

Diverter Basket Flowmeter (DBT)



HAL24539

Halliburton's Diverter Basket Flowmeter (DBT) is an ideal way to determine fluid velocity for vertical or deviated wells. The DBT is designed to provide accurate measurements from a stationary position for low or medium flow-rate wells. As part of an Ultrawire™ toolstring, it operates in tandem with other Ultrawire tools, increasing the coordination between logging tools and applications. An extender flow tube can also be attached, enabling its use with a Fluid Density Radioactive (FDR) tool.

The DBT has a motor-controlled fabric basket to divert wellbore flow through a modified in-line spinner, which allows for accurate measurement of the fluid velocity of all the fluids flowing along the wellbore at the position of the skirt. The basket effectively reduces the flow cross-sectional area, allowing measurements in very low fluid velocities. Since both the area and fluid velocity is known, the flow rate can be determined immediately when this spinner is used. In multiphase fluids, the tool minimizes the segregation effects between the lighter and heavier fluids. For more accurate holdup measurements, a shroud may be fitted to the exit of the inline spinner housing to redirect flow through a radioactive density tool. The basket is opened and closed by a motor section at the lower end of the tool, powered by

a high-current lithium battery. The DBT is run into the hole while closed, and opened at stationary positions after exiting the tubing, before repositioning or re-entering the tubing, the basket must be closed.

Benefits

- Provides accurate flow-rate and velocity measurements in the wellbore
- Brings flexibility to the rigsite through attachments and diameter options
- Flow measurements are made in the stationary mode for both low or medium flow-rate wells
- Improved velocity and flow measurements in multiphase and segregated fluids

Features

- Various sizes are available up to 9 5/8-in. diameter
- An extender flow tube can be attached for use with an FDR
- Fully combinable with all Ultrawire production-logging tools
- Surface readout or memory-logging operations
- Baskets for casing sizes from 3 in. to 9-5/8 in.

Diverter Basket Flowmeter (DBT)	
Temperature Rating	350°F (177°C)
Pressure Rating	15,000 psi (103.4 MPa)
Tool Diameter	1-11/16 in. (43 mm)
Tool Length (without battery pack)	53.80 in. (1,367 mm)
Tool Weight (without battery pack)	19 lb (8.6 kg)
Toolbus	Ultrawire™
Spinner Output	10 pulses/revolution
Measurement Range	7 to 1,000 B/D (1 to 159 m³/s) (DBT013)
Up-Thrust (Pressure Differential)	$\Delta P \sim 2$ psi @ 1,100 B/D (175 m³/s) (1 11/16-in. tool in 7-in. casing)
Maximum Flow Before Auto Close	1,250 B/D (199 m³/s) (approximately)
Materials	Corrosion resistant throughout

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