

5:1 Air Operated Oil Pump DITI1701051/DITI1701053



THE MANUAL OF OIL PUMP

Read the following precautions and instructions before you begin assembly or using. Failure to comply with these instructions could result in personal injury or property damage. Keep these instructions in a convenient location for future reference.

IMPORTANT NOTE:

The guarantee will be void if the pump has been altered in any way

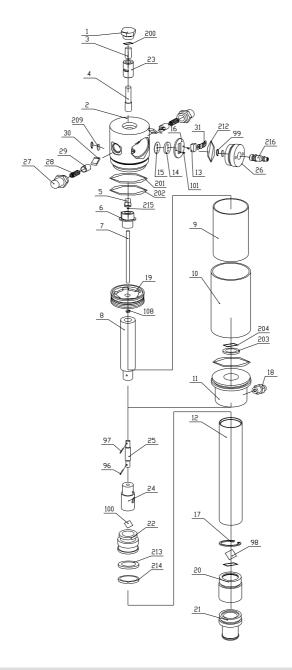
PROFILE

Oil pumps can be used to transfer lubrication oil, waste oil and antifreeze liquids. This manual is applicable to the following pump only, please confirm your pump is included.

Specification

Item No.	1701051	1701052	1701053	
Compression ratio	5:1			
Operating pressure(bar/psi)		5-8/70-115		
Maximum pressure(bar/psi)	8/115			
Air consumption(L/min Gallon/min	240/63.5			
Capacity(L/min Gallon/min)	12/3.2			
Tube diameter(mm/inch)	42/1.65 42/1.65 42/1.65			
Suction tube length(mm/inch)	270/10.6 or Wall installed/ Extension transfer	730/28.7	940/37	
Air inlet connection	1/4" quick plug/1/4" NPT female			
Oil delivery connection	Male 1/2"			
Max. viscosity oil delivered	SAE 250			
Temperature oil delivered	-10~50°C			
Noise level(dB)	82			

5:1 SERIES OIL PUMP EXPLODED VIEW



5:1 SERIES OIL PUMP PART LIST

Appendix

Code	Name	Quantity
1	Air motor cover	1
2	Air control center	1
3	Air motor shellinside	1
4	Bracket	1
5	Bracket	1
6	Screw	1
7	Shaft	1
8	Piston shaft	1
9	Piston cover	1
10	Out cover	1
11	Side cover	1
12	Suction tube	1
13	Slider	1
14	Gasket	1
15	Soft gasket	1
16	Securing washer	1
17	Spring circlip	1
18	Outlet	1
19	Piston	1
20	Valve seat	1
21	Filter	1
22	Piston	1
23	Slider	1
24	Connecting shell	1
25	Connect shaft	1
26	Air center cover	1

Code	Name	Quantity
27	Spring shell	2
28	Spring	2
29	Spring seat	2
30	Trip shoe guide	2
31	Press piece	1
96	Pin	1
97	Pin	1
98	Ball	1
99	Small circlip	2
100	Ball	1
101	Screw	2
108	Nut	1
200	O-ring	1
201	O-ring	2
202	O-ring	1
203	U-ring	1
204	O-ring	1
209	Silencer	2
212	O-ring	1
213	U seal	1
214	Guiding	1
215	O-ring	1
216	Quick coupling	1

Troubleshooting

Problem	Possible Causes	Solutions
The pump continues tooperate after the guntrigger has been released	1.There is a oil leakat some point of the circuit 2.Valvesets (part No.22 and 203, 204, 213,214) close incorrectly dueto dirt or wearing.	1.Check and tightenunions. Repair the leak. 2.Substitute damaged elements
Reduction of the oildelivery. Or reduced pressure in the oil delivery.	1.Silencer(209) dirtied 2.Blocked atsome point of the oil circuit 3.Ball valveset (20,100) closes incorrectly due to dirt or wearing.	1.Clean orrecharge silencer 2.Use clean oil 3.Substitute damaged elements
Air loss through theair exhaust	1.The sliding valve (13) does not close properly 2.Broken press piece(31) 3.Damaged O-ring(201,202, 215) 4.Damaged piston (19) 5.Broken spring (28)	1.Disassemble and clean. Substitute in case of damage 2.Substitute damaged elements
Oil leaks through theair exhaust	Seal set (203,204) damaged	Substitute damaged elements

If the pump has anything wrong, please contact dealer or their technical supporter. We don't recommend customer repair the pump themselves.

