

Hose Pressure Test Pump (Air-Powered)

Part No DC27530

Technical Data

Mounted in a tubular steel carrying frame the pump consists of an air driven hydraulic pump, which draws fuel from a 20 litre capacity reservoir via a gauze suction strainer. Fuel is pumped through a reinforced hose to an adapter connected to the 63mm (2¹/₂") underwing refuelling nozzle fitted to the end of an aircraft refuelling hose.

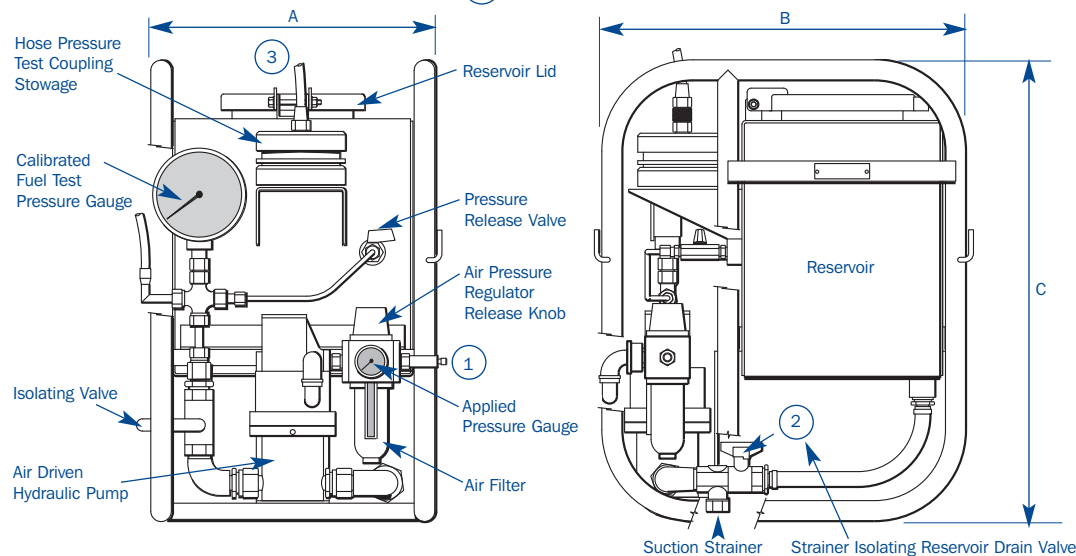
The air-driven hydraulic pump is fed from an outside air pressure supply source via an adjustable air pressure regulator/ filter and fitted with a pressure gauge. The hydraulic pump is capable of delivering 40bar (600 psi), but the rated test pressure is restricted to 20bar (300 psi) when testing the hoses using the Pressure Test Coupling DBA10605.

The outlet side of the pump is fitted with a calibrated pressure gauge and an isolating valve, which is set closed when the correct test pressure is reached. A pressure release valve releases the 'locked in' pressure into the reservoir once the pressure test has been completed.

The inlet to the air pressure regulator terminates in a quick disconnect coupling (both halves of the coupling are provided). The removable female half coupling is fitted with a hose tail for connection to a suitable 6mm (1/4") bore air supply hose. The fuel reservoir has a hinged fill cap and drain valve.

Just three connections are required to operate the pump.

- A filtered air supply not exceeding 7 bar (100psi) to the pump via the air filter-regulating valve (1).
- Note: Under no circumstances must the applied air pressure be allowed to exceed 7.0bar (100 psi).
- A filtered fuel supply to the inlet valve (2) from the tank.
- A positive head of fluid is recommended for maximum performance.
- The high-pressure tube to the outlet valve (3) from the Hose Pressure Test Coupling DBA10605.



Part No.	Item	Options
DC27530	Pressure Test Pump 300Psi Rating	Standard
DC27530-HP	Pressure Test Pump 600Psi Rating	Option
DBA 10605	Hose Pressure Test Coupling	Option
FT-000569	Hydraulic Seal Kit	Option
FT-000568	Pneumatic Seal Kit	Option
FT-000570	Exhaust Silencer	Option
SK3256	Set Adaptors for Hose Pressure Test Pump	Option

Dimensions.

Item	A	B	C	Weight (dry)
Dimensions (mm)	500	400	570	23kg

Maintenance

After each use - Remove the air filter bowl and wipe away any moisture or water.

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- Remove air filter bowl and wash air filter element in clean jet fuel
- Clean thoroughly with compressed air jet and replace.
- Drain reservoir and withdraw strainer element. Wash thoroughly in clean jet fuel and replace.
- Re-fill reservoir within approximately 50mm of the top with clean jet fuel.

ETI's policy of continuous improvement means we reserve the right to alter designs and specifications without notice.

The descriptions, illustrations and product references in the datasheet are for information purposes only and are not binding. (Updated December 09)





Applications

Air-powered Pressure Test Pump for in-situ testing of fuelling hose integrity to JIG/API standard periodic testing requirements.

Features

- Lightweight and portable
- Air powered
- Dry-break connections
- No need to drain /remove hoses
- Rated for testing up to 24bar (350 psi)

Options

- 300psi test pressure version
- 600psi test pressure version



Specification

The Fluid Transfer Air Powered Hose Pressure Test Pump is designed for 'in-situ' pressure testing of aircraft refuelling vehicle delivery hoses and vehicle pipework. It can be used safely in hazardous areas to test vehicles with standard 63mm (2 $\frac{1}{2}$ ") underwing refuelling nozzles.

An air-driven hydraulic piston pump is fed from an outside compressed air supply source via an adjustable air pressure regulator and filter. Fuel is pumped through a wire reinforced hose to an adapter (Hose End Pressure Test Coupling DBA10605) which connects to the 63mm (2 $\frac{1}{2}$ ") underwing refuelling Hose End Pressure Control nozzle fitted to the end of an aircraft refuelling hose.

Just three actions are required to operate the pump.

- Connect a filtered, compressed air supply not exceeding 7bar (100psi) to the pump.
- Top up the filtered low-pressure fluid supply to the inlet valve from the tank.
- Connect the high-pressure PTFE steel braided hose, (to the Hose Pressure Test Coupling) to the test hose.