

PNEUMATIC OIL EXTRACTOR INSTRUCTION & MAINTENANCE MANUAL



NO.9TVP1-80A-B

Please wear proper safety gear while working.



SAFETY WARNINGS AND PRECAUTIONS

WARNING : When using tool, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment.

1. Keep work area clean. Cluttered areas invite injuries.
2. Observe work area conditions. Do not use machines or power tools in damp or wet locations. Don't expose to rain. Keep work area well lighted. Do not use electrically powered tools in the presence of flammable gases or liquids.
3. Keep children away. Children must never be allowed in the work area. Do not let them handle machines, tools or extension cords.
4. Store idle equipment. When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
5. Avoid Unintentional Starting. Be sure the air pressure is in the off position when not in use and before making hose connection.
6. Stay alert. Watch what you are doing, use common sense. Do not operate any tool when you are tired.
7. Check for damaged parts. Before using any tool, any part that appears damaged should be carefully checked to determine that it would operate properly and perform its intended function. Check for alignment and binding of moving parts; any broken parts or mounting fixtures; and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician. Do not use the tool if any control or switch does not operate properly.
8. Replacement parts and accessories. When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool.
9. Do not operate tool if under the influence of alcohol or drugs. Read warning labels if taking prescription medicine to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the tool.
10. Maintenance. For your safety, service and maintenance should be performed regularly by a qualified technician.

Note: Performance of this tool may vary depending on variations in air pressure and compressor capacity.

PRODUCT SPECIFIC SAFETY PRECAUTIONS

This equipment is designed to be operated by qualified personnel. It should only be operated after reading and understanding the safety warnings and operating procedures in this instruction manual.

1. Do not smoke near this equipment.
2. Firework is strictly prohibited during operation, keep away from heat, high voltage, flammable and explosive place
3. Use in a well ventilated area.
4. When leaks are found in the equipment or hoses, immediately turn the air pressure off and repair the leaks.

5. Once leakage is found in the hose or other components during operation, turn off air compressor immediately, conduct a detailed inspection and proceed with troubleshooting.
6. Do not exceed the recommended operating air pressure. This could damage equipment. See specification on Page 5.
7. Keep a type ABC fire extinguisher nearby in case of fires.
8. Always protect your skin and eyes from contact with oil and solvents.
9. Do not start engine during the time of oil extraction. Otherwise it will cause the damage of extraction probes and injuries of people.
10. Be careful for the oil extracted out from the vehicle, as temperature of oil is high, always between 40~60°C.
11. Used oil should be properly disposed or recycled. Please contact with your local waste liquid/solid authority for information on recycling.

- Product description:
1. Fast vacuum speed, capable of high negative pressure, multi-purpose equipment.
 2. High quality cylinder, higher intensity, high grade of transparency as well as high temperature resistance (able to withstand 80°C & negative pressure without deforming). Transparent cylinder allows oil observation and measurement.
 3. Use compressed air as power source; guarantee the safety in use, Eco friendly and low power consumption.
 4. Vacuum cylinder and oil tank at a same time, increase oil extraction speed.
 5. Different diameter of oil suction probes to meet the need of different type of cars.
 6. Height adjustable oil tray lift, can be fix to desirable height.
 7. Can be used with other mechanical engine oil, lubricants as well as temporary storage. Brake fluid, gasoline, diesel and other liquid contains methanol and ketones or flammable is strictly prohibited.

SPECIFICATION:

Functions: Remove and extract waste fluids or oil out from engine and etc. with flexible PVC tube and robust CU probe. Power from compressed air

| Function | Collect waste oil from vehicle gear box or engine |
|--|---|
| Power | Compressed air |
| Air consumption | About 200L / min. |
| Air inlet pressure(for vacuum) | 87~116 PSI / 6~8 Bar |
| Oil ejection pressure | 10~14 PSI / 0.7~1 Bar |
| Vacuum degree | 0 ~ -14 PSI / 0~-1 Bar |
| Tank capacity | 80 L |
| Perspex cylinder capacity(Practicable/total) | 9 / 10 L |
| Collect tray capacity | 16 L |
| Height | About 1460mm ~ 1705 mm |
| Working temperature | 40~60°C(for engine oil) |

PACKAGE CONTENTS

Please inspect and look for damages from shipping when package is first received. If the unit is damaged in any way, please contact customer service and include pictures if possible. In the package, you will find:

- a) One complete oil tank / reservoir.
- b) One complete measuring glass / cylinder.
- c) One oil collecting bowl/tray.
- d) One strain
- e) probes 6 pcs with sleeve.
- f) User's Manual operation Instruction.

