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TECHNICAL DATA SHEET

CFBM 3

Caged Fullbore Flowmeter 3 Arm

The Caged Fullbore Flowmeter (CFBM) provides high resolution, low friction, flow measurements for use in both producing and injecting wells. It is run at the bottom of the toolstring and is fitted with a large diameter impeller that is specifically tailored for low flow velocities or thru-tubing applications.

The tool has a three arm, spring-loaded cage that centres the spinner in the middle of the flow and supports the tool weight in deviated wells. The spinner blades and cage assembly collapse down to the tool diameter, enabling it to pass through restrictions safely.

A large diameter impeller measures flow rates with coverage over a large cross section of the wellbore. The spinner runs on precision bearings and its rotation is sensed by zero drag Hall effect detectors.

The low mechanical threshold of the tool enables data acquisition in low flowrates.

APPLICATIONS:

- Production well flow profiling
- Injection well flow profiling
- Leak and cross flow detection
- Vertical, deviated and horizontal well logging
- Low flow rate production logging

BENEFITS

- Accurate flow determination from high resolution measurements
- Low start-up friction and large diameter impeller optimised for measurement of low flow velocities
- Combinable with full suite of Production Logging Tools
- Flexibility for interchangeable mechanical sections to suit casing sizes from 4 1/2 - 9 5/8 in
- Deployable on Slickline, Electric line, Coil Tubing or Tractor

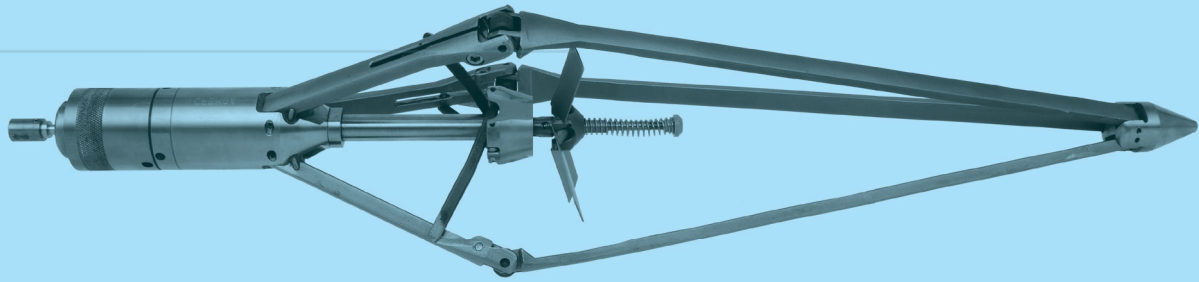


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Specifications

Temperature rating	350°F (177°C)
Pressure rating	15,000 psi (103.4 MPa)
Tool diameter	1 11/16 in (43 mm)
Tool length	2.91 ft (889 mm)
Tool weight	10 lb (4.5 kg) with 7 in cage
Output	10 pulses/rev (directional)
Spinner threshold	Water: 1.8 ft/min (0.0090 m/s) Light Oil: 2.5 ft/min (0.0125 m/s) Heavy Oil: 4.5 ft/min (0.0225 m/s) Gas: 7.0 ft/min (0.0350 m/s)
Maximum fluid velocity	500 ft/min (2.45 m/s) (28,250 bpd in 7 in casing)
Casing range	4 1/2 - 9 5/8 in (114.3 - 244.5 mm)
Materials	Corrosion resistant throughout