

# **MANTEX / MANTEX HP**

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## **Safety Instructions**

**Mantex pressure hose ¾" 25 bar**

**Mantex pressure hose 1" 25 bar**

**Mantex pressure hose 1 ½" 20 bar**

**Mantex pressure hose 2" 15 bar**

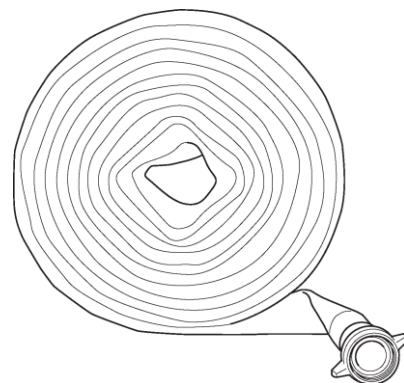
**Mantex pressure hose 2 ½" 12 bar**

**Mantex pressure hose 3" 12 bar**

**Mantex HP High pressure hose 2" 40 bar**

**Mantex HP High pressure hose 3" 30 bar**

**Mantex HP Extra High pressure hose 3" 40 bar**



**mandals**  
since 1775

A Michelin Group Company

## SAFETY INSTRUCTIONS

To reduce risk of serious injury or death to yourself or others, read these safety instructions before operating.




Post these safety instructions at work locations, provide copies to employees, and make sure that everyone reads the safety instructions before operating or servicing.

These instructions have been compiled to the best of our knowledge. Check to make sure that local safety regulations are also followed. The hose may only be used for its intended purpose.

Note that hoses are supplied with and without couplings. The safety instructions are applicable for the use of both.

## Safety symbols used

The indications **Danger**, **Warning** and **Caution** have the following meanings:

- |  |   |
|--|---|
|  <b>Danger</b>  | Indicates an imminently hazardous situation, which if not avoided, will result in death or serious injury.  |
|  <b>Warning</b> | Indicates a potentially hazardous situation, which if not avoided, could result in death or serious injury. |
|  <b>Caution</b> | Indicates a potentially hazardous situation, which if not avoided, may result in minor or moderate injury.  |

## Modification hazard

### **Warning**

Any modification not approved by Mandals may result in serious injuries to yourself or others.

- ▶ For reasons of product safety, the hose must not be modified or repaired.
- ▶ Any damage or malfunction caused by the use of third-party parts is not covered by the Warranty or by Product Liability.

## Compressed air hose hazards

### **Warning**

A compressed air hose that comes loose can lash around and cause personal injury or death.

To reduce risks:

- ▶ Check that the compressed air hose and the couplings are not damaged.
- ▶ Check that all compressed air couplings are properly attached.
- ▶ Never attempt to disconnect a compressed air hose that is pressurized.
- ▶ Before removing the hose, switch off the air supply and vent the compressed air line.

### **Warning**

The hose can burst if the maximum operating pressure is exceeded, which can cause personal injury.

- ▶ Never exceed the maximum operating pressure.
- ▶ Never exceed the maximum operating pressure of the couplings when using third party couplings.

### **Warning**

If any of the couplings comes loose or are damaged, or if the outer polymer is damaged to an extent that the reinforcement is exposed, this can cause personal injury.

- ▶ Check that both couplings are connected correctly and screwed on tightly.
- ▶ Regularly check the compressed air hose for damage, both on the outer polymer and reinforcement, and on the couplings.
- ▶ Do not continue to use the compressed air hose if any damage is found on the outer polymer and reinforcement, or on the couplings.
- ▶ Handle the couplings carefully. They should not be beaten or knocked.

### **Warning**

If the hose is not completely unwound, it can whip about risking personal injury when pressurized.

- ▶ Prior to pressurizing the hose, unwind it completely, avoiding any sharp bends.
- ▶ The hose should then be pressurized slowly to avoid causing any rapid movements.

### **Warning**

Regularly measure the external diameter of the high-pressure hose when it is pressurized.

- ▶ If the hose starts to expand, **immediately shut off the air pressure!**
- ▶ Find the cause of the expansion and replace the high-pressure hose before pressurizing the compressed air system again.

## Warning

If a pressurized hose rests on or hits sharp objects it can burst and cause personal injury.

- ▶ Check and make sure that pressurized hoses do not rest on any sharp objects that can damage the hose's outer covering during operation.
- ▶ Never pull on the hose when pressurized.
- ▶ Avoid handling a pressurized compressed air hose.
- ▶ Try to maintain a safe distance to the compressed air hose when it is pressurized.

## Warning

To avoid risks caused by damage that will influence the function of the hose:

- ▶ Always look for worn or damaged parts!

## Additional safety instructions

- ▶ Machines and accessories must only be used for their intended purpose.
- ▶ The maximum permissible air pressure for the hose must not be exceeded.
- ▶ Always inspect the equipment prior to use. Do not use the equipment if you suspect that it is damaged.
- ▶ Always use your common sense and good judgment.
- ▶ Pay attention and look at what you are doing.
- ▶ Do not use any machines or accessories when you are tired or under the influence of drugs, alcohol or anything else that may affect your vision, reactions or judgment.
- ▶ Participate in safety and training courses.
- ▶ Never strike or abuse any equipment.
- ▶ Keep the equipment in a safe place, out of the reach of children and locked up.
- ▶ Make sure that all the attached and related equipment is properly maintained.
- ▶ Make sure that no unauthorized personnel trespass into the working zone.
- ▶ Keep the workplace clean and free from foreign objects.
- ▶ Never point a compressed air hose at yourself or anyone else. To avoid the risk of getting injured, never use compressed air to blow e.g. dust, dirt etc. from your clothes.

## Protective equipment

Always use approved protective equipment. Operators and all other persons in the working area must wear protective equipment, including at a minimum:

- ▶ Protective helmet
- ▶ Hearing protection
- ▶ Impact resistant eye protection with side protection
- ▶ Protective gloves
- ▶ Protective boots

## Actions before starting and stopping

- ▶ Before pressurizing the hose, check and make sure that the hose and couplings are undamaged.
- ▶ Check that all the compressed air connections are properly attached and properly tightened.
- ▶ Attach the air lines to the closed air outlet valves.
- ▶ Use hoses with suitable pressure rating and fit for the environmental conditions. Always install with hose stocking/whip-sock or equivalent safety measures. Inspect hoses and connections daily.
- ▶ Ensure that the hose is not kinked or tightly bended (squeezed) at any place when pressurized.
- ▶ Ensure that the hose can expand freely when pressurized.
- ▶ Always start by shutting off the compressed air at the compressor. Then vent the air from the hose before loosening the connections.
- ▶ Ensure the rubber seals in the couplings on the compressor and the air hose are in good condition. Replace as required.
- ▶ The compressed air hose must be secured at both ends, both to the compressor and the drilling trolley or equivalent.

## Warning

To avoid personal injury, make sure no external force is applied to the air outlet valves, for example by pulling hoses or by connecting equipment directly to the valves.

## Contact Information

For more information please visit: [www.mandals.com](http://www.mandals.com).

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