

AERO BOOM[®]

HIGH FORCE HYDRAULIC TOOLS & SOLUTIONS

AIR LIFTING BAG



OPERATION MANUAL

Pleasure use the rescue tool by professionally trained person.

It is prohibited strictly to use rescue tool near the combustible gas and liquid.

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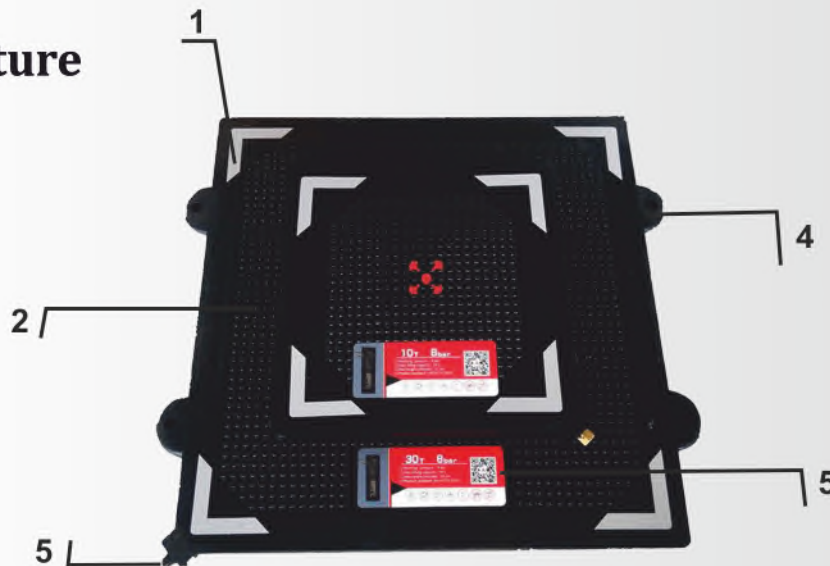
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I. Working Principle



- Air lifting bag is a kind of aid lifting equipment powered by compressed gas, which can lift heavy objects in a very narrow gap, with its salient features: small thickness, large lifting height, short lifting time, strong lifting force etc. Working principle
- Gas cylinder reduce 25MPa high-pressure air to 0.8MPa low-pressure air by the pressure regulator (pressure reducer), 0.8MPa low-pressure connected air cushion by a controller, inflate air makes air lifting bag prop up object to save victims trapped in the danger.

II. Main Structure



1. Edge chamfering, convenient insertion for work.
2. Anti-skid design, increase the friction between air cushion and air cushion or between air cushion and the ground.
3. Marks & Logo: Air bag technical parameters.
4. Handle for moving conveniently.
5. Air intake with female quick coupler, convenient for fast filling.

III. Operation Process

1. Take out gas cylinder, pressure reducer, hoses, controller, 0.5 meter hose, air cushion and so on.



2. Connected pressure reducer with air cylinder, meanwhile contacted with the female and male coupler in order.



- (1) Contact with regulator and air cylinder
- (2) Adjusting pressure regulating handle of the pressure reducer, rotate the 1-2 ring with counter-clockwise.
- (3) Contact with hose, pressure reducer, and quick coupler.
- (4) Contact hose and controller.
- (5) Contact hose and male coupler with valve.
- (6) Turn on the valve switch Contact female coupler of 0.5 metres hose with valve, and male coupler with air lifting bags.

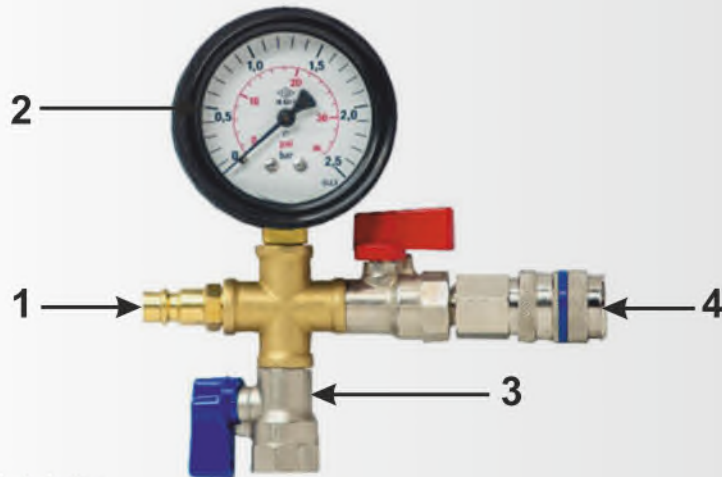
3. The air cushion is arranged in the working area, and the supported object should be in the center of the air cushion, and the interface between air cushion and ground & supported object should be cleaned and firm to prevent contact with sharp edges.
4. After the air cushion is placed in the working area, the switch valve of the gas bottle is opened slowly. The numerical value of the pressure gauge is representative of the pressure in the cylinder. Before opening to ensure that the pressure regulating handle of pressure controller is released.



