

UNITOR INSTRUCTION MANUAL & SPARE PART LIST

1:1 AIR OPERATED OIL PUMP FOR 200L DRUM W/ SPOUT
AND NEEDLE VALVE



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GENERAL

Thank you for choosing a high quality pump, developed and manufactured in Sweden. These 1:1 pump models are designed to deliver a range of light weight oils including gear oils. The pump's 2" bung adapter allows installation directly onto original containers or bulk tanks.

- A pump's ability to deliver fluid is based on the pressure (bar/psi) and quantity of air supplied to the air- motor and the amount of material discharge (back) pressure to be overcome within the system.
- **Warning!** Do NOT use solvents or other explosive fluids. An explosion can result in the pump when aluminium and zinc parts

come in contacts with certain solvents. Never point a control valve at any portion of your body or another person. Accidental discharge of pressure and/or material can result in injury. Read these instruction carefully before installation, operation or service.

- **DO NOT EXCEED MAXIMUM PRESSURE**

Technical data

Pump ratio	1:1
Maximum air pressure (bar)	10 bar
Maximum air pressure (psi)	150 psi
Delivery per minute (@ 7 bar air pressure, 0 backpressure)	57L/min
Air inlet connection	1/4" BSP
Fluid outlet	3/4" BSP
Pump tube length	915mm
Pump tube diameter	Ø52mm
Total length	1202mm

Installation/Operation

To achieve long pump life we recommend that filter regulator to be installed prior to the air inlet of the pump.

Remove the protective packaging from the pump and also the protective plugs.

Fit the 2" pump adaptor firmly on to the barrel.

Mount the pump into the pump adaptor and lock into position.

Fit and secure the outlet hose.

Fit and secure the air inlet hose, slowly increase the air pressure letting the pump slowly build up fluid pressure.

Ensure there are no leaks either on the air inlet or at the fluid outlet. To obtain maximum vacuum all connections should be sealed and tight.

Slowly increase the air pressure to optimum working pressure.

Warning! The maximum permitted air pressure is 10bar, do not exceed this limit. Service: Before any servicework is carried out the compressed air must be turned off to the pump or the air coupling disconnected. And the fluid outlet must be depressurized completely.

Maintenance

Before any service work is carried out the compressed air must be turned off to the pump or the air coupling disconnected. And the fluid outlet must be depressurized completely.

Clean the air filter, remove all pollutants including condensed

water. Check system for any air or fluid leaks.

Always keep the equipment clean and remove foreign objects, ensure no pollutants enter the barrel as these will be pumped into the system.

When changing the barrel make sure the pump remains clean (Do not put on to floor otherwise the fluid will become polluted).

Service

For your personal safety ensure the air is disconnected from the pump, and the fluid discharge is depressurized before any service is carried out. Be cautious when repressurizing the system after any service work is carried out.

During service procedures it is important to avoid any scratching or any other damage to gasket or bearings surfaces. Keep tools and benches clean. Be extremely cautious when assembling or dismantling V-packings and O-rings. Exchange all worn or damaged parts no matter how slightly damaged they seem.

Clean and grease all gasket, bearing surfaces including O-rings and gaskets with teflon grease when reassembling pump.

Try to use paraffin to clean pump parts. If water based cleaners are used, wipe parts clean & dry immediately to avoid corrosion.

Product safety instructions

The pump is intended for non-corrosive and petroleum based liquids. It may NOT be used for other purposes or for pumping gasoline. Check all components thoroughly for damage and leakage. Ensure that the compressed air is disconnected from the pump and the system is depressurized when system is not in use.

The pump is made up of two main parts: A compressed air operated two way piston air motor and a double acting liquid pump. The liquid is sucked into the pump tube via the bottom valve. When the piston moves upwards liquid is forced out of the fluid outlet. The fluid is forced out of the pump when the piston is moving in both directions. The relationship between the air piston and the pump piston determines the ratio of the pump. If the pump ratio is 1:1 the theoretical fluid pressure will be 1 times to the air pressure, when the pump stalls out. The air is exhausted from the pump via a sound attenuator.



