> atm cm <sup>3</sup> /s	Working Fluids	Agnostic (Inert Gasses, Hydrazine, LOX, RP-1, etc.)
Open/Close Speed	<12 ms	Material Construction	Agnostic (SS, Ti Variants)
MEOP	>10,000 psi	Inlet/Outlet Diameter	Min ¼"
Operating Temperature	-425 F to 250 F	Type	2-Way, Bi-Directional

See Case Studies at [www.SpacePrecisionSystems.com](http://www.SpacePrecisionSystems.com)