






BELLOWS SEAL GLOBE VALVE BENEFITS

-  **REDUCED HEAT LEAK**
Enhanced engineered design offers best-in-class heat transfer, greatly reducing Hydrogen loss.
-  **IMPROVED CV**
Innovative valve internals (standard and jacketed designs) deliver improved CV in your application, improving liquid transfer times.
-  **IN-LINE REPAIR**
Unique cartridge replacement system allows for in-line repair, solving the toughest challenges with minimal down-time.

CRANE CRYOFLO® vs Competition Cost Savings Per Year

Model represents the typical liquid hydrogen storage transfer cost and product loss based on a 1.5" BSGV, 4 hours of tank transfer per day with 2 valves involved in each tank transfer assuming a base LH2 price of \$9.00/kg.

TYPICAL
Cost/Year
\$150,000

In Media loss and liquid transfer



TYPICAL SOLUTIONS



CURRENT BEST-IN-CLASS



CRANE CRYOFLO® ADVANTAGE

NEW!
CRANE CRYOFLO®
Savings/Year
\$24,000/tank

Improves CV and heat transfer for enhanced flow & media containment

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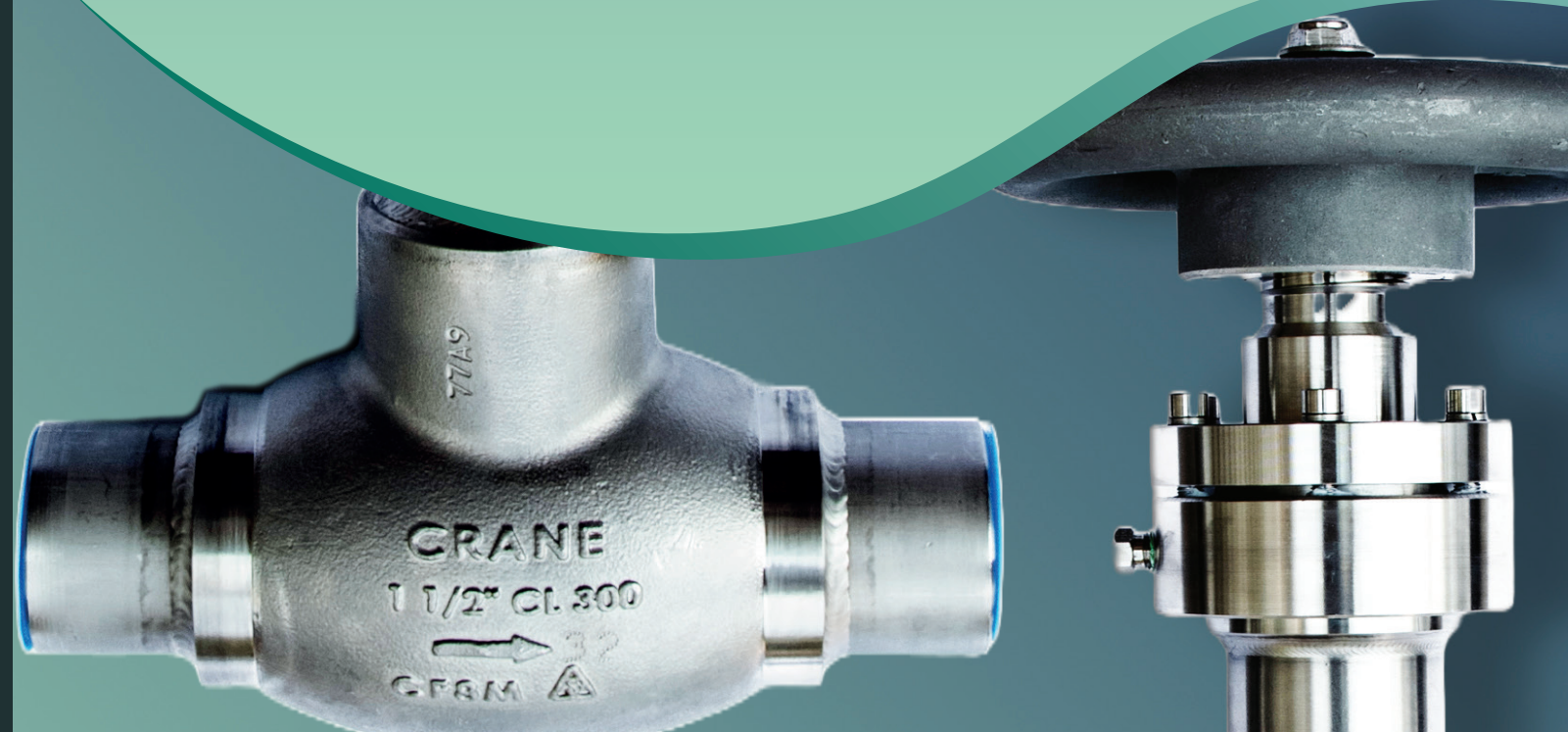
CRYOFLO[®] H₂