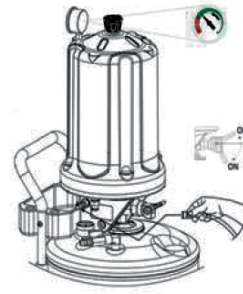


FIG.1

- 1) Vacuum generation with cylinder.

1. Operating airpressure: 6~8 bar / 87~116 PSI.

2. Make sure all valves are close. (FIG.1) connect air source with air inlet(No.9TVP32HC-0801), turn on air valve for vacuum extraction, when finger reaching to the MAX area on the vacuum gauge, turn off air inlet valve.

- b) One Complete Measuring Glass/Cylinder

- c) One Oil Collecting Bowl/tray

- d) One Strain

- e) Probes 6 pcs with sleeve

- f) User's Manual

Operation Instruction

- 1) Vacuum Generation with Cylinder

1. Operating airpressure: 6~8 bar / 87~116 PSI.

2. Make sure all valves are close. (FIG.1) connect air source with air inlet(No.9TVP32HC-0801), turn on air valve for vacuum extraction, When finger reaching to the MAX area on the vacuum gauge, turn off air inlet valve.

Notice : Under a working condition without air source. Please pump with vacuum air before use.

- 2) Extraction

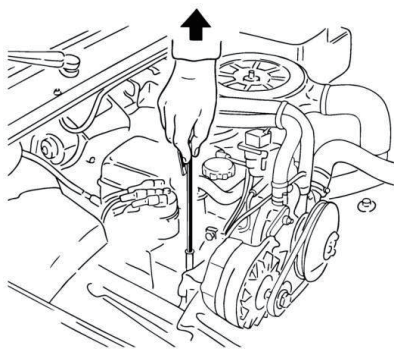


FIG.2

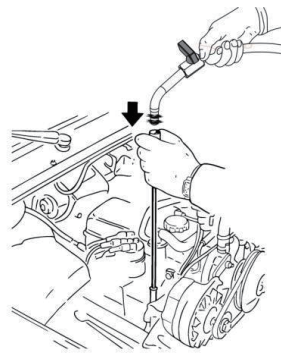


FIG.3

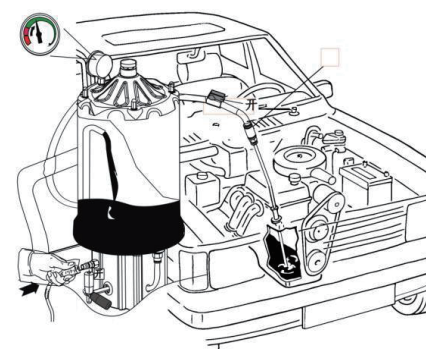


FIG.4

- 1. Ensure the oil tank is under negative pressure, FIG.2 remove engine oil case., choose suitable probe (which is the largest diameter one can be inserted into the engine) and tightly connect it to the extraction pipe connector. Insert the end of the probe into the engine oil inlet hole, FIG.4 Turn on the ball valve(No.9TVP32HC-1703)for oil extraction.

NOTICE: Do not exceed maximum oil extraction temperature 60°C. Hold the hose protection sheath during extraction to avoid scald place the machine in a flat ground to avoid sliding under working condition oil temperature higher than 80°C will cause seriously damage to the components, in worst case it could lead to machine failure. 3) oil ejection oil ejection from cylinder to oil tank.

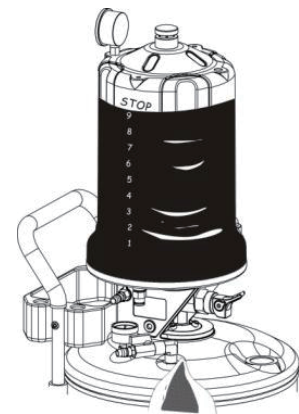


FIG.5

1. When the oil level reached cylinder 'STOP' warning line, please empty the cylinder with oil ejection.
2. Turn on ball extraction valve(No.9TVP32HC-1005), at the same time turn on mini ball valve(No.9TVP32HC-0803)from the hose to release cylinder pressure and oil drain into the oil tank.
3. Turn off oil extraction valve(No.9TVP32HC-1005) and hose ball valve(No.9TVP32HC-1703) after completion of oil ejection.

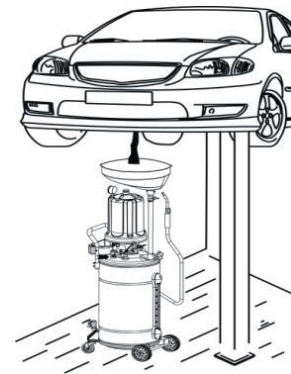


FIG.6

4) Oil collection

1. Lift the vehicle to proper height.
2. Move the oil extractor below the car engine, oil tray position right under the vehicle oil drain hole.
3. Release plum knob to adjust lifting pole .tighten plum knob to fix its height, open wing valve(- No.9TVP32HC-2106), release oil drain bolt for oil collection from vehicle.

