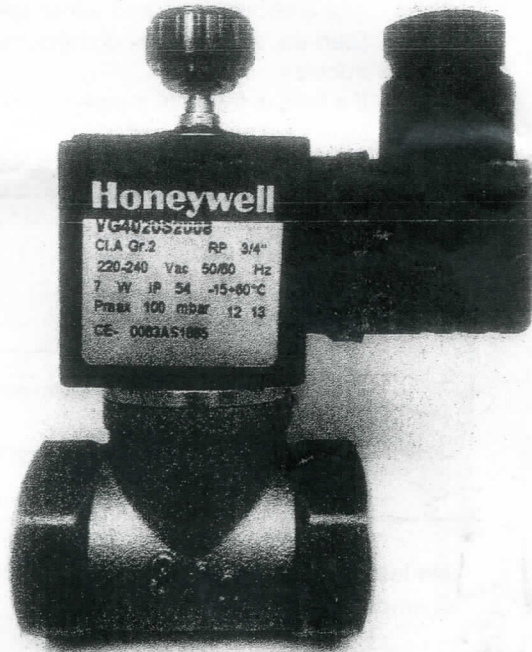


VG40xxS Serie

MANUAL SAFETY SOLENOID VALVE

INSTRUCTION SHEET



Honeywell

VG4020S2005
 Cl.A Gr.2 RP 3/4"
 220-240 Vac 50/60 Hz
 7 W IP 54 -15-60°C
 Pmax 100 mbar 12 13
 CE 0002AS1885

SPECIFICATIONS

Connection

with sizes 1/2", 3/4" and 1" use internal parallel pipe thread according ISO 7-1

Maximum inlet pressure

500 mBar

Ambient temperature range

Between: -10...60 °C

Supply voltage

24V, 50/60Hz
 220-240V, 50/60Hz

Electrical connection

Use DIN Plug: Honeywell CO020012 (not included)

Flow capacity

See capacity curves on page 4.

Torsion and bending stress

Pipe connections: group 2, according to EN13611.

Body material

Copper alloy die cast

APPLICATION

The VG40xxS series safety solenoid gas valves are used in gas leakage detection systems.

Models

VG4015S - (DN15)
 VG4020S - (DN20)
 VG4025S - (DN25)

Standards

The VG40xxS series safety solenoid gas valves have been designed to meet the European Standard EN 161.

Approvals

The VG40xxS series safety solenoid gas valves confirm with the following EC directives:
 Gas Appliance Directive (90/396/EEC)
 Low Voltage Directive(73/23/EEC)

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INSTALLATION AND FINAL CHECK OUT

Warning

- Take care that installer is a trained experienced serviceman.
- 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 30cm.

Main gas connection

- Take care that dirt cannot enter the gas valve during handling.
- Ensure the 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 ISO7-1 (BS21, DIN2999) or a piece of new, properly reamed pipe, free from swarf.
- Do not thread or tighten the pipe or 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 lever but use a suitable wrench operating on the wrench bosses.

Warning

Leak test after installation

- Paint all pipe connections and gaskets with a strong soap and water solution.
- Start the appliance and check for bubbles.
- If a leak is found in a pipe connection, remake the joint.
- Otherwise, replace the gas valve.

Electrical connection

Caution

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

Use lead wire which can withstand at least 105 °C ambient temperature.

The electric on/off operator is provided with a DIN face terminal block for electrical connections. Honeywell DIN Plug: CO020012

Wiring

Follow the instructions supplied by the appliance manufacturer.

