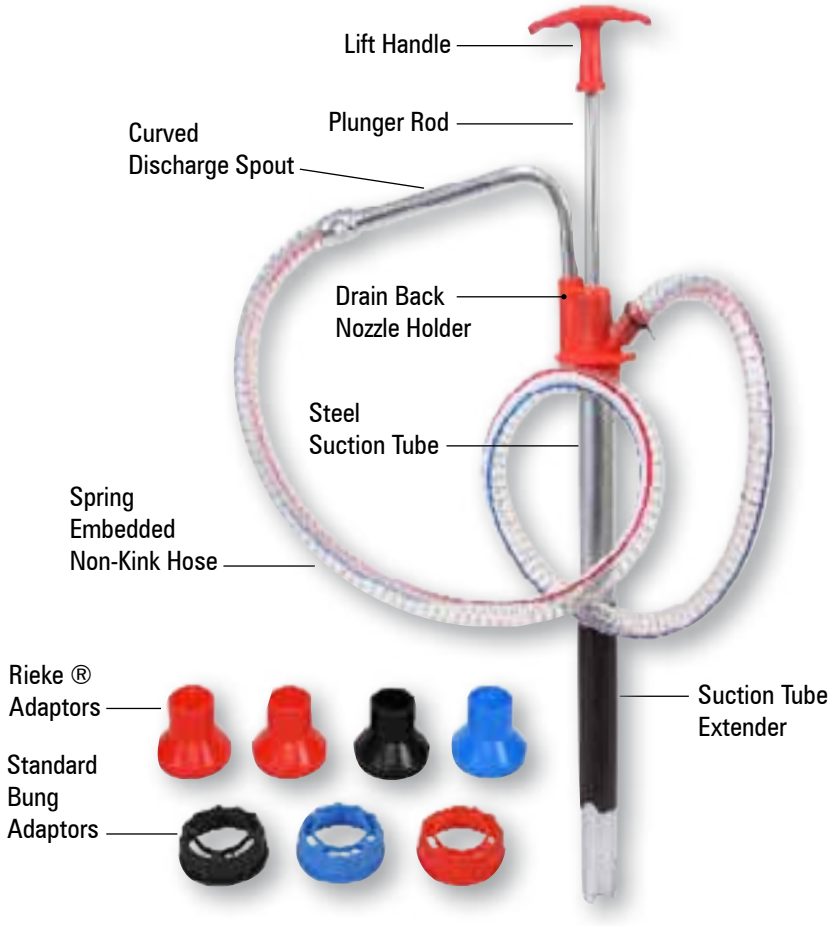
INSTRUCTION MANUAL S1910, Rev A

Ezee Flo Pump - Downstroke

EZF-DS

Congratulations on purchase of this World Class Ezee Flo Downstroke Pump!

- Versatile Pump, designed for use on 5 gallon / 20-25 litre containers with plastic pull out (Rieke® spout) or 2" external threads
- Downstroke operation with fluid discharge when pushing the handle down. Enhanced ease of use & reduced fatigue especially when pumping heavy fluids. It additionally reduces pull out stress on the pump bung
- Heavy duty steel suction tube, with the pump head made from high density polyethylene.
- Pump head incorporates Drain Back Nozzle Holder to ensure that excess oil ends up back into drum hence avoiding spillage.
- Interchangeable Bung Adaptors. The standard bung adaptors can be slid over the pump, when using on containers with external threading. Alternatively, when using the pump on pails with plastic pull out Rieke® spout, the other bung adaptor for Rieke® spout can be used. Choice of 7 adaptors makes the pump good for use with most metal & plastic containers
- Pump length can be extended by over 4" for use on high depth containers, by conveniently sliding the suction tube extender
- Supplied complete with 48" long Spring Embedded Non Kink Discharge Hose fitted with Non Drip



PUMP CONSTITUENTS

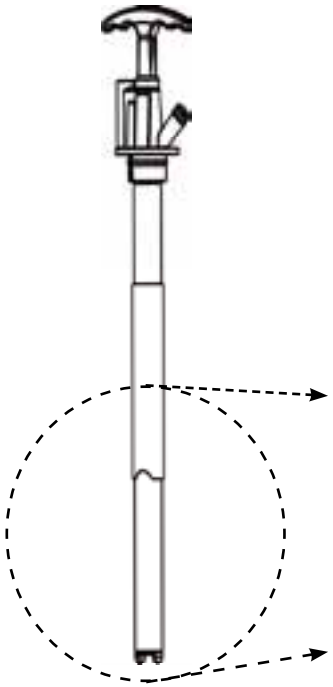
SERIAL NUMBER	DESCRIPTION	QUANTITY
1	Pump Body (Steel Suction Tube fitted with Plastic Pump Head & Lift Handle)	1
2	Discharge Hose fitted with steel spout	1
3	Standard Bung Adaptors	3
4	Suction Tube Extender	1
5	Rieke Adaptors	4