5) Tank Emptying

When the oil retained in tank near full (see oil window), You need to eject oil out into a disposal tank and resolve the waste oil accordingly to the instruction of local government.

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 (No.9TVP32HC-0801)
4. Turn on the wingvalve(No.9TVP32HC-0402) gradually, adding tank pressure, turn off air compressor when pressure reach to desired pressure. (The valve will automatically release pressure when the tank pressure reach 1.0bar / 14PSI, turn off the air compressor immediately and quickly drop the tank pressure below 0.7 bar / 10PSI, otherwise it could lead to serious incident)
5. Cut off air source after ejection, empty tank pressure and turn off all valves.

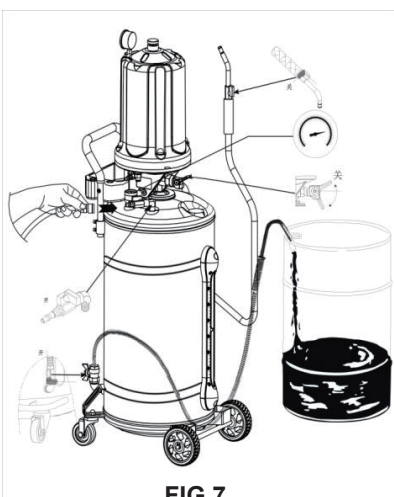


FIG.7

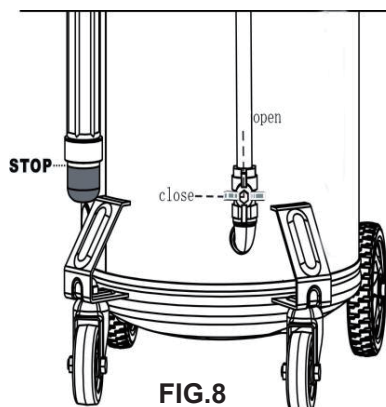


FIG.8

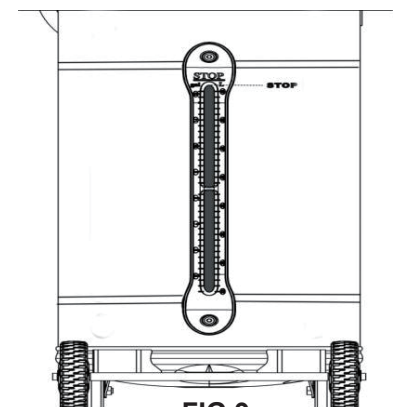


FIG.9

As FIG.8 shows, discharge the residual oil from residual oil cup when it reaches the STOP sign.

