

BGS 1609

Air Hydraulic Pump

TECHNICAL DATA

Input air pressure: 6.2 - 9.6 Bar (90 - 140 PSI) Air inlet thread: 1/4" x 18 NPT Oil outlet thread: 3/8" x 18 NPT Max. outlet pressure: 689 Bar (10000 PSI) Oil tank capacity: 1.9 Liter Usable oil capacity: 1.6 Liter Weight: 8.5 Kg Dimensions: 261 x 135 x 185 mm



ATTENTION

Read the operating instructions and all safety instructions contained therein carefully before using the product. Use the product correctly, with care and only according to the intended purpose. Non-compliance of the safety instructions may lead to damage, personal injury and to termination of the warranty. Keep these instructions in a safe and dry location for future reference. Enclose the operating instructions when handing over the product to third parties.

INTENDED USE

This air-assisted hydraulic pump provides oil pressure for hydraulic tools. The ratio of oil pressure to compressed air is 100: 1. Air pressure of 6.89 bar at the air inlet causes 689 bar at the oil pressure outlet.

SAFETY INFORMATIONS

When using hydraulic tools, fundamental precautionary measures must always be ensured, in order to reduce the risk of personal injury and property damage.

- Keep children and unauthorised persons away from the work area.
- Do not let any children play with the tool or its packaging.
- Make sure that the work area is sufficiently illuminated.
- Keep the work area clean, organised, dry and free from other materials.
- Do allow untrained persons work with this hydraulic tool.
- Always wear safety goggles and gloves when working with hydraulic pump.
- This hydraulic pump is able to generate pressures of up to 689 bar. Be careful, do not touch any hoses or hose connections that are under pressure. Only use hydraulic accessories that can withstand the high pressure.
- Make certain the hydraulic pump is in proper working condition, when working with it.
- Operate the foot valve until the work is finished only, prolonged activation can damage the pump, hose and hose connections.
- Keep an eye on the hydraulic tools and the surrounding area during operation.
- Interrupt work with the hydraulic unit if it does not work properly.
- Make sure that hands are not injured by reaching into or through hydraulic tools. Never reach into or through hydraulic tools and make sure you keep sufficient distance.

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SAFETY INFORMATIONS

- Always wear safety goggles and gloves when working with hydraulic pump.
- Make sure that hose couplings are all properly connected.
- Avoid skin and eye contact with hydraulic oil. Should hydraulic oil get into eyes or wounds despite all precautionary measures, remove the oil immediately and consult a doctor.
- Before each use, check the hose lines and the device for damage.
- Do not use the hydraulic pump if the hose line, hose coupling or the hydraulic pump itself is defective. The hydraulic pump may only be used again after it has been repaired.
- Failure to comply with the aforementioned safety information can result in severe injuries and / or property damage.

WARNING SYMBOLS

Do not remove any type plates or warning notices; these must remain clearly visible and clean on the hydraulic pump.

RESPONSIBILITY

The owner / operator is responsible for the maintenance, care and legibility of all warning signs and the operating instructions that contribute to the safe operation of the hydraulic tool. Read all safety warnings and instructions. Make sure that all safety instructions are understood before use. The hydraulic tool must be checked for visible damage before each use. If damage is found, the hydraulic tool may only be put back into operation after repairs have been carried out.

COMPONENTS

- 1 Oil outlet
- 2 Ventilation valve
- 3 Oil tank
- 4 Air inlet
- A Pressure release pedal
- B Pressure build-up pedal



PREPARATION

- In order to prevent leakage during transport, the ventilation valve (2) must be closed during transport. Before use, open the ventilation valve by turning it counterclockwise (approx. one turn).
- 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 technical details and the illustrations in these operating instructions. Get to know the hydraulic pump and how it works before you use it.
- Details on thread sizes and usable oil volume can be found in the "Technical data" chapter.

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OPERATION

- 1. Connect the threaded side of the pressure oil hose to the pressure oil connection (2) of the hydraulic pump.
- 2. Connect the coupling side of the pressure oil hose to the selected tool.
- 3. Insert a compressed air nipple into the compressed air connection (4) of the hydraulic pump.
- 4. Connect the hydraulic pump to a source of compressed air.
- 5. To maintain the correct operating characteristics, the air supply must be 140-280 L/min at 6.9 bar. Furthermore, the compressed air source must be equipped with a filter unit.
- 6. Check all hoses and connections before using the hydraulic pump.
- 7. Press the pressure build-up pedal (B), the pump is started and generates the required oil pressure to operate the tool.
- 8. Press the pressure release pedal (A) to lowers the oil pressure.

Note: Never operate the hydraulic pump without a hydraulic tool connected. In this state, the hose and the connections are put under high pressure. This increases the risk of bursting and can damage the pump and its components.

MAINTENANCE

- Inspect hoses and connections before using the hydraulic pump.
- If necessary, tighten the connections.
- Check the hydraulic oil level. Use only good quality hydraulic fluid. We recommend Mobil DTE 13M or equivalent.
- Use a light machine oil to lubricate pivot points.
- Clean the hydraulic pump with a soft and dry cloth.

STORING

- Depressurize the hydraulic pump and disconnect hydraulic hose from hydraulic tool.
- Clean the hydraulic pump with a soft and dry cloth.
- Store the hydraulic pump in a clean and dry environment.
- Store the hydraulic pump in a place out of the reach of children.
- Avoid extremely high or low temperatures when storing.

ADDING HYDRAULIC OIL

- 1. Depressurize the hydraulic pump and disconnect hydraulic hoses from hydraulic tool.
- 2. Make sure that the pump is in upright, horizontal position.
- 3. Remove the oil filler plug, this is located on the top plate of the oil tank.
- 4. Use a small funnel (19mm) to fill the oil tank.
- 5. Never use brake fluid, glycerine, transmission, turbine, or motor oil.
- 6. Use only good quality hydraulic fluid. Use of other than good quality hydraulic oil will void warranty and damage the pump, hose, and hydraulic tool.
- 7. Wipe up any spilled fluid and reinstall the oil filler plug.

CHANGE HYDRAULIC OIL

- 1. For best results, change fluid once a year.
- 2. Remove the oil filler plug, this is located on the top plate of the oil tank, then pour used fluid into a sealable container.
- 3. Fill with a good quality hydraulic oil as recommended above and reinstall oil filler plug.
- 4. Dispose of the used oil properly via a waste oil disposal company or inquire at your waste authority.

ENVIRONMENTAL PROTECTION

Dispose of this product at the end of its working life environmentally. Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. Contact your local solid waste authority for recycling information.



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