

OPERATING INSTRUCTIONS

Tyre/tube leak test tank
PNEUBAD-1



Tyre/tube leak test tank PNEUBAD-1

Serial number

Manufacturing date

MANUFACTURER

UNI-TROL Co. Ltd.

ul. Estrady 56, 01-932 Warsaw

phone./fax (+48 22) 834-90-13...14, (+48 22) 817-94-22

NIP 527-020-52-46

AUTHORIZED SERVICE CENTER

UNI-TROL Co. Ltd. - SERVICE

ul. Estrady 56, 01-932 Warsaw

phone./fax (+48 22) 834-90-13...14, (+48 22) 817-94-22 **[internal 131, 134]**

serwis@unitrol.pl

The manufacturer reserves the right to introduce changes to improve the operation of the device without the need to amend this manual.

DESCRIPTION

PNEUBAD-1 tank is used to test car and van tubeless tyres and tubes for leaks. The tube to be tested is immersed in water by means of a pneumatic cylinder, controlled with a lever valve, allowing to stop the piston in any position. Compressed air outlets to the atmosphere are provided with silencers. A light weight plastic tank, is simple-supported on a base(see Fig. 1) and may be easily removed and tilted for washing inside. In the tank bottom, there is a ball type drain valve. A hold-down is provided with a basket, facilitating immersion of the wheel in the tank and its removal, and also allowing to dry the wheel after removing it from the water.

TECHNICAL DATA

Wheel diameter range	up to 18"
Air supply pressure	6 to 10 bar
Tank inside diameter	980 mm
Total tank capacity	437 L
Water working volume	abt. 300 L
Recommended water level (from tank top edge)	
- working	200 mm
- max	110 mm
Tank draining time through drain valve	abt. 35 min
Overall dimensions	1265 x 1040 x 2300 mm
Tank dry weight	80 kg

DEVICE INSTALLATION

The test tank is supplied in disassembled condition. The tank should be erected at site as follows (see Fig. 1).

Slide cruciform base (1) between frame columns (2) and bolt with eight bolts (9).

Slide pneumatic cylinder (4) into hole in the horizontal frame member so, that the piston rod points downwards and the four studs of the cylinder fit into the respective holes. Next, install washers on studs and secure the cylinder with nuts (10). If, in operation the hold down rubs against tank wall, the positioning of the cylinder should be adjusted by means of shims on respective studs, between cylinder body and member top surface.

Connect pneumatic hoses to cylinder unions: the longer hose to the top union, the shorter hose to the bottom one. Secure top hose to stud with bands.

Fastening the hose to union:

