

Multi Reverse Spot Tool (MRST)

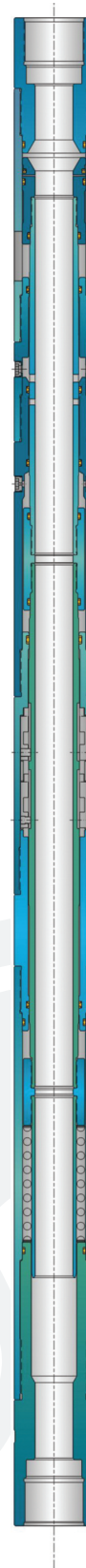
The Multi-Reverse Spot Tool provides a means of establishing communication between the annulus and the drill string. It has three functional positions: closed, reverse, and circulate, and may be run in the well in either the closed or reverse positions.

Specifications:

Working Pressure & Temperature	15,000 psi (103.42 Mpa) at 350°F/175°C 10,000 psi (68.95 Mpa) at 375°F/190°C
OD (in/mm)	5" / 127mm
ID (in/mm)	2.25"/57.2mm
Upper Thread connection	3 3/4" Stub Acme, 6 TPI
Lower Thread connection	3 3/4" Stub Acme, 6 TPI
Tensile Strength	350,000lbf/155,600daN
Tensile strength at Max working Pressure	30,000lbf/13,345daN
Tool Length (in/mm)	138.2in/3510mm
Tool Weight (lbs/kg)	575 lbs/ 261 kg
Service condition	H2S per Nace MR-01-75

Operation:

The tool may be cycled as many times as required. It may be used to displace fluids before a test, to spot fluids (nitrogen or acid) and/or to reverse circulate recovered fluids from the drill string.



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MultiReverseSpotTool 230311_v3