

Unsteady State Relative Permeameter

Determination of water-oil relative permeability of a plug Unsteady State Method

Relative permeability is the ratio of the effective permeability of a fluid to the absolute permeability of the rock that is an indication of motion ability of the fluid in the presence of another fluid in a porous medium. It is totally affiliated to saturation level.

Experiment Description

Water (or oil) is injected at a suitable pressure to the plug, which is saturated with oil (or water). By measuring the volume of the produced oil and water at the outlet, water-oil relative permeability curves can be obtained for imbibition or drainage utilizing Jones & Roszelle Method.



Specification	URP-PS02
Pressure Accuracy	0.05% F.S.
Core Length	2" to 3"
Working Temperature	120 °C
Max. Pore Pressure	10,000 Psi
Max. Confining Pressure	10,500 Psi
Core Diameter	1.5"
Core Holder Orientation	Horizontal
Number of Differential Pressure Transmitter	2(145 Psi, 1450 Psi)
Input Power Supply	220 VAC, 50/60Hz
Pressure Taps: Inlet and Outlet of Core Holder	✓
Downstream Pressure Controller	✓
Hydraulic Hand Pump	✓
Digital Upstream and Downstream pressure (Indicator)	✓
Digital Confining and Back Pressure (Indicator)	✓
Digital Cell Pressure (Indicator)	✓
Special Designed Hassler Type Core Holder for Relative Permeability	✓
High Pressure HPLC Pump is included	✓
Computer System	✓
User Friendly Automated Data Acquisition, Calculating Software	✓
Stainless Steel Material	✓
Automatic Valve for DP Protection	✓
Ambient Fluid Separator	✓
Fraction Collector	✓
Automatic Fluid Production Monitoring System	✓

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