

RFID OptiROSS™ Remotely Operated Sliding Sleeve

Manages flow from individual production zones remotely

Applications

- Managing flow from individual production zones
- Eliminating the need for washpipe, intervention, wires, or control lines
- Highly fractured wells

Features and Benefits

- Eliminates the need for washpipe, control lines, intervention, wires, services, or crew
- Facilitates tests of individual compartments and select optimized well profile
- Features selective remote opening and closing through radio-frequency identification (RFID) technology
- Protects seals when opening in over-and-underbalanced applications through controlled equalization
- Minimizes pressure drops
- Provides operational reliability through built-in hydraulic reservoir
- Features a robust, reliable, and simple design
- Reverts to a standard mechanical sliding sleeve at the end of battery life

Tool Description

The Weatherford OptiROSS remotely operated sliding sleeve combines advanced well sliding-sleeve technology with RFID technology to provide an interventionless, control-line-free well management device. The tool provides remote means of managing flow from individual production zones with no limit to the number of sleeves that can be installed in a single monobore completion.

The tool is preprogrammed to operator-specific applications and is opened and closed by circulating RFID tags, frequency-modulated pressure signatures, timers, or a combination of these. The debris-tolerant tool does not rely on any debris-sensitive springs, check valves, nor complex piston arrangements during operation; thus, its reliability is not compromised by the need for precharged or well-sensitive piston chambers.



An unlimited number of OptiROSS remotely operated sliding sleeves can be run in a single monobore completion.



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Specifications*

Size	Maximum OD	Minimum ID	Pressure Rating	Absolute Pressure Rating	Temperature	Minimum Flow Area	Maximum Differential Opening Pressure
3.50 in. (88.9 mm)	5.85 in. (149 mm)	2.81 in. (71.4 mm)	7,500 psi (51.7 MPa)	15,000 psi (103.4 MPa)	39 to 302°F (4 to 150°C)	6.20 in. ² (40 cm ²)	1,500 psi (10.3 MPa)
5.50 in. (139.7 mm)	7.75 in. (196.9 mm)	4.31 in. (109.5 mm)		12,500 psi (86.1 MPa)		16.33 in. ² (105.4 cm ²)	
5.50 in. (139.7 mm)	8 in. (203.2 mm)	4.56 in. (115.8 mm)		15,000 psi (103.4 MPa)		16.33 in. ² (105.4 cm ²)	

* Customer-specific specification variants are available upon request.