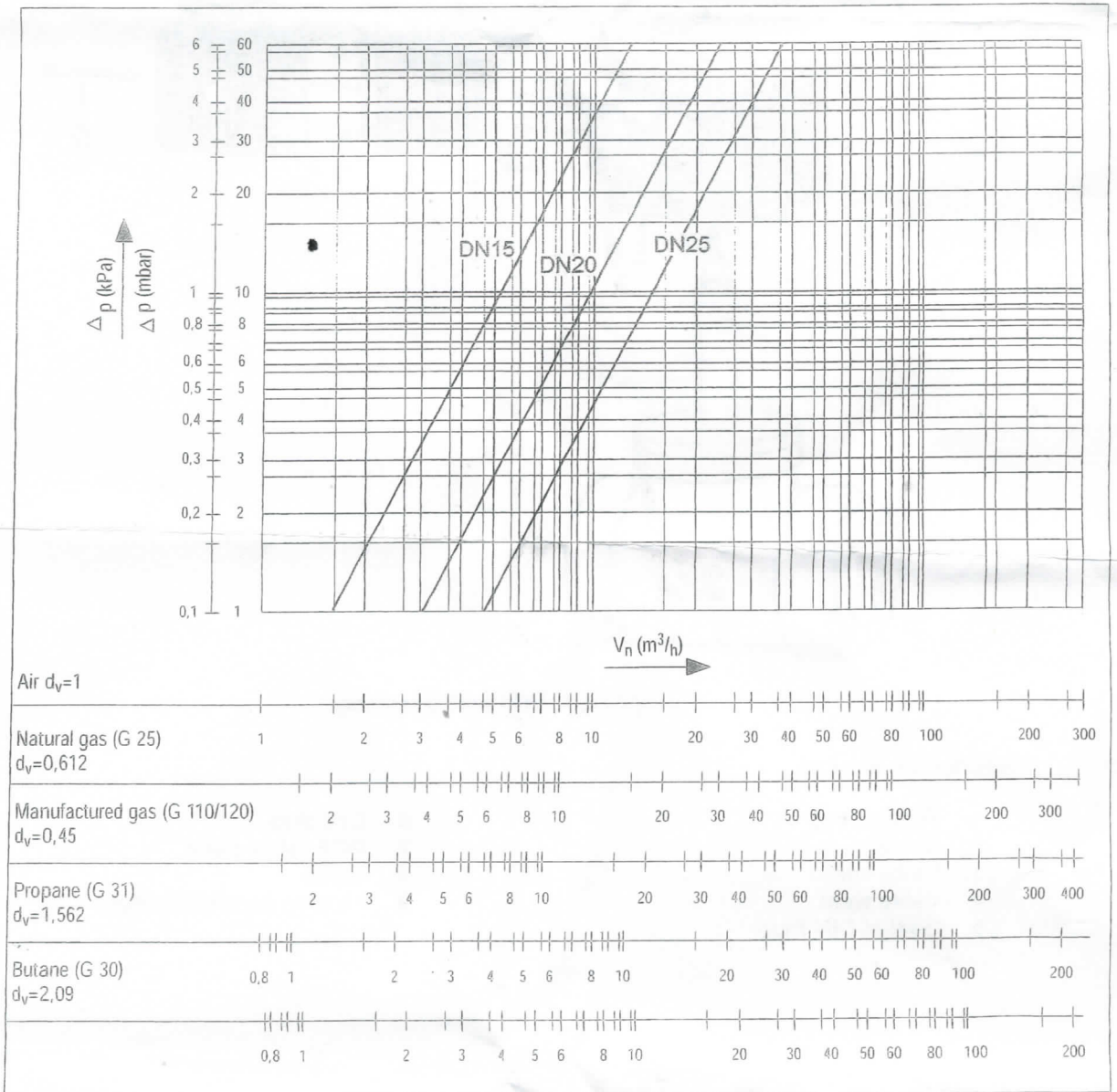
Final check out

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

CAPACITY CURVE DN15, DN 20 AND DN 25

Capacity in m³/h air at $\Delta p = 2,5$ mbar

1/2" DN 15	3/4" DN 20	1" DN 25
2,5	4,9	7,5



CONSTRUCTION DRAWING

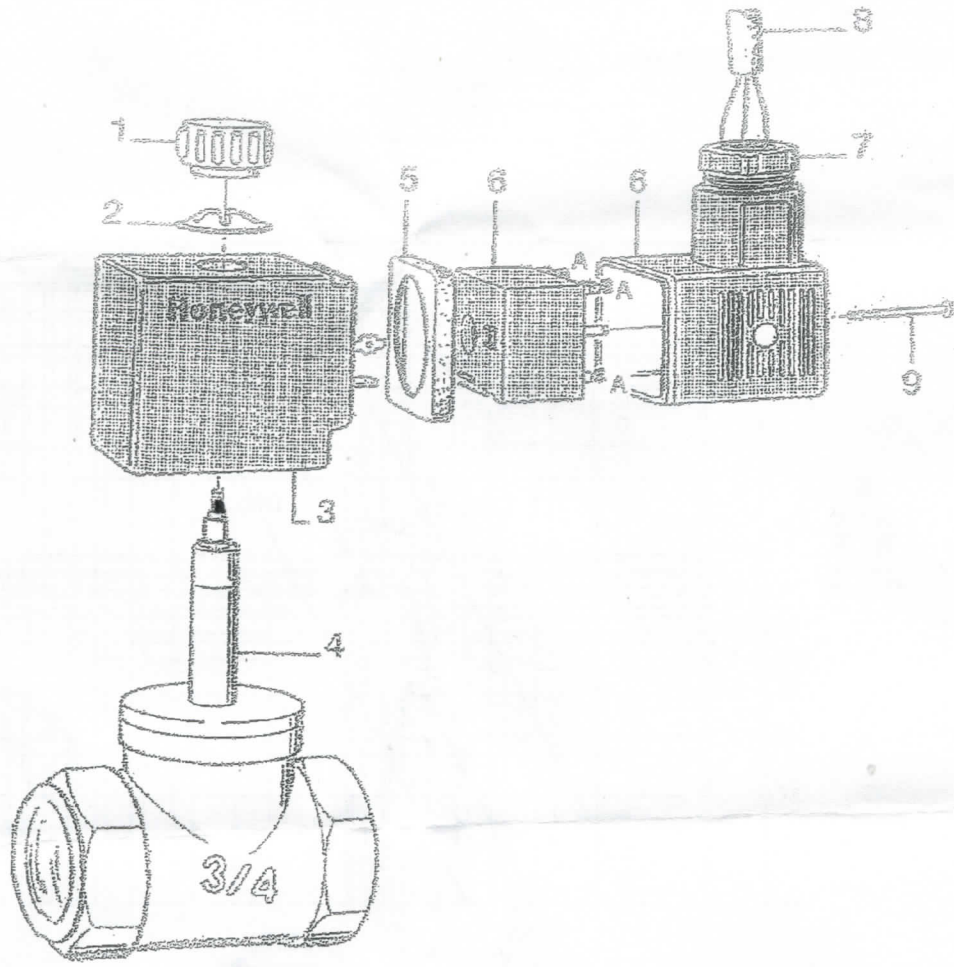


Fig.1. VG40xxS assembly

Description of parts

- | | |
|--------------------|----------------------------|
| 1. Fixation nut | 6. DIN plug |
| 2. Spring | 7. PG9 cable gland |
| 3. Valve coil | 8. Cable |
| 4. Valve stem | 9. Fixation screw DIN Plug |
| 5. Gasket DIN Plug | |