

## Assembly Instructions for TRACOpres ECOcushions (different from TRACOpres POWERcushions!)

### 1. Introduction

Lifting bags are intended to be used for lifting objects or applying force or pressure to an object. The action is based upon filling the lifting bag with compressed air, so that the hose section of the lifting bag takes on a rounded form. Note: Lifting bags are wear parts. Make sure that it is easy to mount or dismount them. Check the lifting bags visually on a regular basis and check if they are still air tight. ECOcushions are subjects to wear and tear. That is why you should recognize this by simple assembling and disassembling already with design.



### 2. Safety instructions

When using lifting bags, one has to be aware that no human body parts become trapped between the lifting bag and any object. It is recommended to wear safety shoes when using lifting bags.



When lifting bags are used individually, a separate manually operated ball valve or push button valve must be used. This valve must be operated, using both hands. In this way the chance of hand injuries will be excluded.



When lifting bags are used for the lifting of machines or other objects, packing material must be used to secure the position of the load, as soon as the required position is reached. Also, make sure that no persons are in the vicinity of the load, so that no one will be injured if something should go wrong.

The maximum allowable pressure for the lifting bags is between 5 and 8 bar, depending on the lifting bag's size, and is mentioned on the type plate which is stuck on one of the metal endplates.



The maximum allowable temperatures are -35° C and +100° C. Lifting bags should not be exposed to open fire.

Despite our thorough manufacturing and testing procedures, it cannot be excluded that due to a material defect, a lifting bag will burst. Use of hearing protectors is therefore recommended.



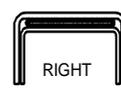
### 3. Transport & storage

Never store lifting bags for long periods in a folded condition. Long lifting bags are to be stored rolled up or vertically hanging. Use strong packaging material for transportation.



### 4. Installation & taking it into use

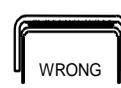
Before the lifting bags are connected to the compressed air system, all piping and hoses have to be checked for any leaks. Never exert excessive force when attaching fittings to the lifting bag connection. Prevent the threaded nipple from turning or dismantling while the connection is being made. This is due to ESV version with vertical valve sockets. These are glued and must not be loosened under any circumstances. The hole in the counter plate must be large enough to allow a pass through of the entire unit of the socket. For thread sealing, use either Loctite "Hydraulic Sealant 577", PTFE tape or a comparable sealant. Avoid any power to make a joint, tighten only hand-tight. In case of doubt, contact us for professional advice.



RIGHT

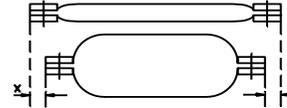


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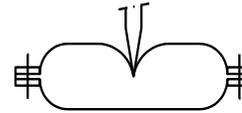


WRONG

Prevent the hose material of the lifting bag to become trapped between moving parts of the construction. Also prevent that the construction directly rests on the rubber hose. This to avoid excessive wear.



The end strips must be able to move freely. When the lifting bag is pressurized, these strips will move slightly towards each other. This movement may not be impeded in any way.



Avoid sharp edges in the construction or sharp materials to be in contact with the bag material. While this could lead to leakage of the lifting bag.

### 5. Operating instructions

The start and stop instructions will depend on the operational controls and valves installed by the client. Take note of the warnings given under art. 2.

### 6. Cleaning & maintenance

Keep the environment of the lifting bags clean and prevent sharp material to come between the lifting bag and the lifted object. Visually check the lifting bag for excessive wear at least once per 3 months and clean the lifting bag and its environment, lifting bags do not require any other.

### 7. Disposal

Before disassembling the lifting bag, disconnect it from the air supply and ensure yourself that it is not pressurized anymore. For disposal, remove the end strips from the lifting bag and deliver the various materials: metal parts and rubber separately to an authorized waste disposal. You may also send the lifting bags back to us.