

Caged Fullbore Flowmeter (3-Arm CFBM)

Halliburton's Caged Fullbore Flowmeter (3-arm CFBM) accurately measures downhole flow rates with coverage over a large cross section of the casing. Run at the bottom of the production-logging tool string, the 3-arm CFBM centers the spinner and supports the tool weight in deviated wells. Using a large diameter impeller, it has the ability to detect very low fluid velocity, making it a valuable tool for operators in low flow-rate wells.

The tool has a 3-arm, spring-loaded cage that centers the spinner, which runs on precision bearings. The spinner's rotation is sensed by zero-drag Hall-effect detectors, allowing the measurement of low flow rates. Normal output is 10 pulses per revolution with directional indication. To prevent damaging the blades, the spinner and cage assembly collapse down to tool diameter when running through tubing restrictions.

Benefits

- Provides accurate fluid velocity measurements, even of low flow rates

Features

- Fullbore injection and production-flow profiling
- Measurement of low flow rates
- Leak detection and cross-flow
- Interchangeable mechanical sections to match casing size from 4-1/2 to 9-5/8 in.
- Fully combinable with all Ultrawire™ production logging tools
- Connects to either a Flowmeter Electronics (CFBE) or a Capacitance/Temperature/Flow tool (CTF)
- Surface readout or memory-logging operations



HAL24523

| Caged Fullbore Flowmeter (3-Arm CFBM) | | |
|--|---|--|
| Temperature Rating | 350°F (177°C) | |
| Pressure Rating | 15,000 psi (12,000 psi for 1-1/2 in. tool) | 103.4 MPa (82.7 MPa for 38 mm tool) |
| Tool OD | 1-11/16 in. (43 mm), 1-3/8 in. (35 mm), 1-1/2 in. (38 mm) | |
| Tool Length | 2.91 ft (0.89 m) | |
| Tool Weight (dependent on spinner and cage sizes) | 10 lb (4.5 kg) for 1 11/16-in. (43-mm) tool with 7 in. cage | |
| Sensor Measure Point (from bottom of the tool) | 13.5 in. (342.9 mm) | |
| Materials | Corrosion resistant throughout | |
| Output | 10 pulses/revs (directional) | |
| Spinner Threshold | 1.7 ft/min approx (0.01 m/s), 100 B/D (16 m ³ /d) through 7-in. casing | |
| Maximum Fluid Velocity | 500 ft/min (2.54 m/s), 28,250 B/D (4,491 m ³ /d) through 7-in. casing | |
| Casing Range | 4-1/2 in. to 9-5/8 in. | |

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For more information, contact your local Halliburton representative.

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