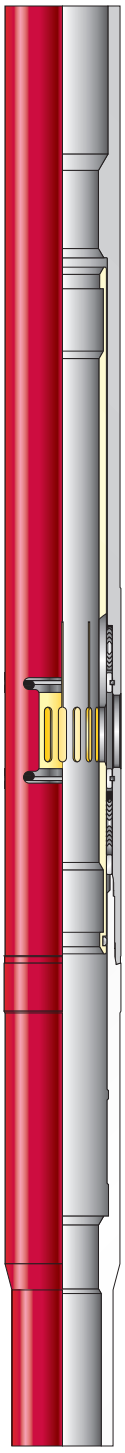
OptiSleeve Sliding Sleeve



Weatherford's OptiSleeve sliding sleeve is a tubing-mounted device used to regulate flow from individual producing zones or to control communication between the tubing and the annulus. The tool has one connection, which minimizes potential leak paths. The non-elastomeric seal is chemically inert for hostile environments, including exposure to oil-based muds and amine inhibitors. The OptiSleeve tool can be opened or closed using standard B shifting tools run on slickline, coiled tubing, or wash pipe.

The OptiSleeve tool is available in two versions:

- The OptiSleeve version contains an integral landing nipple profile and is specified as either the **OptiSleeve U** (open-up) tool or the **OptiSleeve D** (open-down) tool.
- The invertible **OptiSleeve I** version has no nipple profile and can be run as an open-up sleeve or an open-down sleeve by simply flipping the sleeve over; no conversion is necessary. This version maximizes completion flexibility and can be run in conjunction with a landing nipple profile mounted above the OptiSleeve tool for well security.

Applications

- Regulation of flow from individual zones between packers
- Circulation of completion or kill fluids from the annulus to the tubing above the production packer
- Injection of water to individual zones for waterflooding

Features, Advantages and Benefits

- Non-elastomeric seal is chemically inert for hostile environments, providing reliable sealing at temperatures up to 375°F (190°C) and 10,000 psi (68,948 kPa).
- Equalizing slots are designed to prevent damage to the seal when the sleeve is opened under differential pressure.
- Invertible pin × pin design allows shift-down or shift-up to open by simple inversion of the tool (OptiSleeve I version).
- Standard wireline B shifting tool opens and closes the sleeve, providing flexibility in completing the well without complicated conversions to the sliding sleeve.
- Robust design, with only one connection in the tool, minimizes potential leak paths.
- The ability to open and close individual sleeves allows control over communication between zones so that zones can be selectively produced.
- Flow-control devices, such as plugs and separation sleeves, can be installed in the nipple profile, saving money and reducing the number of connections.

OptiSleeve Sliding Sleeve

Specifications

		Tool					
Tubing Size (in.)	Seal Bore (in./*mm*)	OD (in./*mm*)	Maximum Pressure Rating (psi/*MPa*)	Maximum Temperature Rating (°F/°*C*)	Tensile Strength (lbf/*kN*)	Differential Opening Pressure (psi/*MPa*)	Torque Limit (ft-lb/*N•m*)
2-3/8	1.875 *47.62*	3.090 *78.49*	10,000 *68.95*	375° *191°*	106,000 *471.5*	1,500 *10,342*	1,300 *1,762*
2-7/8	2.188 *55.58*	3.750 *95.25*			136,000 *605.0*		3,500 *4,745*
	2.312 *58.72*						
3-1/2	2.562 *65.07*	4.500 *114.30*			210,000 *796.2*		4,000 *5,423*
	2.750 *69.85*						
	2.812 *71.42*						
4-1/2	3.312 *84.12*	5.500 *139.70*	8,200 *56.54*	325° *163°*	260,000 *1,156.5*		6,000 *8,135*
	3.437 *87.30*						
	3.625 *92.08*						
	3.688 *93.68*						
	3.750 *95.25*						
	3.813 *96.85*						
5-1/2	4.562 *115.87*	6.630 *168.40*	6,300 *43.44*	300° *149°*	450,000 *2,001.7*		6,500 *8,813*
	4.750 *120.65*						
7	*5.625* *142.88*	*8.250* 209.55	7,500 *51.71*		603,000 *2682.3*		9,200 *12,473*

OptiSleeve Sliding Sleeve

Options

- The OptiSleeve sliding sleeve is available with an integral nipple profile: the open-up (OptiSleeve U) configuration, or the open-down (OptiSleeve D) configuration. It is also available in an invertible (OptiSleeve I) version.
- All versions of the OptiSleeve sliding sleeve are available in either common oilfield alloy or corrosion-resistant alloy.

For Internal Use
Link to Endeca assembly part numbers: OptiSleeve Sliding Sleeve