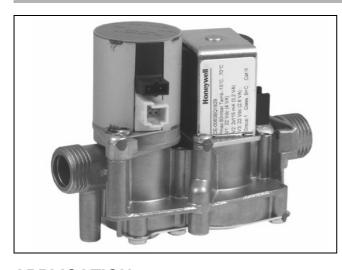
Honeywell

VK8515M(R)

MODULATING GAS CONTROL

INSTRUCTION SHEET



APPLICATION

The Gastep IV gas control has been developed for modulating gas fired appliances.

The application of the Gastep IV gas control requires specific control electronics in order to fulfil the safety requirements.

DESCRIPTION

The Gastep IV gas control comprises:

- an electrically operated on/off safety valve class B
- an electrically operated steppermotor based modulating main valve with integrated closing function class C.
- an optional integrated gas pressure regulator in accordance with class C requirement of EN 88.

The Gastep IV gas control meets the EN 161 and the EN 88 requirements.

SPECIFICATIONS

Model

VK8515M: modulating gas control without pressure regulator

VK8515MR: modulating gas control with pressure regulator

Dimensions

See fig. 1.

Ambient temperature

-15 ... 70°C

Main gas connection

Connections with G $^{1}/_{2}$ " external thread fitted with nuts according to ISO 228-1 in combination with applicable sealing(s) withstand the torsion and bending stress of EN 161 group 1

Capacity

Natural gas versions: 3,12 m³/h air minimum at 5

mbar pressure drop

LPG versions: 1,8 m³/h air minimum at 5

mbar pressure drop

Pressure regulation

For gas control versions with integrated pressure regulator, the regulation areas according EN88 are shown.

(fig 2 to 9 : see page 3, 4 and 5)

Operating pressure ranges

Natural gas: 15 ... 30 mbar LP gas: 25 ... 65 mbar

Maximum inlet pressure

65 mbar

Timing

opening time : < 2.6 seconds closing time : < 1 second

Valve classification

Safety valve: class B Main valve: class C

Electrical data

Safety valve operator

Opening voltage: 22 Vdc \pm 1.5 Vdc Hold voltage (regulated): 12 Vdc \pm 1.5 Vdc Power consumption: 4 W maximum Connection: 2.8 x 0.8 mm tabs

Main valve steppermotor

Supply current: 2x 115 mA
Power consumption: 4 W maximum

Connection: Molex C-grid III 90142-0006

Contacts 90119-0109

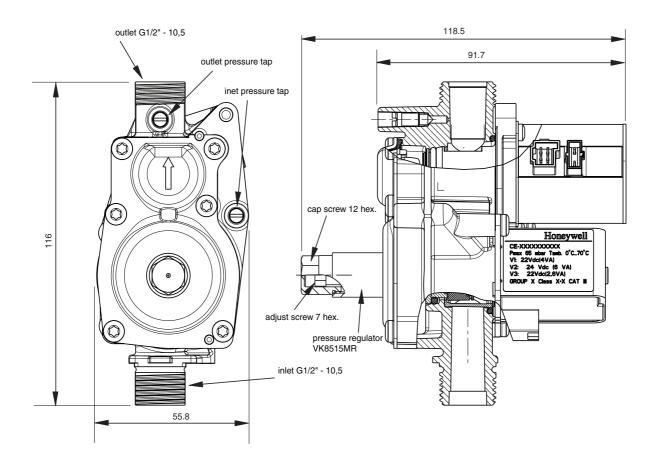
Main valve operator

Supply voltage: 22 Vdc ± 2 Vdc

Power consumption: 2.6 W

Connection: Molex C-grid III 90156-0143

Contacts 90119-0109



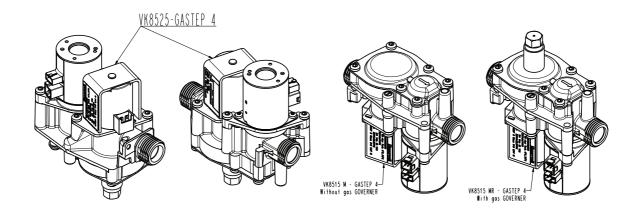


Fig. 1. Dimensional drawing

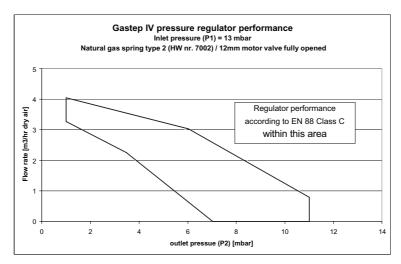


Fig. 2.

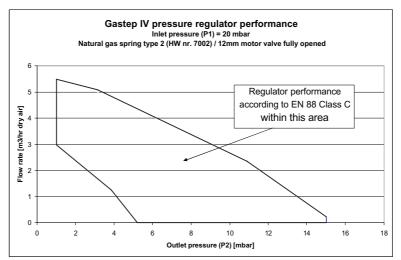


Fig. 3.

