

## Servo Valves Test Stand

### >PSV7<



The test stand is developed to test electronic/hydraulic servo valves e.g. ABS and Anti-Skid servo valves. It tests pressure, flow, temperature, leakage, time, hysteresis, etc.

It is possible to use this test stand for use with other aircraft type's servo valves with suitable component adapters.

- > Quick release couplings are provided for testing up to 650bar
  - Valves can be adapted quickly
  - Valves can be pre-mounted on their adapter plates thus enabling machine down time and operator's man-hours to be reduced
  - The adapter plates can be replaced from the front
  
- > The recommended hydraulic power supply (160l/min at 350bar) is provided by the Hydraulic Power Unit <HPM-S-PU-40-50> (not included in <PSV7> delivery).

## GENERAL INFORMATION

- > The test stand is operated by two 19" TFT monitors which are positioned one above the other. They have a touch screen function as well as a keyboard with trackball and are fitted to a telescopic swivelling arm enabling the user to position where required.
- > The test stand's electrically operated elements are integrated in system blocks mounted in the test stand.
- > The test stand is fitted with a drip tray to contain any leaked fluid during maintenance or component failure.
- > A further drip tray is fitted under the test bed enabling returned hydraulic oil to be collected prior to returning to the main tank.
- > A return pump is mounted which returns the collected hydraulic oil back into the main tank located in the hydraulic power unit <HPM-S-PU-40-50>.
- > The control unit with both monitors, system control and keyboard is fixed to a telescopic jib arm at the test stand.
- > Test stand corrosion is prevented by use of stainless steel and anodized aluminium panels.
- > Filters are fitted in the supply and return lines to ensure test media cleanliness.
- > Protective sliding doors with laminated safety glass are fitted to the front of the testing area ensuring that visibility and safety is provided.

## TECHNICAL DATA

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| <p>&gt; <b>Electrical supply (requirements):</b></p> <p>Current supply:<br/>Nominal connection: 3/N/PE AC 50Hz 400V<br/>Power: 22.1kVA<br/>Nominal current: 32A</p>  | <p>&gt; <b>Operating conditions:</b></p> <p>Ambient temperature: +5 to +45°C<br/>(+41 to +113°F)<br/>Storage temperature: 0 to +60°C<br/>(+32 to +140°F)<br/>Altitude: max. 3000m above SL<br/>(max. 9840ft)<br/>Humidity: 10 to 95%</p> |
| <p>&gt; <b>Pneumatical supply (requirements):</b></p> <p>Nitrogen circuit:<br/>Pressure: 210bar (3000psi)</p> <p>Actuating pressure circuit:<br/>Flow: 22l/min (5.8USgpm)<br/>Pressure: 450bar (6500psi)</p> | <p>&gt; <b>Dimensions and weight:</b></p> <p>Length: approx. 3370mm (11.1ft)<br/>Width: approx. 1425mm (4.7ft)<br/>Height: approx. 2600mm (8.5ft)<br/>Weight: approx. 3550kg (7830lb)</p>  |

## OPTIONS

Many options are possible for adaption, e.g. adaption to other aircraft types, to different touch-screens etc.

Technical data are subject to change!