

CT1500R-HPM

High-flow hydraulic test kit

The CT1500R-HPM is a modular test kit solution for pre-dispatch inspection or diagnostic testing of large hydraulic pumps and motors at flows up to 1500 lpm (400 US gpm) and pressures up to 420 bar (6000 psi). Applications include mining and demolition machinery as well as on hydraulic power units used in marine applications.

When the flow meter, load valve and datalogger kits are used together the user can accurately measure, display and record hydraulic flow, pressure, temperature and peak pressure. In addition, the user can calculate hydraulic power and differential pressure.

The loading valve gives smooth progressive pressure control allowing components such as pumps and motors to be tested safely under load. The loading valve features Webtec's unique Interpass® safety protection system which bypasses oil internally in the event of the valve being over pressurised.

Note: the HV1500 is designed for loading a system and is not suitable as a shut-off valve to hold a static load.

The CT1500R-HPM is made up of three kits: CT1500 flow meter kit, the HV1500 load valve kit and the HPM4030 Max datalogger Kit. The kits can be bought and used independently and other HPM datalogger kits can be used instead, please talk to Sales.

Make it **BLUE**

Features

- Complete solution for use in the field or in a workshop
- FAST checks on pumps, motors, valves, cylinders and hydrostatic transmissions.
- Measures flow in both directions (Note: CT1500 is uni-directional when used with HV1500 kit)
- Smooth progressive pressure control
- High tensile aluminium body rated at 420 bar (6000 psi)
- Pilot operated over pressure internal bypass valve
- Interpass® safety protection system, bypasses oil internally in the event of the valve being over pressurised.



CT1500

CT1500, connecting hose and cable assembly, user manuals all housed in a rugged carry case.
Case Dimensions: 626 x 492 x 350 (24.6 x 19.4 x 13.8)

Specifications

Maximum Rated Pressure:	420 bar, 6000 psi
Flow Range:	50 to 1500 L/min, 12.5 to 400 US gpm
Ambient Temperature Range:	15 to 40 °C, 59 to 104 °F
Fluid Temperature Range:	15 to 90 °C, 59 to 194 °F
Ambient Humidity Range:	10 to 95% RH
Viscosity range:	10...100 cSt
Compatible Fluid:	Mineral oils to ISO 11158. Other fluids consult sales office.
Accuracy/Tolerances:	Reading 15% to 100% of flow range - 1% of indicated reading. Readings below 15% of full scale flow - fixed accuracy of 0.15% of full scale.
Porting: Main Port:	2" #32 SAE Code 62 4-bolt flange
Top Port:	7/16" -20UN #4 SAE ORB x 2
Seal:	FKM
Weight:	10 kg, 22 lb

Construction

High tensile aluminium block houses a six blade turbine rotating on a combination axial/radial needle roller bearing and alloy steel shaft.

Filtration

Oil cleanliness should be better than DIN ISO4406: 18/15/12 or NAS 6.

HV1500

HV1500 load valve, 2" #32 SAE Code 62 4-bolt flange Connector and fitting kit, user manual, all housed in a rugged carry case.
Case Dimensions: 626 x 492 x 350 (24.6 x 19.4 x 13.8)

Specifications

Maximum Rated Pressure:	420 bar, 6000 psi
Controllable Flow Range:	100 to 1500 L/min, 26 to 400 US gpm
Porting: Load Valve:	2" #32 SAE Code 62 4-bolt flange
Connector:	2" #32 SAE Code 62 4-bolt flange
Weight:	28 kg, 61.6 lb
Weight Inc. Case:	39 kg, 86 lb

Construction

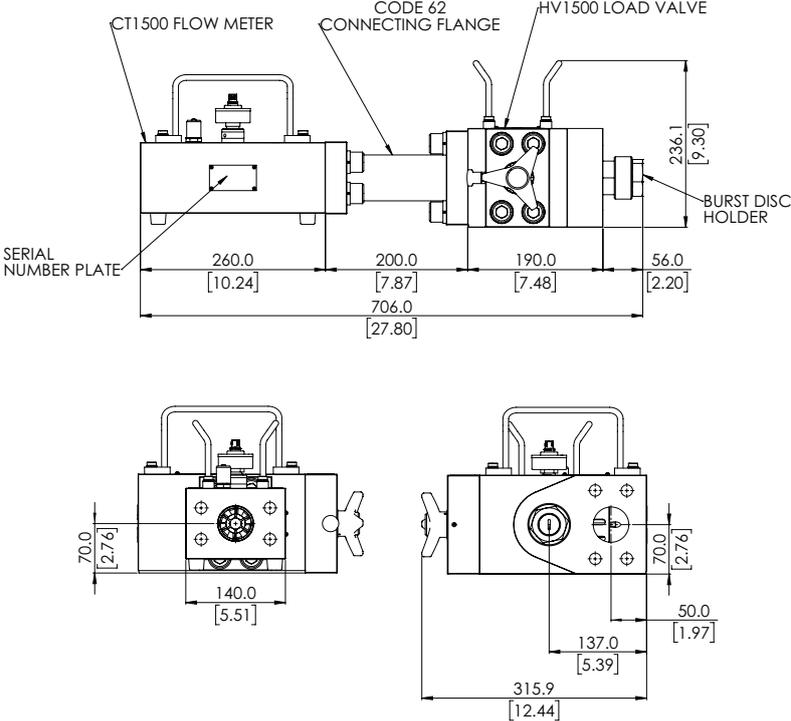
High tensile aluminium block, Steel 212A42 electroless nickel plated and alloy steel.

Operation

The integrated loading valve gives progressive pressure loading in either direction. Replaceable safety burst discs are part of Interpass® safety protection system and operate if maximum pressure is exceeded, relieving flow to the return line. Replacement safety discs are stored in an internal holder machined.

Installation

Dimensions in Millimetres (Inches)



Datalogger options



See our full range of dataloggers here: <https://en.webtec.com/products?c=49-Dataloggers>

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