

Gas Permeameter

GP-R30



Description:

The gas permeability measurement apparatus is designed to measure the permeability of plug-sized core samples to gases (such as air, nitrogen, etc.) at room conditions and reservoir overburden pressures up to 20 bar using the steady-state method. The instrument allows for the investigation of slip factor and Klippenberg permeability versus reciprocal mean pressure relationship at different flow rates, back pressures, and injection pressures by injecting gas through the test sample. The differential pressure on both sides of the core is measured using two differential pressure transmitters, and a precise gas mass flow meter is employed to measure the gas flow rate through the sample.

Technical Specification:

- Core holder (easy load)
- Core diameter: 1.5"
- Maximum core length: 3.5"
- Maximum injection pressure: 10 bar
- Maximum confining pressure: 20 bar
- Differential pressure transmitters $\times 2$
- Differential pressure transmitter accuracy: 0.1% full scale
- Permeability range: 0.001-5000 mD
- Mass flow meters $\times 2$
- Flow rate range: 0-20 cc/min, 5-2000 cc/min
- Mass flow meter accuracy: 0.5% full scale
- Pressure gauges $\times 2$
- Dead billet for confining examination $\times 1$ set
- Special software for considering slippage factor and Klippenberg effect



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