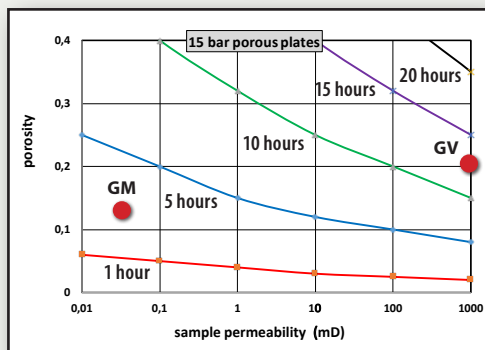
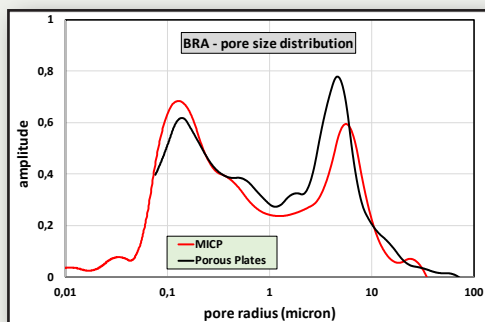


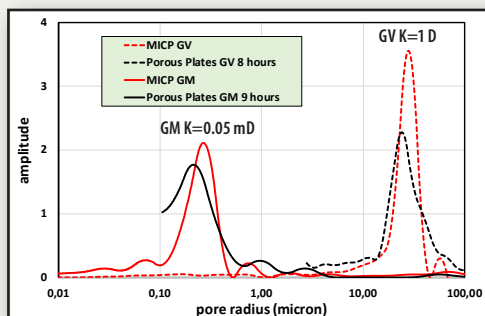
## Fast Pore Size Distribution measurements without mercury performed by CYDAREX



Duration of the measurement as function of the porosity and the permeability of the sample



Comparison with MICP for a double porosity sample (BRA 20 hours)



Comparison with MICP for a low permeability (GM) and high permeability (GV) sample

### Gas Porous Plate Capillary Pressure

- Small sample and two porous plates for fast measurements.
- No rubber sleeve allowing fast installation and measurements on non-cylindrical samples.

### Fast measurements

- With standard 15 bar (225 psi) entry pressure porous plates, measurements in less than 20 hours, depending on permeability and porosity.
- A few hours for low porosity/low permeability samples (sample GM).
- Fast installation and interpretation.
- Automatic measurement, where several samples can be run in parallel.

### Good agreement with MICP

- With standard 15 bar (230 psi) entry pressure porous plates, determination of pore radius from 0.1 micron to 100 microns (reservoir range).
- Good agreement with mercury distributions, without any adjustable parameter.
- Results are more representative for reservoir studies than MICP (standard fluids and lower stress than MICP).

### Sample specifications

- 4-6 mm thickness disks, roughly circular, ~1" diameter.
- Plugs, SWC or end trims can also be provided (1 or 1.5"), disks will be cut by CYDAREX.

### Deliverables

- Similar to MICP: Porosity, capillary pressure, J function, pore size distribution, permeability estimate...
- Quality control: test for equilibrium with numerical simulation of the production.
- Optional: direct measurement of permeability, grain density, formation factor, resistivity index.
- Non destructive, samples can be sent back.