

HYDRAULIC ACTIVATED TOE SLEEVE WITH ISOLATION VALVE RECLOSABLE



TOE SLEEVE WITH ISOLATION VALVE RECLOSABLE

APPLICATION

Hydraulic Activated Toe Sleeve with Isolation Valve Reclosable is designed for the first interval of multistage hydraulic fracturing using activation balls, without the ability to close the sleeve. The sleeve design includes an activation sleeve and a hydraulic toe sleeve.

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

FEATURES AND BENEFITS

- Used as a first stage for multistage fracturing.
- Locking mechanism holds the sleeve in open position.
- All internal components are PDC drillable.
- Can be opened/closed mechanically using a special shifting tool.
- Can be used with acid-resistant, composite and soluble balls.
- Withstands high tensile loads and high differential pressures.
- Acid-resistant design of all elements (HCL 14%).

SUPPLY PACKAGE

- Hydraulic Activated Toe Sleeve with isolation valve reclosable.
- Activation ball.

TECHNICAL DATASHEET

| TECHNICAL CHARACTERISTICS | VALUE | | |
|----------------------------------|--------------|--------------|--------------|
| | | | |
| Liner OD, in | 4.500 | 5.500 | 4.500 |
| Max OD, in | 5.236 | 6.732 | 5.630 |
| Min ID, in | 3.898 | 4.764 | 3.898 |
| Length, ft | 3.7 | 3.9 | 2.5 |
| Closing pressure, psi | 1,450 | | |
| Opening pressure, psi | 4,500 | | 5,000 |
| Opening/closing Axial force, lbf | 2,200 | | |
| Ports flow area, in ² | 12.69 | 19.92 | 11.78 |
| Number of ports, ea | 6 | 8 | 20 |
| Material* | P-110 | | Q125 |
| Max working temperature, °F | 248 | | 302 |
| Burst, psi | 10,000 | | 14,500 |
| Collapse, psi | 10,000 | | 14,500 |
| Tensile, kip | 157 | 303 | 225 |

* Other options are available as per Customer request.