

Clarke® PUMP



12V DIESEL FUEL TRANSFER PUMP MODEL NO: DFT12A

PART NO: 7160042

OPERATION & MAINTENANCE INSTRUCTIONS



ORIGINAL INSTRUCTIONS

GC1221- ISSUE 6

INTRODUCTION

Thank you for purchasing this CLARKE Pump.

The DFT12 pump is designed only for use with diesel, paraffin and light fuel oils and can be connected to vehicle batteries of 12 volts. They must not be used with water, petroleum fuels or alcohol, nor if small solids are known to be in suspension.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

SPECIFICATIONS

Fluid Classification / Fluids to be used	Clean (light fuel oil, paraffin & diesel)
Rated Max. Head (suction height)	6 m
Rated Max. Flowrate	40 litres/min (diesel)
Max. Operating Temperature	10-70° C
Max Liquid temperature	40° C
Duty Cycle	30 mins on/ 30 mins off
Weight	9.0 kg (complete kit)
Inlet & Outlet Hose Diameter	3/4" BSP nominal
Motor Voltage	12V DC
IP Rating	IP54
Reverse polarity protection	Yes
Sound pressure level	65 db LpA
Suction/Delivery Hose Lengths	2 m
Supply Cable lengths	2 m

Please note that the details and specifications contained herein, are correct at the time of going to print. However, CLARKE International reserve the right to change specifications at any time without prior notice.

SAFETY PRECAUTIONS

Please read all of the safety and operating instructions carefully before using this product. **Keep these instructions in a safe place for future reference.**

WORK AREA

1. **Keep the work area clean and well lit.** Cluttered and dark areas invite accidents.
2. **DO NOT operate power products in explosive atmospheres such as in the presence of flammable liquids, gasses or dust.** Power products create sparks which may ignite dust or fumes.

ELECTRICAL SAFETY

1. **DO NOT abuse the electrical cables. Keep the cables away from hot surfaces, oil, sharp edges or moving parts.** Damaged or tangled cables increase the risk of electric shock.

PUMP SAFETY

1. DO NOT use this pump where there is a danger of fire.
2. DO NOT use to pump any liquid other than diesel, paraffin and light fuel oil.
3. ALWAYS ensure the ON/OFF switch is in the **OFF (O)** position, **BEFORE** connecting to the battery. This is to avoid the possibility of arcing taking place, thereby reducing the risk of fire.
4. The DFT12A incorporates reverse polarity protection in case of incorrect connection.
5. Switch the pump OFF as soon as the task is complete.
6. DO NOT exceed the duty cycle stated in the specifications.
7. **DO NOT use the pump if the switch does not turn it on and off.** Any power product that cannot be controlled with the switch is dangerous and must be repaired.
8. If necessary, have your pump repaired by a qualified person using identical replacement parts. This will ensure that the safety of the product is maintained.

ENVIRONMENTAL PROTECTION

1. Take care to ensure that if diesel fuel is spilt that it is cleaned away using sand or treated with absorbent granules designed for the purpose.

2. ALWAYS make every effort to contain any spillage and prevent ingress into the local water course.

ENVIRONMENTAL RECYCLING POLICY



Through purchase of this product, the customer is taking on the obligation to deal with the WEEE in accordance with the WEEE regulations in relation to the treatment, recycling & recovery and environmentally sound disposal of the WEEE.

