

QC Porometer

Applications:

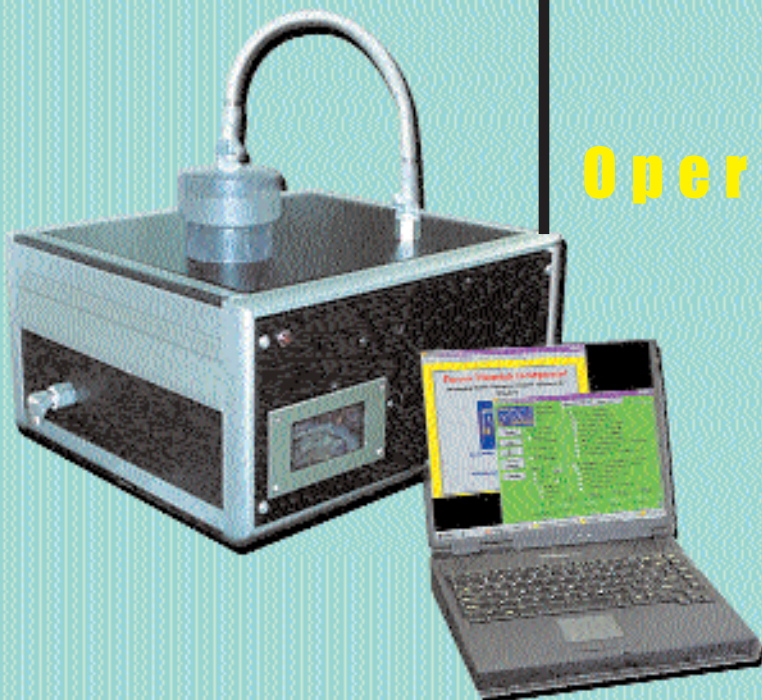
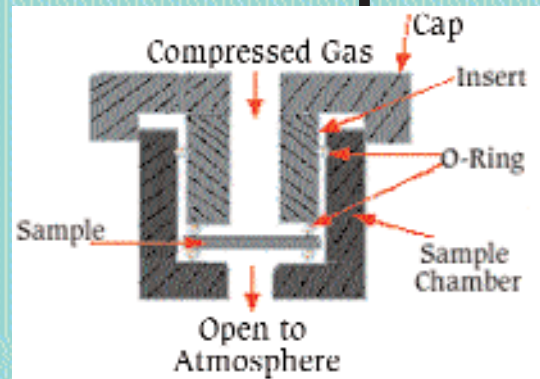
Industries world-wide, including filtration, nonwovens, ceramics, pharmaceuticals, paper, battery and powder technologies, use the PMI QC Porometer for quality and process control.

Features:

- ◆ Fully automated and user friendly
- ◆ Only a few minutes per test
- ◆ Very little operator time and involvement
- ◆ Ideal for quick generation of highly reproducible data
- ◆ Variety of sample shapes and sizes

Tests:

- ◆ Bubble Point
- ◆ Mean Pore Size
- ◆ Gas Permeability
- ◆ Frazier Permeability
- ◆ Gurley Permeability
- ◆ Rayles Permeability
- ◆ Pressure Hold
- ◆ Hydro-Head
- ◆ Pore Size Distribution



Operating Procedure:

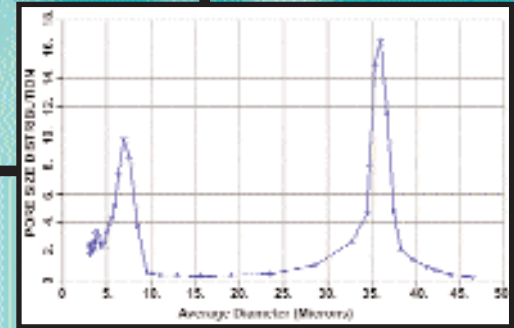
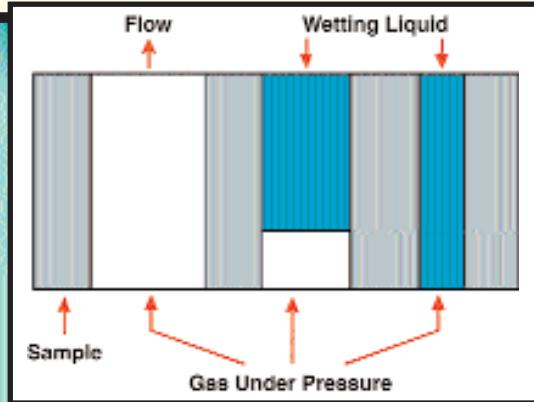
- ◆ Place wetted sample in sample chamber.
- ◆ Click on Autotest, and then click start. This action runs the test, stores and displays data
- ◆ When test is finished, replace sample for next test.

Principle of Operations:

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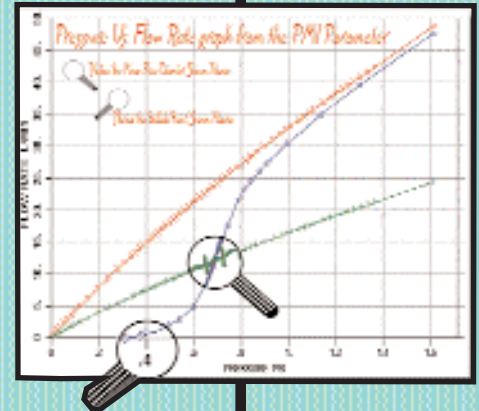
1-800-TALK-PMI

A fully wetted sample is placed in the sample chamber. The chamber is sealed, and gas is then allowed to flow into the chamber behind the sample to a value sufficient to overcome the capillary action of the fluid in the pore of the largest diameter. This is the Bubble Point. The pressure is further increased in small increments, resulting in flow that is measured until the pores are empty of fluid. These flow-versus-pressure data are stored and displayed in real-time. When the sample is dry, the pressure is decreased in steps, producing a dry curve, and from those results the computer calculates the pore parameters.



Specifications:

Fluid	Surface Tension dynes/cm	Smallest Detectable Pore Diameter	
		Microns 100 PSI	Microns 200 PSI
Water	72	0.299	0.149
Mineral oil	34.7	0.144	0.072
Petroleum distillate	30	0.125	0.062
Denatured alcohol	22.3	0.093	0.046
Silwick™	20.1	0.083	0.042
Porewick™	16	0.066	0.033
Galwick™	16	0.066	0.033



- Flow Rate:** up to 200 slpm
- Pressure Accuracy:** 0.15% of reading
- Largest Pore:** 150 microns (water)
- Size Detectable:** 50 microns (Porewick, Silwick, Galwick)
- Sample Size:** 0.25" to 2.5" (.6 to 6.25 cm) in Diameter from microns to 1" (2.5 cm) thick

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