

# LV4 Downhole Lubricator Valves

## FEATURES AND BENEFITS

- » Cost savings achieved by reducing the number of well interventions required
- » Metal-to-metal body joints
- » Full bore ID maximizes production and allows unrestricted access to the TRSV
- » Bi-directional sealing mechanism provides a fully tested downhole barrier
- » Provides dropped object protection to TRSV during intervention operations
- » Balanced piston design provides deep-set capability
- » Shrouded ball mechanism provides high debris tolerance
- » Mechanical shifting profile incorporated within design
- » Toolstring shock absorber system protects the sealing system from impact damage
- » Qualified in accordance with ISO 28781/API 19V requirements. API 19V monogram available.

The LV4 lubricator valve is a high-performance, surface-controlled, tubing-retrievable isolation barrier valve that is used as part of a downhole lubricator system. The valve provides a means of isolating well pressure in tubing strings where it has been deployed. Application of hydraulic pressure to the tool via dual control lines will operate the valve open or closed.

Traditionally well intervention string lengths are limited to the length of lubricator that can be stacked on top of the production tree. The addition of a LV4 lubricator valve extends these possibilities by placing the swab valve within the tubing string.

## APPLICATIONS

Typical applications include deployment of long TCP guns/straddle assemblies and bottomhole pressure/temperature instruments.

- » Forms part of a well suspension system in conjunction with the tubing-retrievable safety valve (TRSV)
- » Allows through-tubing deployment of long length assemblies using intervention methods without killing the well



HAL 121923

## OPTIONS

- » Available to suit 9 5/8-in. and 10 3/4-in. casing
- » Ball differential rating up to 10,000 psi (690 bar)
- » Temperature rating to 325°F (162.7°C)

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