

Lubricator Valve

Isolate Pressure or Flow Anywhere in the Tubing String

WellDynamics' lubricator interval control valve (LV-ICV) is a high-performance, remote-controlled, tubing-conveyed downhole lubricator system. The LV-ICV isolates pressure or flow above or below its position in the tubing string.

The LV-ICV can be used in any completion where pressure or flow isolation in the tubing string is required. A typical application is a SmartWell® intelligent completion, where the LV-ICV can be used to control flow into or out of reservoir intervals. The LV-ICV can be controlled by any of WellDynamics' Direct Hydraulics or Digital Hydraulics™ control systems.

The LV-ICV is available in different sizes and materials to suit specific well configurations.

Benefits

- Ensure pressure integrity from above and below the position of the LV-ICV in the tubing string
- Control reservoir intervals without well intervention

Features

- Full-bore ID
- Deep-set capacity
- Minimal moving parts
- High force actuation for both open and close operations

How LV-ICV Works

The LV-ICV incorporates a ball with full open bore ID. Two control lines are connected to the LV, one at each side of the operating piston. Pressure applied to one control line opens the LV, allowing pressure or flow to pass through the ball. Pressure applied to the other control line closes the LV on the valve sealing surface for pressure integrity.

Because the ball seals on the same surface for flow/pressure from above and below, the LV-ICV pressure integrity is fully testable from surface.



LV-ICV Valve

HAL30651

Specifications			
Lubricator Valve	3 1/2-in.	4 1/2-in.	5 1/2-in.
OD (in)	5.930	7.155	8.015
ID (in)	2.890	3.813	4.620
Max Temperature (Deg F)	280	280	280
Max Pressure w/Ball Open (psi)	7,500	7,500	7,500
Max Pressure w/Ball Closed (psi)	5,000	5,000	5,000
Max Hydraulic Chamber Pressure (psi)	7,500	7,500	7,500
Max Unloading Differential Pressure (psi)	1,000	1,000	1,000
Piston Area (in) ²	3.360	3.980	4.670
Total Stroke (in)	2.100	2.510	3.080
Hydraulic Chamber Displacement (in ³)	7.050	10.000	14.400
Internal Flow Area (in ²)	6.560	11.420	16.800
Seal Type	Chemraz®/PEEK®/Viton®	Chemraz®/PEEK®/Viton®	Chemraz®/PEEK®/Viton®

Note

- a) Valve OD will increase if a control line bypass is required
b) Valve is available in various metallurgy

**For more information on any of the details featured here, please email us at
welldynamics@halliburton.com.**

© 2009 Halliburton. All rights reserved. Sales of Halliburton products and services will be in accord solely with the terms and conditions contained in the contract between Halliburton and the customer that is applicable to the sale. H06973 8/09

www.halliburton.com