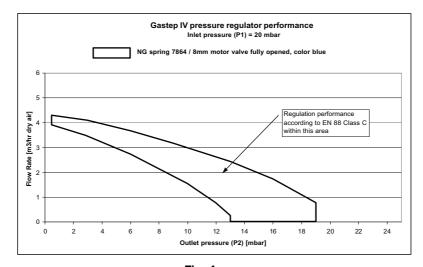


Fig. 4.

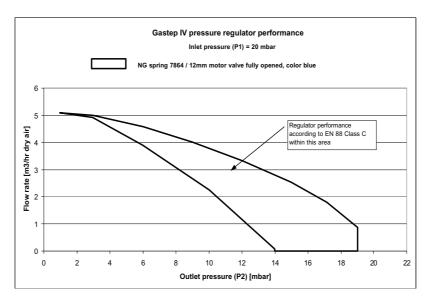


Fig. 5.

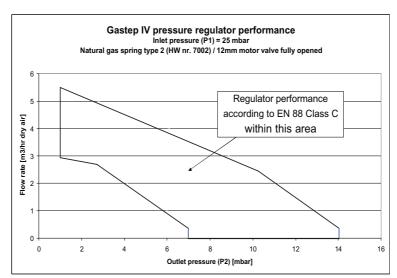


Fig. 6.

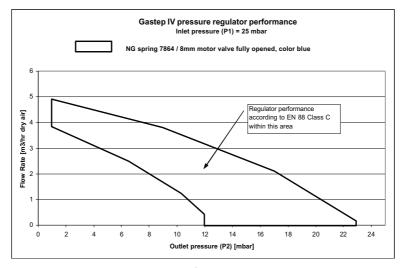


Fig. 7.

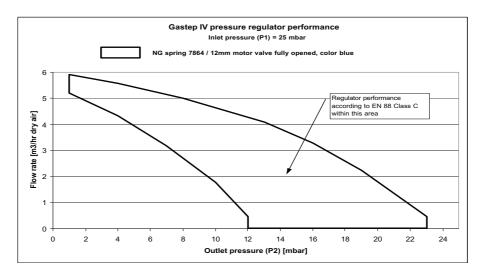


Fig. 8.

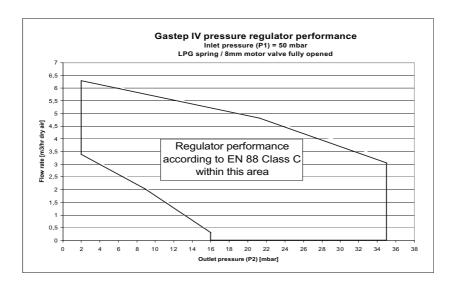


Fig. 9.

INSTALLATION

IMPORTANT

Take care that installer is a trained experienced service person.

Turn off gas supply before starting installation. Disconnect power supply to prevent electrical shock and/or equipment damage.

Take care that dirt cannot enter the gas control during handling.

Ensure the gas flows in the same direction as the arrow on the bottom of the gas control.

Mounting position

The gas control can be mounted 0 to 90 degrees in any direction from the upright position (from the position when the operators are on top).



Do not bend tubing at gas control after compression fitting has been tightened, as this may result in gas leakage at the connection.

Perform gas leak test



🗥 WARNING

FIRE OR EXPLOSION HAZARD CAN CAUSE PROPERTY DAMAGE, SEVERE INJURY OR **DEATH**

Check for gas leaks with a rich soap and water solution any time work is done on a gas control.

- Paint all pipe connections upstream of the gas control with a rich soap and water solution. Bubbles indicate a gas leak.
- If a gas leak is detected, tighten the pipe connection.
- Stand clear while lighting the main burner to prevent injury caused from hidden gas leaks, which could cause flasback in the appliance vestibule. Light the main burner.

- With the main burner in operation, paint all pipe joints (including adapters) and gas control inlet and outlet with a rich soap and water solution or an approved leak detection fluid.
- If another gas leak is detected, tighten adapter screws, joints and pipe connections.
- Replace the part if gas leak can not be stopped.



!∖ CAUTION

Keep soap and water solution away from electrical connections.

Electrical connections

IMPORTANT

Disconnect power supply to prevent electrical shock and/or equipment damage.

Wiring must be in accordance with local regulations. The appliance manufacturer's instructions should always be followed.

Before installing or replacing any control check that type number is correct for the application.

Ensure combustion chamber is free of gas before

Conduct a thorough check out when installation is completed.

ADJUSTMENTS AND FINAL **CHECKOUT**



WARNING

Follow the instructions as supplied by the appliance manufacturer.

Final checkout of the installation

Set appliance in operation after any adjustment and observe several complete cycles to ensure that all burner components function correctly.



Manufactered for and on behalf of the Environmental and Combustion Controls Division of Honeywell Sarl, Ecublens, Route du Bois 37, Switzerland by its Autorized Representative:

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