



FORTRESS

Isolation Valve

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Schlumberger isolation valves safeguard reservoirs by providing a reliable, interventionless barrier between the upper and lower completions and containing fluids during completion and workover operations.



Our isolation valves have continually set the standard for barrier valve performance and reliability. We wanted to take field performance of a new design to a higher level. Based on customer feedback and our experience and field tests, we undertook extensive studies to understand the effects of debris accumulation and the relationship of debris to the actuation pressures required to remotely activate the valves.

The result was the FORTRESS* isolation valve, a bidirectional barrier valve that accommodates all deepwater and other debris-laden environments, as well as openhole and cased hole sand control operations, where debris tends to accumulate and actuation requires more force.

It is especially suited for all isolation requirements, including intelligent, multizone, gravel-pack, frac-pack, and stand-alone screen completions; well suspensions; temporary well abandonment; and remedial workovers.

More debris tolerance

Numerous design features enhance the valve's tolerance to debris, including a full ball, fewer void spaces, and a shifting profile. These features minimize gaps where debris tends to collect, thereby reducing friction and allowing the valve to open under higher differential pressures—up to 4,500 psi.

More available energy for remote activation

This versatile valve—based on Schlumberger's industry-leading track record and extensive testing—minimizes the energy lost to frictional effects and the shifting force variability caused by debris. It also optimizes the energy available for activation in wells with high differential pressures.

Exceeding the standard

During development, the FORTRESS valve underwent more stringent debris and validation testing than any other barrier valve on the market. The valve is qualified to bubble-tight conditions and meets or exceeds the ISO 28781 V1 barrier standards, reflecting the valve's high reliability.

>>>>> Predictable, consistent, reliable

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Schlumberger isolation valves have led the industry since 1996. Our track record, design expertise, and extensive testing have culminated in the newest addition to the family: the highly reliable FORTRESS isolation valve, designed to withstand severe debris environments and optimize available actuation energy—predictably, consistently, and reliably.



Confidence in Completions

www.slb.com/fortress

Schlumberger