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## TECHNICAL DATA SHEET

# CFBM 6

## Caged Fullbore Flowmeter 6 Arm

The Caged Fullbore Flowmeter (CFBM) provides high resolution, low friction, flow measurement 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 six arm, spring-loaded cage that centres the spinner in the middle of the flow and supports the tool weight in deviated wells.

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 it to be used in low flow-rate wells.

### APPLICATIONS:

- Production well flow profiling
- Injection well flow profiling
- Leak and cross flow detection
- Vertical, deviated and horizontal well logging
- Openhole completions
- Gravel Pack completions

### BENEFITS

- Accurate flow determination from high resolution measurements
- Low start-up friction and large diameter impeller optimised for measurement of low flow velocities
- Robust design enables quantification of flow in open hole completions.
- 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

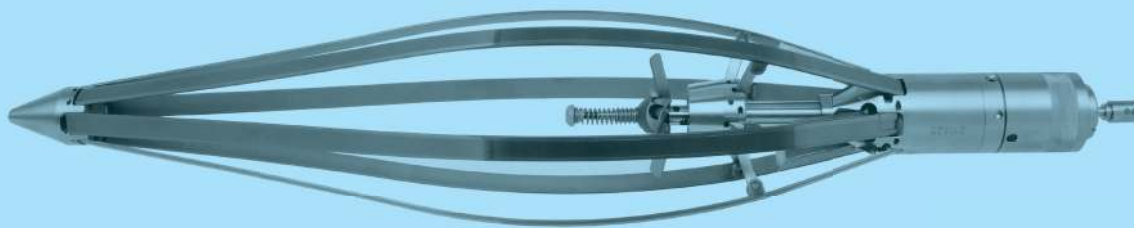


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## Specifications

<b>Temperature rating</b>	350°F (177°C)
<b>Pressure rating</b>	15,000 psi (103.4 MPa)
<b>Tool diameter</b>	1 11/16 in (43 mm)
<b>Tool length</b>	2.91 ft (0.889 m)
<b>Tool weight</b>	10 lb (4.5 kg) with 7 in cage
<b>Output</b>	10 pulses/rev (directional)
<b>Spinner threshold (estimated - dependent on fluid density &amp; viscosity)</b>	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)
<b>Maximum fluid velocity</b>	500 ft/min (2.45 m/s) (28,250 bpd in 7 in casing)
<b>Casing range</b>	4 1/2 - 9 5/8 in (114.3 - 244.5 mm)
<b>Materials</b>	Corrosion resistant throughout