STORAGE AND MAINTENANCE

Pumps are delivered in appropriate cardboard boxes. Packaging material should be properly disposed.

Handling and storage of the new pump do not require any special procedures.

However after the pump has been used, empty the used oil in the suction tube into an appropriate container. This is done by overturning the pump

The dust in compressed air can slow down and even block the motor cylinder. The following steps may prevent this from happening:

- 1) Let 50 gram of Vaseline oil or other lubricator from the air inlet hole weekly, operate the pump for several minutes after having lubricator.
- 2) Tu on the pump for several minutes until moving parts is fully lubricated.
- 3) ou may repeat the above operation if necessary.
- 4) T above steps should be carried out on a weekly base.

For the pumps that are attached with compressed air treatment equipment, please empty the water retained in the reservoir of the filter-purger frequently. For the pumps that are attached with a lubricator, please pay close attention to the lubricator's oil level and refill with SAE 20, SAE 30 or antifreeze oil for extreme conditions when necessary.

NOTE:

The user should perform only routine maintenance operations (such as filters, silencers, cleaning...) with the pump in order not to damage it or compromise its safety. Contact our sales or service centers when the pump needs further maintenance.

GENERAL SAFETY REGULATIONS

When the pump is connected to the compressed air supply:

- The compressed air must be filtered to avoid dust and moisture into pump
- Th max compressed airpressure must not exceed 0.8Mpa
- o deliver oil, press the knobon the delivery pistol; delivery stops when the knobis released but the whole system remains under pressure.
- Position the pistol so that the circuit can't open accidentally. Otherwise oil could leak onto the ground.
- Never poin the pistol at people or objects.
- Press th pistol knob.
- Alway cut off the air supply after use so that oil can't leak out in case one of the pump's components should break
- Use onl original spare parts in case the pump has to be repaired or its components have to be replaced
- Empty al the oil from the pump in case it has to be disposed of.
- When no in use, turnoff compressed airto stop pump.
- Do no use the pump near open flames. Do not smoke during this operation.
- Wea oil-proof gloves
- Do no throw the oil away. Used oil has to be disposed of according to national Environmental regulations
- The pumps can be used only to deliver lubricants, used oil or antifreeze liquids. Do not use the pump for any other substance.

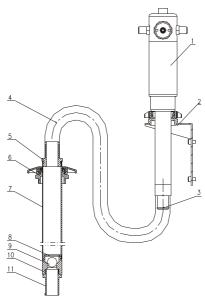
HOW TOUSE

DIRECTLY FITTED PUMPS INTO THE DRUM

- 1. Insert t suction tube of pump into the drum and secure with ring nut, suitable for commercial drums with 57 diameter hole and threading 2"BSP
- 2. Fit oil delivery tube for oil outlet of the air operated pump using only high quality tubes (normally 1/2" or 3/4", according to DIN-SAE norms), by means of 1/2"BSP threading fitting.
- 3. Oil delive pistol: Connect delivery tube with delivery pistol using suitable pipe fittings, and point the pistol at right place.
- 4. A inlet connection is 1/4" quick plug(or1/4" NPT female) in all versions.

 Compressed air connection (to be supplied by the customer) should be done using suitable tubes.
- 5. pressure regulator to keep the pump's working pressure at the best possible level(max 5-8 bar) between the pump and the compressed air line.
- 6. cut-off switch can enable the operator to stop the pump at any given moment by cutting the air supply off between the pump and the compressed airline.
- 7. Switch all switch.