SPECIFICATIONS

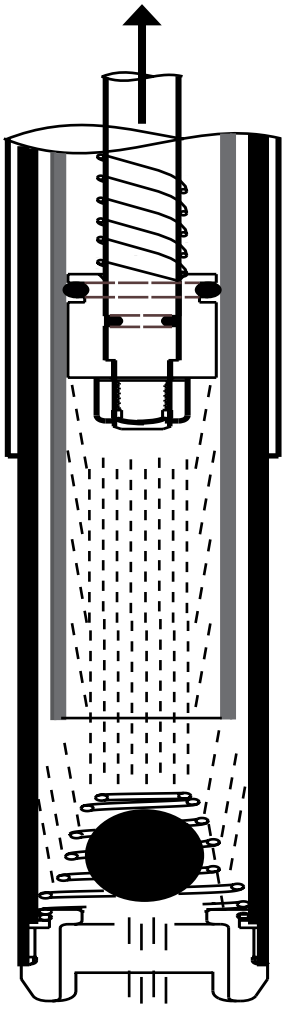
Discharge Rate	Up to 1 Litre (1 Quart) per 18 strokes
Drum Capacity	5 gallon (20-25 litre)
Delivery Hose Length	48"
Suction Tube Outer Dia.	1" (25.4 mm)
Suction Tube Extender Length	4"

WORKING OF PUMP

This is a manually operated Vertical Lift Piston Pump that dispenses the fluid in downstroke.
During Upstroke, the lift handle is pulled up to raise the plunger. A piston, being connected with the plunger with a Nyloc Nut, slides upwards inside the inner tube creating sufficient vacuum that keeps the Non Return Valve open while the fluid is sucked upto the bottom area of piston. Two O rings are there to prevent the fluid from leaking towards the top side of the piston. Top Stop Spring gets compressed & prevents the piston from striking the pump head when fully pulled up.
During Downstroke, the lift handle is pushed down causing the plunger & piston assembly to create sufficient pressure on the fluid that is now sealed inside the suction tube as Non Return Valve stays closed. The pressurized fluid rises up through a clearance between the inner tube & outer barrel & gets discharged from the outlet in the pump head.

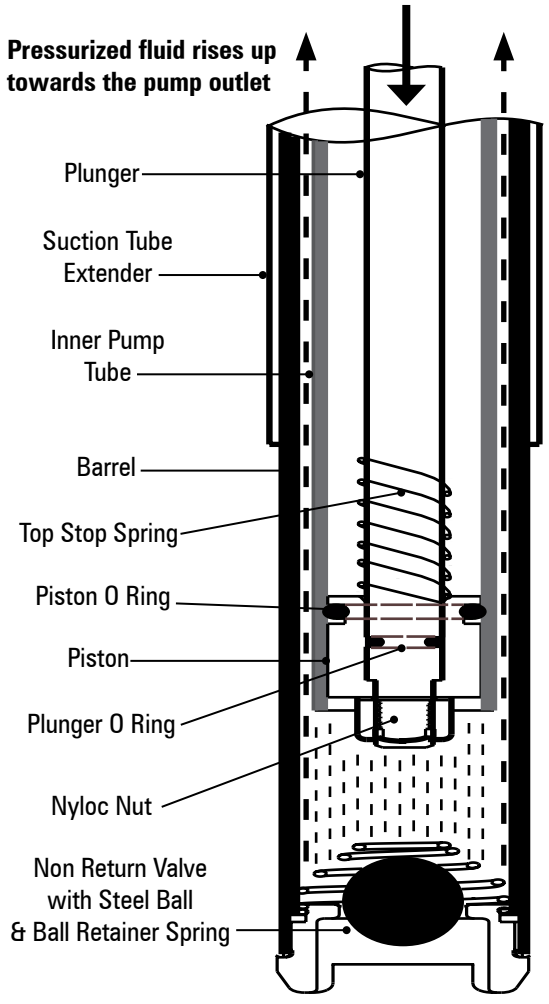


UPSTROKE
Plunger & Piston move up



Non Return Valve opens & the fluid enters the suction tube

DOWNSTROKE
Plunger & Piston move down



Non Return Valve gets closed & the fluid is pressurized inside suction tube

PUMP ASSEMBLY & USE

1. After unpacking, if you feel that the pump length is short, use the Suction Tube Extender at the bottom of the suction tube by simply sliding it.

2. Different types of Bung / Rieke Adaptors have been provided with the pump. Select the best fit Adaptor by fitting it first on the drum. Remove it after selection & slide it onto the suction tube.

3. Push the selected Adaptor onto the locking ring that is all around the pump head. This would need a little extra force. Note that once you have fitted one adaptor, you cannot change it.

4. Slide the pump into drum opening & tighten it to the drum using Adaptor.

5. The discharge hose can be fitted onto the pump outlet using a steel spring clip. The hose comes with a Non Drip Nozzle that needs to be loosened (to start the discharge) & tightened (to stop the discharge).

6. Operate the pump by simply operating the Lift handle. The pump dispenses in downstroke. Amount of media dispensed is controlled by controlling the handle lift. When using for the first time, it may take up to about 5 strokes or so for the pump to prime.

Pump must never be dropped as pump head & other parts, being made of plastic, are prone to fracture

Never bend the discharge spout as it may cause it to kink resulting in crack / fracture

When not in use, tighten Non Drip Nozzle & keep the discharge spout in the Drain Back Nozzle Holder to avoid any spillage of oil

WETTED COMPONENTS
Steel, Aluminum, Polyethylene, Polypropylene Co polymer, High Nitrile Rubber, PVC & Acetal

RECOMMENDED USE
Engine Oils, Gear Oils, Diesel, Light Fuel Oils etc.

DO NOT USE
Water based & other corrosive media

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