

# MTE - CEMENT PERMEAMETER

MODEL No. CMNT-006

## DESCRIPTION

The MTE Cement Permeameter is used to measure the permeability of cured oilwell cements to water. The cement permeameter utilizes a stainless steel core holder which firmly compresses a rubber sleeve around the cement cylinder. The test fluid (water) is contained in an accumulator, and nitrogen is utilized to induce pressure upon the test fluid. By measuring the inlet pressure, the outlet pressure, and the flowrate through the core, the permeability of the specimen may be calculated via Darcy's law.

$$K \text{ (md)} = \frac{Q_u L}{A (P_i - P_o)}$$

The MTE Cement Permeameter is compact and lightweight and may be utilized in the laboratory or in the field. All machined parts are manufactured to exacting tolerances from 316 stainless steel. High quality valves, pressure gauges, and fittings are utilized throughout the instrument to provide durability and reliability.

## CERTIFICATION

The MTE Cement Permeameter is pressure tested and performance checked by Messina (prior to shipment) and is guaranteed against manufacturing defects. Each unit comes complete with operating instructions, one years spare parts, and spare parts list.

