

HAFNER Pneumatika Kft.

H-9228 Halászi, Püski út 3.

Tel.: +36-96-210-601

E-mail: hafner@hafner-pneumatika.com

Web: www.hafner-pneumatika.com

**Instruction Manual for the Two-Hand Control Devices of the HAFNER Pneumatika Kft.**

Dear customer!

Congratulations to purchasing a pneumatic control valve made by HAFNER Pneumatika Kft. To ensure the function of the product as well as your own safety please read carefully the manual before starting the installation of the product. In case of any further questions, please do not hesitate to contact:

Phone: +36-96-573-012

E-Mail: ertekesites@hafner-pneumatika.com

Internet: <http://www.hafner-pneumatika.com>

You find the required environmental conditions as well as the Hafner liability-policy following the following link:

<http://www.hafner-pneumatika.com/dokumentumok/pdf/hafner-warranty-terms.pdf>)

Declaration of conformity is to be found under: <http://www.hafner-pneumatika.com/dokumentumok/pdf/hafner-manufacturers-declaration-of-conformity.pdf>)

In general

In case of not following the manual as well as usage or improper repair of the valve any liability or responsibility is neglected by Hafner Pneumatika Kft. This includes the liability of products as well as of accessory-items. Make sure to obey the hints given in this manual as well as the required environmental conditions published in sales literature as well as on the internet and on labels printed onto the products.

When selecting, installing or operating the product, please obey the general rules of technology. Make sure to avoid unintended activation as well as any kind of improper invasion.

Do not open / disconnect pressurized tubes or pipe-work.

The intended use of the valves is the control of pneumatic actuators with compressed air. The use of fluids or other (especially not neutral) gases is not part of the intended use of the product.

Please obey all national as well as international regulations and laws that might be applicable.

Installation

When opening the packaging and throughout installation please make sure that no dirt gets inside the valve.

Use only fittings that do not pollute the inside of the product.

Before as well as throughout installation make sure that the inside of the pipe-work is free of dust, dirt and pollution.

Any mounting position is allowed. Please make sure to have access for cleaning throughout operation of the product. Do not bend pipes sharply.

Before operating the product make sure that the entire machine / piece of equipment is in line with the regulations and directives. Installation is to be carried out by qualified personal only. Make sure to obey all relevant regulations.

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Make sure that you fix the product, with its boreholes on the bottom side. Please always take care of the proper stabilization of the device to avoid the malfunction, failure and accidents. Please also consider the adequately ergonomic work environment for the operator.

Please ensure that the product is connected correctly (IN and OUT ports). The two-hand control device cannot be connected any other way. When connected incorrect, it can lead to loss of function, resp. to permanent failure.

Operation

The pressure range of the relevant product is displayed in the technical specification of the valve:

<http://www.hafner-pneumatik.de/pneumatic-valves>

Attention! Over-pressurizing the valve can damage the valve.

Medium: filtered lubricated or filtered an unlubricated compressed air. Other media are not the intended use.

Purity classes of compressed air: The minimum requirement according to ISO 8573-1:2010 is [7:4:4] for particles:water:oil. In specific applications (e.g. low temperature) higher purity might be required.

In case of using lubricated air, you might want to make sure to capture and dispose appropriately. Make sure that the lubricator does not run dry. Temperature of the valve depends on environmental temperature, media-temperature and temperature of the solenoid. Generally, the valves are made for an environment as well as media of a temperature-range from -10°C to + 50°C.

If the valve is operated below 4°C the dew-point of the media needs to be 15°C less than the environment in order to avoid condensate. Air needs to be dried appropriately.

Environmental conditions: Standard industrial environment, consisting of "normal" atmosphere is required. Excessive pollution might have negative impact onto the product. Avoid heavily corrosive gases or liquids to get in contact with the product.

Avoid bending of as well as forceful impacts onto the product, avoid sharp bending of the pipes and electric wires.

Debugging:

In case of not-working (or not working correctly):

- Is the valve connected correctly? (See above the IN and OUT ports.)
- Does the inlet port (IN) get the necessary minimal pressure?
- Is the red-coloured emergency stop push-button not activated (pushed in)?
- Was the matching product picked for the given application? Does the given product type fulfil the expected requirements?

If there is non-allowed (internal or external) leakage experienced:

- Is it sure that the valve leaks? Does the system have at all connectors the necessary sealing? Is the actuator (for example the pneumatic cylinder) perfect?
- Is the correct pressure applied to the valve (Not too high / low?)
- Was the matching valve picked for the given application? Does the given valve type fulfil the expected requirements?

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**Maintenance:**

Check the appropriate function of the product on a regular basis. Switch the valve minimum one time per month in order to maintain function.

In case of a fault please check pneumatic and electric connection, voltage as well as operating pressure. Is the manual-override in 0-position? In case the fault is still there, disconnect pressure as well as electric energy and ask HAFNER Pneumatika for assistance.

Warnings

Opening and repair-work inside the valve is to be executed only by authorized personal and with appropriate tools. Disobeying this leads to a loss of any liability.

Valve, especially the solenoid can become very warm through operation. Do not touch, avoid injuries!

Only use the corresponding solenoid-systems that have been selected by the manufacturer. When using unapproved solenoid systems any liability of the manufacturer ends.

Hits of corroded or light metal can lead to sparks. Do not use tools with corroded surface, protect the product against falling objects.

Clean regularly: dust-layers on the product can be inflammable.

After use scrap the product in accordance to national regulations.

Halászi, 25. January 2024.

A handwritten signature in blue ink, appearing to read "Ujváry Gergely".

Ujváry Gergely

Managing Director

HAFNER Pneumatika Kft.