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PIONEER CS SERIES CIRCULATING SUB

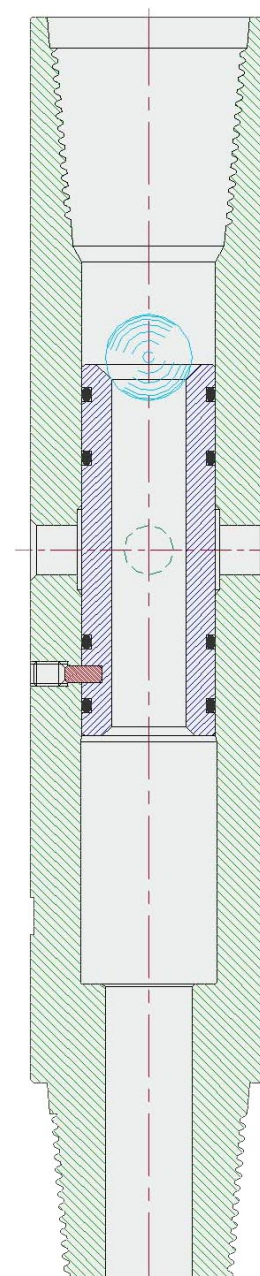
The Pioneer Oil Tools Ltd's CS Series Circulating Sub is a robust, easy to use tool designed to provide circulation above occluded bits and other milling tools with no through bore that might otherwise suffer operational difficulties due to the build up of particulates around the bit.

Initially an internal sleeve covers the circulating ports. When the operator wishes to begin circulation a ball is dropped into the string, which blocks the through bore of the sleeve. Pumping will shear the shear pins that hold the sleeve in place: this allows the sleeve to slide down and open the circulating ports, allowing circulation out to the annulus.

All Pioneer Oil Tools Ltd Circulating subs may be dressed to suit various shear out pressures, standard available pressures on all tools are 1000psi, 2000psi, 3000psi and 4000psi

When ordering please specify:

- Required tool outside diameter.
- Connections.
- Preferred shear out pressure



“When time is of the essence, Pioneer delivers”