

In-Line Flowmeter

Provides a continuous flowmeter log while in tubing

Applications

Production logging flow and injection profiling

Features and Benefits

- Combines with high-speed digital (HD) telemetry platform production logging services
- Provides flow measurement when placed anywhere in the toolstring
- Features variable sizes for compatibility with minimum wellbore restriction

Tool Description

The Weatherford in-line flowmeter is a compact tool that provides a continuous flowmeter log while in tubing. It acts as a secondary or back-up flowmeter to the full-bore or fixed-cage spinners while logging in casing or liners. Available in three sizes, the flowmeter is robust, reliable, and simple to service.

As with all HD tools, the internal temperature is recorded to nonvolatile memory that enables maintaining detailed temperature exposure records.



In-Line Flowmeter

Specifications

Ratings and Dimensions

Outside diameter	1.69 in. (43.3 mm)	2.125 in. (54 mm)	3.15 in. (80.01 mm)
Weight	10.3 lb (4.7 kg)	11 lb (5 kg)	12.1 lb (5.5 kg)
Length	25.4 in. (8.5 mm)		
Maximum temperature	350°F (177°C)		
Maximum pressure	15,000 psi (103.4 MPa)		
Flow measure point	10.96 in. (278 mm)		

Sensor Measurement

Output	10 pulses per revolution
Threshold	10 ft/min (3 m/min)
Maximum fluid velocity	3,000 ft/min (916 m/min)

Hardware Characteristics

Combinability	All HD tools (RADii®, iQ™, PL, RAS™)
Materials	Corrosion-resistant materials throughout
Acquisition mode	Real time with telemetry control (TCU) Memory with memory logging tool (MLT)

Electrical

Current	6mA at 50 V 14mA at 19 V
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