

**ATEX OPERATING INSTRUCTIONS AND DECLARATION OF CONFORMITY – NON-ELECTRICALLY OPERATED VALVES**

Dear Customer!

Thank you for choosing a Hafner valve. To assure the function and for your own safety please read the following operating instructions carefully, before installing the product. If there are any further questions, please do not hesitate to contact us:

Phone: +36-96-210-601  
E-Mail: ertekesites@hafner-pneumatika.com

**This document is valid for the non-electrically operated valves.**

These valves can be used – if they are marked appropriately (please refer below to the declaration of conformity) – in potentially explosive atmospheres. The zones and product categories the valves can be used in are defined and explained in the declaration of conformity part of this document. Use in other areas than mentioned below is not allowed.

The valves are divided in two categories (see below in the declaration of conformity part), the mark on the valve defines in which category it is usable.

**In General:**

Please notice that not following these instructions or any kind of inappropriate engagement lead to the end of any kind of warranty and liability from our side. Please notice the means of use described in these instructions and print-on on the product itself.

Application and operation of the device must ensue in accordance to general terms of technology.

Please undertake any means to avoid unintended actuation and inappropriate use.

Always take into consideration that pressurised fittings, tubes and systems are not to be opened.

Observe all national and international regulation of relevance.

The valves are designed for controlling pneumatic actuators with compressed air. The valves are not intended for the use with fluids or gases.

**Installation:**

When taking the product out of the packaging take care that no dirt or other particles are coming into the product.

Only use appropriate fittings that do not cause or lead to any dirt in the system. Only use clean fittings and tubing.

The valve can be installed in any desirable position.

Install the product in a way that regular cleaning is possible. Do not over-bend the air supplies.

Installation is allowed only through educated work-force and under consideration of the relevant operating instructions.

Avoid electrostatic charge of product and attached accessories including tubes and cables. Tubes and bundles of tubing must not have an outer diameter of not more than 20 mm. Connect conductive metal parts together for potential equation and ground the entire system.

During the installation of the equipment please comply with the concerned standards, for example: ISO/TR 11688 (noise-reduction), EN 626-1 (emission-reduction).

Close unused ports. Avoid potentially explosive atmosphere inside the valve, pipe exhaust out of explosion hazardous environment.

**Operation:**

Only use cleaned and lubricated or cleaned and unlubricated compressed air quality level ISO 8573-1 [7:4:4]. If using lubricated air in an explosive gas atmosphere, make sure that it is taken out of this atmosphere by appropriate means. Compressed air must not be drawn from an explosive atmosphere.

The temperature rise of the product is linked to the temperature of the used media.

The temperature of the compressed air must be between -10°C and +50°C. When using the valve below 4°C make sure to use dried air.

The environment where the valve is used has to be in a temperature range between -10° and +50°C, if used below 4°C only use dried air.

Please observe the temperature class printed on the product.

Avoid that the valve gets in contact with liquids or corrosive media.

The maximum operating pressure is 10 bar. Over-pressurising of the valve might lead to malfunction. For the minimum operating pressure, please refer to the technical datasheet.

Do not bend the product. Do not over-bend hoses. Do not step onto the product.

Check regularly if the valve operates perfectly, by switching the valve at least once in a month.

**Periodic maintenance:**

Check regularly if the valve operates perfectly, by switching the valve at least once in 6 months or in 500.000 switching cycles, and ensure the appropriate air clearness level. In case of inappropriate operation, please contact HAFNER Pneumatika Kft.

**Malfunctioning:**

Check the pneumatic connections, actuation and operating pressure.

If the problems are not solved by these means, make sure the pressure is taken off the system and dismantle the product from the pneumatic source. Address authorised and educated personnel.

**Warnings:**

Repair-work of any means inside the product is only to be made by authorised and educated personnel and with appropriate tools. Any warranty and liability of the manufacturer expires with unauthorised engagement.

Avoid injury! The product might be warm during of shortly after operation.

Impacts involving rusty or light metal and their alloys might cause sparks. Do not use tools with corroded surfaces and protect product from falling objects.

Dust on hot surfaces is highly inflammable, please clean regularly. The waste management of the product has to be performed strictly according to the current country's regulations.

	<b>Declaration of conformity Explosion-proof-directive</b>	Archive-No.: 066/04
---	--	---------------------

The company **HAFNER Pneumatika Kft.**  
H-9228 Halászi  
Püski út 3.

as the sole responsible part hereby declares that under the provision of directive 2014/34/EU of the European Parliament and the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to equipment and protective systems intended for use in potentially explosive atmospheres in its current form, that the above enlisted products as referred to in this declaration comply with the following standards and normative documents in their valid form:

ISO 80079-36:2016 Explosive atmospheres — Part 36: Non-electrical equipment for explosive atmospheres — Basic method and requirements  
ISO 80079-37:2016 Explosive atmospheres — Part 37: Non-electrical equipment for explosive atmospheres — Non-electrical type of protection constructional safety "c"  
The documents are stored as required by the directive 2014/34/EU article 13 (1) b) ii and c) at: IBExU, Institut für Sicherheitstechnik GmbH Freiberg (Sachsen).

The valves are marked, defining the zone they are to be used in. Other use is not allowed!  
The mark "h" on the non-electrical part of the equipment (valve) means that the protection is ensured through constructional safety: "c".

Allowed area	Mark on valve
Group II, Category 2, Gas (II 2 G): for Zones 1, 2  Group II, Category 2, Dust (II 2 D): for Zones 21, 22	  II 2 G Ex h IIC T6 Gb -10°C ≤ Ta ≤ +50°C    II 2 D Ex h IIIC T80°C Db -10°C ≤ Ta ≤ +50°C
Group II, Category 3, Gas (II 3 G): for Zone 2  Group II, Category 3, Dust (II 3 D): for Zone 22	  II 3 G Ex h IIC T6 Gb -10°C ≤ Ta ≤ +50°C    II 3 D Ex h IIIC T80°C Db -10°C ≤ Ta ≤ +50°C

Halászi, 01.10.2019



Gergely Ujváry  
General Manager