

Core Acidizing

CA-S30



Description:

The core acidizing system is designed to inject an acid solution into a rock sample at reservoir conditions, modifying the natural permeability of the rock by dissolving minerals present in it. The wetted material, Hastelloy, allows the investigation of the efficiency of different HCl-HF formulations to attack plugging minerals. The system also enables the study of the effects of flow rate and temperature on core sample permeability.

Technical Specification:

- Hassler core holder × 2 (Core diameter: 1.5" - Core length: 2-6")
- Maximum working pressure & Temp.: 400 bar & 100 °C with Thermal jacket
- Gas back pressure regulator × 2: 400 bar (Hastelloy or titanium)
- Fluid accumulator × 2: 500 cc (Hastelloy or Titanium)
- Fluid accumulator × 2: 750 cc (Stainless steel 316) for rinsing the system
- Asymmetric design for two parallel acid injections into different cores
- Equipped with a manual rocking system for core holder rotation at 90, 180, 270, and 360 degrees
- Vertical, horizontal, and reverse injection of fluid
- Pressure gauges for confining and accumulator pressures
- Software for automatic data acquisition and monitoring system
- Glass walls for easy monitoring of the process and for the protection of operators
- Wetted parts for acid: Hastelloy or Titanium and others: stainless steel 316
- Pressure transmitter × 4: 0.1% full scale
- Differential pressure transmitter × 2: 250 bar
- High-pressure single pump × 1 (600 bar)
- o Pressure transmitter: 0.5% full scale
- o Constant pressure
- o Constant flow rate mode
- o Cylinder volume: 500 cc
- o Flow rate: 0.01, 10 cc/min



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