

CRANE®

CRYOFLO^{H₂}

Keeping Cryogenics Cool

CONTACT US

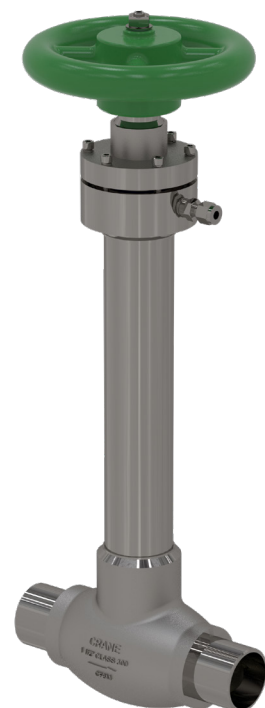


NEW! CRANE CRYOFLO™ Liquid Hydrogen Bellows Seal Globe Valve

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

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

Designed for LH2 and other key industrial gases such as LIN, LOX, LAR, LHe, and LNG. Rated to -269°C (-452.2°F)



CRANE®

 www.cranecpe.com

CRYOFLO™ Cryogenic Bellows Seal Globe Valve (BSGV)

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

Operating Options

- Manual
- Linear Actuation
- Pneumatic Actuation

End Connections

- Pipe stub ends
- Butt-weld

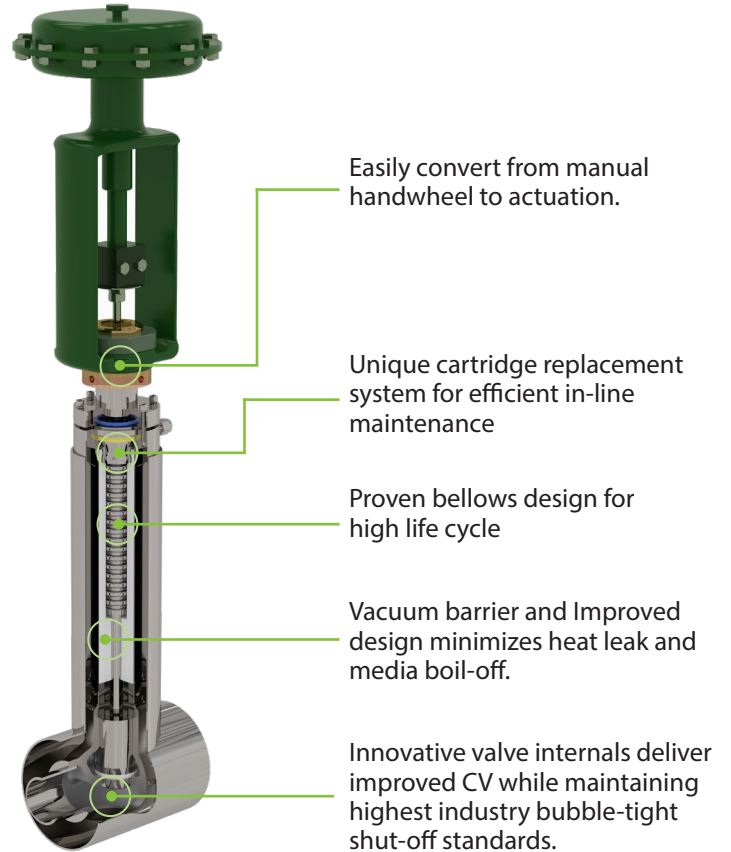
Compliance

- MSS-SP-134
- ISO 15848
- Fire Safe
- Oxygen cleaned per CGA G-4.1 and EIGA Doc200

Typical Applications

- Production, transportation, transfer, and storage of Hydrogen and other cryogenics.

JACKETED BSGV FEATURES



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.

CRANE CRYOFLO™ vs. competition cost saving 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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