

# CONTINUOUS SPINNER FLOWMETER



Continuous Spinner Flowmeter (CSF) is designed to measure a wide range of flow rates inside the tubing or when the Full-Bore Spinner Flowmeter collapses. The tool is available in both memory and SRO modes.

## Applications

- Accurate fluid flow measurement in small diameters from 2 7/8 to 5 1/2" casings
- Detailed production/injection profiling
- Leak detection
- Perforations/SSDs/frac ports performance evaluation

## Advantages

- Needle-type diamond bearings for extra low friction and easy rotation of the impeller
- Wide range of detectable flowrates



## Tool Specifications

|                                 |   |
|---------------------------------|---|
| Threshold                       | 0.1 ft/min (2 m/hr)                       |
| Detectable flowrate range       | 19-15,860 bpd (3-2,521 m <sup>3</sup> /d) |
| Impeller diameter               | 1.38 in (35 mm)                           |
| Maximum operating pressure      | 14,500 PSI (100 MPa)                      |
| Maximum operating temperature   | 150°C (304°F)                             |
| Tool OD                         | 1.50/1.65 in (38/42 mm)                   |
| Tool length                     | 2.3 ft (0.7 m)                            |
| Tool weight                     | 7.7 lbs (3.5 kg)                          |
| Connections                     | 15/16 SR                                  |
| Operational time in memory mode | Over 100 hrs                              |
| H <sub>2</sub> S resistance     | 6% standard (25% optional)                |
| Surface read-out / Memory       | Both                                      |

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The CSF in combination with the ILS allows for continuous production profiling in small ID completions to provide higher assurance of data acquisition.

