

REAMING CASING SHOE

APPLICATION

The reaming casing shoe is installed at the bottom of the casing string to guide it along the wellbore with ability to ream unstable wellbore parts with cavings, scarps, swelling clays and junk accumulations. The float shoe protects the completion equipment from damage during running.

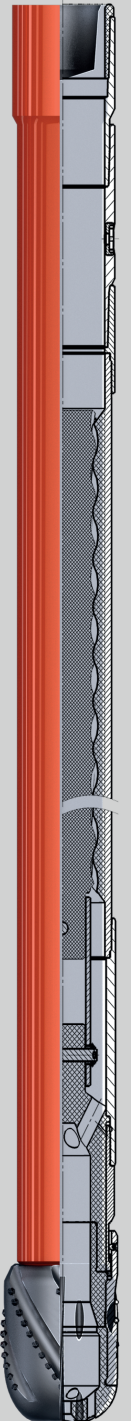
DESIGN FEATURES AND ADVANTAGES

- The guide nose of the shoe is made of easy-to-drill material;
- Any size available;
- The float shoe can be operated in drilling fluid, cement slurry, fluids with chemical agents, formation brine, oil and gas at temperature up to 248 °F;
- The rotating nose ensures smooth casing guidance to the target depth;
- The nose design prevents the shoe from cutting into the borehole wall;
- The nose can be armed with hard-alloy materials such as tungsten carbide and/or polycrystalline diamond cutters (PDC).



SPECIFICATIONS

Liner size, in	4	4 1/2	7
Outer diameter for the body (+0.08), in	4.17/4.33	4.17/4.92	7.32
Maximum bit diameter for milling the shoe, in	-	-	6.14
Shoe length, in	67.32	67.32	73.62
Weight (+5%), lbs	176.37	187.39	319.67
Maximum nose diameter, in	4.37	4.92	8.27
Number of flushing holes, pcs	6	7	7
Total area of flushing holes, in ²	1.05	2.18	4.77
Maximum axial load, lbf	22046	22046	22046
Fluid flow rate, l/s	5...36	1.5	1.5
Shaft speed at idle speed, rpm	50...290	28290	20...150
Shaft speed in maximum power mode, rpm	50...235	50...235	20...120
Torque in maximum power mode, lb*ft	159	159	1547
Maximum tensile load during emergency pull-up, lbs	213848	213848	308647
Designed operation time, circulation hours	150	150	150



*Thread type, metallurgy and elastomers are as per Customer`s requirements