

Continuous Flowmeter Jewelled (CFJM)

The Jewelled Bearing Continuous Flowmeter is designed for logging in high fluid velocity wells, such as gas wells. The tool can be used in sand producing wells.



Description

The Jewelled Bearing Continuous Flowmeter is run at the bottom of the production logging string in combination with a Capacitance/Temperature/Flow tool or CFJ Electronics cartridge. The tool has low friction jewelled bearings to reduce the mechanical threshold of the spinner and improve sensitivity to fluid flow. The spinner is an ideal design for use in high velocity wells.

Rotation is sensed by zero drag Hall effect sensors, allowing the measurement of flow rate. Normal output is 10 pulses per revolution with directional indication.

Features

- Flow profiling in complex well completions and flow regimes.
- Optimised for high fluid velocities.
- Rugged spinner housing protects against debris.
- Injection monitoring.
- Available with closed and ported shroud.
- Spinner shroud available in a range of sizes 1³/₈in, 1¹¹/₁₆in and 2¹/₈in; other sizes available on request.
- Surface read out or memory logging.
- Connects to either a Flowmeter Electronics (CFBE) or a Capacitance/Temperature/Flow tool (CTF).

Specification

Model	1 ³ / ₈ in CTF	1 ¹¹ / ₁₆ in CTF	1 ¹¹ / ₁₆ in std
Temperature rating	350°F (177°C)		
Pressure rating	15,000psi (103.4MPa)		
Shroud diameter	1 ³ / ₈ in (35mm) 1 ¹¹ / ₁₆ in (43mm) 2 ¹ / ₈ in (54mm)	1 ¹¹ / ₁₆ in (43mm) 2 ¹ / ₈ in (54mm)	
Minimum restriction	Shroud OD + 1 ¹ / ₈ in (+3mm)		
Tool length ^a	9in (229mm)		
Tool weight ^a	2.2lbs (1.0kg)		
Sensor measure point	2in (51mm)		
Output	10 pulses/rev (directional)		
Maximum fluid velocity ^a	>4000ft/min (20.3m/s)		
Materials	Corrosion resistant throughout		

a) Depends on CFJM Model.