PARTS DIAGRAM

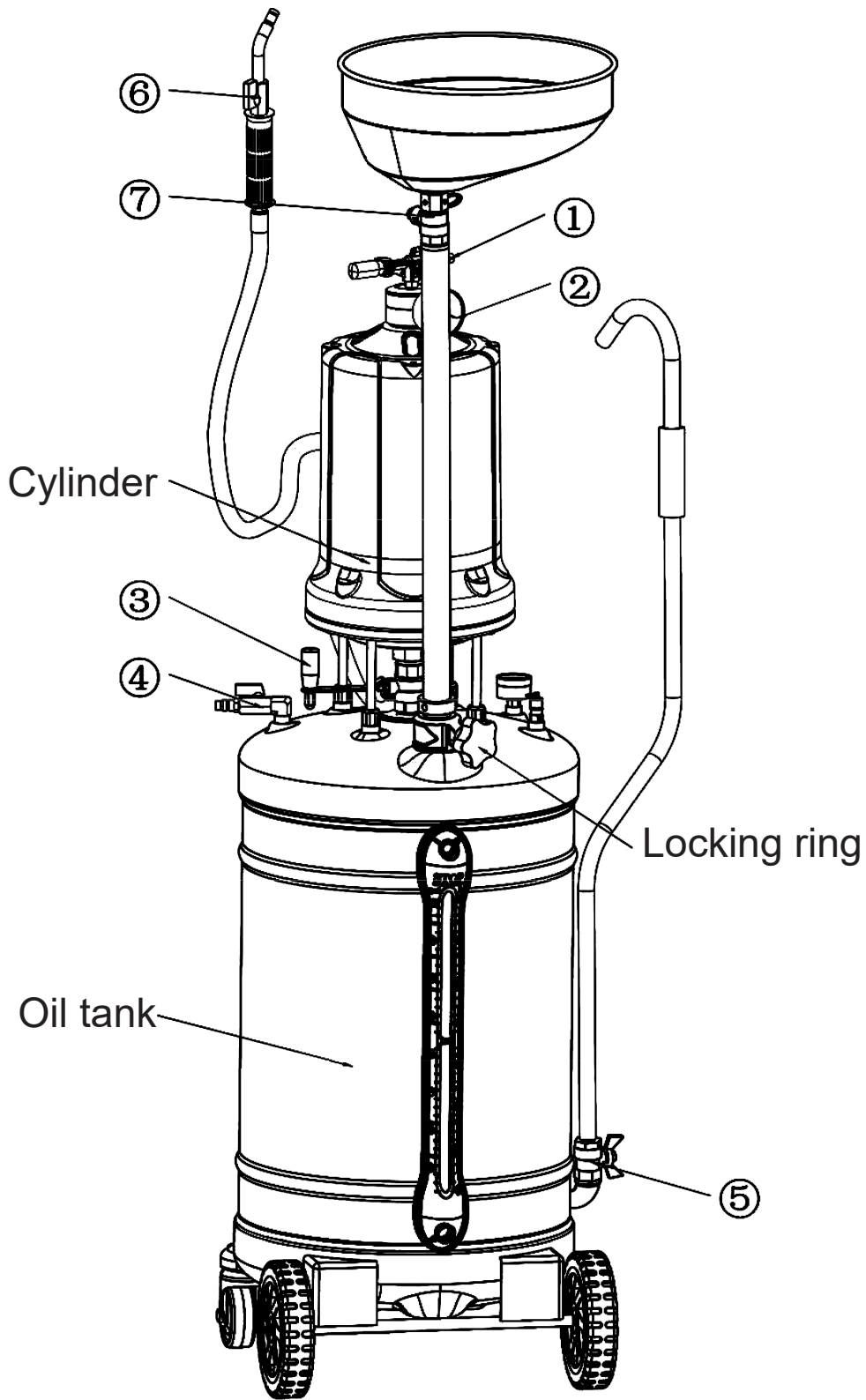
