

VersaFlex® High-Flow Circulation Valve

ALLOWS HIGHER CIRCULATION RATES WITH LESS PRESSURE DROP WHILE PROTECTING DOWNHOLE TOOLS

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.

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



Liner Hanger High-Flow
Circulation Sub

VersaFlex® High-Flow Circulation Valve Design Specifications

Size in.	Operates in Casing Size in.	Max OD in.	Min ID in.	Length in.	Top/Bottom Connection	Operating Ball in.	Max Flow Rate bpm	Ported Bypass Flow Area in.	Optional Operating Ball (new sleeve seat required) 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

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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