



Weatherford® **Completion Systems**

FSV Shifting Tool (FSV-ST)

The FSV Shifting Tool (FSV-ST) is a hydraulically activated device designed for manipulating Formation Saver Valves (FSV) between open and closed positions. In addition to this the FSV-ST can be used to open and close the Completion Isolation Valve (CIV)

The tool is run on coiled tubing and features a set of pressure-activated keys. The differential pressure created when circulating through the coil expands these keys. Once fully expanded the profiled keys selectively latch into the shifting profile allowing bi-directional manipulation of the shifting sleeve. When the circulation rate is reduced sufficiently the keys retract back to within the body OD.

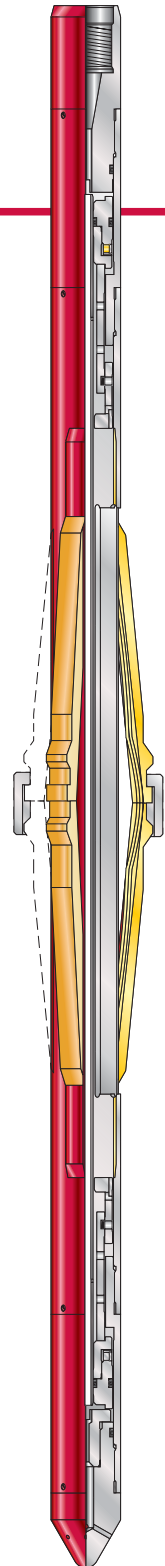
The FSV-ST may also be used for depth correlation applications. When used in conjunction with Depth Correlation Subs (DCS) or Slickline Locator Joints (SLJ) the FSV-ST may be used to position perforating guns or bridge plugs.

Features

- The FSV Shifting Tool is a hydraulically activated shifting tool designed for depth correlation or manipulation of sleeves in a down-hole environment
- Small body OD to pass restrictions
- Keys expanded by differential pressure at low circulating rates
- Range of interchangeable keys available dependent on application
- Secondary shear release mechanism
- Keys remain under body size when circulation rate is reduced preventing inadvertent manipulation of down-hole devices
- Surface test capability to confirm circulation rates required to actuate keys

Benefits

- Cost effective with range of keys for single body size
- Simple field redressing procedure
- Bi-directional manipulation capability
- Accurate circulation rate confirmation prior to run in hole



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Applications

The FSV Shifting Tool can be utilised in a variety of applications

- Manipulation of Formation Saver Valve, lock open sleeve between open and closed positions
- Lock open and closure of Completion Isolation Valve
- Depth correlation when used in connection with Depth Correlation Subs or Slickplug Locator Joints for accurate placement of perforating guns, bridge plugs or straddles
- Selective manipulation of sliding sleeves to open or close

Specification Guide

Model	Part Number	Max OD	Length	Upper Connection	Lower Connection	Orifice Size	Material	Elastomer
FSV Shifting Tool	350-2200-00-01	2.200"	49.41"	1.7" Stub Acme	Bullnose	0.197"	AISI 4140/45	Aflas
FSV Shifting Tool (Drillpipe Use Only)	350-2200-00-02	2.200"	49.41"	1.7" Stub Acme (Now sco) Box	Bullnose	0.197"	AISI 4140/45	Aflas
Key Set	350-2813-00-01	2.813"	n/a	n/a	n/a	n/a	AISI 4140/45	n/a
Key Set	350-3313-00-01	3.313"	n/a	n/a	n/a	n/a	AISI 4140/45	n/a
Key Set	350-3688-00-01	3.688"	n/a	n/a	n/a	n/a	AISI 4140/45	n/a
Key Set	350-4100-00-01	4.100"	n/a	n/a	n/a	n/a	AISI 4140/45	n/a
FSV Shifting Tool	350-2933-00-01	2.933"	49.41"	1.7" Stub Acme	Bullnose	0.197"	AISI 4140/45	Aflas
Key Set	350-4732-00-01	4.732"	n/a	n/a	n/a	n/a	AISI 4140/45	n/a
Static Pressure Test Kit	350-0000-00-01	n/a	n/a	n/a	n/a	n/a	AISI 4140/45	n/a