WALLINSTALLED



Parts List

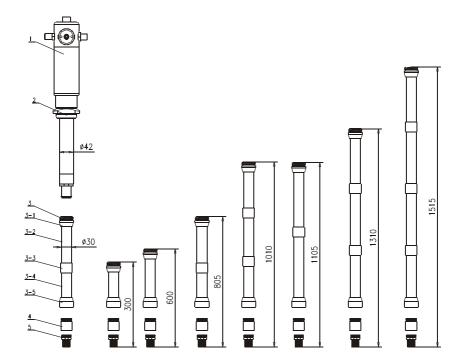
Code	Name	Quantity
1	Oil pump	1
2	Wall bracket	1
3	Pump adapter	1
4	Flexible suction hose	1
5	Suction hose adapter	1
6	Bung adapter	1

Code	Name	Quantity
7	Rigid suction tube	1
8	Spring circlip	1
9	Ball	1
10	Valve seat	1
11	Filter	1

PROCEED AS FOLLOWS:

- Secure t bracket to the wall using the dowels at about 1200mm height appropriate
 for the tank's dimensions. Make sure that the wall is solid and thick enough for the
 dowels. Do not interfere with hydraulic tubes or electric lines.
- 2. Secure t pump to the bracket 2.
- 3. Connect t flexible suction tube 4 to the pump using the clamp provided.
- 4. Connect t rigid suction 7 to the end of the flexible suction tube 4 using the elastic clamp provided.
- 5. Put t bung adapter 6 into the drumhole.
- 6. Put t rigid suction tube 7 into the pump and secure it in place.

EXTENSION TRANSFER



Parts List

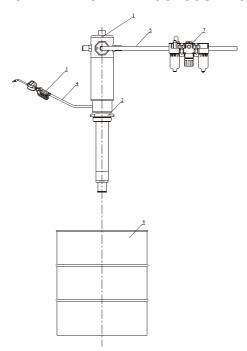
Code	Name	Quantity
1	Oil pump	1
2	Bung adapter	1
3-1	Topconnection	1
3-2	Extension 500mm tube	1
3-3	Extension sleeve	1

Code	Name	Quantity
3-4	Extension 200mm tube	1
3-5	Foot connection	1
4	Foot valve	1
5	Filter	1

PROCEED AS FOLLOWS:

- Depending the length of the suction tube the desired extension length. Can be realized by using the modular extension elements (See the examples given above)
- 2. Examples possible application to pump with drum or rigid suction tube for Obtaining personalized lengths according to needs.
- 3.Remove filter and foot valve from the stub pump, screw the extension tube on (W/top connection), then screw filter and foot valve on the extension tube (foot connection End!)

CONNECT THE PUMP WITH OTHER ACCESSORIES:



Parst List

Code	Name	
1	Oil pump	
2	Bung adapter	
3	Oil pistol	
4	Hose with fitting	
5	Air hose with quick coupling	
6	Drum	
7(7-1,7-2,7-3)	Filter, pressure regulator and lubricator	

THE MANUAL OF OIL PUMP DISTRIBUTION KITS

PRESSURE RELIEF PROCEDURE

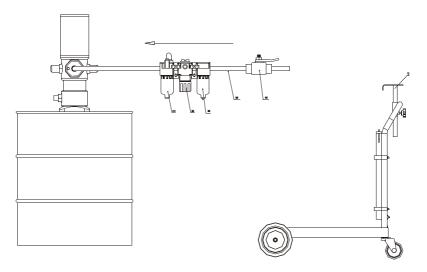
To reduce the risk of serious bodily injury, including fluid injection, splashing in the eyes or on the skin, or injury from moving parts, always follow this procedure whenever you shut off the pump, when check or service any part of the spray/dispensing system, when install, clean or change spray tips/nozzles, and whenever you stop spraying/dispensing.

- 1. Shut f the air to the pump.
- 2. Point t outlet of grease gun to container and trigger the grease gun to relieve pressure.

IMPORTANT NOTES:

If you suspect that the spray tip/nozzle or hose is completely clogged, or that pressure has not been fully relieved after following the steps above, VERY SLOWLY loosen the retaining nut or hose end coupling and relieve pressure gradually, then loosen completely. Now clear the tip/nozzle or hose.

KITS EXPLODED VIEW



Kits List

Item No.	1700322	1700332	1700333
Drum application	30-50kgs/120lbs	180-220kgs/400lbs	180-220kbs/400lbs
5:1 Ratio pump	1701052	1701053	1701053
Digital control valve	1781801	1781801	1781801
1/2"*13' connection hose	1763413	1763413	1763413
Drum trolley	1708001	1708002	1708003
1/2"*50' Oil hosereel	***	***	M820154/M860154