

## HYDRAULIC FRAC SLEEVE

### APPLICATION

Hydraulic Frac Port is designed to provide access for the process fluid to the isolation zone during multistage hydraulic fracturing without activation balls.

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

### FEATURES AND BENEFITS

- Used as a first fracturing stage for multistage hydraulic fracturing.
- Provides multiple mechanical closing/opening cycles with shifting tool.
- Locking mechanism holds the sleeve in open/closed position.
- Cannot be used in cementing interval.
- Withstands high tensile loads and high differential pressures.
- Hydraulic activation does not require activation balls.
- Full-bore ID design thus milling out is not required.

### SUPPLY PACKAGE

- Hydraulic Frac Sleeve.

### TECHNICAL DATASHEET

TECHNICAL CHARACTERISTICS	VALUE	
<b>Liner OD, in</b>	<b>5.500</b>	<b>4.500</b>
Max OD, in	6.732	5.669
Min ID, in	4.763	3.898
Length, ft	3.9	2.3
Opening pressure, psi	5,000	
Opening/closing Axial force, lbf	2,200	
Ports flow area, in <sup>2</sup>	19.92	11.78
Number of ports, ea	8	20
Material*	P-110	
Max working temperature, °F	248	302
Burst, psi	10,000	14,500
Collapse, psi	10,000	14,500
Tensile, kip	337	157
Torque, ft-lbs	4,200	5,750

\* Other options are available as per Customer request.



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