

Down-Hole Shut-In Valve (DHSIV)

DHSIV:

The IPI Down-hole Shut-in Valve (DHSIV) is designed to be run in-line above a single or straddle packer assembly and is used to isolate a test section in communication with the running pipe ID for the purpose of hydrological testing of a well. A typical test regime requiring such down-hole pressure isolation is an Injection Fall-Off (IFO) Test.

In brief, the DHSIV comprises a ball valve maintained in position by a spring and actuated to a second position via hydraulic pressure supplied by a pressure control line run to the surface. It is usually setup in the “normally-open” condition and hydraulically actuated to the closed position although it may also be set up as “normally-closed” and actuated to “open”.

Applications:

- ◆ Down-hole pressure shut-in
- ◆ Injection Fall-Off (IFO) Testing
- ◆ Drill Stem Testing (DST)
- ◆ Slug Test (Falling head test)

Benefits:

- ◆ Zero-volume displacement shut-in
- ◆ 100% sealing ball valve
- ◆ Pressure ratings up to 10,000 psi (700 bar)
- ◆ Full stainless steel construction
- ◆ Available vented to annulus or non-vented
- ◆ High strength, long life disk springs
- ◆ Standard O.D. & I.D. sizes are:
 - 60 mm (2.362") O.D. x 10 mm (0.394") I.D.
 - 70 mm (2.756") O.D. x 12.7 mm (0.5") I.D.
 - 89 mm (3.5") O.D. x 19.05 mm (0.75") I.D.
 - 114 mm (4.5") O.D. x 25.4 mm (1.0") I.D.