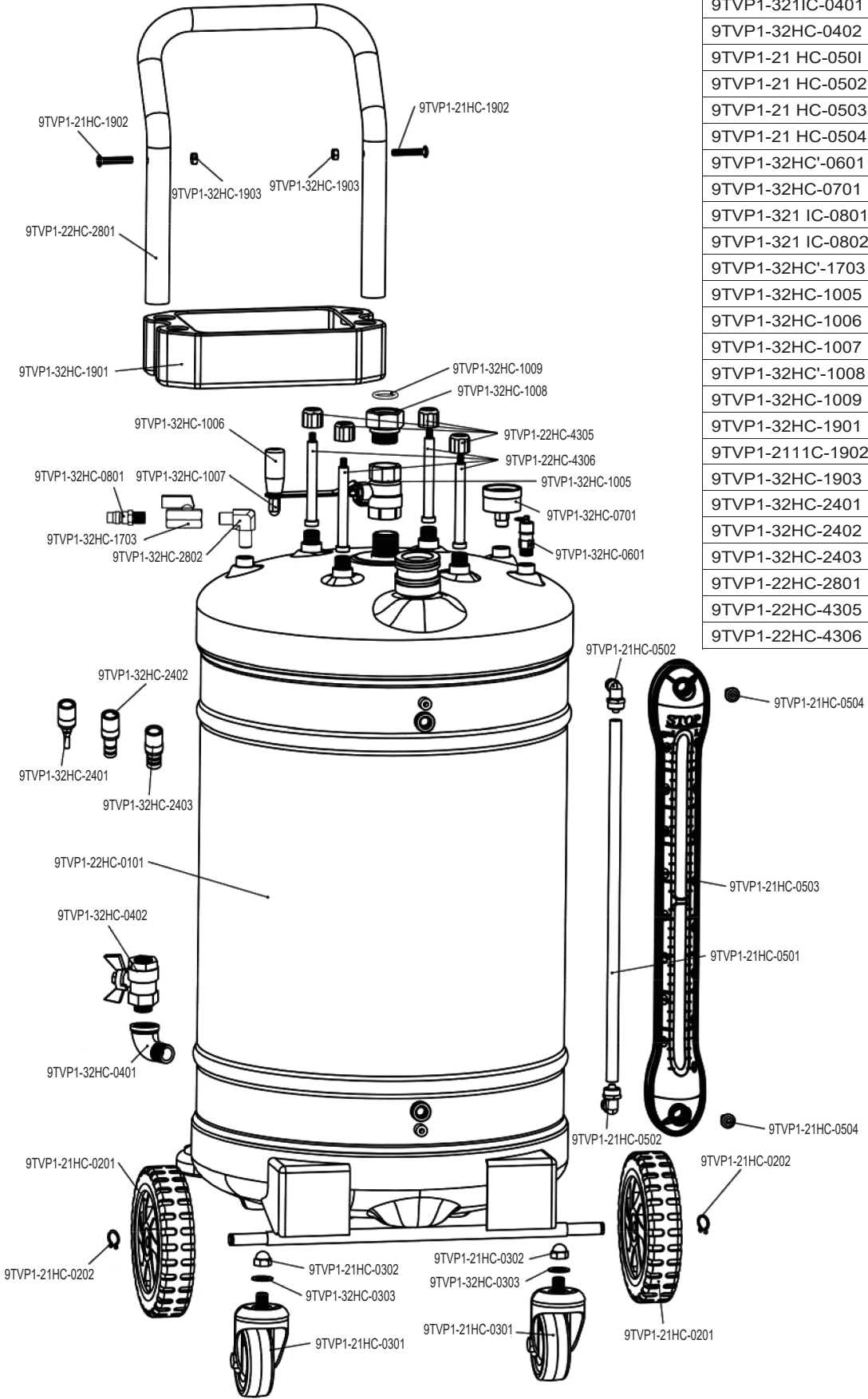


