

VE400AA SERIES CLASS "A" SOLENOID GAS VALVES

INSTRUCTION SHEET



APPLICATION

These series safety solenoid valves are used for control and regulation of gaseous fluids in gas power burners, atmospheric gas boilers, melting furnaces and other gas consuming appliances systems.

SPECIFICATIONS

Models

| | |
|---------|--------|
| VE408AA | (DN08) |
| VE410AA | (DN10) |
| VE415AA | (DN15) |
| VE420AA | (DN20) |

Pipe sizes

Inlet and outlet 1/4" up to and including 3/4" internal parallel pipe thread according to ISO 7-1

Torsion and bending stress

Pipe connections meet Group 2 according to EN161 requirements.

Ambient temperature range

-15 +60°C

Supply voltage (Rp 3/8" .. 3/4")

230 VAC, 50 Hz
110 VAC, 50 Hz

Supply voltage (Rp 1/4")

230 VRAC, 50 Hz
110 VRAC, 50 Hz

Electrical connections (Rp 3/8" .. 3/4")

Three pin "DIN plug" electrical connector according to ISO4400 (such as CO020012), not included.

Electrical connections (Rp 1/4")

Three pin "DIN plug" electrical connector according to ISO4400, with integrated rectifier COMP221. Plug is not included.

Coil insulation safety solenoid valves

Insulation material according to class F.

Enclosure

IP65

Operational voltage range

The safety solenoid valve will function satisfactory between 85% and 110% of the rated voltage.

Capacity in m^3/h at $dp=2.5$ mbar flow of air (15°C - 1013 mbar)

| | | |
|------|-----|---------|
| DN08 | 1 | m^3/h |
| DN10 | 3.8 | m^3/h |
| DN15 | 4 | m^3/h |
| DN20 | 8 | m^3/h |

Maximum operating pressure

Rp 1/4" type, 500 mbar.
Rp 3/8"...3/4" types, 200 mbar.

Opening time

Less than 1 second.

Closing time

Less than 1 second.

INSTALLATION

WARNING

- Take care that installer is a trained experienced service man.
- Turn off gas supply before starting installation
- Disconnect power supply to prevent electrical shock and/or equipment damage

Mounting position

The gas valve can be mounted plus or minus 90 degrees from the vertical.

Mounting location

The distance between the gas valve and the wall/ground, must be at least 30 cm.

Main gas connection

- Take care that dirt cannot enter the gas valve during handling.
- Ensure that gas flows in the same direction as the arrow on the housing of the gas valve
- Use a sound taper fitting with thread according to ISO 7-1 (BS 21, DIN2999) or a piece of new, properly reamed pipe, free from swarf.
- Do not thread or tighten the pipe fitting too far. Otherwise valve distortion and malfunction could result
- Apply a moderate amount of good quality thread compound to the pipe or fitting only leaving the two end threads bare. PTFE tape may be used as an alternative
- In order to tighten the pipe in the valve, do not use the actuator as a leafier but use a suitable wrench operating on the wrench bosses.

Use lead wire which can withstand 105°C ambient.

The electrical on/off operator is provided with a 3 pin DIN connector for electrical connections.

Follow the instructions supplied by the appliance manufacturer.

Set appliance in operation and observe several complete cycles to ensure that components function correctly.

Electrical connection

CAUTION

- Switch off the power supply before making electrical connections.
- Take care that wiring is in accordance with local regulations