In effect, this means that this product must not be disposed of with general household waste. It must be disposed of according to the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

GUARANTEE

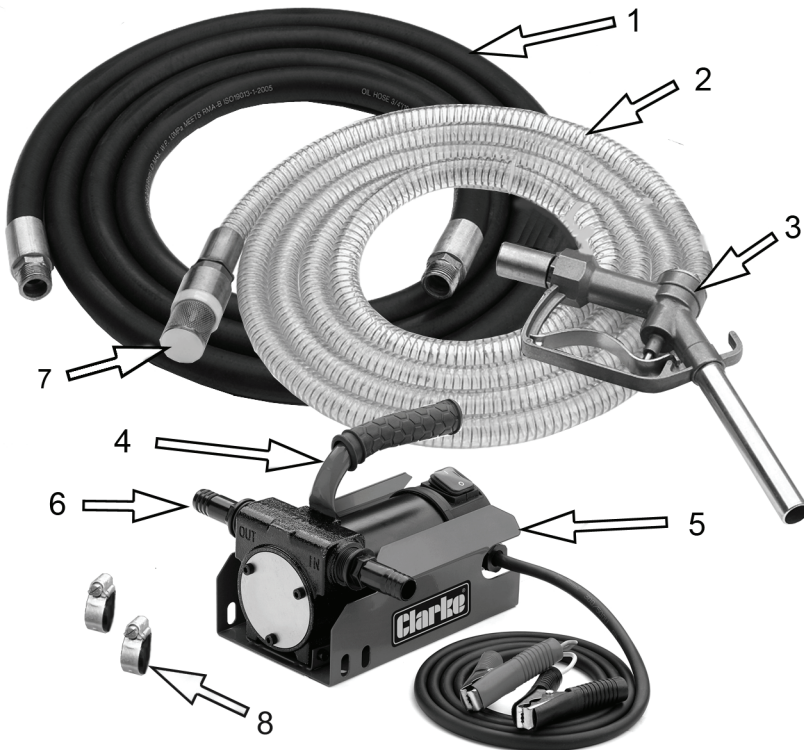
This CLARKE product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase. No product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

INVENTORY



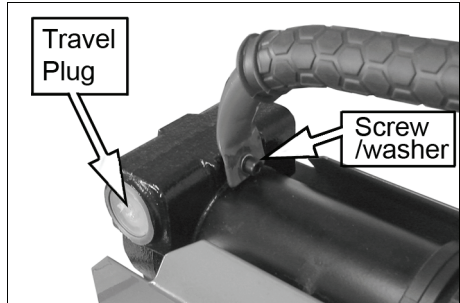
ITEM	DESCRIPTION
1	Rubber Outlet Hose (3/4" male BSP end fittings)
2	Transparent Inlet Hose (3/4" male end fittings)
3	Dispensing Nozzle assembly
4	Carrying Handle c/w fixing screw/washer
5	12V Pump, c/w power cables & crocodile battery clips
6	3/4" BSP to 19mm Hose Adaptors (with O-rings)
7	Foot Valve/Filter assembly
8	Hose Clamps (pair)

CONNECTION & OPERATION

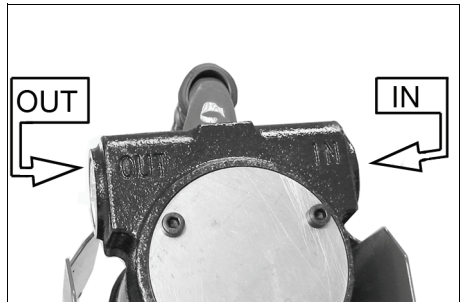


WARNING: DO NOT USE WITH PETROL OR ANY OTHER HIGHLY FLAMMABLE LIQUID TO DUE TO THE POSSIBILITY OF SPARKING TAKING PLACE AND CAUSING FIRE.

1. Fit the carrying handle to the pump with the hex screw & washer provided.
2. If required, the pump can be installed in any horizontal mounting position and mounted to a flat surface using screws of adequate size (not supplied) through the mounting holes in the base.



- The pump should not be installed at more than 6m above the fuel supply.
3. Before connecting the pump, remove the travel plugs from the inlet/outlet ports.
 4. If not already fitted, screw the inlet filter to the plastic suction hose.
 5. Screw in either:
 - A) the inlet and outlet hoses supplied or
 - B) the inlet adaptors for use with 19 mm hoses



NOTE: The transparent suction hose is connected to the side of the pump marked "IN" and the delivery hose to the side marked "OUT" on the pump casting.

