



OptiSleeve™ Sliding Sleeve

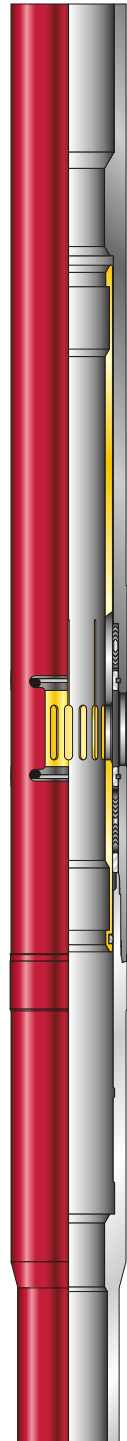
Weatherford's *OptiSleeve* sliding sleeve is a tubing-mounted device used to regulate flow from individual producing zones or to control communication between the tubing and the annulus. The tool has one connection, which minimizes potential leak paths. The non-elastomeric seal is chemically inert for 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 that contains an integral landing nipple profile 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

- Communication 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





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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 x 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 the cost of additional nipples and reducing the number of connections.

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.



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Specifications

Tubing Size (in.)	Seal Bore (in./mm)	Tool											
		OD (in./mm)	Maximum Pressure Rating (PSI/mPa)	Maximum Temperature Rating (°F/°C)	Tensile Strength (lbf/N)	Differential Opening (PSI/kPa)	Torque Limit (ft-lb/N•m)						
2-7/8	2.188	3.750	10,000	375	136,000	1,500	3,500						
	55.58							95.25	68,948	191	604,958	10,342	4,745
	2.312												
	58.72												
3-1/2	2.562	4.500	10,000	375	210,000	1,500	4,000						
	65.07							114.30	68,948	191	796,232	10,342	5,423
	2.750												
	69.85												
	2.812												
	71.42												
4-1/2	3.312	5.500	8,200	325	260,000	1,500	6,000						
	84.12							139.70	56,537	163	1,156,538	10,342	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	6.630	6,300	300	450,000	1,500	6,500						
	115.87							168.40	43,437	149	2,001,700	10,342	8,813
	4.750												
	120.65												