

SERVICE INSTRUCTIONS FOR DOUBLE DIAPHRAGM PUMP

DP1



BELL
Flow Systems
www.bellflowsystems.co.uk



Piece Count:

1. Pump Body
2. Bung Nut with 2" threads
3. Discharge Hose Assembly
4. Die Cast Dispensing Nozzle
5. Telescopic Suction Tube

Features:

Heavy Duty Aluminum Die Cast Construction

Includes 2" die cast bung adapter & extra heavy duty steel handle with security locking latch

Includes Telescopic Suction Tube , adjustable to fit 15 to 55 gallon (50 - 205 litre) drums

Easy dispensing through 8' of anti-static neoprene rubber hose with die cast dispensing nozzle

Pump inlet fitted with easy to clean wire mesh screen

Dispenses 1 gallon in 5 strokes (800 ml per stroke)

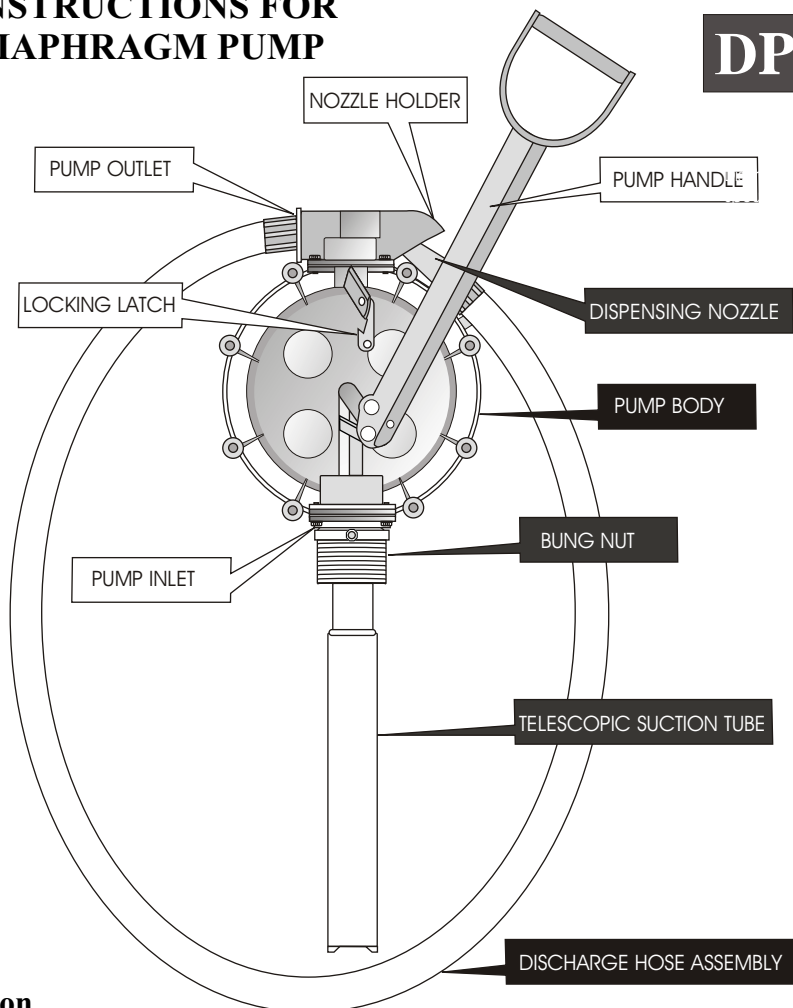
Designed for use with Gasoline, Diesel Fuel , Fuel Oil & Motor oils

Wetted components:

Aluminum, Steel, Stainless Steel & NBR Rubber

Assembly & Operation:

1. Slide the Bung Nut onto the octagonal base at the pump inlet. Tighten the bung on the base using the two screws on the bung.
2. Screw the Telescopic Suction Tube into the female threads in the pump inlet. It is good practice to use a thread sealant such as Teflon in connecting the Telescopic Suction Tube to the Pump inlet. Tighten the connection.
3. Extend the telescopic suction tube to it's full length & insert the suction tube connected with the pump into the drum from the 2" threaded opening on the drum.
4. Once the bottom of the suction tube touches the base of the drum, securely fasten the bung (attached to the pump body) onto the drum.
5. Now assemble the rubber hose with the die cast dispensing nozzle onto one end of the hose. Assemble the other end onto the pump outlet. It is good practice to use a thread sealant such as Teflon in all threaded connections.



6. Take an empty container & place it at the end of the hose. Start operating the pump handle moving it backward & forward. The initial few strokes should be rapid, which will allow the pump to quickly get primed & start dispensing media in less than 7 strokes. When operating the pump handle , undue pressure must not be exerted as it may cause the pump neck to fracture.
7. Once pumping is completed, it's a good practice to lock the pump handle using the Locking Latch fitted onto the pump body. Also , hose maybe secured using the built-in nozzle holder in the pump body.

If the pump is re used after an extended period of time, it may loose it's prime & need re-priming, follow step 6 above.

Recommended for use with:

- Gasoline
- Diesel Fuel
- Fuel Oil
- Motor Oil
- Petroleum based media of light to medium viscosity



Note that Fuels containing Ethanol will cause more frequent replacement of rubber parts.

Do Not Use with:

Corrosive liquids , solvents , acids , alkalis etc.

Warning: Never operate the pump near fire or source of spark. Some media may be explosive & dangerous to pump.

TROUBLESHOOTING:

Sr. Nr.	PROBLEM	CAUSE	REMEDY
1.	Pump does not dispense / dispenses less fluid	Pump not able to create adequate suction	Prime pump. Follow Step 6 above
		Pumps is drawing in air , instead of fluid	Tighten suction tube & pump inlet connection. Incase seal between the two pipes in the suction tube is worn , change suction tube
		Pump inlet is blocked	Remove suction tube & clean wire mesh screen at pump inlet
2.	Leakage of media from the stainless steel piston	Damaged seal due to use with media not suitable for use with pump	Replace pump