

SPEEDFRAC

TOE CIRCULATION/SETTING SUB

Casing Size (in)	Maximum OD (in.)	Minimum Ball Seat ID (in.)	Maximum Temp (°F)	Maximum Working Pressure
4.50	5.015	0.750	300	10,000

FEATURES:

- Ball activated
- Adjustable shear valve
- 1500 PSI minimum closing pressure
- Allows circulation through TCS sub while running liner
- No interference with float equipment installed below TCS sub
- Setting device to activate hydraulic components
- TCS sub remains closed once activated
- P110 material construction
- Standard LTC threaded connections

The **SPEEDFRAC Toe Circulation/Setting Sub** is a normally opened valve that allows for fluid circulation during the run in of casing for well control and clean-out. When the completion string is on bottom the valve is shifted closed with the use of a phenolic setting ball that is displaced down to the TCS ball seat. In this position it now becomes a blanking device to set all hydraulically activated packers in the completion string above it. After setting of the system is complete and casing pressure is released, the valve is now permanently closed and is capable of holding pressure from above and below.



Office Location:

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TOE CIRCULATION/SETTING SUB SPECIFICATIONS

MAXIMUM OD	5.015 inches
MINIMUM DRILL OUT ID	4.00 INCHES
OVERALL LENGTH	24.00 in.
BODY MATERIAL	P-110
PRESSURE RATING	10,000 psi
MIN. & MAX OH ID	6.0 - 6.5 in.
TEMPERATURE RATING	300 F
ACTIVATION PRESSURE	Min. 1,500 - Max 1,800 psi
TENSILE RATING	220,500 lbs.
TORQUE RATING	3776 ft-lb
THREAD CONNECTION	4.5" 8RD LTC Box/Pin



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