AEV™ C-Ball Valves

Superior valve technology for molecular sieve switching applications

Using rising stem designed valves for switching on molecular sieves presents a real challenge with seat wear and leakage coupled with the ongoing maintenance required to meet stringent regulatory emission requirements. There must be a better solution.

Thermal cycling can impact valve operation and cause **jamming**, with the presence of abrasive and erosive particles **fouling** the valve resulting in **reduced capacity**.

Traditional designs rely on system pressure for a tight shut off which means **leakage issues** can occur **at low pressure differentials** and they do not provide reliable bidirectional shut-off.

Rising stem valves have up to **100x the emissions** of quarter turn valves* requiring continuous, ongoing maintenance and repair in order to stay within **stringent regulatory emission requirements**.

Traditional concentric valve designs create high friction movement when closing, which results in **greater seat wear and less reliable shutoff**; making the valve more susceptible to damage from particles.

* Per OREDA project

What if you could solve these challenges with a single valve?

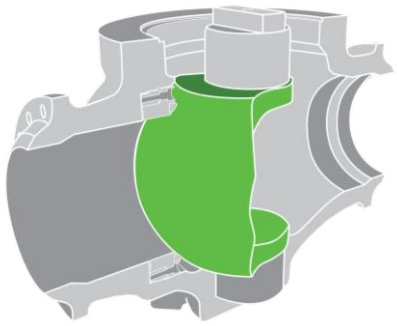
Now you can with the
AEV ²XC Severe Service C-Ball Valve

AEV™

AEV™ C-Ball Valves

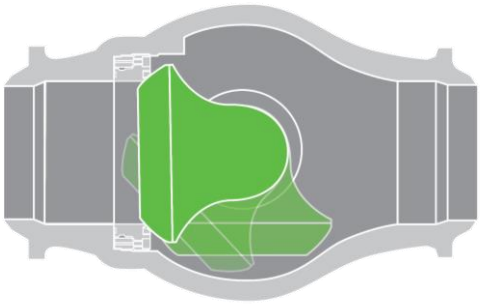
Turn your most persistent challenges into ROI positive solutions with revolutionary, proven valve technology.

Reduce valve maintenance costs



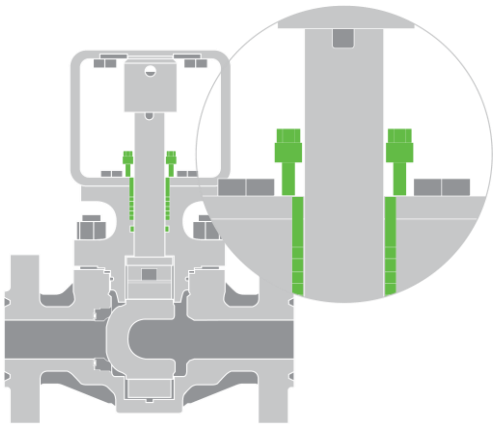
Deploy a modern design with a single fixed seat that completely eliminates the cavity found in traditional ball valves. With no cavity for material to accumulate and foul the seat, the ²XC is ideal for bidirectional shut-off delivering a safer and simplified solution to your molecular sieve isolation challenges.

Improve the profitability of your operations



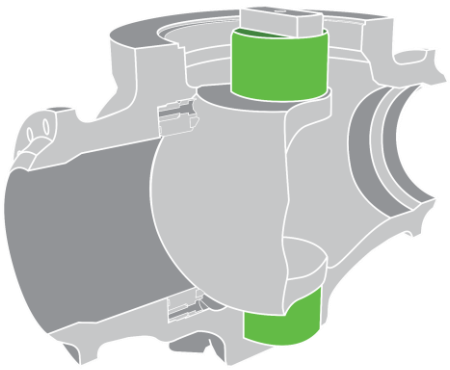
Run your process for longer with a double offset C-ball design that enables non rubbing rotation to eliminate wear and extend maintenance intervals. The convex to convex seat is designed to "sweep" particles off the sealing surface without damage, making it ideal for abrasive service which means low wear and long-lasting tight shutoff.

Meet regulatory emissions levels for the long term



Be confident that your valves meet regulatory emissions levels on a long-term basis without the need for maintenance or intervention. The true quarter turn design and advanced high temperature, live loaded packing is self-adjusting for long-lived, ultra-low emissions.

Optimize the total installed cost of your valves



Reduce service disruptions with an unbroken coating of ball surface providing a high level of protection on erosive service, and massive trunnions to reduce wear on mechanical parts and preserve packing integrity on high cycle applications. And if maintenance is required, the ²XC features a true top entry design with minimal parts for rapid in-line maintenance.

EMERSON™