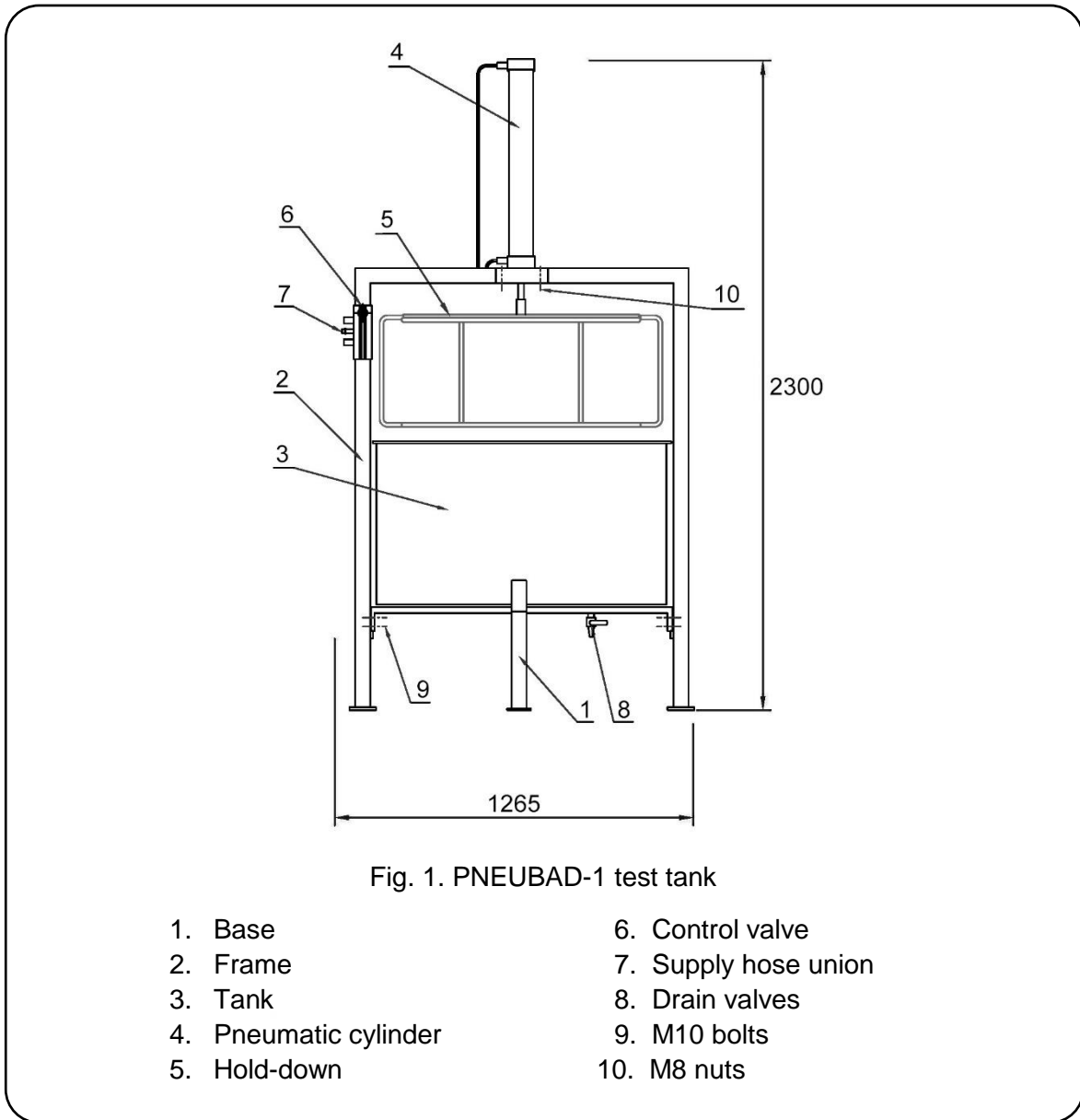
1. Undo union nut and thread it onto hose.
2. Push hose onto union.
3. Tighten nut securely.

Place tank (3) on the base so that drain valve (8) is away from base ports and is easily accessible.

ATTENTION

It will not be possible to adjust the positioning of the tank after it is filled with water.

Screw hold-down with basket (5) onto threaded piston rod end and lock it with a lock nut. Grease piston rod thread before this operation. The piston rod is milled to fit 17 mm spanner.



CONNECTING AIR SUPPLY

Fit hose from air supply system or compressor to union (7) and tighten clamp hoop.

ATTENTION

An air treatment unit must be installed on the compressed air supply line to the tank, consisting of a pressure reduction valve, filter/drier and air lubricator. The compressed air must pass through filter first and then through air lubricator. The length of air line between lubricator and tank must not exceed 10 m. Set the pressure reduction valve to 10 bar. Pressure reduction valve is not required if max compressor pressure is less than 10 bar.

Any valves, filters and lubricators, available in the market may be used. Their sizes should be selected to fit threads of user's compressed air system.

Cylinder control valve (6) has three working lever positions:

- horizontal, for stopping the piston in any position
- bottom, for piston downward movement
- top, for piston upward movement

