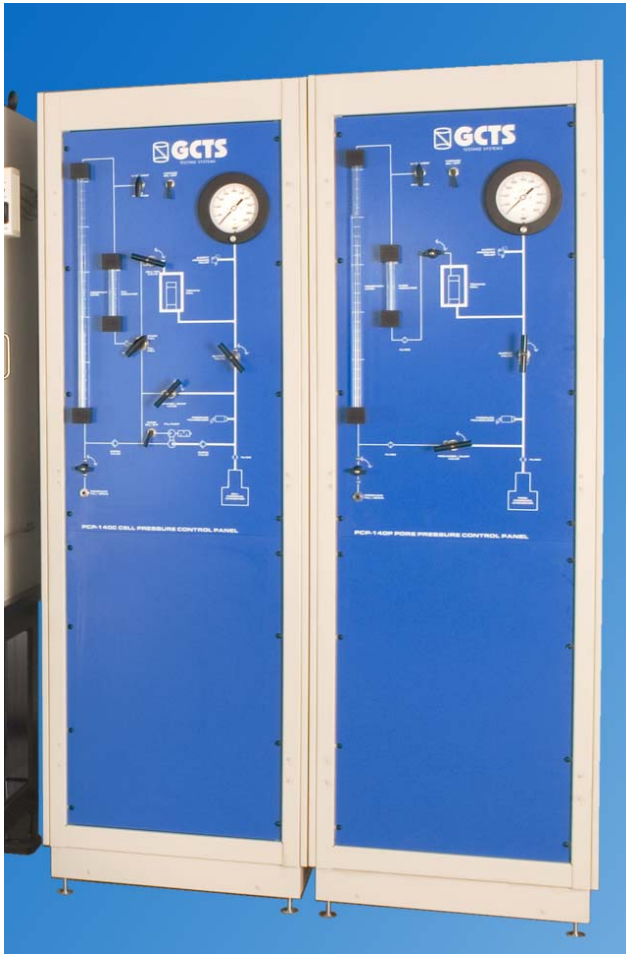


Pressure Intensifier System (HPVC-140)



HPVC-140C (left) & HPVC-140P (right)

- 140 MPa (20,000 psi) pressure range
- 280 or 560 cc stroke capacity
- Closed-loop digital servo control of pressure or flow with “bumpless” transfer
- Can be used as a volume change measurement device for triaxial and permeability testing
- 4,000 cc fluid reservoir with pressure/vacuum/vent port for easy filling and draining triaxial cell and intensifier
- Metal cabinet mounted on casters to house the confining pressure/volume servo controlled intensifier, fluid reservoir, and panel
- Dual piston model available for continuous, non-pulsating flow
- Larger pressure and volume stroke capacities also available

DESCRIPTION

GCTS Pressure Intensifiers are ideal for the control of the cell pressure in triaxial tests, head pressure in permeability tests, or fluid pressure in hydro-fracture tests. This intensifier can also be used to measure flow in permeability tests and volume change in triaxial tests while applying prescribed pressures. Together with GCTS digital servo controller and the triaxial software, it allows the performance of more advanced tests such as stress/strain path. These units include a 4,000 cc reservoir, reservoir level and fluid flow indicators, analogue pressure gage, and necessary valves to simplify all operations. All these components are housed within a metal cabinet with casters.

GCTS makes a dual piston intensifier model for tests where continuous flow is required and pressure spikes cannot be tolerated. These models include two intensifiers and two servo valves together with the necessary check valves, plumbing, and special control software for automatic operation.

Also available, as an alternative, is an economical air/oil pressure booster. These units operate with 700 kPa (100 psi) air pressure input for a 140 MPa (20,000 psi) output. GCTS pressure boosters offer a low cost, trouble free operation and are ideal for use in creep and sustained loading in long term tests.

SPECIFICATIONS

HPVC-140C 560 cc (Confining Pressure)
 HPVC-140P 280 cc (Pore Pressure)

Contact GCTS

SHIPPING

Weight: 480 kg.
 Dimensions (meters): 1.0W x 1.5D x 2.0H

