DRILLING SERVICES TECH SPECS

RipTide® Ball-Drop Drilling Reamer 6000

Enlarges boreholes below casing restrictions and simultaneously drills and enlarges wellbores

Applications

- Drilling and enlarging simultaneously in a single trip
- Underreaming concentric boreholes below casing restrictions to facilitate running casing strings and to permit a larger intermediate casing diameter
- Expanding existing pilot holes in a wide range of formations
- Reducing annular fluid velocities to effectively manage equivalent circulation density (ECD) and minimize the risk of kicks
- Facilitating solid-expandable installations and openhole, gravelpack, and oversized-liner completions
- · Optimizing cement jobs

Features and Benefits

- The reamer can operate with low flow rates, if necessary, to protect sensitive formations.
- Cutter blocks grip the reamer body at full actuation to reduce vibration, which extends cutter life.
- The retractable cutter blocks facilitate tool retrieval.
- The balanced, concentric design of the cutter blocks minimizes vibration while drilling.

Tool Description

The Weatherford RipTide ball-drop drilling reamer 6000 is a concentric mass-balance underreamer capable of enlarging the borehole below casing restrictions. The versatile reamer can simultaneously drill and enlarge when used in conjunction with a rotary-steerable system (RSS), motor, or rotary bottomhole assembly. The RipTide reamer can also be used to underream existing boreholes and to open selective zones for solid-expandable installations.

The reamer is hydraulically activated using the proven Weatherford mechanical ball-drop system. After the ball is seated, pumps are turned on to increase standpipe pressure. Precise flow rates shear locking pins and permit the cutter blocks to extend fully from the reamer body. When pumps are turned off, the cutter blocks retract into the body.



The Weatherford RipTide ball-drop drilling reamer 6000 has retractable and concentric cutter blocks that minimize vibration while drilling and facilitate tool retrieval.



RipTide® Ball-Drop Drilling Reamer 6000

Specifications

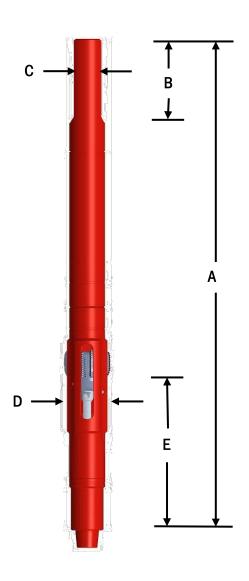
Overall length/length with booster sub	Α	11.65/14.60 ft
Fishing neck length	В	2.00 ft
Fishing neck OD	С	5.00 in.
Reamer body OD	D	5.875 in.
Distance from bottom sub pin to cutter blocks (open position)	E	4.25 ft

Additional Specifications

Maximum flow rate	413 gal/min
Tensile yield	583,100 lb
Torsional yield	23,000 ft lb
Inside diameter	1.50 in.
Nozzle size in reamer	4 to 13 (1/32) in.
Max. flow rate thru each nozzle at 75 ft/sec	35 gal/min
Max. flow rate thru all nozzles at 75 ft/sec	105 gal/min
Top sub length	3.00 ft
Top sub box up connection	NC38
Ball-drop controller OD	5.25 in.
Ball-drop controller length	2.95 ft
Booster sub length (optional)	2.95 ft
Reamer body length	3.00 ft
Bottom sub OD	5.00 in.
Bottom sub length	2.70 ft
Bottom sub pin down connection	NC38
Reamer assembly weight, less cutter blocks	335 lb
Controller assembly with top sub	338 lb
Activation ball size	1.375 in.

Available Cutter Block Sizes

Series	PDC	Pilot Hole	Opening Diameter
6000 9 × 11 mm		6.25 in.	
		7.00 in.	
	6.00 in.	7.25 in.	
		7.50 in.	
		7.88 in.	
			8.00 in.
	6.50 in.	8.50 in.	



Recommended Drilling Parameters

150 rpm
10 klb
15 kft-lb
12°/100 ft
50 lb/bbl
400°F (205°C)



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