

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-PR01	URP-PR05
Pressure Accuracy	0.1% F.S.	0.1% F.S.
Core Length	2" to 3"	2" to 3"
Working Temperature	120 °C	120 °C
Max. Pore Pressure	6,000 Psi	6,000 Psi
Max. Confining Pressure	6,500 Psi	6,500 Psi
Core Diameter	1.5"	1.5"
Core Holder Orientation	Horizontal	Horizontal
Number of Accumulators	4	4
Input Power Supply	220 VAC, 50/60Hz	220 VAC, 50/60Hz
Pressure Taps: Inlet and Outlet of Core Holder	✓	✓
Stainless Steel Material	✓	✓
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	✓	✓
Automatic Data Acquisition and Monitoring System	✓	✓

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