

PMI Liquid Permeameter

Description

The PMI Liquid Permeameter is used to perform fast and accurate measurements of liquid permeability. PMI's Liquid Permeameter is user-friendly, features non-destructive testing, and accommodates a wide variety of samples. The Liquid Permeameter also allows testing under ambient or elevated temperatures to simulate actual operating conditions.

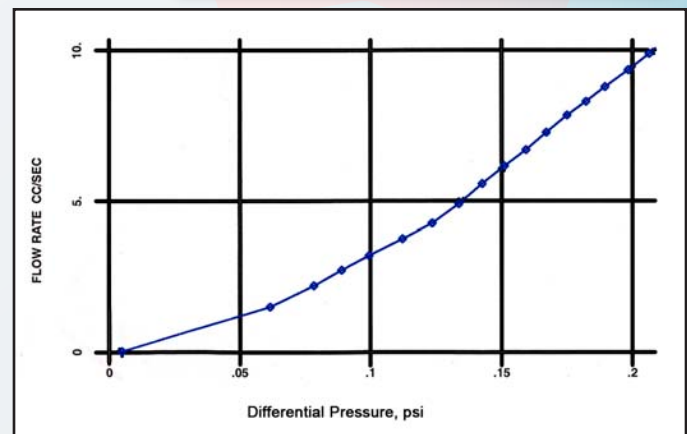
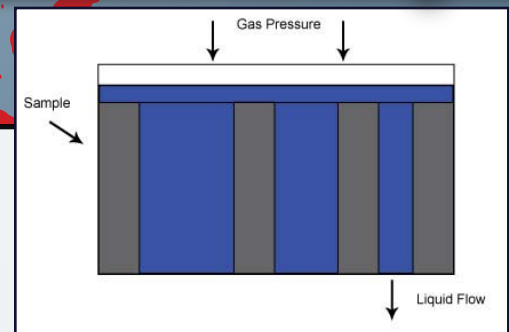


Principles of Operation

The flow of liquid through a sample is measured by the distance a column of liquid drops in relation to time and pressure. This method gives reproducible results, even for hydrophobic materials, as pressure can be applied up to 200 psi to the liquid column to force the liquid through the sample. Very low permeability samples are tested using an accurate weighing balance to measure liquid flow rate.

Features

- Windows-based software handles all control, measurement, data collection, and report generation; complete manual control also possible
- Compatible with Windows 95 or higher
- Real-time graphical test display depicts testing status and results throughout operation
- Nondestructive testing
- Length of test is approximately 10 minutes
- Wide range of acceptable sample types and sizes
- Multiple sample chambers available
- Minimal maintenance required
- A variety of materials including vegetables, meat, etc. can be tested



Optional Features

- High Temperature Operations
- Permeability of Strong Chemicals
- Liquid Permeability incorporable as part of other PMI instruments

Applications

Industries worldwide utilize the PMI Liquid Permeameter for R&D and quality control. Samples tested include filter media, membranes, paper, and battery separators.

Industries: Automotive, Battery Separator, Filtration, Geotextiles, Textiles, Nonwovens, Paper, Food

Specifications

Permeability Range

0 - 500 darcies

Sample Size

1.75" - 2.5" diameter (other available)

Pressure Range

0 - 200 psi

Pressurizing Gas

Clean, dry, compressed air or nonflammable, non corrosive gas

Pressure Transducer Range

0 - 200 psi

Resolution

1 in 20,000

Accuracy

0.15 % of reading

Power Requirements

110/120 VAC, 50/60 Hz (Others available)

Dimensions

30" H x 19" W x 18.5" D

Weight

100 lbs

Other Products

Bubble Point Tester
Capillary Flow Porometer
Complete Filter Cartridge Analyzer
Clamp-On Porometer
Compression Porometer
Cyclic Compression Porometer
Envelope Surface Area Analyzer
Filtration Media Analyzer
High Flow Porometer
Integrity Analyzer
QC Porometer
Integrity Analyzer

In-Plane Porometer
Custom Porometer
(*multi-chamber & multi-mode*)
Custom Permeameters
Diffusion Permeameter
Gas Permeameter
Liquid Permeameter
Vapor Permeameter
Water Vapor Transmission Analyzer
Liquid Extrusion Porosimeter
Mercury/Nonmercury Intrusion
Porosimeter

Nanopore Flow
Porometer
BET Liquisorb
BET Sorptometer
Gas Pycnometer
Mercury Pycnometer

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