



Diverter Basket Flowmeter

DESCRIPTION

The Sondex Diverter Basket Tool may be used in SRO mode using an XMW or XSH or in memory mode using an MPL recorder. It is run in the hole in the closed position, is opened after exiting the tubing and closed before re-entering the tubing. The tool utilizes a patented fabric diverter element to divert well bore flow up through a modified in-line spinner.

By reducing flowcross-sectional area this allows measurement of very low flowrates. Also in multi-phase wells the tool minimises the effects of fluid segregation. For more accurate holdup measurements a shroud may be fitted to the exit of the in-line spinner housing to redirect flow past the fluid identification tools above.

OPERATING PRINCIPLE

The 12 arm cage is opened and closed by a motor section at the lower end of the tool with motor power supplied by a high current Lithium battery or the line. The tool is opened and closed in response to temporarily interrupting the line power from surface or from the MPL memory recorder. For safety the tool will not open if motor battery voltage is less than 14v, it will close if the spinner rotation exceeds a pre-set level (where the PLT string is in danger of being lifted up the well), or if battery voltage drops to below 14v.

APPLICATIONS

- Low or Medium Flowrate Wells
- Multiphase (especially inclined) Segregated Flow
- All deviations subject to controllable upthrust.

SPECIFICATIONS

Mode	SRO via Crossover OR using Memory	
Supply Voltage	Tool +12vDC - Motor Battery +18vDC	
Current	Tool 8mA - Motor max 600mA	
Output	10 pulses per spinner revolution	
Max. Pressure	12,000psi for 1 1/2"	
Max. Temperature	350 degree F (177 C)	
Casing Diameters	3 1/2 - 9 5/8"	90- 245mm
Tool Length	70.7"	1796mm
Measure Point	47.7"	1212mm
Diameters available	1 1/2	38mm
Materials	Corrosion Resistant Throughout	
Measurement range	Minimum 6-8cu m per day	
	Maximum Approx. 400cu m/d (6psi drop ~120lb uplift in 5 1/2" casing)	