FIG.11

PARTS LIST

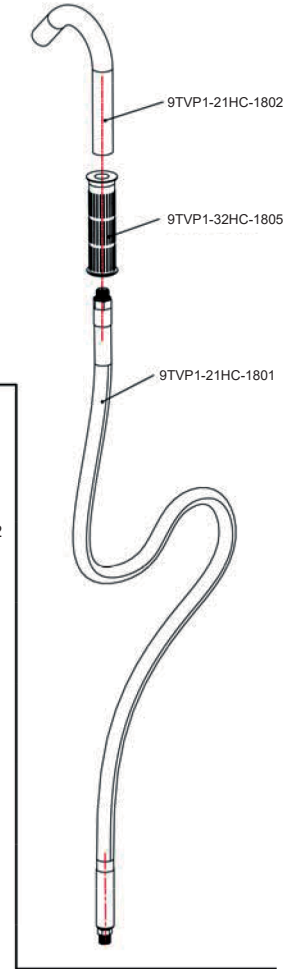
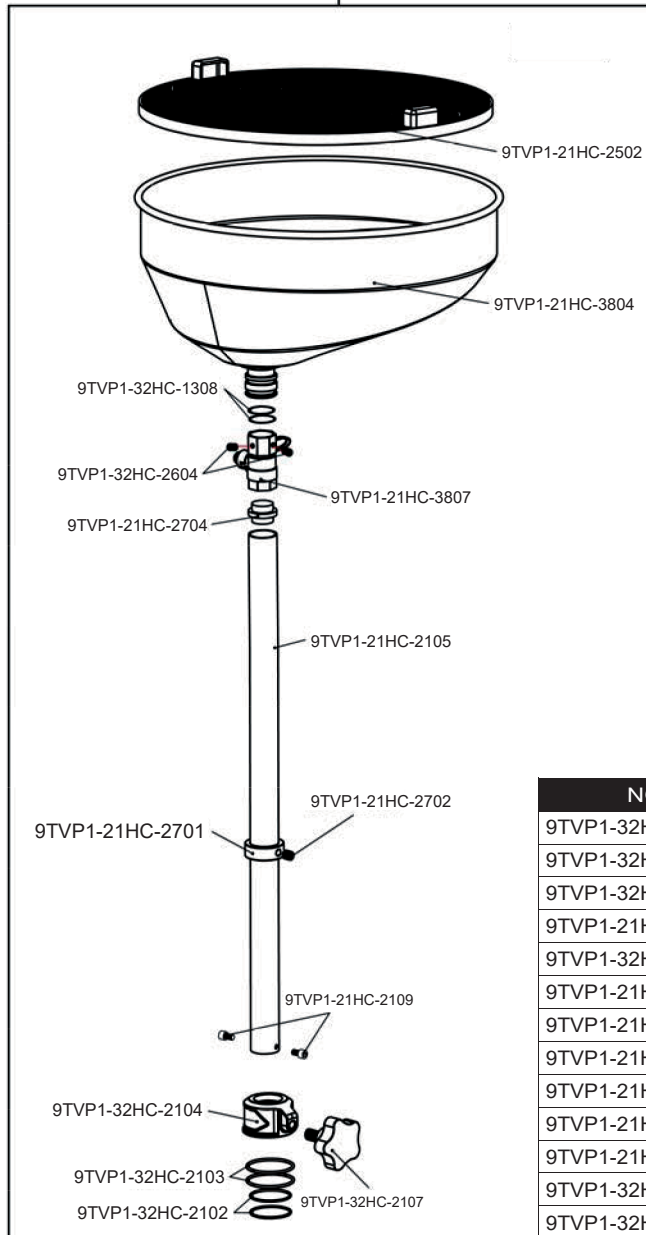
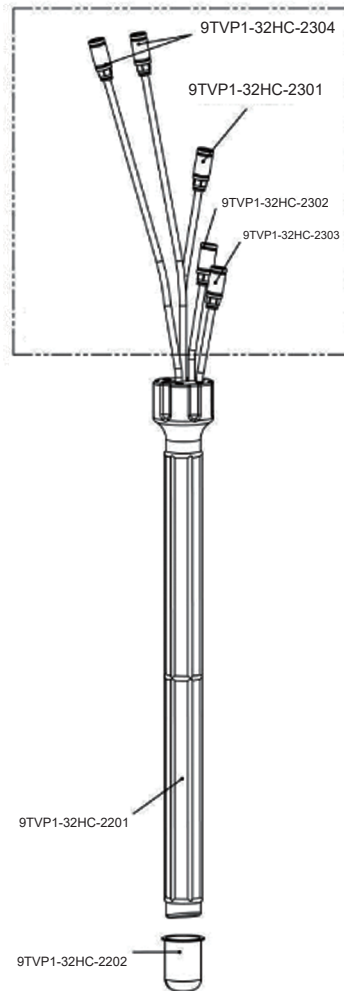
| NO. | DESCRIPTION |
|-------------------|---------------------------|
| 9TVP1-2211C-0101 | 2297 tank |
| 9TVP1-21 HC-0201 | 6.5" directional wheel |
| 9TVP1-21 HC-0202 | Snap ring |
| 9TVP1-21 HC-0301 | 3" universal wheel |
| 9TVP1-21HC-0302 | Nut |
| 9TVP1-32HC-0303 | Gasket |
| 9TVP1-3211C-0401 | Cast-iron bend |
| 9TVP1-32HC-0402 | Butterfly valve |
| 9TVP1-21 HC-0501 | Level pipe |
| 9TVP1-21 HC-0502 | Elbow connector |
| 9TVP1-21 HC-0503 | Level pipe protector |
| 9TVP1-21 HC-0504 | Hexagonal screw |
| 9TVP1-32HC'-0601 | Safe valve |
| 9TVP1-32HC-0701 | Pressure gauge |
| 9TVP1-321 IC-0801 | Wind nozzle |
| 9TVP1-321 IC-0802 | Elbow connector |
| 9TVP1-32HC'-1703 | Mini ball valve |
| 9TVP1-32HC-1005 | Ball valve |
| 9TVP1-32HC-1006 | Hand lever |
| 9TVP1-32HC-1007 | Nut |
| 9TVP1-32HC'-1008 | Connector |
| 9TVP1-32HC-1009 | Seal ring |
| 9TVP1-32HC-1901 | Tool box |
| 9TVP1-2111C-1902 | Screw |
| 9TVP1-32HC-1903 | Nut |
| 9TVP1-32HC-2401 | Vw connector |
| 9TVP1-32HC-2402 | Bmw connector |
| 9TVP1-32HC-2403 | Benz connector |
| 9TVP1-22HC-2801 | Handrail |
| 9TVP1-22HC-4305 | Measuring cup tic rod nut |
| 9TVP1-22HC-4306 | Measuring cup support bar |