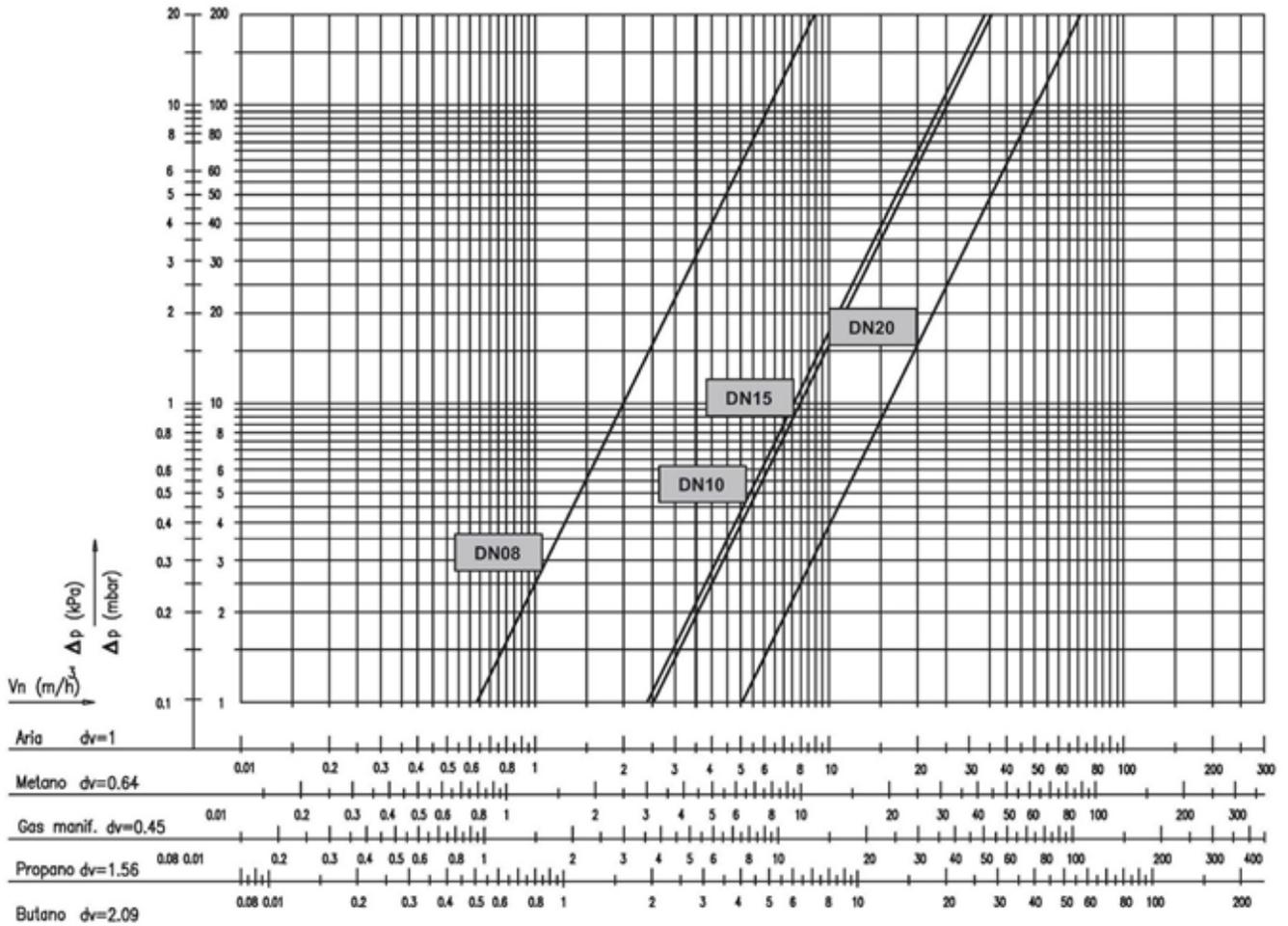
WARNING

Tightness test after installation

- Paint all pipe connections and gaskets with a strong soap and water solution.

Table Capacity in m³/h air at .p = 2,5 mbar (SG=1 a 1013 mbar, 15°C)

| 1/4"DN08 | 3/8"DN10 | 1/2"DN15 | 3/4"DN20 |
|----------|----------|----------|----------|
| 1 | 3.8 | 4 | 8 |



STANDARDS AND APPROVALS



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CE

EU – Declaration of Conformity

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| | | | |
|-------------------------------|-----------------------------------------------------------------------------------------------|---------------------------|----------------------------------|
| Branding | Honeywell | | |
| Product | Automatic shut-off valves | | |
| Type & Models | VE4xxAA xxxx | | |
| Product-ID-Number | CE-0063AU1052 | | |
| EU-Acts | 2009/142/EC | GAD | Till April 21 st 2018 |
| | 2016/426/EU | GAR | From April 21 st 2018 |
| | 2014/35/EU | LVD | |
| | 2014/30/EU | EMC | |
| | Immunity Emission conformity can only be verified in combination with the appliance | | |
| Standards | EN161:2013 | Automatic Shut off Valves | |
| EU-Type Examination | (EU) 2016/426 Annex III paragraph 1 Kiwa Nederland B.V., Notified Body 0063 | | |
| Surveillance Procedure | (EU) 2016/426 Annex III paragraph 3 Kiwa Nederland B.V. Notified Body 0063 | | |

In our capacity as manufacturer, we hereby declare:

Products labelled accordingly meet the requirements of the listed directives, regulations and standards. They correspond to the tested type samples. The production is subject to the stated surveillance procedure. This products comply with the substance restrictions of RoHS II, but they are not in the scope of the directive RoHS II (2011/65/EU). The corresponding operating/installation instructions can be downloaded from:

<https://products.ecc.emea.honeywell.com/europe/>

2018-02-07



Manager Standards and Approvals
J. Hepping

Honeywell Technologies Sàrl, Z.A. La Pièce, CH-1180 Rolle Switzerland