Gas Permeameter LGPM70

General Features

Designed to perform Permeability and Porosity measurement, the LGPM70 includes one or two core holders, in order to receive various range of core sample in which circulate He, air or N2 from a standard bottle. Pressure transducers placed at the inlet and outlet of the core holder and three accurate flow meters help to calculate and evaluate unsteady state gas permeability and Klinkenberg effect. An automated back pressure valve attached on the outlet insures automatically the back pressure regulation.

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Confining Pressure</td>
<td>0 to 700 or 1000 bar (10 000 or 15 000 psi)</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>Ambient</td>
</tr>
<tr>
<td>Flow Pressure</td>
<td>0 to 20 bar (300 psi)</td>
</tr>
<tr>
<td>Permeability Range</td>
<td>10 D to 10^{-4} mD</td>
</tr>
<tr>
<td>Fluids</td>
<td>Helium, Air, Nitrogen (other fluids in option)</td>
</tr>
<tr>
<td>Core Size</td>
<td>Adjustable</td>
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</tbody>
</table>
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ST LGPM70 also integrates a steady state method for very low permeability using Decay method with two tanks with adjustable volumes.

The LGPM70 uses as well bi-axial core holders that can apply an independent axial load. Naturally, this equipment is also a porosimeter.

Others

This system is composed of following elements:

- Core Holder (number to be defined upon request)
- Confining Pressure Module
- Gas Circulate Module
- Flow Measuring System composed of gas flow meters
- Cylinder with measured and adjustable volume
- Delta P Measurement System
- Data Acquisition Module
- Control Cabinet

Core Holder

Standard Sample

Control Station