

A.E.V

MADE IN BELGIUM

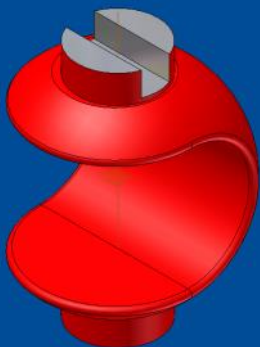
The Future of Dehydration

Low emission switching valves



Non rising stem · Torque seated · Bidirectional · Zero leakage

Advanced Engineering Valves



Severe Service Solutions

- MOLE SIEVE SWITCH
- LNG
- ROCKET ENGINE TEST
- PTA
- OIL SANDS
- POLYSILICON
- COAL GASIFICATION
- CATALYST HANDLING
- POLYMERS
- MOLTEN SALT
- LETHAL SERVICE
- OIL & GAS PRODUCTION
- EMERGENCY SHUTDOWN



ADVANCED ENGINEERING VALVES developed the double eccentric "C" ball valve to meet 21st Century regulatory emission requirements that cannot be reached with rising stem ball valves. Featuring performance and reliability without compromise, the **²XC_{TM}** is the future of Mole Sieve Switching Valves.

Double Eccentric design offers low friction and mechanically assured shutoff through torque seating. Wear is minimized by removal of friction and avoiding compression of particulate. Seat design is optimized for handling abrasive and erosive dust found in molecular sieve systems.

The "C" shaped ball eliminates the ball cavity. Valve is inherently bidirectional without cavity relief. Open architecture of the "C" shaped ball allows for 100% hard coating without seams or weak spots for maximum wear resistance.

Solutions for your application needs

ENGINEERING A TOTAL END TO END SOLUTION

MOLE SIEVE SWITCHING

MOLE SIEVE SWITCHING requires long lasting bidirectional tight shutoff, resistance to abrasive/erosive wear, resistance to thermal cycling and ability to meet 21st Century Emission Standards.

Only **ADVANCED ENGINEERING VALVES ²XC_{TM}** meets all of these challenges.

- Zero Leakage on gas service metal to metal with advanced SCB-S "REFLEX" seat
- Single seat, cavity free design is inherently bidirectional
- Friction free rotation reduces wear
- Torque seating for mechanically assured shutoff
- Chrome Carbide 100% coated ball ideal for erosive wear resistance and thermal cycle
- Regulatory low emission requirements met with true rotary design, stainless steel stem and live loaded packing system
- Quarter turn motion eliminates proprietary actuator designs

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

Latest 3D Design tools, FEA analysis and Software Tools 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

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 *TM*



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