Keeping Cryogenics Cool

CRYOFLO[®] Liquid Hydrogen Bellows Seal Globe Valve

PIPE, VALVE, AND FITTINGS
SOLUTIONS FOR HYDROGEN

www.cranecryoflo.com



CRANE CRYOFLO® BELLOWS SEAL T-GLOBE

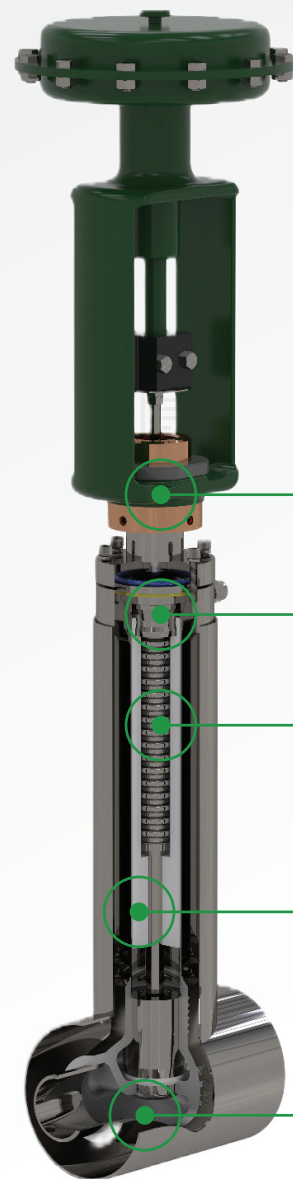
CRANE CRYOFLO® Bellows Seal T-Globe Valves stop Hydrogen loss by minimizing heat transfer rates, reducing pipeline latency in liquid transfer applications and leveraging bellows zero-leak design.

CRANE CRYOFLO® BELLOWS SEAL Y-GLOBE

CRANE CRYOFLO® Y-Pattern Bellows Seal Globe Valve features lower pressure drop, tight shut-off, and enhanced durability, all contributing to overall improved efficiencies.

- ✓ **Size Range**
 - ½" to 6" NPS
- ✓ **Pressure Ratings**
 - 300 psi MAWP
- ✓ **Assembly Configurations**
 - Vacuum Jacketed and Non-Jacketed
 - Extended bonnet/stem per MSS-SP-134
 - Custom extended bonnets/stems available
 - Cold-box Cuff option
- ✓ **Typical Applications**
 - Production, transportation, transfer, and storage of Hydrogen and other cryogenics.

**Technical details applicable to both valves.*



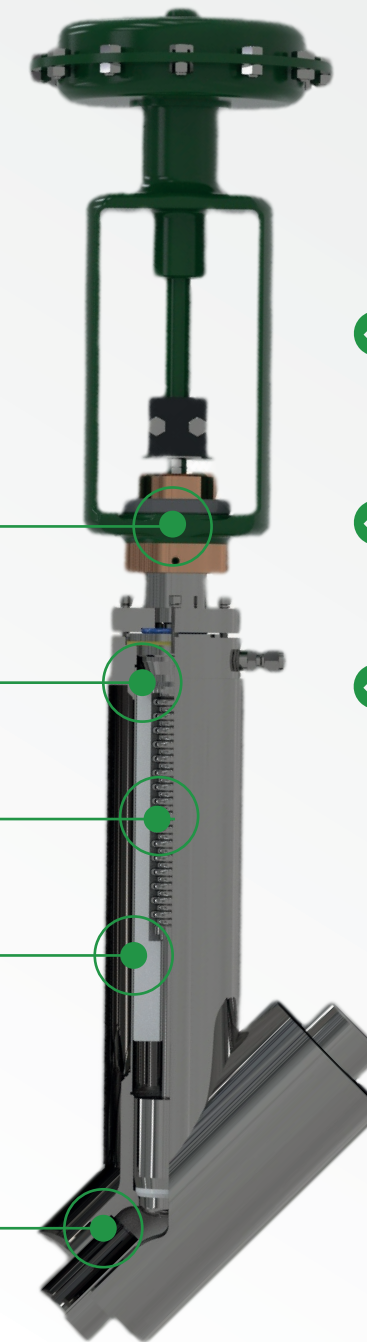
Easily convert from manual handwheel to actuation.

Unique cartridge replacement system for efficient in-line maintenance

Proven bellows design for high life cycle

Vacuum barrier and Improved design minimizes heat leak and media boil-off.

Innovative valve internals deliver improved CV while maintaining highest industry bubble-tight shut-off standards.



- ✓ **Operating Option**
 - Handwheel
 - Pneumatic Actuation
 - Electric Actuation
- ✓ **End Connection**
 - Pipe stub ends
 - Butt-weld
- ✓ **Compliance**
 - MSS-SP-134
 - ISO 15848
 - Fire Safe Design
 - Oxygen clean option per CGA G-4.1

**Technical details applicable to both valves.*

Designed for LH2 and other key industrial gases such as LIN, LOX, LAR, LHe, and LNG. Rated to -253°C (-423°F)

Targeting 6-8 week lead times for standard configurations.

Learn More Here:

