

AVALANCHE

Downhole Adjustable Stabilizer

The ULTIMATE in On-demand 2D Directional Control

The Avalanche is a downhole, hydraulically actuated stabilizer. Designed for use in a 2D directional drilling application to help control the inclination in extended reach or horizontal wells. The Avalanche can be utilized in a conventional rotary bottom hole assembly, or positioned above or below a steerable motor. The gauge diameter of the stabilizer is controlled remotely by the pumps on surface giving driller control to change diameter from surface only when needed.

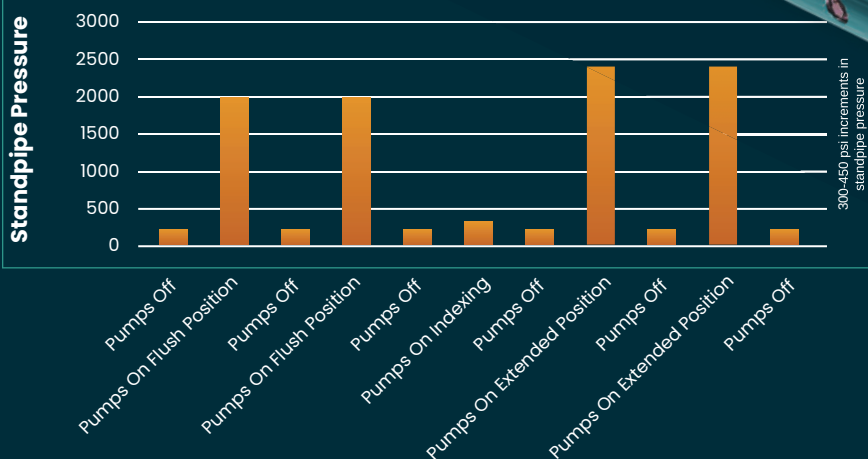
When the pistons are extended, there is a 150-250 psi increase in stand pipe pressure compared to when the pistons are flush (retracted) in the blade of the stabilizer. This pressure can be monitored easily from the rig floor pressure gauges to determine the current position setting of the Avalanche when downhole.

The unique blade geometry of the Avalanche makes it the only downhole adjustable stabilizer that combines ease of slide drilling when run above a motor, with improved cuttings transport when rotating.

Innovative blade design is essentially straight (improved slide weight transfer), but incorporates a chevron profile for better circumferential coverage. This assists with vibration reduction and dampening harmful BHA harmonics.

Avalanche bottom hole assemblies offer a lower operating cost for effective 2D steering while in rotary mode when compared to the cost of deploying a rotary steerable system. New Cam Design allows tool to stay in mode under normal drilling and connection procedures which saves time and money.

Avalanche Operation Sequences



Patent 9,448,722

Arrival Canada
(780) 983-8300

Arrival USA
(833) 645-8665

AVALANCHE

Downhole Adjustable Stabilizer

Technical Specifications

Hole Size	5.875" (149.2 mm)	6.000" (152.4 mm)	6.125" (155.6 mm)	6.250" (158.8 mm)	6.625" (168.3 mm)	6.750" (171.5 mm)
Mandrel Through Bore	1.250" (31.8 mm)	1.250" (31.8 mm)	1.250" (31.8 mm)	1.250" (31.8 mm)	1.250" (31.8 mm)	1.250" (31.8 mm)
Body Diameter	5.020" (127.5 mm)	5.020" (127.5 mm)	5.020" (127.5 mm)	5.020" (127.5 mm)	5.020" (127.5 mm)	5.020" (127.5 mm)
Overall Length	78.50" (1,994 mm)	78.50" (1,994 mm)	78.50" (1,994 mm)	78.50" (1,994 mm)	78.50" (1,994 mm)	78.50" (1,994 mm)
* Box Up	3-1/2" API IF (NC 38)	3-1/2" API IF (NC 38)	3-1/2" API IF (NC 38)	3-1/2" API IF (NC 38)	3-1/2" API IF (NC 38)	3-1/2" API IF (NC 38)
* Pin Down	3-1/2" API IF (NC 38)	3-1/2" API IF (NC 38)	3-1/2" API IF (NC 38)	3-1/2" API IF (NC 38)	3-1/2" API IF (NC 38)	3-1/2" API IF (NC 38)
Hole Size	7.875" (200 mm)	8.375" (213 mm)	8.500" (216 mm)	8.750" (222 mm)	12.000" (305 mm)	12.250" (311.2 mm)
Mandrel Through Bore	1.625" (41.3 mm)	1.625" (41.3 mm)	1.625" (41.3 mm)	1.625" (41.3 mm)	2.000" (50.8 mm)	2.000" (50.8 mm)
Body Diameter	6.750" (171.5 mm)	6.750" (171.5 mm)	6.750" (171.5 mm)	6.750" (171.5 mm)	8.000" (203.2 mm)	8.000" (203.2 mm)
Overall Length	95.00" (2,413 mm)	95.00" (2,413 mm)	95.00" (2,413 mm)	95.00" (2,413 mm)	113.00" (2,870 mm)	113.00" (2,870 mm)
* Box Up	4" API IF (NC 46)	4-1/2" API IF (NC 50)	4-1/2" API IF (NC 50)	4-1/2" API IF (NC 50)	6-5/8" API REG	6-5/8" API REG
* Pin Down	4" API IF (NC 46)	4-1/2" API IF (NC 50)	4-1/2" API IF (NC 50)	4-1/2" API IF (NC 50)	6-5/8" API REG	6-5/8" API REG

*The listed diameters and thread connections are typical, however, the tool can be configured per specific requirements.



With Motor



Rotary Assembly (no motor)

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INNOVATIVE ENGINEERING. DOWNHOLE EXCELLENCE

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