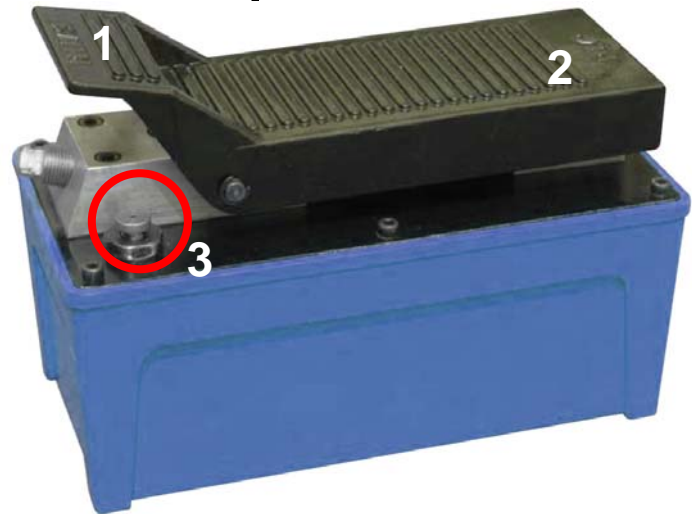


## Air Hydraulic Pump

### SPECIFICATIONS

Input Air Pressure: 90 - 140 psi  
Input Port Thread: 1/4" x 18 NPT  
Output Port Thread: 3/8" x 18 NPT  
Internal Relieve Setting: 10,000 psi  
Reservoir Capacity: 2.2 l  
Usable Oil Capacity: 1.6 l  
Weight: 8.5 kg  
Dimensions: 261 x 135 x 185 mm



### GENERAL

This Air Hydraulic Pump supplies hydraulic fluid pressure to selected tools. It consists of an in-line air and hydraulic cylinder.

The ratio of hydraulic fluid pressure generated compared to supply air pressure is 100:1.

In other words, 100 PSI out for every 1 PSI in - 100 PSI input air pressure equals 10,000 PSI output pressure.

### WARNING

- The air hydraulic pump is capable of generating fluid pressure up to 10,000 PSI.
- Make certain the tool in use is held securely and is in proper working condition.
- Do not continue to operate the pump once the work is completed.
- Failure to comply with these instructions could result in personal injury or damage to the equipment.
- Always keep an eye on the device during operation.
- Discontinue operating the hydraulic unit if it is not working correctly.
- Make sure to avoid injuries to the hands due to trapping.
- Never reach inside the hydraulic unit and make sure to keep sufficient distance.
- Always wear by all means protective glasses and safety gloves on operating the hydraulic unit.
- Make sure the hose couplings are firmly in place and tightened.
- Avoid contact of the skin and the eyes with high pressure oil.
- Should any high pressure oil reach the eyes or wounds, remove the oil at once and consult a doctor without immediately.
- Check hose lines and equipment for damage before and after each use.
- In case the hose lines, hose couplings or the hydraulic unit are defective, the device must not be used before completion of repairs.
- Do not remove any nameplates / warnings, which must be easily visible / clean remain on the ramps.
- Always enclose these directions for use when you leave the equipment to third parties.

### BEFORE USE

To prevent oil leak during shipment, a metal knob (no.3 in picture) is installed and tightened to ensure the best sealing.

Function. Loosen it counter clockwise before use.

**Note:** Always secure threaded port connections with non-hardening pipe thread compound. Tighten securely to prevent accidental removal of components while in use. Take care not to introduce compound into port orifices. Familiarize yourself with the specifications and illustrations in this operator's manual. Know your pump, its limitations and how it operates before attempting to use. Refer to Specification chart on above for details of oil port thread size, usable oil capacity, and more.

## OPERATION

1. Operation of the unit is as follows:
2. Connect the hose of the Air/Hydraulic Pump to the hydraulic coupling on the selected tool.
3. Connect the air supply line to the Air/Hydraulic Pump. Air supply should be 5- 10 CFM at 100 PSI to obtain proper operating characteristics. In addition, the air line should be equipped with an air line filter.
4. Stepping on the PUMP end of the pedal (no.2 in picture) engager the pump, producing the force necessary to run the tool.
5. Depressing the RELEASE end of the pump pedal (no.1 in picture) will release the pressure.

## MAINTENANCE

- Inspect hoses and connections before using the hydraulic pump.
- Tighten connections as needed. .
- Use only good quality hydraulic fluid. We recommend Mobil DTE 13M or equivalent.

### When not in use or during storage:

- Depressurize the unit and disconnect hydraulic hoses from application.
- Clean the unit with a soft and dry cloth.
- Store in a clean and in a dry environment.
- Avoid extremes high or low temperature.

### Adding Hydraulic Fluid

1. Depressurize the unit and disconnect hydraulic hose from application.
2. Make sure that the pump is in upright, horizontal position.
3. Remove the oil filler plug (located on the top plate of the reservoir).
4. Use a small funnel to fill reservoir to within 3/4" (19mm) of the opening.
5. Never use brake fluid, transmission fluid, turbine oil, motor oil, alcohol, glycerin etc.
6. Use of other than good quality hydraulic oil will void warranty and damage the pump, hose, and application.
7. Wipe up any spilled fluid and reinstall the oil filler plug.

### Changing Hydraulic Fluid

1. For best results, change fluid once a year.
2. Remove the oil filler plug (located on the top plate of the reservoir) then pour used fluid into a sealable container.
3. Dispose of fluid in accordance with local regulations.
4. Fill with a good quality hydraulic oil as recommended above. Reinstall vented oil filler plug.

### Lubrication

Use a light machine oil to lubricate pivot points, hinges etc.

Note: Never operate pump with release valve closed and disconnected from application. If operated in this condition, the hose and connections become pressurized. This increases burst hazard. Damage may occur to pump and its components.



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DÉCLARATION „CE“ DE CONFORMITE  
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*Wermelskirchen, den 30.12.2013*

ppa. 

Frank Schottke, Prokurist

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