

XLO-R-B Barrier Series Gas Lift Valves

Rupture-disk, orifice valves for high-pressure operations

APPLICATIONS

- Subsea gas lift installations
- High-pressure, high-injection-rate gas lift installations
- High-performance gas lift installations
- Completions in which flow through the orifice valve is not immediately required

BENEFITS

- Enhanced safety as wellbore integrity is ensured during shut-in periods
- Reduced downtime with reliable performance in deepwater, high-pressure environments
- Increased operating pressure envelope for deeper gas injection
- Reduced costs with elimination of slick-line intervention

FEATURES

- Reliable, retrievable gas lift valve design using field-proven technology
- ISO 17078-2 V1 standard qualification
- Integral burst-disk pressure barrier
- Subsurface-actuated assembly with no physical link to surface
- Barrier-qualified, reverse-flow check valve system that provides positive seal between tubing and casing annulus

Schlumberger XLO-R-B Barrier Series rupture-disk orifice gas lift valves extend the capability of current gas lift systems by increasing the range of operating pressures from 2,000 to 7,500 psi. Based on field-proven Camco* gas lift technology, this new system enables operators to complete high-pressure gas lift wells and operate with higher injection pressures and deeper injection points and thereby enhance well performance. With higher operating pressures, wells can be completed with fewer mandrels and valves.

During operations, the operator can inject high-pressure gas at greater depths to maximize drawdown and increase production.

High-pressure performance

XLO-R-B Barrier Series valves are part of the XLift* family of high-pressure gas lift valves that operate with higher injection pressures and deeper injection points. The XLift system uses a positive-sealing check system to replace the velocity check valve systems used in traditional gas lift valves.

The XLO-R-B rupture-disk orifice valve is subsurface controlled, with no physical link to the surface. It features a venturi-flow configuration for more efficient and stable gas flow throughout and a positive-sealing check valve that eliminates potential leak paths to the casing/tubing annulus.

The nonfragmenting burst disk in the XLO-R-B valve provides an integral positive-pressure barrier until flow is required. Applied pressure in excess of the burst-disk pressure rating ruptures the disk and allows the valve to operate as a standard orifice venturi gas lift valve. A large 1¾-in OD enhances performance.



XLO-R-B rupture-disk orifice gas lift valve.