

Test Stand for Hydraulic Pilot Valve

>PHPV1<



The system serves to check pilot valves using the media MIL H-5606H and MIL-83282.

- > Creation and measurement of different current and voltage signals
- > Four channels with a max. of +/-28 V and +/- 1A each. Including parallel measurement of several linear variable differential transformer (LVDT) systems.
- > Creation and measurement of different hydraulic inlets and outlets (max. of 310 bar (4,500 psi) in two parallel systems
- > Signal generation - different sine waves within a range of 0.1 Hz to 80 Hz
- > Measurement of several simultaneously available data channels both as individual values and in an x-y-diagram and an y-t-diagram

MISCELLANEOUS

- > Operation takes place by means of a separate mobile control console in a TF intelligent software
- > Safety doors of test chambers made of laminated safety glass
- > Secured states of operation in case of by-passed safety doors (for UUT mounting and dismounting)
- > Safety equipment: safety monitoring, filter with electric clogging indicator, pressure switch, temperature and pressure sensors to monitor the external medium filled in
- > Leakage detectors in the collection pans
- > Hydraulic supply and return circuit work with an external supply which is not part of the PHPV1, but can be offered in addition

TECHNICAL DATA

<p>> Hydraulic supply (requirements):</p> <p>Supply: max. of 345bar (5,000psi) (via an external supply)</p> <p>Test medium: MIL H-5606H or MIL-83282</p>	<p>> Dimensions and weight:</p> <p>PHPV1:</p> <p>Length: 1,700mm (67in)</p> <p>Width: 1,300mm (51.2in)</p> <p>Height: 2,130mm (83.6in)</p> <p>Weight: ca. 1,050kg (2,314.85lb)</p> <p>HMI:</p> <p>Length: 800mm (31.5in)</p> <p>Width: 750mm (29.5in)</p> <p>Height: 1,750mm (68.9in)</p> <p>Weight: ca. 172kg (379.2lb)</p>
<p>> Electricity supply (requirements):</p> <p>Mains connection: 1/N/PE AC 60Hz 120V</p> <p>Rated current: 16A</p> <p>Power: 1.92kVA</p> <p>Back-up fuse: 20A</p>	<p>> Conditions of use:</p> <p>Operating temperature: 5 to 45°C (41 to 113°F)</p> <p>Storage temperature: 0 to 60°C (32 to 140°F)</p> <p>Height: up to 1,460m (4,800ft) MSL</p> <p>Rel. air humidity: 20 to 95% (non-dewing)</p> <p>Setup: in a non-ex zone</p>

> **Measurements:**

Flow:

(2 pieces) 0.04 to 4.0l/min ($\pm 1\%$ MV)
 (0.01 to 1USgpm)

Pressure:

(9 pieces) 0 to 350bar ($\pm 0.25\%$ FS)
 (0 to 5,076psi)

(2 pieces) 0 to 250bar ($\pm 0.25\%$ FS)
 (0 to 3,626psi)

(2 pieces) 0 to 35bar ($\pm 0.25\%$ FS)
 (0 to 508psi)

Temperature:

0 to 100°C ($\pm 1^\circ\text{C}$)
 (32 to 212°F $\pm 33.8^\circ\text{F}$)

Force motor:

(4 pieces) -1 to 1ADC ($\pm 1\%$ MV)

Frequency LVDT:

(2 pieces) 400 to 5,000Hz ($\pm 1\%$ MV)

Voltage LVDT:

(2 pieces) 0.5 to 7Vrms ($\pm 2\%$ MV)

MV....of measurement value
 MR....of measurement range
 FS....of full scale

OPTIONS

A variety of features are available to customize the equipment,
 e.g.: adaption for a number of UUTs, requirements for the test program, dimensioning, ...

>PHPV1<

Technical changes reserved