

Caged Fullbore Flowmeter (6arm CFBM)



The Caged Fullbore Flowmeter is run at the bottom of a production logging tool string. The spinner blades and cage assembly collapse down to tool diameter, enabling it to pass through tubing restrictions without damage.

Description

The tool has a six arm, spring-loaded cage that centres the spinner in the middle of the flow and supports tool weight in deviated wells. A large diameter impeller measures flow rates with coverage over a large cross section of the casing. The spinner runs on precision bearings and its rotation is sensed by zero drag Hall effect detectors, the signal from the sensors is converted into a flow rate measurement. The low mechanical threshold of the tool enables it to be used in low flow rates; normal output is 10 pulses per revolution with directional indication.

Features

- High deviation and horizontal well logging.
- Injection and production flow profiling.
- Measurement of low flow rates.
- Leak and cross-flow detection.
- Interchangeable mechanical sections to match casing sizes from 4¹/₂ - 9⁵/₈in.
- Combinable with other Ultrawire™ PL Tools.
- Connects to either a Spinner Electronics (CFBE) or a Capacitance/Temperature/Flow Tool (CTF).
- Modification kit available for connection to 1³/₈in CTF.
- Lockable spinner for high rate injection wells (standard feature for 9⁵/₈in tools).
- Solid impeller shafts for very high rate wells.

Specification

Temperature rating	350°F (177°C)
Pressure rating	15000psi (103.4MPa)
Tool diameter	1 ¹¹ / ₁₆ in (43mm)
Tool length	2.91ft (0.889m)
Tool weight (dependant on spinner and cage sizes)	10lbs (4.5kg) for 1 ¹¹ / ₁₆ in tool with 7in cage
Sensor measure point (from bottom of the tool)	13.5in (349mm)
Output	10 pulses/rev (directional)
Spinner threshold	1.7ft/min (0.01m/s) (approx), 100bpd in 7in casing
Max fluid velocity	500ft/min(2.54m/s), 28250bpd in 7in casing
Casing range	4 ¹ / ₂ in to 9 ⁵ / ₈ in
Materials	Corrosion resistant throughout

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