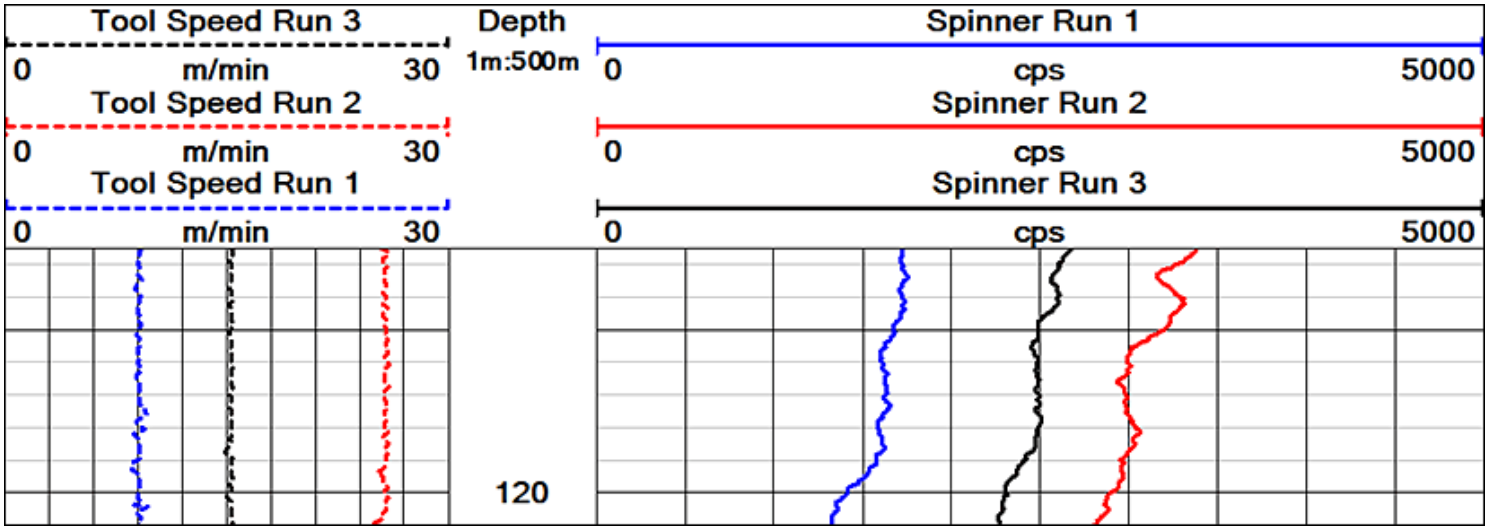
QL40-SFM Spinner Flowmeter



Description

The QL40-SFM Spinner Flowmeter probe measures impeller rotation caused by fluid flow in the borehole. It uses a magnetically coupled pick-up which drives a low friction, high resolution encoder located inside the lower pressure housing. The encoder produces 256 pulses per shaft rotation. It has quadrature sensing electronics that instantaneously detect flow direction changes.

The QL40-SFM tool is stackable within the Quick Link (QL) product line or it can be run as a standalone tool.

Applications

- Pumping flow profiles in screened or perforated cased holes
- Identification of hydrostratigraphic units
- Determine quantitative interval specific flow rates
- Confirmation of predicted transmissive zones in open hole

Operating Conditions

Borehole Fluid
[X] Water
[_] Mud
[_] Dry

Casing
[X] Uncased
[X] PVC Borehole

[X] Steel

Centralization
[_] Required
[X] Not Necessary

Features & Benefits

- In comparison with tools from competitors, the QL40-SFM records exceedingly accurate flow data, collecting 256 pulses per shaft rotation.
- Supplied with 3” or 4” cages to provide optimum results in a variety of borehole diameters
- Operates on any standard wireline (Mono, 4, 7 conductor, or Coax)
- Slim, 40 mm diameter. One-person operation.
- Can be combined with other logging tools of the QL product line or operated as a standalone tool.

Specifications – Metric/English

Specification	Metric	Imperial
Diameter	40 mm	1.57″
Length	0.9 m	35.4″
Weight	3.2 Kg	7 lbs.
Max. Temp.	70ºC	158ºF
Max. Pressure	200 bar	2900 psi

Sensor: Pick-up Sensor
Spinner Range: 0-3000 rpm
Accuracy: better than 1%
Resolution: 256 ppr

QL Stack Possibilities

- **QL40SFM** + QL40GR (Gamma): Identify and Characterize Flow zones
- **QL40SFM** + QL40CAL (Caliper): Borehole volume, Quantitative Flow Calculations
- **QL40SFM** + QL40GR (Gamma) + QL40CAL (Caliper): Water well Production Investigations

Documentation

User Guide