

Standalone Pressure Intensifier

HPVC-070E

- Standalone Pressure Intensifier
- 70 MPa pressure range
- 0.0001 MPa resolution
- 300 cc volume stroke
- 0.0005 cc resolution
- 40 to 0.005 cc/min flow rate (@ rated pressure, faster rates at lower pressures)
- Closed-loop digital servo control of pressure or flow (volume) with bumpless transfer
- Four (4) channel simultaneous sampling ADC with excitation, internal filtering and selectable input range
- Up Four (4) additional ADC channels with ± 10 VDC fixed range
- TCP/IP Communications
- Optional models available for corrosive fluids
- Power: 110–240 V, 700 Watt max (250 W typical)



Description

HPVC-70E Standalone pressure intensifier requires only the standard electrical power connection for independent control of hydraulic pressure or flow in variety of applications, including the creep testing systems where the axial load or displacement can be controlled using the HPVC-70E.

The HPVC-70E features a 300 cc volume stroke measured with a direct integrated transducer for precise volume measurements without errors caused by the gear backlash typically encountered on systems using a motor encoder. The HPVC-70E is capable of closed-loop control of pressure or volume.

GCTS Pressure Intensifiers (HPVC) are ideal for the servo 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.

The HPVC-70E includes interface programs for PC or mobile devices (iOS, Android and Windows). A phone or tablet can easily be used to remotely set pressures or flow rates. Multiple units can be linked through CATS to simultaneously control upstream, downstream pore pressure, fracturing pressure, etc.

