OptiSlim Sliding Sleeve

Weatherford's OptiSlim sliding sleeve is a reduced-OD version of the OptiSleeve sliding sleeve. This tubing-mounted device is sized to fit inside sand screens to regulate flow from individual producing zones or to control communication between the tubing and the annulus. Operators can choose one of three different shifting profiles to allow the operation of multiple sleeves in the same well. The non-elastomeric seals of the OptiSlim sleeve are chemically inert for most hostile environments. Either special tubing-mounted shifting tools or standard wireline equipment can be used to open and close the OptiSlim sleeve.

Applications

- Displacing fluids in tubing and annulus
- Producing multiple zones through a single string inside sand screens
- Gas-lifting
- Circulating inhibitors for corrosion control
- Preserving completion fluids in post-gravel-pack operations

Features, Advantages and Benefits

- High-pressure, chevron-type seal stack is chemically inert for use in most hostile environments, including exposure to oil-based mud and amine inhibitors. This feature virtually eliminates the risk of seals becoming brittle or bonding to metal parts, which can lead to equipment failure.
- Non-elastomeric seals also provide reliable sealing at temperatures up to 375°F (190°C) and 10,000 psi (68.9 MPa) and maintain the seal when cooled down from higher to lower wellbore temperatures.
- The ability to open and close individual sleeves provides control over communication between zones, allowing various sleeves to be run in tandem, enhancing isolation and production of multiple zones.
- Integrated flow-control nipple profile can be chosen to integrate the sleeve with the rest of the completion, improving operational efficiency.
- Flow-control devices, such as plugs and separation sleeves, can be installed in the nipple profile, saving the cost of additional nipples in the completion.
- Special tubing-mounted shifting tools or standard wireline equipment can be used to open or close the sleeve, providing operational flexibility and equipment cost savings.
- Tool can be shifted under moderate differential pressure, preserving flow integrity when operating with sand-control equipment installed.

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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/k*N*)	Differential Opening Pressure (psi/*MPa*)	Torque Rating (ft-lb/N·m)	Seal Material
2-7/8	2.188 *55.58*	3.20 *81.30*	10,000 *68,948*	375° *191°*	136,000 *604.96*	2,000 *13.79*	1,200 *1,627*	PEEK® PEEK HT™ Teflon®
	2.312 *58.72*							
3-1/2	2.562 *65.07*	4.10 *104.10*			210,000 *796.23*	1,500 10.34		
	2.750 *69.85*							
	2.812 *71.42*							

Options

- The OptiSlim sleeve can be used with any nipple profile commonly available in the industry, as well as with any available premium or API thread.
- The 2 7/8-in. OptiSlim sliding sleeve can be ordered with any one of four different shifting profiles for operating multiple sleeves in the same well.

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

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