

PRODUCT INFORMATION:



DESCRIPTION

The CFF combines a two-axis (X-Y) caliper with a fullbore flowmeter in a single, short logging tool. The spring cage of the flowmeter provides sufficient centralisation force to eliminate the requirement for a lower centraliser when deployed with a typical production logging string.

The four-arm device is fitted with Owen Instrumentation's unique 'Proportional Blade' technology allowing the spinner blades to rotate whilst the caliper arms close. This enables a range of tubing casing to be logged using only a single tool. The CFF is fitted with Owen Instrumentation's industry standard MonoPin Bus (MPB) system. On-board temperature compensation ensures an accurate caliper measurement under all conditions.

A novel roller design minimises wear and reduces maintenance costs, whilst optional larger rollers ensure the optimum stand-off from casing.

PRODUCT FEATURES:

- > Combines independent X & Y caliper measurements with Fullbore Flowmeter to reduce tool length and cost.
- > Large range of ID's can be logged with a single tool due to unique 'Proportional Blade' design.
- > Bearing design in rollers reduces friction for better deployment in high deviated wells.
- > More accurate flowrate calculation due to well cross sectional area measurement from XY caliper.

PRODUCT APPLICATIONS:

- > Wells where flow needs to be logged through multiple diameters or where is uncertainty about well ID.
- > Rigups where tool length needs to be kept to a minimum.
- > High flow rate injection wells where there is a concern about flowmeter being blown closed.

SPECIFICATIONS COMMON:

TEMPERATURE	177C / 350F
FISHING STRENGTH	30,000 lbs / 13,600Kg
FLOWMETER ACCURACY	<2% error
CALIPER ACCURACY	0.05" / 1.2mm
VOLTAGE	12vdc
FLOWMETER	100-20,000 bbl/day 7" casing (100RRPS)
FLOWMETER RESOLUTION	10 pulses/revolution directional
CALIPER RESOLUTION	0.02" / 0.25mm

SPECIFICATIONS:

	CFF-A	CFF-C	CFF-J	CFF-H
PART NUMBER	106-99001	106-99003	106-99027	106-99033
LENGTH	35" / 889 mm	37" / 940 mm	37" / 940 mm	35" / 889 mm
DIAMETER	1 11/16" / 43 mm	1 3/8" / 35 mm	1 3/8" / 35 mm	1 11/16" 43 mm
PRESSURE	20,000psi	15,000psi	15,000psi	20,000psi
WEIGHT IN AIR	12.1 lbs / 5.5 Kg	8.6 lbs / 3.9 Kg	8.6 lbs / 3.9 Kg	12.1 lbs / 5.5 Kg
CASING RANGE (CAGE)	5.5 - 9.625"	4.5 - 7"	4.5 - 7"	5.5 - 9.625"
RANGE (CALIPER)	2.5 - 9"	2.5 - 7"	2.5 - 7"	2.5 - 9"
TELEMETRY INTERFACE	Owen Instrumentation MPB	Owen Instrumentation MPB	Client Specified	Client Specified
CURRENT	25 mA	25 mA	15 mA	15 mA