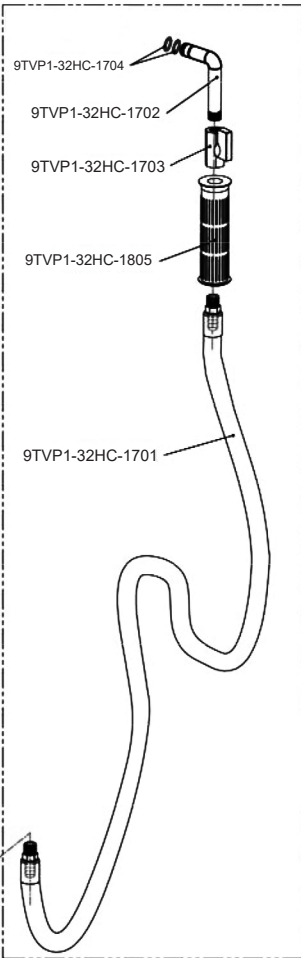
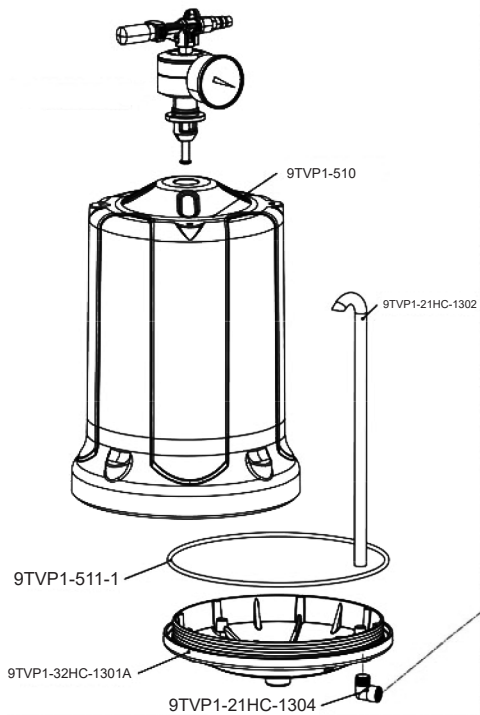
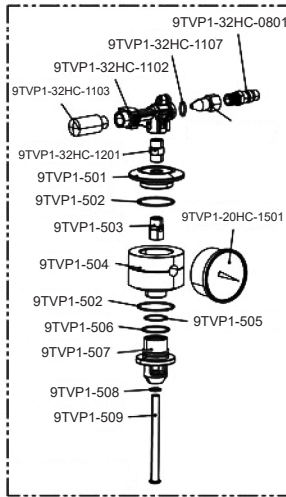
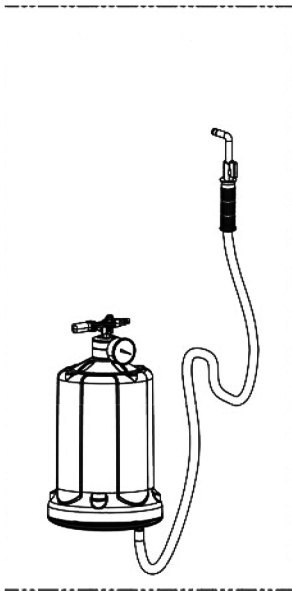
PARTS LIST

| NO. | DESCRIPTION |
|------------------|----------------------------------|
| 9TVP1-32HC-2201 | Probe sleeve |
| 9TVP1-32HC-2202 | Oil cup |
| 9TVP1-32HC-2301 | Oil extraction probe(ø8x700pa) |
| 9TVP1-3211C-2302 | Oil extraction probe(ø6x700 pa) |
| 9TVP1-3211C-2303 | oil extraction probe(ø5x700 pa) |
| 9TVP1-3211C-2304 | oil extraction probe(ø7x1000 pa) |

| NO. | DESCRIPTION |
|-----------------|--------------------------|
| 9TVP1-21HC-1801 | Oil hose |
| 9TVP1-21HC-1802 | Oil drain hook |
| 9TVP1-32HC-1805 | Handle sleeve |
| 9TVP1-1801-1805 | Oil drain hose with hook |

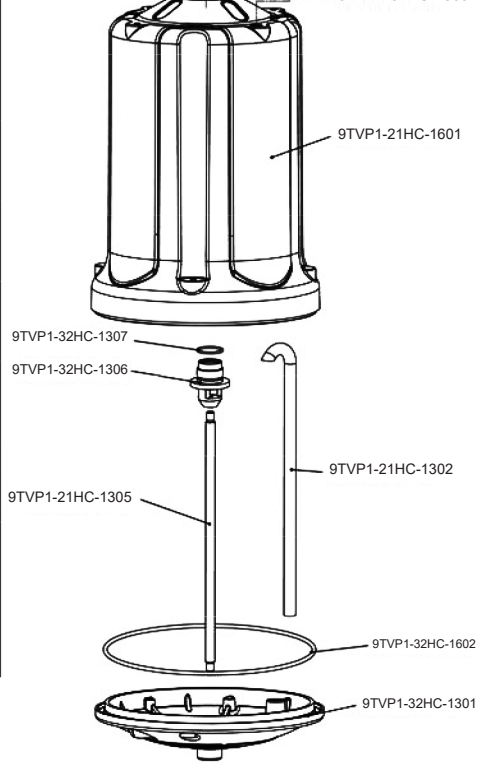
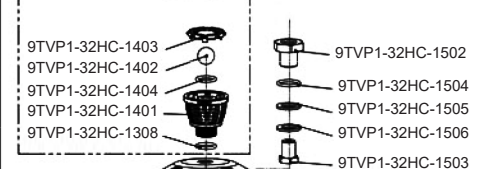
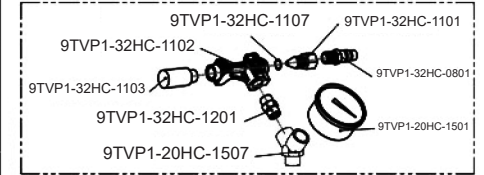


