

# INTERVENTIONLESS SELECTIVE INJECTION VALVE (ILSIV)



**Rated to 5,000 psi Differential Pressure.**



**Rated to 300 F Temperature.**

## OVERVIEW

The Intervention-less Selective Injection Valve (ILSIV) is developed in line with Completion Master intervention-less completion philosophy, focusing on mechanical simplicity, operational reliability, and reservoir control in complex well architectures.

The ILSIV is a pressure-cycle actuated downhole valve developed by Completion Master to enable selective, segment-by-segment injection without the need for coiled tubing, wireline, or hydraulic control lines.

The ILSIV is specifically designed for extended reach wells, where conventional coiled tubing operations are unable to reach total depth (TD). The valve operates through tubing pressure communication from surface, allowing accurate placement of stimulation fluids, acids, and chemicals into targeted reservoir segments while maintaining a fully intervention-less completion philosophy.

## FEATURES

- **True Intervention-Less Operation** Eliminates the requirement for coiled tubing operations.
- **Pressure-Cycle Actuated Control** Surface-applied pressure cycles provide simple and reliable downhole communication.
- **Selective Segment-by-Segment Injection** Ensures only one reservoir segment is injected at a time.
- **Designed for Extended Reach Wells** Ideal for wells with long horizontals and high friction losses.
- **Robust Mechanical Design** Engineered for repeated pressure cycling and long-term downhole exposure.
- **Seamless Integration with open hole Completions** Compatible with liner-based open-hole completion architectures.

## APPLICATIONS

- Intervention-less reservoir treatment.
- Selective matrix stimulation in ERD wells.

## ERD COMPLETION CHALLENGES

- Coiled tubing unable to reach TD in extended reach wells due to friction losses
- High operational cost and risk associated with intervention-based injection
- Limited control over selective injection placement
- Increased non-productive time (NPT) during stimulation operations

## THE ILSIV SOLUTION

The ILSIV provides a simple, robust, and intervention-less solution for selective injection operations. By utilizing pressure-cycle communication from surface, the system enables accurate and repeatable injection into isolated reservoir segments without relying on conventional intervention methods.

## BENEFITS

- **Eliminates CT Reach Limitations:** Enables selective injection in wells where CT cannot reach TD.
- **Reduced Operational Complexity and Cost:** Minimizes logistics, equipment, and personnel requirements.
- **Improved Treatment Effectiveness:** Ensures fluids are injected into the intended reservoir interval.
- **Reduced HSE Exposure:** Intervention-less operations lower personnel exposure and operational risk.
- **Enhanced Well Lifecycle Management:** Supports multiple selective injection campaigns over the life of the well.

