




Caged Fullbore Spinner Flowmeter (CFSF)

OVERVIEW

The caged full-bore spinner flowmeter (mechanical section) is run at the bottom end of the production logging tool (PLT) string. The spinner consists of an impeller and a cage, which may be collapsed to the size of tool diameter for running in and pulling out of the tubing. The cage assembly is designed to protect the impeller and to center the tool in highly deviated wells. Two models of caged full-bore spinner flowmeters are available: the 3-arm and 6-arm models.



APPLICATION

-  Production and injection profiling in the casing
-  Low flow rate
-  Detection of leaks and crossflow

SPECIFICATIONS

Parameters	Description
Max Working Temperature	175°C (350°F)
Max Working Pressure	103MPa (15,000psi)
Tool OD	35mm (1 3/8") / 43mm (1 11/16")
Pipe Size	4 1/2" - 9 5/8"
Flow Output	10 pulses/rev. with direction indication
Threshold	0.48m/min (1.6ft/min) in pure water 0.91m/min (3.0ft/min) in light oil 2.13m/min (7.0ft/min) in heavy oil 3.81m/min (12.5ft/min) in air
Max. Velocity	487.68m/min (1600 ft/min)