

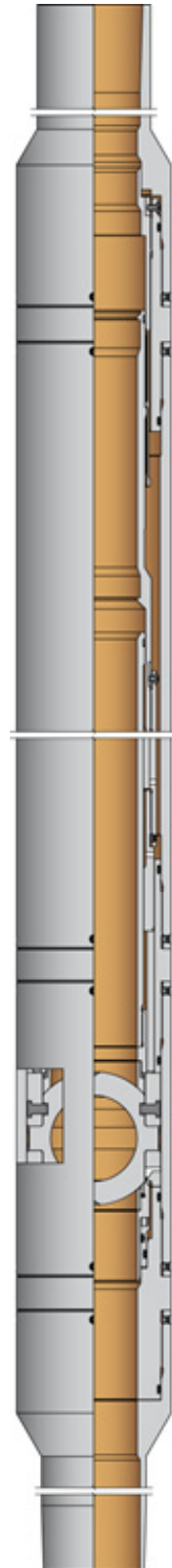
Reclosable Mechanical Well Barrier Valve (X-MBV)

Superior's Reclosable Mechanical Barrier Valve (X-MBV) has been certified for service according to API-19V as a Type-CC V1 grade temporary well barrier.

The ridged frame is well-suited for harsh downhole environments. The debris tolerant mechanism has been configured for long-term reliable service in various well conditions. In addition, the distance between the ball and the shift open profile is customizable, per the operator's well completion configuration.

The axial-support, cam-driven mechanism has successfully functioned closed under massive fluid loss situations and opened with above and below ball differentials. The exterior frame design incorporates safety and temperature factors to qualify the assembly as a temporary barrier. Pressure-assisted inert seals enhance integrity in low pressure gas wells while maintaining positive assurance at higher differentials.

A multi-action, soft-release, basket-style collet shifting tool is utilized for valve operations during the well construction phase: delivering a positive mechanical engagement while mechanically functioning under extreme fluid loss conditions. A hydraulic-actuated, shifting tool is utilized to open or close the ball valve in production setting. The slim-factor tool design is adequate for production accessory entry while maintaining a positive engagement during contingency operation.



Features and Benefits

- Ratings
 - 10,000 psi differential burst and collapse rated body
 - 5,000 psi differential burst and collapse rated ball
 - Certified as per API-19V Type-CC to V1
 - 8.190" max OD x 4.560" min ID
- Debris tolerant
 - Actuation mechanism shielded from internal debris
 - Customizable length enhances functionality
- Shifting tools
 - Mechanical - multi-action, soft-release basket style collet
 - Hydraulic - pressure actuated coiled tubing shifting tools
- Certified barrier valve
 - Zonal isolation valve
 - Barrier valve for well completion and abandonments
- Permit full bore ID from sandface to enhance production and unrestricted access
- Multiple mechanical open and close cycles
- Bi-directional fluid loss control valve

Reclosable Barrier Valves

TECHNICAL DATA

Pressure rating across ball 5,000 psi (34.5 MPa), 7,500 psi (51.71 MPa)
 Pressure rating across housing 10,000 psi (68.9 MPa)

Reclosable Well Barrier Valves									
Tubing Size		Maximum OD		Minimum ID		Thread Connection		Tensile Rating	
inch	mm	inch	mm	inch	mm	inch	mm	lb	kg
5 ½	139.70	8.19	208.0	4.560	115.82	5 ½	139.70	600,000	272,155

Premium metallurgies available upon request.