

OPERATING INSTRUCTIONS FOR MA16 AND MA30 SOLENOID SYSTEMS

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: ertekezes@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:

https://hafner-pneumatika.com/media/61/07/5d/1741698141/HAFNER_Pneumatika_Warranty_terms_EN.pdf

Declaration of conformity is to be found under:

https://hafner-pneumatika.com/media/4e/82/45/1741698560/HAFNER_Pneumatika_Declaration_of_conformity_EN.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.

Caution! Risk of injury! The solenoid's surface can get very hot during continuous operation.

Installation

When taking the device out of the packaging, make sure that no dirt enters the device.

The same applies to the connection lines or the valve casing which may not be soiled either.

Conduits and valves under pressure may not be loosened. Only assemble and install under in depressurized condition. Optional installation position permissible, solenoid coil at top preferred. The electrical connection is possible through the standardized port mounted on the magnet, and with the suitable connector. In case of cast-on cable the current can be directly attached to the cable-ends. To prevent short circuits or interruptions, the connection cables must be laid with a bend radius adapted to the cables implemented.

Before initial operation of the device, make sure that the overall equipment respectively the unit meets the requirements of the applicable EC directives (e.g. the EMC – Electromagnetic Compatibility – directive).

Please order spare parts completely by indicating the identification number provided on the units (imprint, gravure, type plate).

The electrical installation shall be carried out by a qualified electrician, under the supervision of the latter respectively, while considering additional relevant national directives (in Germany VDE 0100).

A fuse (max. 3x. rated connector current according to DIN 41571 or IEC 60127-2-1), or a motor overload trip and thermal quick release (set to rated connector current) must be installed as short-circuit protection upstream to each device. This fuse unit may be fitted in the appertaining supply device or must be installed separately upstream. The fuse rated voltage must be the same or greater than the given nominal voltage of the device. The breaking capacity of the fuse set must be equal to or greater than the maximum short circuit current to be expected at place of installation (customary 1500 A).

For magnets in direct current version applies a max. allowed waviness of 20%.

Operation

The detailed technical data (such as nominal voltage, power etc.) can be taken from the printing of the respective products.

Temperature of environmental and controlled medium: -10°C - +50°C in general.

The device may only be operated with pressured air and neutral gases, which neither corrode the system nor the sealing materials implemented. In case of standard pneumatic applications, the use of compressed air of at least ISO 8573-1:2010 [7:4:4] clearness class is necessary. In case of special applications, it might be necessary to use compressed air of stricter ISO class than that.

Labelling according to standards: ISO 8573-1:2010 [A:B:C:], where "A" is: clearness class according to particles, "B" is: clearness class according to content of moisture and water (in liquid condition) "C" is: clearness class according to oil content

Avoid having the exterior of the device coming into contact with aggressive, corrosive media. The devices can be of the fused types IP65 according to EN 60529. This is only valid when used with a suitable electrical connector. The operating pressure of the device depends on the respectively used coil system and may amount to a maximum of 10 bar (1000 kPa) in case of the 16 mm wide coil system, and 7 bar (700 kPa) in case of the 30 mm wide coil system. Do not burden the device by bending or torsion.

Failures

In case of failures check the cable connection, operating voltage and operating pressure. Check for exterior damage. Should the failure persist or exterior damage be detected, the device must be taken out of operation. Ensure that there is neither pressure nor electric voltage at the device. Defect devices may not be repaired. Please contact the manufacturer for spare parts giving the ID number printed on the part.

Halászi, 16. 04.2025



Gergely Ujváry

General Manager

HAFNER Pneumatika Kft.