

WELL COMPLETIONS | LINER HANGERS

VersaFlex® high-flow circulation valve

Allows higher circulation rates with less pressure drop while protecting downhole tools

FEATURES

- API drillpipe connections
- No body connections
- Field-adjustable pinning
- Largest bypass area available

BENEFITS

- High-strength connections
- Maximized porting develops minimized ΔP (Delta P)
- Ball-operated/ball-retrieved
- Flow cutting of critical tooling prevented

Overview

The VersaFlex® high-flow circulation valve provides the ability to increase circulation rates through a controlled flow path from the drillpipe to the annulus. The tool is designed with minimal moving components for a simplistic approach to maximize flow area.

Operation

Once initial reverse circulation is achieved, upon retrieving the running tool from the liner hanger, a ball is dropped from surface and pumped or allowed to gravitate to seat. With the ball on seat, pressure from surface is applied, and when sufficient pressure is achieved, the pins shear and the bypass ports are opened to increase the flow area and pump rate and allow for the highest possible circulation rates.



Liner hanger high-flow circulation sub

VersaFlex® high-flow circulation valve design specifications

SIZE	OPERATES IN CASING SIZE	MAX OD	MIN ID	LENGTH	TOP/ BOTTOM CONNECTION	OPERATING BALL	MAX FLOW RATE	PORTED BYPASS FLOW AREA	OPTIONAL OPERATING BALL (NEW SLEEVE SEAT REQUIRED)
IN	IN	IN	IN	IN		IN	BPM	IN	IN
5.0	9.625 to 22.0	6.645	2.685	22.03	API NC50	2.75	25	4.71	N/A
6 5/8	9.625 to 22.0	8.015	2.935	23.03	API 6 5/8 FH	3.00	25	4.71	2.75

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