

Unsteady State Relative Permeameter

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.

Fluid is injected at a suitable pressure to the plug. By measuring the volume of the produced fluids at the outlet, water-oil/gas-oil relative permeability curves can be obtained for imbibition or drainage utilizing Jones & Roszelle Method.



Specification	URP-BR02	URP-PR01	URP-PS02	URP-PR12
Maximum Core Length	3 in.	3 in.	3 in.	1 ft
Working Temperature	Ambient	90 °C	150 °C	90 °C
Maximum Pore Pressure	6,000 Psi	6,000 Psi	10,000 Psi	6,000 Psi
Maximum Confining Pressure	6,500 Psi	6,500 Psi	10,500 Psi	6,500 Psi
Maximum Core Diameter	1.5 in.	1.5 in.	1.5 in.	4 in.
Hassler Type Core Holder Orientation	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical
Differential Pressure Transmitter	Dual Range	Dual Range	Dual Range	Dual Range
Number of Accumulator	2	2	2	2
Wetted Parts Material	Stainless Steel 316	Stainless Steel 316	Stainless Steel 316/Hastelloy	Stainless Steel 316/Hastelloy
Input Power Supply	220 VAC, 50/60Hz	220 VAC, 50/60Hz	220 VAC, 50/60Hz	220 VAC, 50/60Hz
Downstream Pressure Controller	✓	✓	✓	✓
Hydraulic Hand Pump	✓	✓	✓	✓
Digital Pressure Indicator	✓	✓	✓	✓
Pressure Accuracy	0.05% F.S.	0.05% F.S.	0.05% F.S.	0.05% F.S.
Automatic Control & Data Acquisition System	✗	✓	✓	✓
Data Acquisition System	✗	✓	✓	✓
Ambient Fluid Separator	✗	✓	✓	✓
Fraction Collector	✗	✓	✓	✓
Gas Flow Meter	✓	✓	✓	✓

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