

HYDRAULIC TOE SLEEVE RECLOSABLE



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APPLICATION

Hydraulic Toe Sleeve Reclosable is designed to provide access for the process fluid to the isolation zone during multistage hydraulic fracturing. The sleeve is opened hydraulically by pumping an activation ball into a special seat and applying pressure. Circulation ports are opened after activation ball is seated and the pressure is increased to the activation pressure value.

- Uncemented casing / liner applications.
- Vertical, directional and horizontal wells.

FEATURES AND BENEFITS

- Hydraulic Toe Sleeve Reclosable is run as the first stage of multistage fracturing assembly.
- Activation pressure can be adjusted prior to RIH.
- Locking mechanism holds the sleeve in open/closed position.
- Can be opened/closed using special shifting tool after milling out operations.
- Ball-seat design eliminates rotation while milling out operations.
- Withstands high tensile loads and high differential pressures.

SUPPLY PACKAGE

- Hydraulic Toe Sleeve Reclosable.
- Activation ball.

TECHNICAL DATASHEET

TECHNICAL CHARACTERISTICS	VALUE	
Liner size, in	4.000	4.500
Max OD, in	4.567	5.236
Min ID, in	3.465	3.898
Opening pressure, psi	5,000	
Closing pressure, psi	1,650	1,600
Ports flow area, in ²	10.23	12.09
Number of ports, ea	6	6
Burst, psi	10,000	
Collapse, psi	10,000	
Tensile, kip	157	202
Torque, ft-lbs	2,350	2,550
Material*	P-110	
Max working temperature, °F	248	
Length, ft	2.89	2.91

* Other options are available as per Customer request.