

# HOSE PRESSURE TEST PUMP

- ◆ **ROBUST IMPACT PROOF CONSTRUCTION**
- ◆ **LIGHTWEIGHT AND PORTABLE**
- ◆ **FUEL COMPATIBLE**
- ◆ **TWO STAGE OPERATION**
- ◆ **FULL SET OF PRESSURE TEST FITTINGS AVAILABLE**
- ◆ **CALIBRATED PRESSURE GAUGE CAN BE FITTED**



## Introduction

Flexible hoses are the weak link in any fluid delivery system, and can fail due to deterioration or damage. It is therefore now standard practice to pressure test flexible hoses at their maximum design pressure on a regular basis, normally every 6 months. Regular testing minimises the risk of failure, and this risk is particularly severe when the hoses carry dangerous or flammable liquids at high pressures and flow rates, for example, in aviation refuelling systems.

Aljac Fuelling Components now offers a simple to operate and cost effective means of carrying out hose pressure testing, the Ridgid Test Pump.

## Description

We selected the Ridgid Pump because it is impact resistant and uses a lightweight plastic reservoir, making the unit both highly portable and durable. It has an integral pressure gauge, and a unique pressure retaining feature which locks pressure in the hose without the need to close a separate valve. The standard pressure gauge is not calibrated, but if required we can supply a Pressure Gauge Upgrade kit which replaces the standard pressure gauge with a quick disconnect assembly, and this allows a larger calibrated pressure gauge to be easily fitted and removed. We are also able to supply a range of calibrated pressure gauges.

The pump operates in two stages, rapid filling is carried out by using the full stroke of the handle,

while final pressurising is achieved using a shorter stroke. The unit also incorporates a twin filter system which prevents contamination of the fluid within the hose, this is particularly important for clean duties such as aviation refuelling hoses. All seals are fully resistant to hydrocarbon fuels as well as water.

We can also supply threaded Pressure Test Fittings to allow connection to a wide range of hoesetails, and also an ISO45 Male Fitting to connect directly to the end of an Underwing Refuelling Coupling.

## Specification

**Type:** Ridgid 1450.

**Maximum Pressure:** 50 Bar.

**Piston Volume:** 37.7 Cubic Centimetres.

**Outlet Connection:** 1/2 inch BSPP female.

**Reservoir Capacity:** 13.6 Litres.

**Maximum Working Temperature:** 50 deg. C.

**Overall Dimensions:** 710mm long by 220mm wide by 240mm high.

**Nett Weight:** 6.4 Kg.

## How To Order

Simply quote the relevant Part Numbers.

**Pressure Test Pump: 0905000010.**

**Pressure Gauge Upgrade Kit: 0905000011** (not including the pressure gauge).

If you require spare parts for the Pressure Test Pump please contact our Sales Department.

# HOSE PRESSURE TEST FITTINGS

Aljac offers a complete range of Pressure Test Fittings for hose testing. Our Pressure Test Fittings are manufactured from Stainless Steel and are designed for use with parallel threaded hosetails, as commonly used with aviation refuelling hoses, and are available for thread sizes from 1 inch up to 4 inch BSPP, both male and female.

The male threaded Pressure Test Plugs have a flat square front sealing face, and the female threaded Pressure Test Caps are fitted with a Vulkollan seal which is retained in an undercut. Each Pressure Test Fitting is drilled and tapped 1/8 inch BSPP female and can be fitted with a 1/2 inch BSPP male by 1/8 inch BSPT male reducer to connect to the Pressure Test Pump (Part Number 0905000010). If the Pressure Test Fitting is to be used at the free end of the hose a 1/8 inch BSPT threaded plug can be fitted to it after venting the air from the hose. If you wish to pressure test the hose through your Underwing Refuelling Coupling with it still fitted, we offer an ISO45 male pressure test adapter which is threaded 1/4 inch BSPP female. All of our Pressure Test Fittings are suitable for a pressure of 21 Bar.

**NOTE. The Hose End Pressure Control Valve MUST be blocked open during this operation and you must have the permission of the Underwing Refuelling Coupling manufacturer to test at the required pressure.**

**All of Eaton's Carter® range of Underwing Refuelling Couplings is suitable for pressure testing at 21 Bar providing that the poppet is open and the Hose End Pressure Control Valve is blocked open.**

Description.	Part Number. Male Threaded Plug.	Part Number. Female Threaded Cap cw captive Vulkollan Seal.
Pressure Test Fitting 1 inch BSPP.	15TFM00025	15TFF00025
Pressure Test Fitting 1.1/2 inch BSPP.	15TFM00038	15TFF00038
Pressure Test Fitting 2 inch BSPP.	15TFM00050	15TFF00050
Pressure Test Fitting 2.1/2 inch BSPP.	15TFM00063	15TFF00063
Pressure Test Fitting 3 inch BSPP.	15TFM00075	15TFF00075
Pressure Test Fitting 4 inch BSPP.	15TFM00100	15TFF00100
Reducer, 1/2 inch BSPP male by 1/8 inch BSPT male. Connects Rigid Pump (0905000010) to the above mentioned Pressure Test Fittings.	15TFM03M12	
Pressure Test Fitting ISO45 Male.	45DBA10605	
Reducer, 1/2 inch BSPP male by 1/4 inch BSPT male. Connects Rigid Pump (0905000010) to the 45DBA10605.	15TFM06M12	



**Male Threaded Pressure Test Plugs**



**Female Threaded Pressure Test Caps**



**ISO45 Male Pressure Test Fitting**