

A.E.V

MADE IN BELGIUM

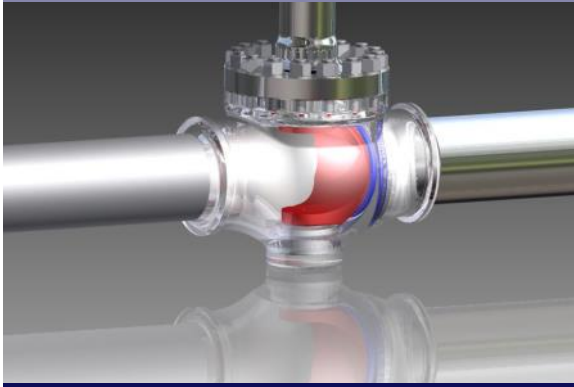
The LNG Specialists

Best in class cryogenic ball valve



Cavity free · Inherently bidirectional · Ultra safe · Top entry

Advanced Engineering Valves



cavity free design

Cryogenic Valve Solutions

- LNG Liquefaction Terminals
- LNG Regasification Terminals
- Peak Shaving Plants
- LNG Bunkering
- FSRU
- FLNG
- LNG Fueling
- LNG Ships
- Gas Fractionation Plants
- Ethylene Storage
- Rocket Engine Testing
- Air Separation
- Emergency Shutdown



Advanced Engineering Valves developed the double eccentric "C" ball valve, **²XC_{TM}** to revolutionize the cryogenic ball valve market for LNG. Revolutionary improvement in safety combines with enhanced performance for the best in class cryogenic ball valve.

The "C" shaped ball eliminates the ball cavity and the risk associated with the expansion of contained liquefied hydrocarbons. Cavity free design is inherently bidirectional.

Torque seating combines with advanced seat design to deliver assured mechanical sealing one full order of magnitude better than prevailing industry standard (BS6364).

Double Eccentric design is friction free reducing wear and eliminating start up damage.

Solutions for your application needs

Engineering a total end to end solution

Cryogenic Ball Valves Hydrocarbon Service

Cryogenic isolation of liquefied hydrocarbons requires safely addressing the ball cavity, long lasting bidirectional tight shutoff, resistance to wear, and the ability to meet 21st Century emission standards.

Only **Advanced Engineering Valves ²XC_{TM}** meets all of these challenges.

- Cavity free means safe and inherently bidirectional,
- Advanced DC-S "DUAL CONTACT" seat Zero Leakage ambient, 1/10th BS6364 at cryogenic temperatures
- Full encapsulation of PCTFE seat in stainless steel protects seat from explosive failure
- True torque seating without springs to energize seat
- Modern top entry design reduces weight by up to 30%
- Friction free rotation eliminates wear
- Ultra low emission packing system meets regulatory requirements
- Standard quarter turn action eliminates proprietary actuators

Custom Automation

Valves are automated and tested in-house for functionality and performance. Custom control panels meet user requirements and specifications. Full documentation including general arrangement drawings and schematic.

Quality Assurance

Project Management and Project Administration teams dedicated to each contract. Each contract under individual Inspection and Test Plan (ITP). EPC friendly execution of QA/QC and documentation.

State of the Art Design & Test

Latest 3D design tools, FEA analysis and software from our experienced engineering team designs quality in from inception. State of the art test facilities confirm performance. In-house cryogenic testing to 42”.



Advanced Engineering Valves

Formed to revolutionize the supply of valves to the LNG Terminal, LNG Ship, Gas Processing and Severe Service Markets. Innovative products combine with 21st Century engineering /design and modern manufacturing methods to enable a new generation valve manufacturer.

Building Partnerships Globally

Advanced Engineering Valves' product performance and project execution has generated rapid acceptance amongst the leading EPC and Energy firms building tomorrow's energy infrastructure. Global support available through our technical sales representatives. Full references and prequalification available upon request. Advanced Engineering is the best partner for a successful project.



Double Eccentric · Torque Seated · C Ball

2XC™



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