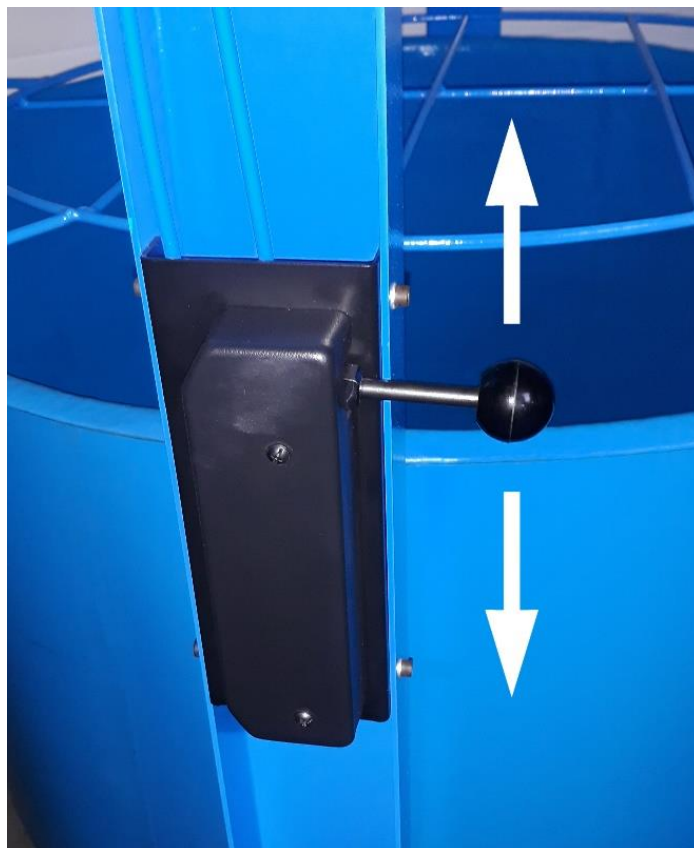


Fig. 2

If, with the control lever in bottom position, the piston moves upwards, the air supply hoses should be interchanged at control valve unions.

OPERATING THE TANK

1. Fill the tank with water to level specified in technical data.
2. Lift the piston by means of control valve.
3. Place tubeless wheel or tube on the basket bottom.
4. Lower the piston (it is recommended to stop the piston at the moment of immersion of the tube and to adjust its position so that it is aligned with the piston center line.
5. During leak test, the hold-down may be rotated in the horizontal plane.
6. Lift the hold-down and allow the wheel to drip dry.

OPERATING GUIDELINES

After removing the air supply hose from union (7), the piston will gradually descend under the weight of the hold-down. If a longer standstill is planned, it is recommended to secure the hold-down against dropping into water by e.g. tying it to the frame with a string, as close as possible to the pneumatic cylinder. The string should not be too strong to allow its breaking, should we forget to remove it before turning the cylinder on.

The tank is made of polyester/glass laminate. It should be protected against severe impacts. Preferably, the tank should be washed after it has been drained by means of valve (8) and removed from the base. For washing, use commercial cleaning agents.

WARRANTY

All possible repairs and adjustments should be carried out by the producer. Any repair of the device carried out by the user on his own during the guarantee period or breaking of the safety valve seal will result in guarantee loss.

UNI - TROL®

MANUFACTURING PLANT & STORE

<http://www.unitrol.com.pl>

UNI - TROL Co. Ltd.

ul . Estrady 56 , 01 - 932 Warsaw , Poland

tel.(+4822) 8179422 or 8349013 or 8349014 int. 117

fax(+4822) 8179422 or 8349013 or 8349014 int. 115

e-mail: office@unitrol.com.pl ; office@unitrol.pl

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EC Declaration of Conformity

in accordance with directive 2014/68/EU

We : **Uni-trol Co. Ltd.**
Ul. Estrady 56
01-932 Warsaw
Poland

declare, under our exclusive responsibility, that the product

LEAK-PROOF TESTER

Type : PNEUBAD -1

Serial number

and its pressure components to which this declaration applies have been designed and manufactured and checked in relation to the applicable essential requirements and relevant conformity assessment procedures of the directive:

- **directive 2014/68/EU** (pressure equipment).

The pressure components of the device: safety valve, has been assessed by their manufacturers in terms of the requirements of the above-mentioned directives and confirmed by declarations of conformity, which are also attachment to the product.

In order to verification of compliance with the applicable legal regulations have been consulted the harmonized standards and other normative documents:

PN-EN ISO 4414:2011E

Pneumatic fluid power - General rules and safety requirements for systems and their components

EN ISO 4126-1:2013

Safety devices for protection against excessive pressure — Part 1: Safety valves

PN-EN ISO 11201:2012P

Acoustics. Noise emitted by machinery and equipment. Determination of emission sound pressure levels at a work station and at other specified positions in an essentially free field over a reflecting plane with negligible environmental corrections

PN-EN ISO 11202:2012P

Acoustics -- Noise emitted by machinery and equipment -- Determination of emission sound pressure levels at a work station and at other specified positions applying approximate environmental corrections

PN-EN ISO 4871:2012P

Acoustics -- Declaration and verification of noise emission values of machinery and equipment

The technical documentation of this device, referred to in point 1 of Annex VII A of the Machinery Directive, is located in the headquarters Uni-trol Ltd. (address as above) and will be made available to the competent national authorities for at least 10 years after the last piece.

The person responsible for the preparation of the technical documentation of the product and introducing changes in it, is MSc. Gregory Tworek .

This EC Declaration of Conformity will be kept by the manufacturer of the product for 10 years from the date of produce the last unit and will available for market supervisory authorities for verification.

MSc. Gregory Tworek

Warsaw, 30.10.2019

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Signature