- The hose and connections need to be completely air tight, otherwise air will be drawn in and reduce the flow. If required use PTFE tape.
6. Before connecting the delivery hose FOR THE FIRST TIME, partially fill the pump body with fuel to facilitate priming. Ensure the hoses and tank are free from contamination.
 7. Insert the transparent suction hose & filter into the diesel fuel container.

8. Ensure the ON/OFF switch is set to the OFF (O) position BEFORE connecting the pump cables to the vehicle battery.



CAUTION: ONLY CONNECT THE DFT12A PUMP TO A 12V BATTERY

9. Ensure that the battery terminals are clean.
10. Connect the red-positive clamp to the red positive terminal first, then connect the black clamp to the black-negative terminal, ensuring the clamps are perfectly secure.
- NOTE:** The motor will not run if the clamps are connected the wrong way round due to the in-built reverse polarity protection.
11. When disconnecting, always disconnect the black (negative) clamp first.
12. Ensure the clamps cannot be disturbed easily and that the setup is protected from passers by.
13. Set the switch to ON (I).
- Ensure the transparent inlet suction hose and inlet filter clean as once clogged, pump performance will quickly decline.
 - Do not allow the pump to run dry for more than 30 seconds after pumping has stopped. When finished pumping, switch off the pump.
14. During start-up it may be beneficial to open the dispensing nozzle on the delivery hose to permit evacuation of air and achieve quicker priming.



WARNING: THIS PUMP HAS A 50% DUTY CYCLE AND SHOULD NOT BE RUN CONTINUOUSLY FOR LONGER THAN 30 MINUTES. AFTER RUNNING, THE PUMP MUST BE ALLOWED TO COOL FOR A PERIOD AT LEAST EQUAL TO THE RUN TIME.

FAULTFINDING

Problem	Check	Solution
Pump fails to operate.	<p>Check for good contact between crocodile clips and battery.</p> <p>Check the switch is on and that the fuse is not blown.</p> <p>Pump rotor jammed.</p> <p>Motor fault.</p>	<p>Establish good contact.</p> <p>Replace fuse or switch on.</p> <p>Check for possible damage or obstruction of the rotating parts.</p> <p>Return to CLARKE Service Department for repair.</p>
Motor turns slowly when starting.	Low supply voltage.	Check condition of battery.
Lack of flow delivery.	<p>Low level in the storage tank.</p> <p>Foot filter blocked.</p> <p>Pump is positioned too high above the storage tank.</p> <p>By-pass valve blocked.</p> <p>Air entering the pump via the suction hose. Narrowing of the suction hose.</p> <p>Low pump speed. Suction tubing is resting on the bottom of the tank.</p>	<p>Refill the tank.</p> <p>Clean out the filter.</p> <p>Position the pump lower in relation to the tank.</p> <p>Return to CLARKE Service Department for repair.</p> <p>Check the security of hose connections. Hose is damaged, blocked.</p> <p>Check the power supply. Raise the tubing.</p>
Leakage from the pump body.	Seal damaged.	Return to CLARKE Service Department for repair.

Increased pump noise	Cavitation of the liquid being pumped. Irregular functioning of the by-pass. Air present in the diesel fuel.	Reduce suction pressure Dispense fuel until the air is purged from the by-pass system. Check the suction hose connection.
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MAINTENANCE