| NO. | DESCRIPTION |
|--------------------|-------------------|
| 9TVP1-32HC 2102 | Seal ring |
| 9TVP1-32HC-2103 | Seal ring |
| 9TVP1-32HC-2104 | Brake sleeve |
| 9TVP1-21HC_2105 | Lift pole |
| 9TVP1-32HC-2107 | Knob |
| 9TVP1-21HC-2109 | Screw |
| 9TVP1-21HC-2502 | Strainer(plastic) |
| 9TVP1-21HC-2701 | position ring |
| 9TVP1-21HC-2702 | Screw |
| 9TVP1-21HC-2704 | Connector |
| 9TVP1-21HC-3804 | Oil tray |
| 9TVP1-32HC-1308 | Seal ring |
| 9TVP1-32HC'-2604 | Screw |
| 9TVP1-21HC-3807 | Ball valve |
| 9TVP1-22-2102-3807 | Lift pole assy |



| NO. | DESCRIPTION |
|--------------------|------------------------------|
| 9TVP1-22-501-512 | Cylinder assy |
| 9TVP1-32HC-0801 | Wind no77le |
| 9TVP1-3211C 1101 | Bolt |
| 9TVP1-32HC-1107 | Seal ring |
| 9TVP1-3211 C-I 102 | Vacuum generator |
| 9TVP1-32110-1103 | Silencer |
| 9TVP1-3211C-1201 | Bead valve |
| 9TVP1-501 | Anti explosion cover(metal) |
| 9TVP1-502 | Seal ring |
| 9TVP1-503 | Connector |
| 9TVP1-504 | Anti explosion seat(metal) |
| 9TVP1-2011C-1501 | vacuum gauge |
| 9TVP1-505 | Seal ring |
| 9TVP1-506 | Seal ring |
| 9TVP1-507 | Anti explosion location base |
| 9TVP1-508 | Seal ring |
| 9TVP1-509 | Connecting rod |
| 9TVP1-0801-509 | Anti explosion valve assy |
| 9TVP1-510 | Modular cylinder |
| 9TVP1-21110-1302 | Absorbing oil pipe |
| 9TVP1-511-1 | Seal ring |
| 9TVP1-32HC- 1301 A | Cylinder base |
| 9TVP1-21 HC- 1304 | Elbow connector |
| 9TVP1-32110-1701 | Extraction oil hose |
| 9TVP1-32110-1702 | Oil extraction hook |
| 9TVP1-32HC-1703 | G 1/4 mini ball valve |
| 9TVP1-32HC-1704 | Seal ring |
| 9TVP1-32HC-1805 | Handle sleeve |
| 9TVP1-21-512 | Oil suction hose with hook |

| NO. | DESCRIPTION |
|-------------------|----------------------------|
| 9TVP1-32HC- 1301 | Cylinder base |
| 9TVP1-32HC- 1302 | Absorbing oil pipe |
| 9TVP1-21HC-1305 | Connecting centre rod |
| 9TVP1-32HC-1306 | Connector |
| 9TVP1-32HC-1307 | Seal ring |
| 9TVP1-32HC-1308 | Seal ring |
| 9TVP1-32HC-1401 | Anti explosion valve seat |
| 9TVP1-32HC-1402 | Steel ball |
| 9TVP1-32HC-1403 | Anti explosion valve cover |
| 9TVP1-32HC-1404 | Seal ring |
| 9TVP1-1308-1404 | Anti explosion valve asst' |
| 9TVP1-3211C-1502 | Connector |
| 9TVP1-32HC-1503 | Hollow bolt |
| 9TVP1-3211C-1504 | Seal ring |
| 9TVP1-3211C-1505 | Rubber gasket |
| 9TVP1-32HC-1506 | Metallic gasket |
| 9TVP1-21HC-1601 | Modular cylinder |
| 9TVP1-3211C-1602 | Seal ring |
| 9TVP1-32110-0801 | Wind nozzle |
| 9TVP1-321-IC-1101 | Bolt |
| 9TVP1-3211C-1107 | Seal ring |
| 9TVP1-3211C-1102 | Vacuum generator |
| 9TVP1-32HC-1103 | Silencer |
| 9TVP1-32HC-1201 | Bead valve |
| 9TVP1-2011C-1501 | Vacuum gauge |
| 9TVP1-20110-1507 | Y-connector |
| 9TVP1-0801-1507 | Complete vacuum generator |





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