HIGH RESOLUTION SPINNER FLOWMETER

The Spinner, or Impeller, Flowmeter is used to measure the velocity of fluid moving vertically in a wellbore or open borehole. The flowmeter utilizes a lightweight, helical impeller at the bottom of the probe, supported by two low-friction sapphire bearings. This arrangement provides high-resolution detection of changes in fluid velocity as a result of groundwater flow (inflow or outflow) in the wellbore.

COLOG utilizes two separate channels of communication for differentiation of upflow and downflow impeller rotation, allowing for more accurate interpretations involving complex directional flow. The identification of downflow versus upflow is especially useful under ambient (static) logging conditions. Stressed testing can be done under extraction or injection conditions, providing a versatile flow range to accommodate most flow-logging needs.

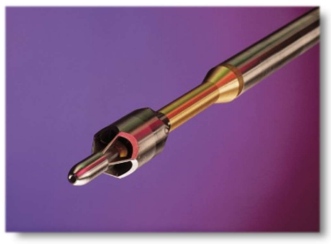
The spinner flowmeter can be run in open boreholes or wells with perforated casing, and is suitable for small and large diameter holes.

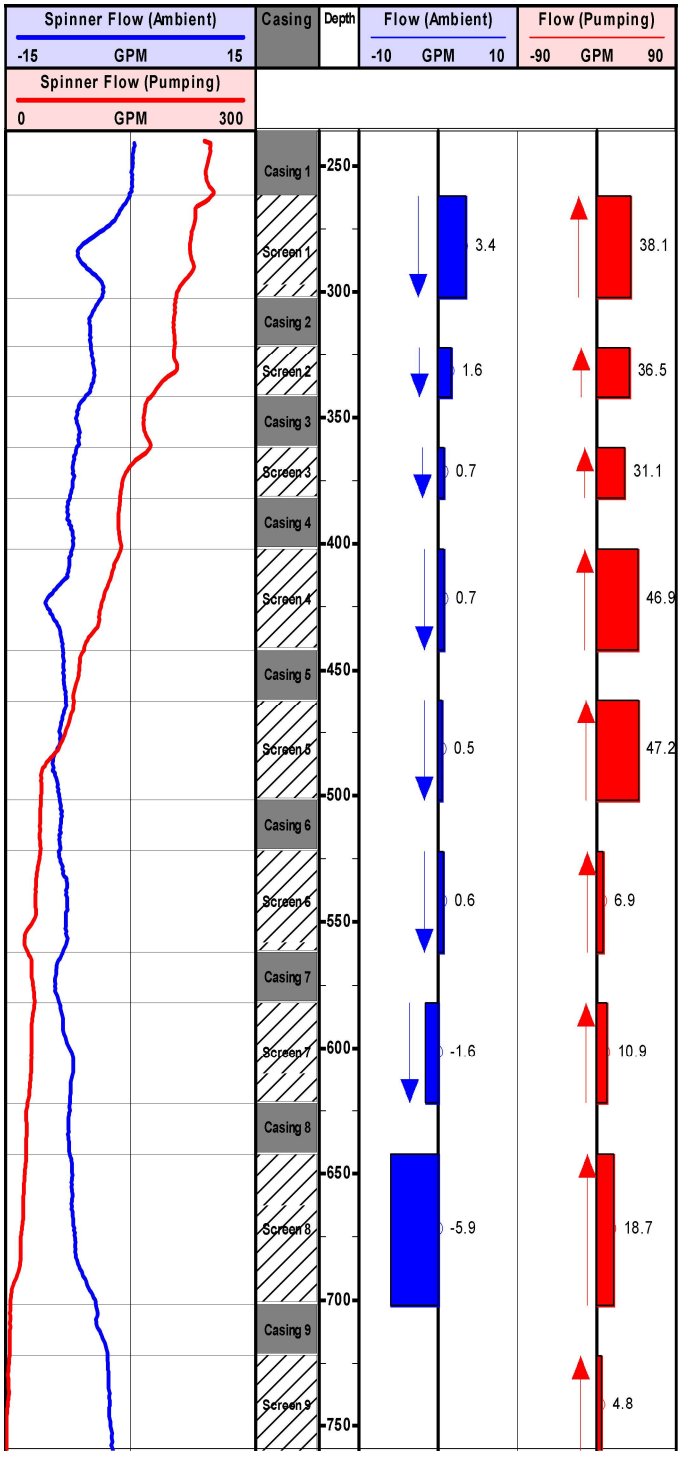
APPLICATIONS:

+ Water Quality Evaluation Coupled w/ Downhole Sampling
+ Environmental Impact Studies
+ Vertical Distribution of Flow in Multi-Screened Wells
+ Small Diameter Boreholes, Deep Water-Level

PROBE SPECIFICATIONS:

Diameter:	45 mm (1.77 in.)
Length:	1.57 m (5.17 ft.)
Max Temperature Rating:	70˚C (158˚F)
Max Pressure Rating:	200 bar (2900 psi)
Borehole Diameter Range:	51 – 1520 mm (2.0 – 60 in.)





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