

ATEX OPERATING INSTRUCTIONS AND DECLARATION OF CONFORMITY – NON-ELECTRICAL 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: ertekeletes@hafner-pneumatika.com

This operating instruction is valid for the following valve-types:

Zones 1, 21, 2, 22:

P 310 502 Ex, P 310 501 Ex, P 310 701 Ex, P 310 801 Ex, P 310 101 Ex, P 310 121 Ex, P 320 502 Ex, P 320 501 Ex, P 320 701 Ex, P 320 801 Ex, P 320 101 Ex, P 320 121 Ex, P 510 502 Ex, P 510 501 Ex, P 510 701 Ex, P 510 801 Ex, P 510 101 Ex, P 510 121 Ex, P 520 502 Ex, P 520 501 Ex, P 520 701 Ex, P 520 801 Ex, P 520 101 Ex, P 520 121 Ex, P 531 502 Ex, P 531 501 Ex, P 531 701 Ex, P 531 801 Ex, P 531 101 Ex, P 531 121 Ex, P 532 502 Ex, P 532 501 Ex, P 532 701 Ex, P 532 801 Ex, P 532 101 Ex, P 532 121 Ex, P 533 502 Ex, P 533 701 Ex, P 533 801 Ex, P 533 101 Ex, P 533 121 Ex, PN 310 701 Ex, PN 310 121 Ex, PN 510 701 Ex, PN 510 121 Ex, PN 520 701 Ex, PN 520 121 Ex, PN 531 701 Ex, PN 531 121 Ex, BV 311 301 Ex, BV 511 301 Ex, BA 311 301 Ex, BA 511 301 Ex, MDS 311 701 G Ex, BHP 520 701 Ex.

Zones 2, 22:

P 411 701 SR Ex, HV 531 101, HV 531 121, HVRPL 520 701 NPT Ex, CBN 700 Ex, CBN 700 K EB Ex, BA 430 301 Ex.

Also valves of the stainless steel range are included (type VES).

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

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.

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.

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.

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

EN 13463-1:2009 Non-electrical equipment for use in potentially explosive atmospheres. – Part 1: Basic method and requirements

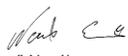
EN 13463-5:2011 Non-electrical equipment intended for use in potentially explosive atmospheres. – Part 5: Protection by constructional safety 'c'

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; use is possible only in the following zones!

Allowed area	Mark on valve
Group II, Category 2, Gas (II2G): for Zones 1, 2 Group II, Category 2, Dust (II2D): for Zones 21, 22	  II2G/D c T6 -10°C ≤ Ta ≤ 50°C
Group II, Category 3, Gas (II3G): for Zone 2 Group II, Category 3, Dust (II3D): for Zone 22	  II3G/D c T6 -10°C ≤ Ta ≤ 50°C

Halászi, 25.08.2016


Ernő Novák
General Manager