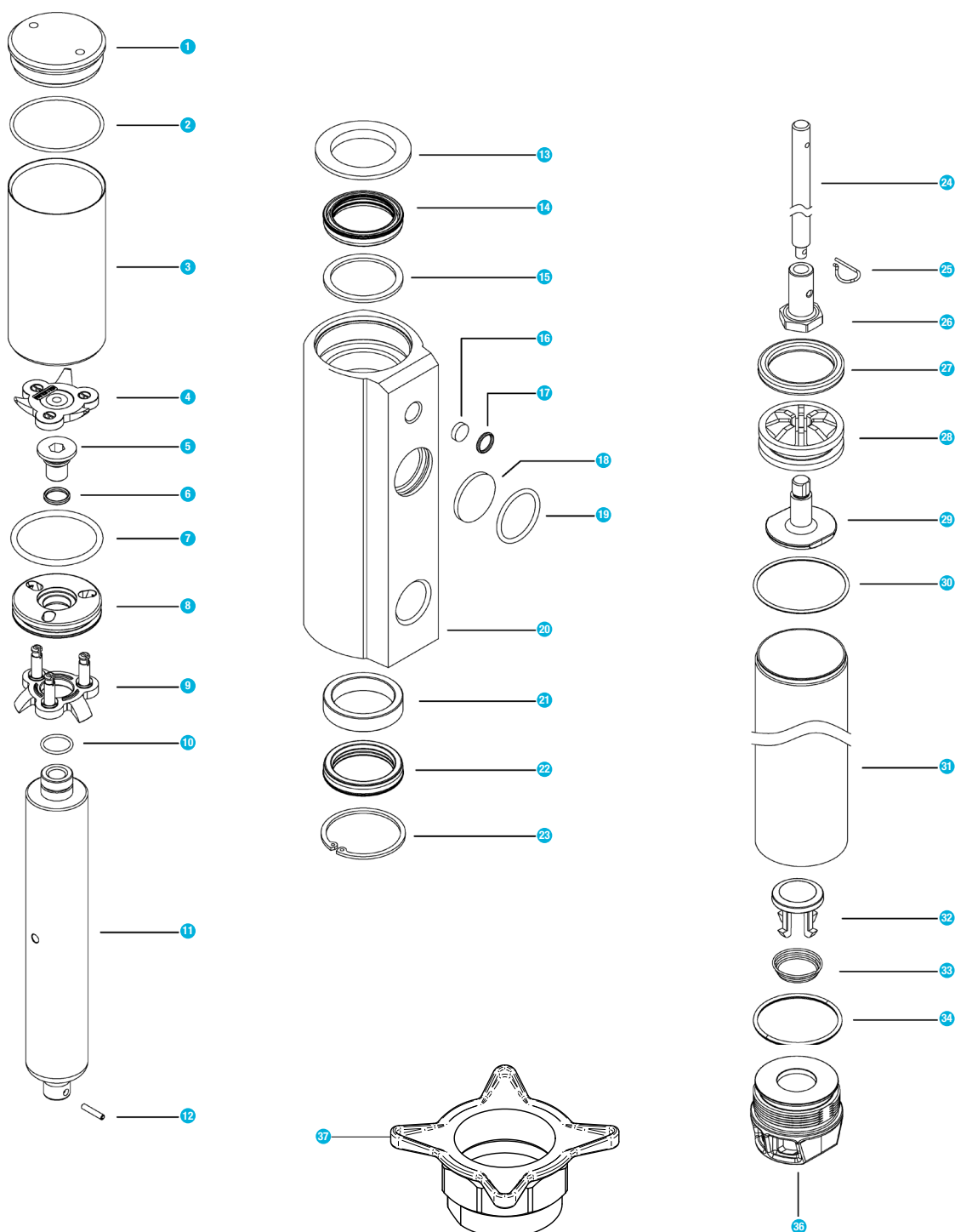
INSTRUCTION MANUAL & SPARE PARTS LIST

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Spare parts

Positions	Item name	Part number
4, 5, 6, 7, 8, 9, 13	Air valve	1517391
1, 2, 3, 13	Air cylinder	711283
12, 13, 14, 15, 21, 22, 23, 27, 30	Packing kit	1517394
11, 12, 13, 14, 15, 21, 22, 23, 30	Central bar kit	1517396
26, 27, 28, 29, 30	Piston kit	1517398
32, 33, 34, 36	Foot valve kit	1155251
36	Drum adapter	1155153



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