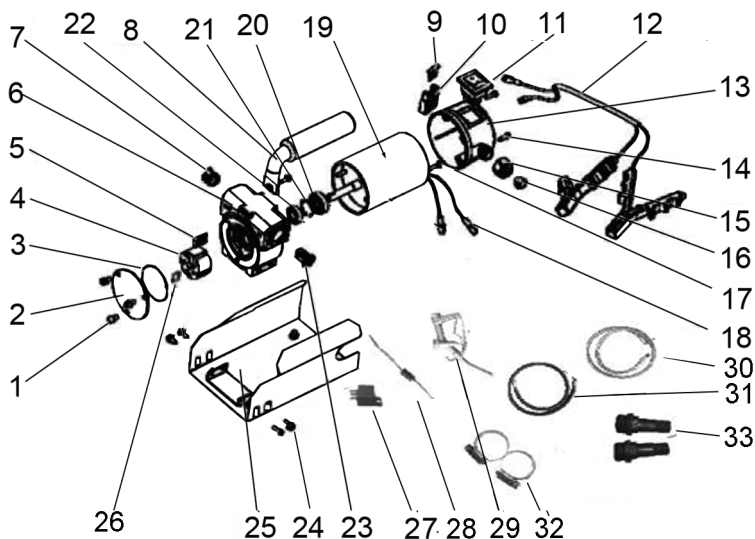
The pump does not require any maintenance but should be inspected before use to ensure that the power cables and clamps are in good condition and that both of the hoses are sound.

Avoid using solvents if cleaning plastic parts, as most plastics are susceptible to damage from various types of commercial solvents. Keep the filter on the inlet hose free of accumulated dirt.

Store the pump in dry conditions protected from the weather.

For any problems requiring dismantling of the pump, contact your CLARKE dealer.

DFT12A COMPONENT PARTS



PART NO	DESCRIPTION	PART NO	DESCRIPTION
1	Screw M5 x 10	18	Cable
2	Front Cover	19	Motor
3	O-Ring	20	Bearing
4	Rotor	21	Circlip
5	Blade	22	Seal
6	Pump Body	23	By-pass Valve
7	By-pass Spring	24	Screw M5 x 10
8	Handle	25	Base
9	Fuse 15A	26	Key
10	Fuse Holder	27	Relay-SPST
11	Single Pole Switch	28	Diode
12	Cable c/w Crocodile Clip	29	J60 3/4" nozzle
13	Junction Box	30	Suction hose with filter
14	Screw M4 x 15	31	2M outlet hose
15	Locknut	32	Securing clip
16	Tapered Bush	33	Adaptor fitting
17	Nut M5		

DECLARATION OF CONFORMITY



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Fitzwilliam Hall, Fitzwilliam Place, Dublin 2

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following directive(s):

2006/42/EC Machinery Directive
2014/30/EU Electromagnetic Compatibility Directive
2011/65/EU Restriction of Hazardous substances

The following standards have been applied to the product(s):

EN 60204-1:2006+A1:2009, EN 60335-1:2012+A11:2014, EN 60335-2-41:2003+A1:2004+A2:2010,
EN 62233:2008, EN 60919:1998+A1:2009, EN ISO 12100:2010, EN 61000-6-3:2007+A1:2011,
EN 61000-6-1:2007, IEC 62321:2008.

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2016

Product Description: Diesel fuel transfer pump 12v

Model number(s): DFT12A.

Serial / batch Number: N/A

Date of issue: 24/11/2021.

Signed:

J.A. Clarke
Director

DFT12A, CE, Clarke, DDC1 12421

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Hemmill Street, Epping, Essex CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following statutory requirement(s):

Supply of Machinery (Safety) Regulations 2016
Electromagnetic Compatibility Regulations 2016
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

The following standards have been applied to the product(s):

EN 60204-1:2018, EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A2:2019,
EN 60335-2-41:2003+A1:2004+A2:2010, EN 62233:2008, EN 60919:1998+A1:2009,
EN ISO 12100:2010, EN 61000-6-3:2007+A1:2011, EN 61000-6-1:2007, IEC 62321:2008.

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned legislation has been compiled and is available for inspection by the relevant enforcement authorities.

The UKCA mark was first applied in: 2021

Product Description: Diesel fuel transfer pump 12v

Model number(s): DFT12A.

Serial / batch Number: N/A

Date of issue: 24/11/2021.

Signed:

J.A. Clarke
Director

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