

## **Unsteady State Relative Permeameter**

Measurement of two phase relative permeability of a plug sample

Relative permeability is the ratio of the effective permeability of a fluid to the absolute permeability of the rock that is an indication of flowing behavior of different fluids in a porous medium.

## **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-	URP-	URP-	URP-
	BR02	BR05	BR12	BR15
Pressure Accuracy	0.5% F.S.	0.5% F.S.	0.05% F.S.	0.5% F.S.
Core Length	2" to 3"	2" to 3"	2" to 3"	2" to 3"
Working Temperature	Ambient	Ambient	Ambient	Ambient
Max. Pore Pressure	6,000 Psi	6,000 Psi	6,000 Psi	6,000 Psi
Max. Confining Pressure	6,300 Psi	6,500 Psi	6,500 Psi	6,500 Psi
Core Diameter	1.5"	1.5"	1.5"	1.5"
Core Holder Orientation	Horizontal	Horizontal	Horizontal	Horizontal
Number of Accumulators	4	4	2	2
Input Power Supply	220 VAC,	220 VAC,	220 VAC,	220 VAC,
	50/60Hz	50/60Hz	50/60Hz	50/60Hz
<b>Pressure Taps: Inlet and Outlet of Core</b>	✓	✓	✓	✓
Holder	·	· .		, i
Stainless Steel Material	✓	✓	✓	✓
<b>Downstream Pressure Controller</b>	✓	✓	✓	✓
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	×	✓	×	✓

## Contact info: