

#### Description

The 30091 is a mobile waste oil evacuator designed to safely and efficiently capture the oil from engine crankcases, transmissions and differentials, which can then be emptied with the aid of air pressure. The oil level gauge located on the side of the reservoir indicates the quantity of oil drained. Always avoid closing the bleeder vent on the catch-basin to the reservoir connecting tube while draining.

#### Specifications

Function	Collect waste oil from vehicle gear box or engine
Power	Compressed air
Air Consumption	200L/min
Air Inlet Pressure	87~116psi / 6~8Bar
Oil Ejection Pressure	10~14psi / 0.7~1Bar
Vacuum Degree	0~-14psi / 0~-1Bar
Tank Capacity	80L
Perspex cylinder Capacity (Practicable/total)	11/12L
Height	1390mm
Working Temperature	40~60°C (for engine oil)



#### WARNING

##### READ AND UNDERSTAND ALL INSTRUCTIONS.

Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

SAVE THESE INSTRUCTIONS

**Note:** Performance of this mobile waste oil evacuator may vary depending on variations in air pressure and compressor capacity.

## Product Specific Safety Precautions

1. Do not smoke near this equipment.
2. Keep the mobile waste oil drainer away from heat, high voltage, flammable and explosive environments
3. Use in a well ventilated area.
4. When leaks are found in the equipment or hoses, immediately turn the air compressor off and repair the leaks.
5. Do not exceed the recommended operating air pressure. This could damage equipment.
6. Keep a fire extinguisher nearby in case of fires.
7. Always protect your skin and eyes from contact with oil and solvents.
8. Do not start an engine during the time of oil extraction.
9. Beware of the oil extracted from the vehicle, as temperature of oil is high, always between 40~60°C.
10. Waste oil should be properly disposed or recycled. Please contact with your local waste liquid/solid authority for information on recycling.

## Warning

1. Please read this Manual carefully and fully understand it before operating the mobile waste oil evacuator.
2. In order to avoid the aging of the rubber parts, do not expose the machine in the sunshine; do not leave the machine in a moist place, it must be stored in a dry place with good ventilation. Because of the multi functions, the machine is equipped with many accessories, and must be cared for by a special technician.
3. This machine has been tested strictly before leaving the factory, but the operator must obey the operating instructions. Please do not try to take apart and repair it by yourself, if you meet with any faults, please contact Alemlube.
4. After using, always cut off connection to compressed air.
5. Do not lower than the minimum air inlet required pressure. Do not exceed the max. air inlet required pressure.
6. Do not dismantle this machine by unqualified or unauthorised personnel. Otherwise the warranty will be void.
7. If you have any inquiries, please contact Alemlube.

## Transport and Unpacking

**When unpacking, check to make sure that all the parts are included. Refer to the Assembly section, and the Assembly Drawing and Parts List at the end of this manual.**

Once the product has been unpacked, check that the instructions manual is there, that the material is complete and there are no parts which have been visibly damaged. **If any parts are missing or broken, please contact Alemlube as soon as possible.**

### In the package, you will find:

- a) One Complete Oil Tank with cylinder
- b) Probes 6 pieces with sleeve
- c) One User's Manual

## Assembly Instructions

1. Open the packaging and take out the machine main body, checking for any damage.  
If so, please immediately contact Alemlube.
2. Check all pipes are well connected.
3. Making sure all ball valves and switches are closed.
4. Stop the car engine when oil Temperature reaches 40~60°C

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## Operation instructions

### Vacuum Generation

1. Operating air pressure: 87~116psi /6~8 bar
2. Air Consumption 200L/min

### Measuring Glass Vacuuming only (FIG.6)

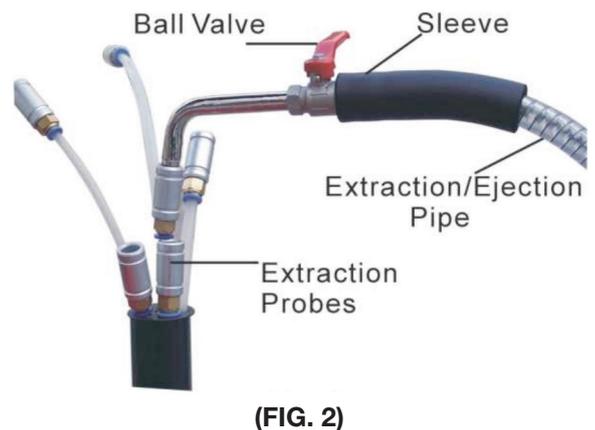
1. Turn off the machine ball valve **3** and the extraction valve **6** (fix on the extraction hose)
2. Connect the compressed air to the machine air inlet **1**.
3. Gradually turn on the air inlet valve (customer installation) for vacuum generation.
4. When the needle reaches the MAX area on the vacuum gauge **2**, turn off the air inlet valve (Estimated time for vacuum generation within 20~30seconds, if continuous extraction is required, please leave it open).
5. Now it is ready for extraction

### Vacuuming both Measuring Glass and Tank (FIG.6)

1. Turn off all valves before vacuuming.
2. Connect the compressed air to the machine air inlet **1**.
3. Open the ball valve **3**.
4. Gradually turn on the air inlet valve (customer installation) for vacuum generation.
5. When the needle reaches the MAX. area on the vacuum gauge **2**, turn off the air inlet valve (estimated time for vacuum generation within 4~5 minutes. If continuous extraction is required, please let it open).
6. Now it is ready for extraction.

### Oil Extraction (FIG.6)

1. After the required vacuum pressure is reached, choose a suitable probe (the largest diameter probe to fit the engine) and tightly connect it to the extraction pipe connector.
2. Insert the end of the probe into the engine oil scale of the engine.
3. Turn on the ball valve **6**.
4. If waste oil only is to be extracted into the cylinder, make sure the ball valve **3** is closed.
5. If waste oil is to be extracted to the oil tank through the cylinder, open the ball valve **3** accordingly. Also the oil tank needs to be pressurised before the extraction operation.
6. After extraction is completed, turn off the ball valve **6** on the extraction pipe.



**Notice: Extraction of hot oil, maximum temperature for oil 60°C. Please do not exceed 60°C.  
Please hold the black sleeve to avoid scalding.**

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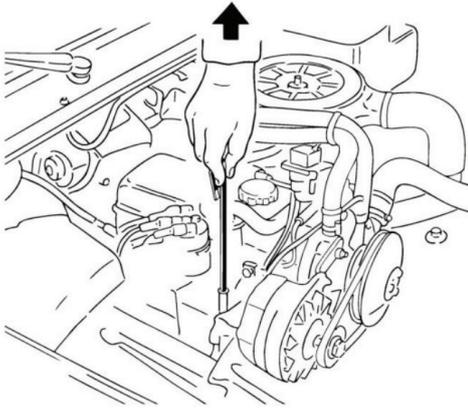
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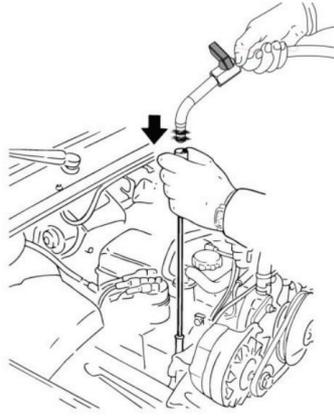
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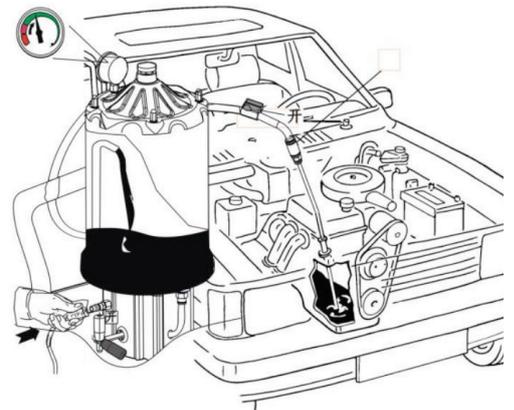
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(FIG. 3)



(FIG. 4)



(FIG. 5)

### Ejection (FIG.6)

#### Oil ejection from cylinder to underside oil tank

1. When the oil level reaches the cylinder 'STOP' warning line, empty the cylinder with oil ejection.
2. Turn on mini ball valve 4 at first to release tank pressure.
3. Turn on ball valve 3 at the same time that the mini ball valve is turned on 6 from the hose to release cylinder pressure and drain oil into the oil tank.
4. Turn off valves 3 and 6 after ejection.

#### More about oil ejection from the cylinder

1. Turn on valve 3, if vacuum exists in the tank, and then oil from cylinder will be transferred into the tank.
2. If no vacuum exists in the tank, turn on the mini ball valves 4 and 6 to allow transferring of waste oil into the tank.
3. Turn off valve 3 and valve 6 after ejection is finished.

**Tip: Faster transfer of waste oil from the transparent measuring glass into oil tank will be achieved if both the transparent measuring glass and the oil tank are pressurised.**

### Tank Emptying

When the waste oil tank is nearly full (see oil window), you need to eject oil out into a bulk waste oil tank and dispose of according to local government regulations.

1. Turn off all the valves.
2. Hold the ejection hook and insert it into the external disposal tank.
3. Connect the air compressor with the air inlet 4.
4. Turn on wing valve 5 for oil ejection.
5. Turn on the mini ball valve 4 gradually, adding tank pressure, turn off air compressor when the desired pressure is reached (the safety valve will automatically release pressure when the tank pressure reaches 14psi/1.0 bar, turn off the air compressor immediately and quickly drop the tank pressure below 14psi/1.0bar, otherwise it could lead to serious injury).
6. Cut off air source after ejection, empty tank pressure and turn off all valves.

### WARNING!

1. The ball valve 3 (FIG.6) must be closed in order to prevent air enter causing transparent measuring glass damaged.
2. Please hold the end of the Ejection Hook to avoid waste oil spattering and causing an eye injury.
3. Before disconnecting the extraction/ejection tube, make sure no pressure exists in the tank. Otherwise, oil will spray out.

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## Safety Device

1. A safety valve will release pressure when pressure is over 14psi/1.0bar during ejection.
2. A safety device is fixed on the top of the cylinder to avoid the cylinder exploding while the compressed air enters the cylinder.

## Trouble Shooting

1. Vacuum gauge doesn't work
  - Check the air pressure: standard air pressure through "air inlet valve" should be between 87~116psi/6~8bar; Air consumption is 200L/Min.
  - Make sure all the valves are in the correct place.
  - Check vacuum operator-to-tank seal.
2. There is a figure showed on the vacuum gauge but the machine isn't extracting
  - Check extraction hose-to-probe seal.
  - Temperature of waste oil is too low (ordinary temperature of oil should be between 40~60°C.)
  - Make sure that the extraction pipe is open.
  - Make sure that the extraction pipe isn't blocked off and that the probe doesn't touch the bottom of the tank.
  - Make sure that the silencer hasn't been blocked.

## Inspection, Maintenance and Cleaning

1. Before each use, inspect the general condition of the machine. Check for loose screws, air and oil leakage, misalignment or binding of moving parts, cracked or broken parts, and any other condition that may affect its safe operation. If abnormal noise or vibration occurs, have the problem corrected before further use. Do not use damaged equipment.
2. Periodically recheck all hoses, valves, nuts, bolts, and screws for tightness.
3. For an extended period of use, please check the adapter/O seals of the adaptors for leakage.
4. Drain the waste oil as soon as possible to avoid tank corrosion.
5. Store in a clean and dry location.
6. All maintenance and repairs must be completed by a qualified technician.

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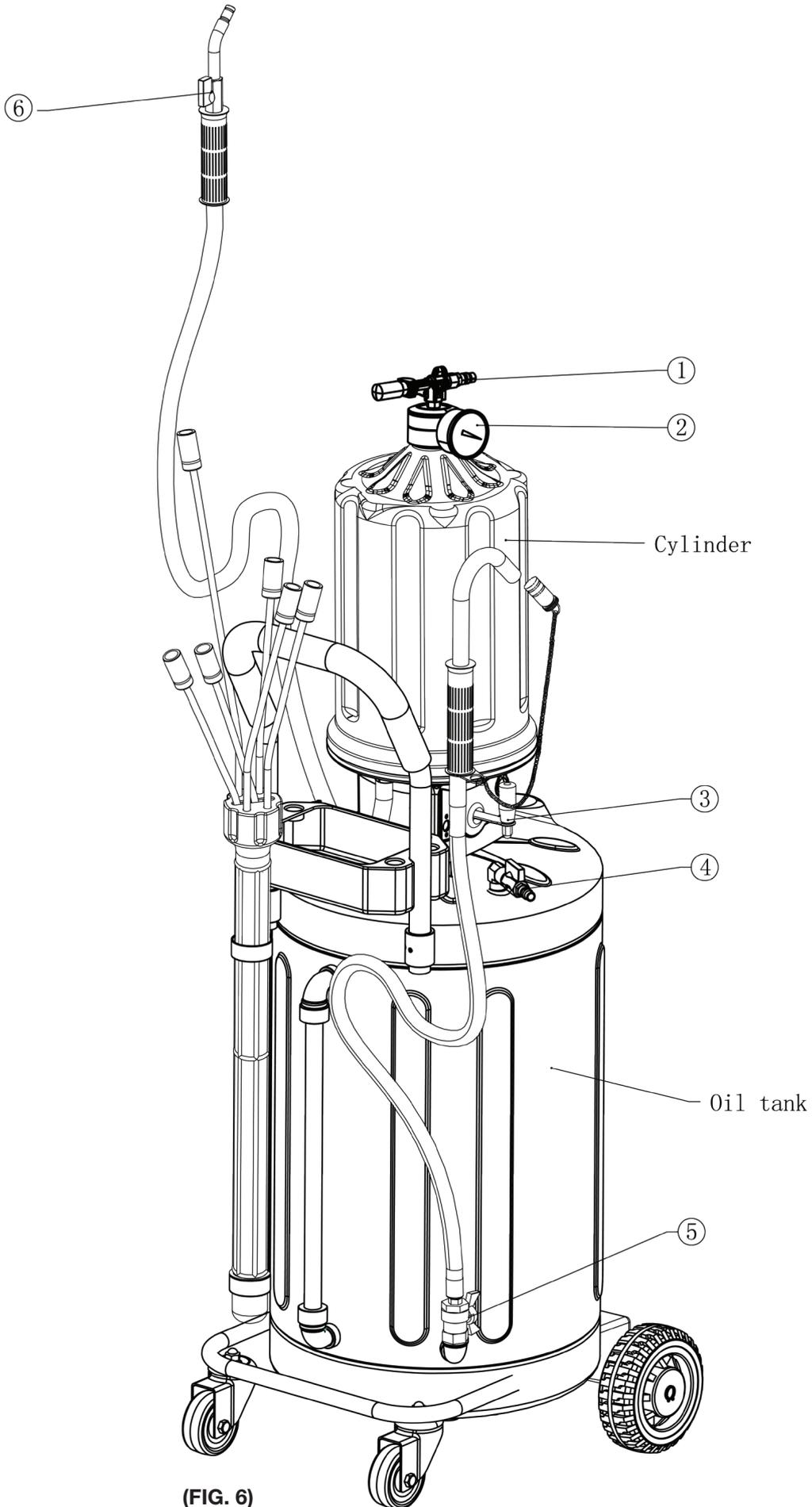
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(FIG. 6)

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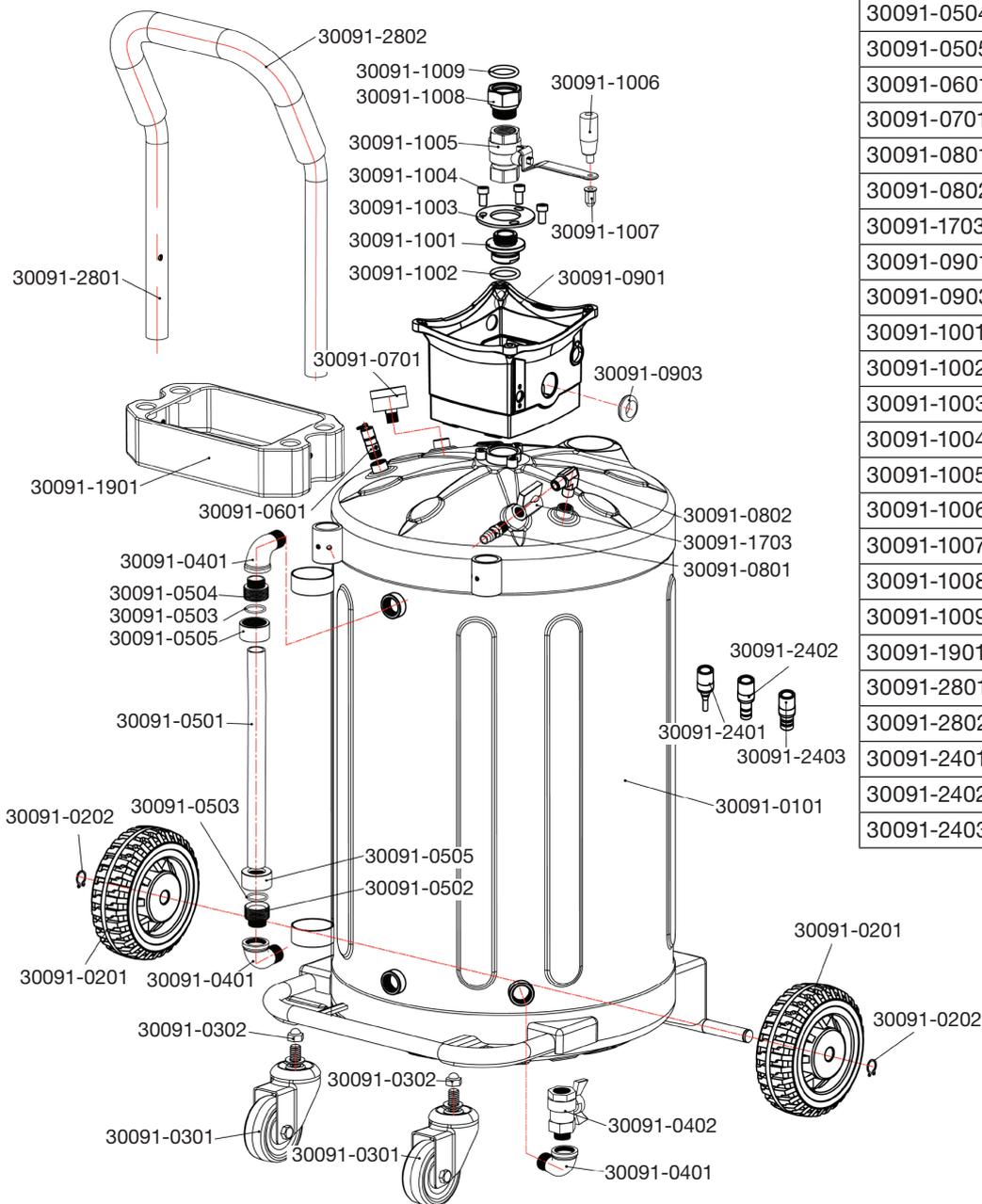
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# Parts and Drawing Breakdown for the 30091

## Ordering Spare Parts

Parts List – Part No. 30091

Item	Description	Quantity
30091-0101	3297 Tank	1
30091-0201	6" Directional Wheel	2
30091-0202	Snap Spring	2
30091-0301	4" Universal Wheel	2
30091-0302	Nut	2
30091-0401	Cast-Iron Elbow	3
30091-0402	Ball Valve	1
30091-0501	Level Pipe	1
30091-0502	Fixing Sleeve (Screw)	1
30091-0503	Seal Ring	1
30091-0504	Fixing Sleeve (Screw)	1
30091-0505	Fixing Sleeve (Nut)	1
30091-0601	Safe Valve	1
30091-0701	Pressure Guage	1
30091-0801	Wind Nozzle	1
30091-0802	Elbow Connector	1
30091-1703	G1/4 Mini Ball Valve	1
30091-0901	Middle Sleeve	1
30091-0903	Bush Rings	1
30091-1001	Connector	1
30091-1002	Seal Ring	1
30091-1003	Fixing Flange	1
30091-1004	Hexagonal Screw	1
30091-1005	Ball Valve	1
30091-1006	Hand Lever	1
30091-1007	Nut	1
30091-1008	Connector	1
30091-1009	Seal Ring	1
30091-1901	Tool Box	1
30091-2801	Handrail	1
30091-2802	Protection Sheath	1
30091-2401	VW Connector	1
30091-2402	BMW Connector	1
30091-2403	BENZ Connector	1



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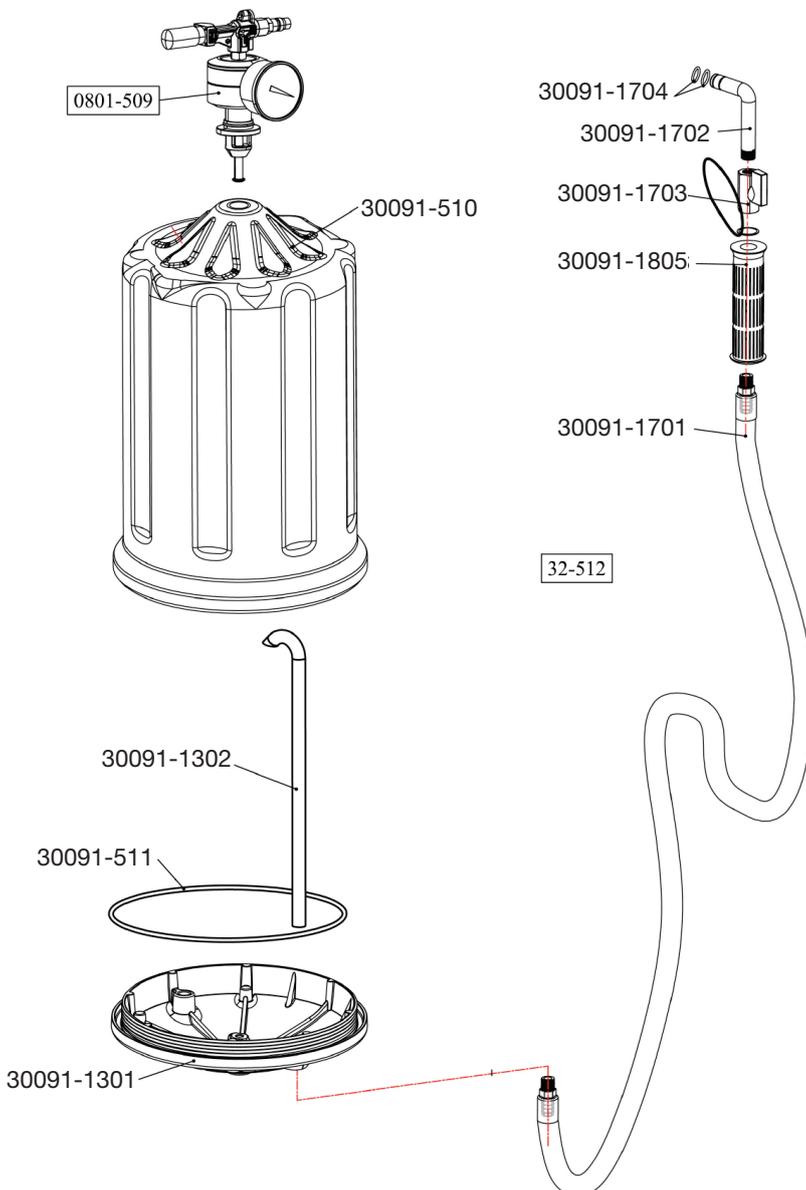
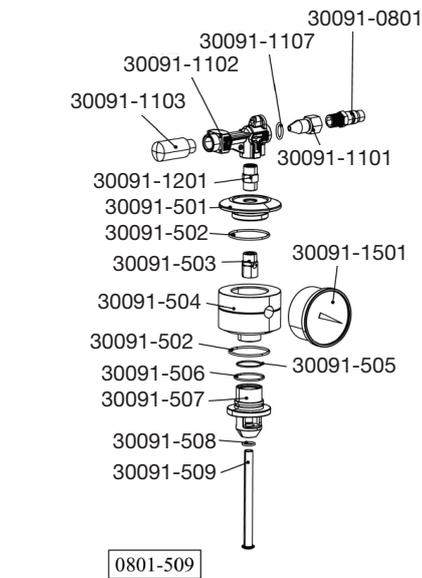
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# Cylinder Assembly

## Ordering Spare Parts

Parts List – Part No. **30091**

Item	Description	Quantity
30091-0801	Wind Nozzle	1
30091-1101	Bolt	1
30091-1107	Seal Ring	1
30091-1102	Vacuum Generator	1
30091-1103	Silencer	1
30091-501	Bead Valve	1
30091-502	Anti Explosion Cover (Metal)	1
30091-503	Connector	1
30091-504	Anti Explosion Seat (Metal)	1
30091-1501	Vacuum Generator	1
30091-505	Seal Ring	1
30091-506	Seal Ring	1
30091-507	Anti Explosion Location Base	1
30091-508	Seal Ring	1
30091-509	Connecting Rod	1
30091-510	Modular Cylinder	1
30091-1302	Absorbing Oil Pipe	1
30091-511	Seal Ring	1
30091-1301	Cylinder base	1
30091-1701	Extraction Oil Hose	1
30091-1702	Oil Extraction Hook	1
30091-1703	G1/4 Mini Ball Valve	1
30091-1704	Seal Ring	2
30091-1805	Handle Sleeve	1
30091-512	Oil Suction Hose with Hook	1



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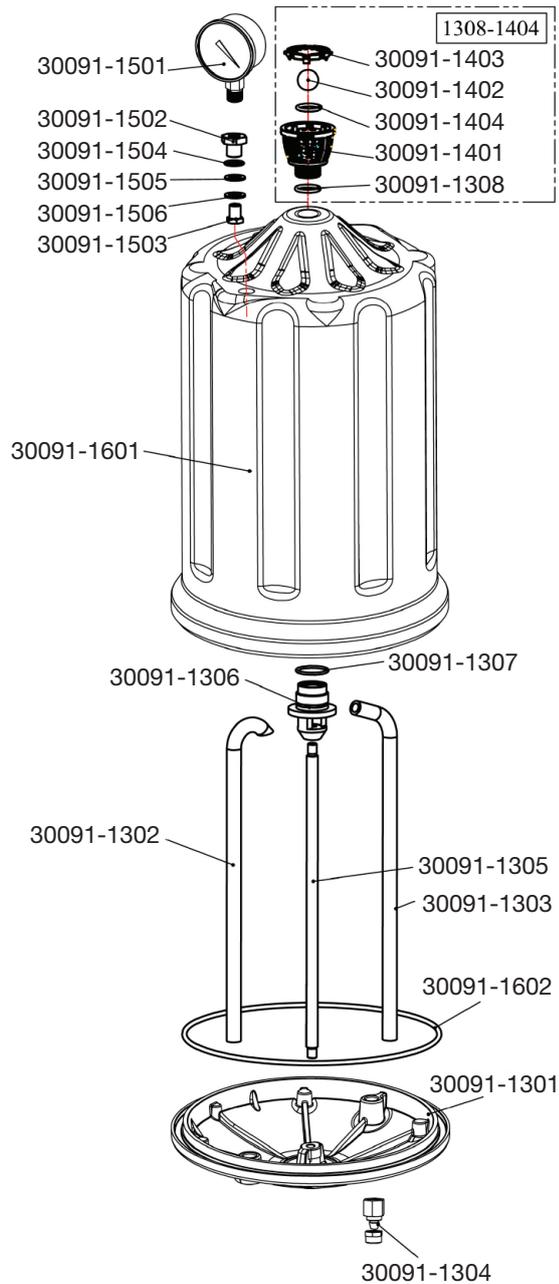
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# Cylinder Assembly

## Ordering Spare Parts

Parts List – Part No. 30091



Item	Description	Quantity
30091-1301	Cylinder Base	1
30091-1302	Absorbing Oil Pipe	1
30091-1303	Vacuum Extraction Pipe	1
30091-1304	Connector	1
30091-1305	Connecting Centre Rod	1
30091-1306	Connector	1
30091-1307	Seal Ring	1
30091-1308	Seal Ring	1
30091-1401	Anti Explosion Seat	1
30091-1402	Steel Ball	1
30091-1403	Anti Explosion Cover	1
30091-1404	Seal Ring	1
30091-1501	Vacuum Gauge	1
30091-1502	Connector	1
30091-1503	Hollow Bolt	1
30091-1504	Seal Ring	1
30091-1505	Rubber Gasket	1
30091-1506	Metallic Gasket	1
30091-1601	Modular Cylinder	1
30091-1602	Seal Ring	1

