



Design and Manufacture of
Oil and Gas Equipment

Steady State Gas Permeameter

This apparatus is constructed to measure permeability of plug sized samples. The device uses precision mass flow meters and pressure transducers to bring steady-state gas flow measurements to a new level of sophistication, and is operational in oil and gas industries and educational studies. The instrument is designed for the injection of gas through the test sample at various conditions of pressure and flow rates. The gas permeability can be directly measured, then the liquid permeability can be calculated using Klinkenberg permeability versus reciprocal mean pressure.





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FEATURES

Permeability ranges: 0.01 mD - 10 D

Flow pressure: 0 to 200 psi

Gas flow: 0 - 50 or 0 - 500 cc/min

Temperature: ambient

Pressure transducer accuracy: 0.1% F.S.

Flow accuracy: 1 % F.S.

Nitrogen supply: 300 psi

Power: 220 VAC, 50/60 Hz

Core diameter: 1" or 1.5"

Core length: up to 3.1"

Components:

Core holder

Confining pump

Gas flow meter

Pressure transducer

Regulator

Data acquisition

