

Zero-Leak Flow Control Valve

The Sherwin Valve

FLUID AGNOSTIC

CRYOGENIC
PERFORMANCE

ULTRA-HIGH
MEOP

LEAK RESISTANT

WHY USE THE SHERWIN VALVE

- 01 Our differentiator is our **patented metallic seals** with resistance to:
- ✓ tears from debris (FOD) in the feed system
 - ✓ gaps between the seal and valve body from rapid thermal changes
 - ✓ cracks from cryogenic temperatures
 - ✓ corrosive fuels (i.e., hydrazine)
 - ✓ leaks and other failures from launch loads

- 02 **Leaks are expensive.** Leaks cause huge costs associated with ground testing, schedule delays, component redundancies, personnel safety, catastrophic vehicle failure, and mission loss.

- 03 Our team can build custom valves in **accelerated timeframes**. We are deeply committed to on-time delivery and proactive communication during often complex co-development cycles.

Pending specifications, SPS can deliver an EM in under 12 months, and **flight-ready hardware** in under 18 months.



Type	2-Way, Bi-Directional, Servo
Operating Pressure	120 psi – 80,000 psi
Operating Temperature	-425 °F – +250 °F
Flow Rate	Configurable
External Leak Rate	$<10^{-8} \text{ atm} \cdot \text{cm}^3 / \text{s}$
Open/Close Time	12 ms
Minimum Diameter	1/4" (No Design Maximum)