

GIV40/50B Series Class “A” Gas Valves



APPLICATION:

GIV40/50B series class A gas valves are used for control and regulation of gaseous fluids in gas power burners, atmospheric gas boilers, melting furnaces, incinerators and other gas consuming appliances.

Technical Data:

Supply voltage: 230Vac, 50/60 Hz, $\pm 10\%$;

Ambient temperature: -15°C - 60°C

Enclosure: IP54

Opening time: < 1 S

Closing time: < 1 S

Maximum working frequency: < 20 per minute

Number of cycles: > 100,000

CAUTION:

The coil and body of gas valve will be heated after long time using. To be carefully to contact the gas valve with your hand at adjustment or maintenance.

Installation:

- 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 threaded valves:

- 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 ISO 7--1(BS 21, DIN 2999) 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.

Tightness 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.

Electrical connection:

- Switch off power and gas supply before making electrical connections.
- Take care that wiring is in accordance with local regulations.
- Use lead wire which can withstand 105 °C ambient.
- The electric on/off operator is provided with a terminal block for electrical connections as in Fig.1.

Fig.1 Electronic connection of GIV40/50B

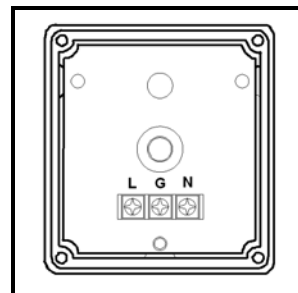
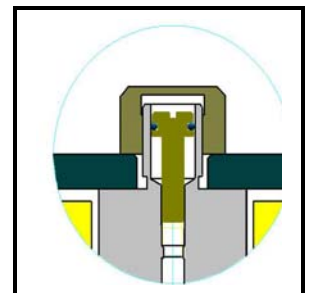


Fig. 2 Flow rate adjustment of GIV40/50B



Flow rate adjustment:

The flow rate of gas GIV40B220B and GIV50B220B can be adjusted as follow: (See Fig.2.)

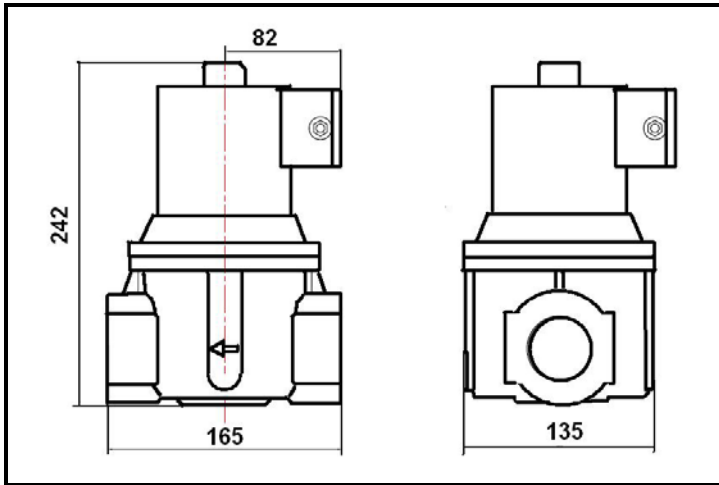
- Remove the cap screw from top of the coil.
- Place a socket head wrench into the adjustment nut.
- Turn wrench counter-clockwise to increase or clockwise to decrease flow rate.
- Replace cap screw

Ordering Information:

Model	Connection	VoltageVac	Size HxLxW	Flow rate adjustment	Opening pressure (mbar)	Flow rate Nm ³ /H
GIV40B220A	G1-1/2"	230	242x165x135	No	200	60
GIV40B220B	G1-1/2"	230	242x165x135	Yes	200	60
GIV50B220A	G2"	230	242x165x135	No	200	70
GIV50B220B	G2"	230	242x165x135	Yes	200	70

Flow rate: air, at $\Delta p = 2,5\text{mbar}$ and 20°C , $\pm 10\%$

Fig.3 Dimension of GIV40\50B:



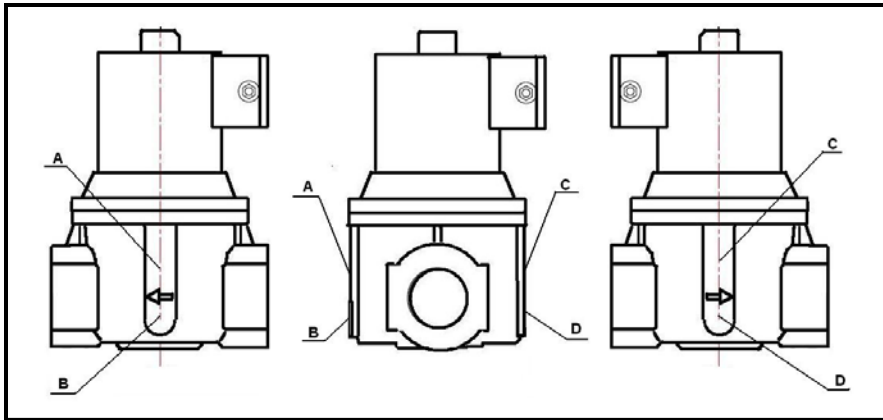
Positions of pressure switch on valves:

Four positions on the valve can be used to add gas pressure switch as in Fig.4. A&C are used for input pressure, B&D are output.

ATTENTION:

- The positions of A to D are according to the arrow on the body.

Fig.4 The position of pressure switch on GIV40\50B:



Spare parts:

	GIV 40/50B 220Vac
Coil	CV-405-220
PCB	BCV-4050-220
Top nut	TS-4050

Troubleshooting:

- If the valve can not work normally, please check it as follow:
 - Supply power should be: 230Vac, 50/60 Hz, $\pm 10\%$;
 - The input gas pressure is less than 200mbar;
 - Check the resistant of coil is $1180\ \Omega \pm 2\%$.
- If the gas is dirty, please add suitable fitter before the gas valve. Otherwise the valve can not open well with long time using.

Standards:

The VE series gas valves have been designed to meet the European Standard EN 161.
The safety shut off valve meets class A requirements.