Baker Hughes

Continuous Flowmeter Jeweled (CFJM)

Designed for logging in high fluid velocity wells

Application

- Detect production loss due to crossflow or thief zones
- Locate packer and plug leaks
- Identify lost-circulation zones in open holes
- Locate points of increased production due to well treatment
- Flow profiling in complex well completions and flow regimes
- Injection monitoring

Features

- Optimised for high fluid velocities
- Rugged spinner housing protects against debris
- Available with closed and ported shroud
- Spinner shroud available in a range of sizes 1 3/8 in., 1 11/16 in. and 2 1/8 in.—other sizes available on request
- Surface readout or memory logging
- Connects to either a Flowmeter Electronics (CFBE) or a Capacitance/Temperature/Flow tool (CTF)

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

The Jeweled Bearing Continuous Flowmeter is run at the bottom of the production logging string in combination with a **Capacitance/ Temperature/ Flow (CTF) tool** or **CFJ Electronics cartridge**. The tool has low friction jeweled 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.

Specifications

	1 3/8 in. CTF	1 11/16 in. CTF	1 11/16 in. std
Temperature rating	350°F (177°C)		
Pressure rating	15,000 psi (103.4 MPa)		
Shroud diameter	1 3/8 in. (35 mm)	1 11/16 in. (43 mm)	
	1 11/16 in. (43 mm)	2 1/8 in. (54 mm)	
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Minimum restriction	Shroud OD+ 1/8 in. (+3 mm)		
Tool length**	9 in. (229 mm)		
Tool weight**	2.2 lb (1.0 kg)		
Sensor measure point	2 in. (51 mm)		
Output	10 pulses/rev (directional)		
Maximum fluid velocity**	>4,000 ft/min (20.3 m/s)		
Materials	Corrosion resistant throughout		

**Depends on CFJM model