

WELLBORE SERVICE TOOLS | WELLBORE CLEANING TECHNOLOGY

Vali Tech® downhole mechanical filter

Validates wellbore cleanliness and collects debris unable to be circulated out of well

FEATURES AND BENEFITS

- Robust
- Integral mandrel
- Large ID to minimize pressure drop
- Stabilized for positive centralization and protection
- Allows for reverse circulating when required
- No spring-loaded valves to remain lodged open below the filter chamber
- Robust filter sleeve
 - Elimination of wire-wrapped screens
 - Increased operating specifications
- FIS (diverter)
 - Shifting sleeve design
 - Self-centralizing
- Self-modulating bypass
 - Helps eliminate swabbing potential
 - Provides regulated bypass

Overview

The CleanWell® Vali Tech® downhole filter tool is designed to provide a mechanical alternative for collecting solid contaminants remaining in vertical or deviated wellbores. The robust design of the filter tube helps eliminate wire-wrapped screen concerns while allowing for improved operating specifications.

The Vali Tech filter features include a fluid interrupter sleeve (FIS) which provides a protected, redundant wiper diverter system designed to mitigate tearing, ripping or damage concerns. The upper location of the FIS prevents potential debris loss.

The innovative modulating valve allows fluid bypass should the collection chamber become full and helps prevent swabbing concerns. This system is also designed to eliminate the need for other ball-drop bypass valves.

The Vali Tech filter is ideal for highly deviated wellbores where solids tend to settle on the low side or when unfavorable hydraulics are present. The tool can be run as a standalone device for specialty intervention runs or integrated into a single-trip system in combination with other wellbore cleaning tools.



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Vali Tech® downhole mechanical filter specifications

CASING SIZE	MAXIMUM TRIP SPEED	MAX ROTATING SPEED IN TENSION	MAX ROTATING SPEED IN COMPRESSION	MAX COMPRESSION WHILE ROTATING	TOOL DEBRIS CAPACITY
IN.	FT/MIN	RPM	RPM	KLBS	
11 3/4 - 13 5/8	200	120	90	50	1.171
9 5/8 - 10 3/4	200	120	90	50	0.984
7 - 8 5/8	200	120	90	35	0.572

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