

Hydraulic Pump Loading System

>HPLS300<



Connector Plate



Operation Rack Console

This equipment is developed for controlled hydraulic loading of the Engine Driven Pump during testing of the Rolls-Royce development engine "BR725" and is designed for use with skydrol.

It is possible to adapt it for other engine types.

- > Supply of the Engine Driven Pump (EDP) with hydraulic oil.
- > Regulating the flow to simulate pump loading.
- > Cooling of the hydraulic oil. Measurement of all relevant EDP pump parameters.
- > The supply pressure to the EDP can be regulated.
- > The system pressure can be easily switched between 3,000 or 5,000psi from a switch mounted on the 19in Operation Rack Console.

GENERAL INFORMATION

- > The operation and control of the system can be performed from the 19in Operation Rack Console or externally from the connector plate fitted on the back of the unit.
- > The temperature control is carried out from the test stand.
- > 2 fixed and 2 braked swiveling castors with brakes are fitted to provide mobility and manoeuvrability.
- > It is provided with openings for transportation with a forklift truck and hoisting points for a crane.
- > An external drip tray is provided to catch oil leaks.
- > External measurements can be carried out using the connector plate.
- > An EX-protection version can be provided.
- > Air transport is possible.

TECHNICAL DATA

<p>> Electrical parameters:</p> <p>Mains connection: 3/N/PE AC 50Hz 400V Nominal current: 25A Power: 17.3kVA Back-up fuse: 32A</p>	<p>> Control range:</p> <p>Temperature: 40 to 100°C (104 to 212°F) (manual internal or external set value import)</p> <p>Flow: 1 to 250lpm (2.6 to 66USgpm) (manual internal or external flow control)</p> <p>Pressure: 0 to 345bar (0 to 5,000psi) (manual internal or external pressure control)</p>
<p>> Hydraulic parameter:</p> <p>Input pressure: 207bar (3,000psi) or 345bar (5,000psi)</p> <p>Flow: max. 250lpm (66USgpm)</p> <p>Main tank: 120l (31.7USgal)</p> <p>Filter level: 3µ filter</p>	<p>> Measurement range:</p> <p>Pressure: 0 to 16bar (0 to 232psi) ±0.5% o.f.s.</p> <p>0 to 400bar (0 to 5,800psi) ±0.5% o.f.s.</p> <p>Flow: 1 to 200lpm (0.5 to 53USgpm) ±1lpm (±0.3USgpm)</p> <p>Temperature: 0 to 100°C (32 to 212°F) ±1.5°C (±2.7°F)</p> <p>o.f.s. ... of full scale</p>
<p>> Compressed air supply:</p> <p>Pressure: 4.5 to 10bar (65.3 to 145psi) Nominal diameter: 1/4"</p>	<p>> Dimensions and weight:</p> <p>Width: 1,970mm (6.5ft) Depth: 1,130mm (3.7ft) Height: 1,500mm (4.9ft) Weight: 995kg (2,194lb)</p>
<p>> Cooling water supply:</p> <p>Pressure: 3 to 16bar (43.5 to 232psi) Nominal diameter: 1 1/4"</p>	
<p>> Medium:</p> <p>SKYDROL Type IV and V</p>	

Technical data are subject to change!