

XLO-B

High-Pressure Orifice Gas Lift Valve

APPLICATIONS

- Subsea gas lift installations
- High-pressure deepwater gas lift installations
- High-performance gas lift installations

BENEFITS

- Enhances safety because wellbore integrity is ensured during shut-in periods
- Reduces downtime because of reliable performance in deepwater, high-pressure environments
- Lowers costs because
 - a single valve provides flexible operating ranges over a series of injection pressures
 - no modifications are required to existing completion practices or surface facilities

FEATURES

- 1¾-in OD
- ISO 17078-2 V1 standard qualification
- Reliable, retrievable gas lift valve design using field-proven technology
- Integral latch
- Subsurface-actuated assembly (no linkage to the surface)
- Increased operating pressure envelope for deeper gas injection
- Barrier-qualified reverse-flow check valve system that provides positive seal between tubing and casing annulus

Schlumberger XLO-B Barrier Series high-pressure orifice gas lift valves extend the capability of 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 system enables operators to complete high-pressure gas lift wells and operate with higher injection pressures and deeper injection points than with traditional systems to increase well performance. With higher operating pressures, wells can be completed with fewer mandrels and valves.

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

High-pressure performance

XLO-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 reliable barrier-qualified positive sealing check system to replace the velocity check valve systems used in traditional gas lift valves.

The XLO-B orifice valve is subsurface controlled, with no physical link to the surface. It features a venturi flow configuration for efficient, stable gas flow throughout and a barrier-qualified positive check valve that eliminates potential leak paths to the casing or tubing annulus. The large 1¾-in OD enhances the valve's geometry and performance.

XLO-B Valve Specifications

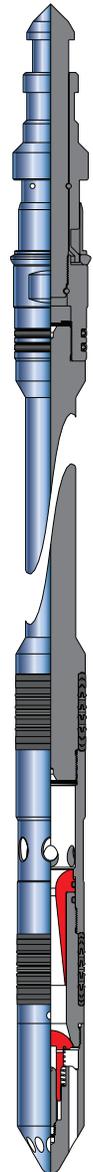
OD (not including latch), in	1.725
Length with latch, in [mm]	34.063 [865]
Check valve test pressure (max. differential), psi [kPa]	10,000 [68,948]
Max. gas injection pressure in annulus (at valve location), psi [kPa]	7,500 [51,711]
Max. temperature, degF [degC]	350 [177]
Min. temperature, degF [degC]	32 [0]
Venturi orifice size range, in	¾ to 3¼

Materials

Body parts	Inconel® 925
O-rings and seals	Viton® with PEEK™ backups
Seat	Tungsten carbide
Packing	Modified Campac carbon and moly-filled Teflon® with PEEK™/Teflon backup and stainless steel retainer ring

Secondary accessories

Running tool	XI 1.75
Pulling tool	2-in JDS type
Mandrel series	XLG



XLO-B high-pressure orifice gas lift valve.

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