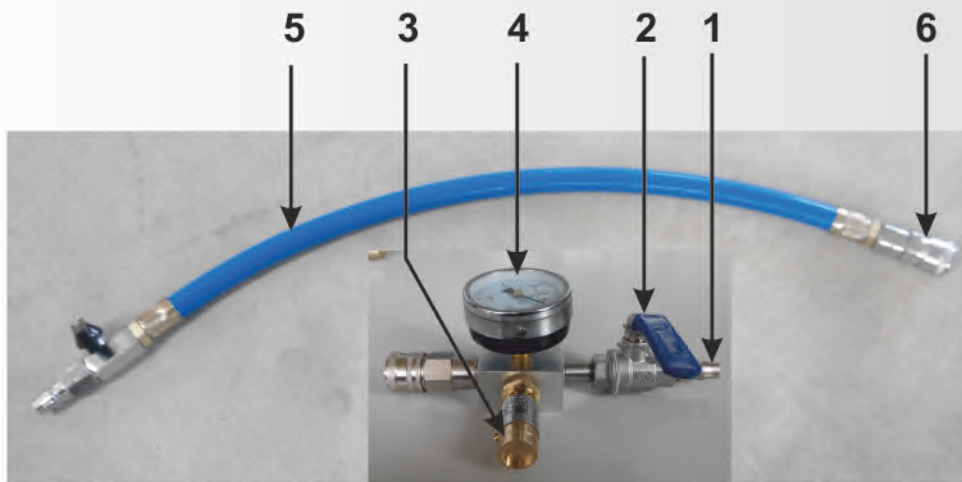
1. Pressure controller, shows the pressure of the air after decompression; the working pressure of the air cushion.
2. Air cylinder controller, Turn clockwise to open the bottle, turn the cylinder counterclockwise to close the cylinder.
3. Pressure gauge, which shows the pressure in the cylinder.(20-30MPa)
4. The air in the cylinder is connected with the gas outlet pipe, and the air outlet is connected with the air outlet. The air outlet of cylinder which contact with hose is female coupler.
5. The pressure controller switch, please make sure this switch is released before open the cylinder. counterclockwise to release and reduce work pressure. clockwise to tighten and improve the working pressure. Adjust to work pressure is 8bar.

Please Note: The pressure has adjusted before ex-factory, please don't adjust the pressure adjusting nut arbitrarily.

- Control the lifting height by the control rod or the valve on the controller and the pressure gauge. Forbid to exceed the maximum working pressure, Stop lifting when achieve the required lifting height or maximum working pressure.



- The male coupler for air intake.
- Pressure gauge, which show the pressure in the air lifting bag.
- Relief valve, automatic pressure relief when pressure exceeds 8 bar, ensure the work pressure is not more than 8bar.
- Female coupler for air outlet.



- The male coupler for air intake to contact with hose.
- Shut off valve, to control the air lifting bag inflation and disconnection.
- Pressure relief valve, switch for left and right to control the pressure of the air cushion. Usually the pressure is 8bar.
- Pressure gauge, which show the working pressure in the airlifting bag.
- 0.5 metre hose, the working pressure is 8bar.
- The female coupler for air hose which contact air lifting bag.

6. When reach the max height or working pressure, both sides of the air cushion with the safety cushion block up, close the cylinder valve, open the pressure relief valve or the valve switch to relief pressure.
7. Take away air lifting bag from the working place, relief all of the air inside the air cushion, separate all of female coupler and male coupler, store every component separately.

IV. Notes

1. When operating the air cushion, personal protective equipment must be worn. Firefighters and rescue person should wear specified protective equipment such as the helmet, goggles, gloves and protective shoes.
2. The temperature range of the air cushion is -20 to +80, and it should not be more than one hour in circulation, so as to prevent the inner layer of the air cushion to shrink back and affect the service life.
3. Check whether the trachea rupture, air leakage, wind before work, when connect the air cushion and hose, it must ensure the smooth flow of the hose.
4. Check whether the controller button is flexible before working.
5. Check whether the working pressure is 8bar.
6. Careful inspection of the work area is likely to sharp objects to damage the rubber lifting air cushion, in the work process, rubber can not be exposed to any sharp or can destroy the air cushion.
7. When 2 air cushion is required for reach the required height, fill the bottom of the air cushion at first, and then filling the top of the air cushion. When relief pressure, the top one is first, and bottom one is the second.

V. Warranty

Aeroboom Corporation would resolve any quality faults in material or production that occurs from quality, if operated by the right operation. The warranty lasts for one year from the release date. During the warranty period, the company is responsible for repair or replacement of the tools or parts. Warranty does not cover tools or parts damages caused by operator misuse, carelessness or unauthorized charges of the machine structures.



WORLDWIDE HYDRAULIC SOLUTIONS

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