ONLINE TECHNICAL SPECIFICATION SHEET



IQ™ MAGNETIC PROPERTIES TOOL - PTX - 3 1/2 IN.





SKU: 050-CI350-0001

Categories: Cased Hole Wireline, Electro-Magnetic Thickness, iQ™, PTX, Well

<u>Integrity</u>

PRODUCT DESCRIPTION

The 4-segment receiver of the iQ^{TM} Magnetic Properties Tool (PTX) measures the casing in 90° sections (quadrants). The tool produces a magnetic field that opposes the primary field casing attenuation and phase shift. The magnitude of the measured phase shift is a function of the electrical conductivity, magnetic permeability and metal thickness of the field being measured. Multiple coil spacing and frequencies control the depth of investigation and measure the electromagnetic properties of the casing, that yield a quantitative casing thickness and internal diameter measurements.

Ratings & Dimensions

 Max Temperature
 350°F (177°C)

 Maximum Pressure
 20,000 psi (138 MPa)

 Outer Diameter
 2.75 in (69.85 mm)

 Length
 68.4 in (1737.36 mm)

 Weight
 130.0 lb (177.0 kg)

Csg/Tbg OD Min: 4.5 in (114.3 mm) Max: 9.625 in (244.46 mm)
Tensile Strength Tension: 15,000 lb Compression: 15,000 lb

Measure Points Thickness: 32.66 in (829.6 mm) Caliper: 25.62 in (650.8 mm)

Borehole Conditions

Tool Positioning Centralized

Logging Speed Recommended: 30 ft (9.1 m) /min

Max: 60ft (318.2 m) /min

Hardware Characteristics

Source Type: Single and multi frequency AC coils

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Azimuthal thickness gauge with quadrant sensitivity

Sensor Type Multi-frequency caliper and casing properties

3-axis accelerometer for tool orientation

Connections E-Line 'GO' Type

Combinability GR, CCL, MAC, Radii Bond Tool

Electrical Specification

Current + 45 mA @ 130V

Measurements

Casing ThicknessCasing CaliperPrincipleRemote-field ECNear-field ECRange0 to 1.50 in4.5 to 9.625 inAzimuthal Resolution4 sectorsNA

Vertical Resolution1.56 in1.00 inSensitivity1% (2 inch through-hole)1%

Accuracy $\pm 1\%$

Primary Curves Casing & differential thickness Casing ID

Secondary Curves 3-axis accelerometer, internal temperature, casing electrical properties

Calibration

Primary & Wellsite Sections of API casing in different weights

Version Control: 2021.12.16

On-line specifications are for REFERENCE ONLY and subject to change without notice. DO NOT USE FOR FIELD OPERATIONS.

