

Drainchem Hydrostatic Test Pump 119 Hydro 41TP

The 119 Hydro 41TP unit is an engine driven hydrostatic test machine designed to pressure test pipes and vessels for integrity and leaks. The Hydro 41TP consists of a petrol engine direct coupled through a reduction gearbox to a COMET diaphragm pump

The Drainchem Hydro 41TP is designed to allow quick and effective testing of pipes up to 2000Kpa with standard gauges or 4000Kpa with optional gauges. The Hydro 41TP comes complete with all equipment to test pipes quickly. Digital gauges are required by some authorities and are available to swap out for analogue gauges at extra cost

The pump is fitted with an adjustable pressure/flow controller to vary the pressure up to a maximum of 580psi and flow up to 411/m. The flow performance is set at the maximum pump speed of 550rpm. If the speed is reduced the resulting flow will also reduce

The Hydro 41TP can deal with low grade water due to the huge filter system

The 119 Hydro 41TP unit comes complete with

Engine Pump	Honda GX200 6.5Hp recoil start Comet model APS41	CINE CONTRACTOR
	Max pressure 40bar (580psi)	
	Flow @ 550rpm 41lpm @ 0bar	
Gearbox	Comet model C50050221	
Pressure		
Flow Controller	Comet model C12040189	and the second state of the
Filtration	150 Micron 250mm clear filter	WITH BUTTE
	430 Micron 250mm clear filter	
Gauges	Two 100mmTraceable 0-2000Kpa gauges	
	Two Nata Traceable certificates (min 11 months)	
	Gauges contained in a tough box	
	Two 63mm 0-2000Kpa gauges mounted on the trolley for pre testing without the	
	NATA Gauges	
Tank	200 litre poly tank to ensure constant water supply	
	Tank is fitted with a low water switch to stall the engine if water supply fails	
	Tank is fitted with a water supply shut off valve to avoid tank over flow	









Supply connection Out let hose Labels Trolley Water returns to tank when outlet is shut off to customer requirements 10M of 3/8" high pressure hose all components and oil requirements labelled Heavy duty galvanised trolley with 10" wheels for easy manoeuvring





OPERATION

Connect a water supply capable of a flow of at least 50lpm to the Inlet on the tank Before starting the engine ensure adequate water supply to the pump.

Insufficient water will cause pump cavitation and damage

- Pressure Knob B on the controller unwound to minimum pressure
- Flow Direction lever C is in the bypass position
- Ball Valves D & E are open
- High Pressure outlet F is connected to the test vessel

The engine should be started in accordance with the recommendations in the engine owner's manual. With the engine running the Flow Control lever C may be operated to direct the flow to the High Pressure outlet F.

When the test vessel is filled with water the Pressure Control knob B can be operated to increase the pressure to the required level as indicated on the Pressure Gauges H [pump] & G [line]

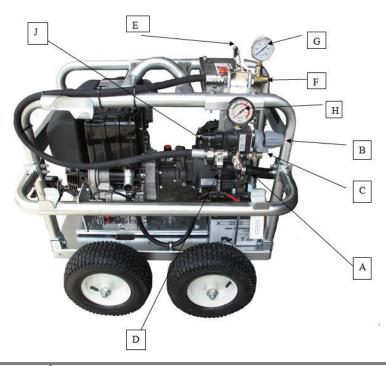
When the desired pressure is reached Ball Valve E is closed which will isolate the Test Vessel from the pump.

The test vessel pressure can be monitored on Pressure Gauge G [line] the flow will be automatically directed to the Bypass Line J of the pressure/flow controller.

The unit may then be stopped while the test vessel pressure is monitored

When the test is complete the test vessel pressure can be reduced by slowly

opening a drain valve incorporated in the high pressure line connected between the test vessel and the High Pressure Outlet F.





SAFETY CAUTION

- Do not point high pressure guns, hoses, or jets at any person whether the machine in operation or stationary
- High pressure machines are dangerous & if not used correctly & in accordance with the manufacturers recommendations can cause serious injury
- Ensure that all the hoses & pipework are securely fastened before
- operating the machine
- Do not fill the engine fuel tank while the unit is hot or operating
- When using extended hose lengths ensure no part of the hose is
- placed where vehicles can run over the hose and cause damage to
- the hose & system
- Petrol engines discharge noxious exhaust gases and units should only
- be used in well ventilated locations
- To prevent injury DO NOT TOUCH HOT SURFACES such as engine & muffler
- Use only genuine original manufacturer replacement parts and components to ensure compatibility with original equipment

DAILY CHECKS

- Before starting unit check engine, pump & gearbox oil levels replenish as necessary
- Check all high pressure fittings are tight and secure
- Check condition of all hoses and hose fittings for cracks and possible damage. Replace if necessary
- Check fuel tank level and refill if required
- Check engine muffler guard is in position and secure
- Check all holding down and retaining bolts to ensure they are tight and secure

PERIODIC MAINTENANCE

Enginerefer to the Engine owner's manualComet Pumprefer to the Comet Pump owner's manual



OPERATION

Connect a water supply capable of a flow of at least 951/m to the **Inlet A** connected to the pump Before starting the engine ensure adequate water supply to the pump. Insufficient water will cause pump Cavitation

NOTE maximum water inlet pressure to the pump is 1.5psi [1m]

Pressure Knob B Flow Direction lever C Ball Valves D & E High Pressure outlet F on the controller unwound to minimum pressure is in the bypass position are open is connected to the test vessel

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When the test vessel is filled with water the **Pressure Control knob B** can be operated to increase the pressure to the required level as indicated on the

Pressure Gauges H [pump] & **G** [line] when the desired pressure is reached **Ball Valve E** is closed which will isolate the Test Vessel from the pump.

The test vessel pressure can be monitored on **Pressure Gauge G** [line] the flow will be automatically directed to the **Bypass Line J** of the pressure/flow controller.

The unit may then be stopped while the test vessel pressure is monitored

When the test is complete the test vessel pressure can be reduced by slowly opening a drain valve incorporated in the high pressure line connected between the test vessel and the **High Pressure Outlet F.**