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# OIL Extraction Probe Assembly

## Ordering Spare Parts

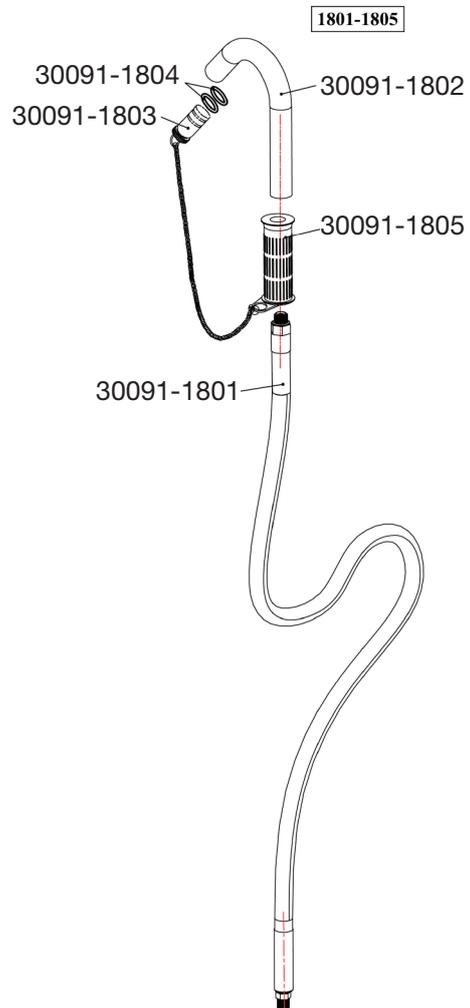
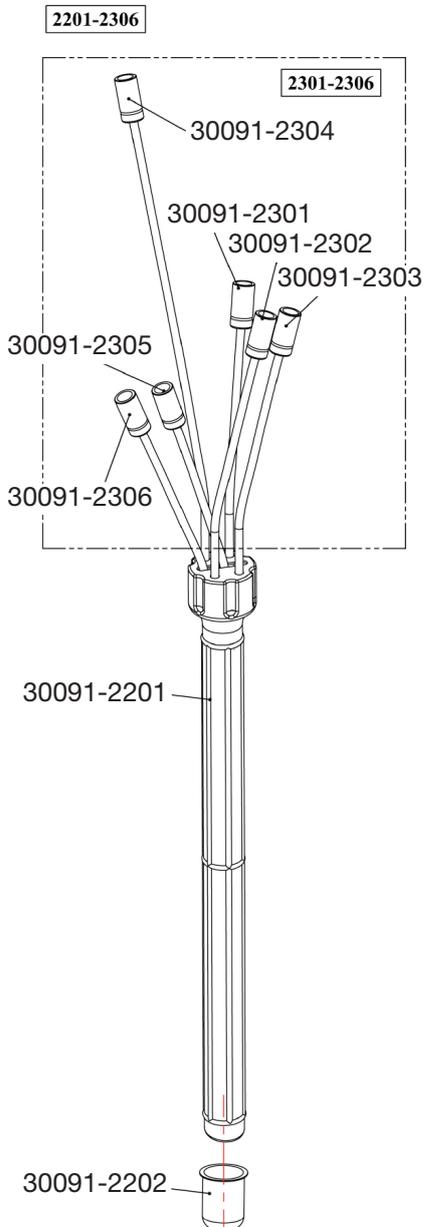
Parts List – Part No. 30091

Item	Description	Quantity
30091-2201	Probe Sleeve	1
30091-2202	Oil Cup	1
30091-2301	Oil Extraction Probe	1
30091-2302	Oil Extraction Probe	1
30091-2303	Oil Extraction Probe	1
30091-2304	Oil Extraction Probe	1
30091-2305	Oil Extraction Probe	1
30091-2306	Oil Extraction Probe	1

## Ordering Spare Parts

Parts List – Part No. 30091

Item	Description	Quantity
30091-1801	Oil Hose	1
30091-1802	Oil Drain Hook	1
30091-1803	Stopper	1
30091-1804	Seal Ring	2
30091-1805	Handle Sleeve	1



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