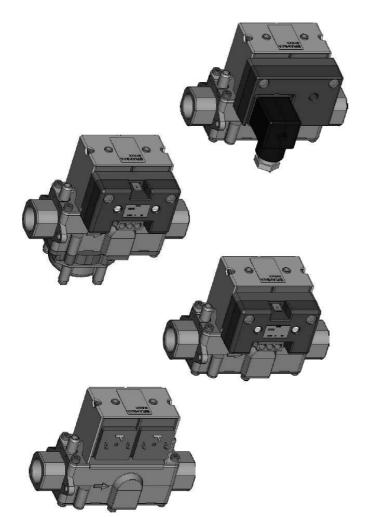
GVK15

Combined Valve Unit for Gas With G1/2" Connection for burners up to 70 kW





GENERAL DESCRIPTION

GVK15, suitable for working pressure up to 150mbar, consists in 2 electronic safety class A valves with G1/2" connections, normally closed, quick opening and with gas governor option.

The combined gas valve can work directly with continuous current (V_{DC}) or by means of a rectifying circuit with on board connection (Vrac).

GVK15 can have an in build gas governor class C, upstream of the second valve for

the setting and constant maintenance of outlet pressure. It is possible to have a flow regulator on the second valve.

FEATURES

- CE compliant (CE PIN N° in progress) according to the European Gas Appliance Directive 2009/142/EC;
- In compliance with EN 126:2012 (European standard for multifunctional controls for gas burning appliances)

- Pressure test points upstream and downstream.
- Inbuilt gas governor.
- Gas governor position: on the right or on the left.
- Pilot burner connection G1/4F available on the opposite side of the coil connection terminals.

TECHNICAL FEATURES

A+A Class: - Group: 2 - Nominal Diameter: **DN15**

1st, 2nd and 3rd family - Type of gas:

- Supply voltage: $12 V_{DC}$

> 24 V_{DC}; 24 Vac 110 V_{DC}; 110 Vac 230 V_{DC}; 230 Vac 78 mA (230 V_{DC})

- Max. consumption:

- Max. power: 70 kW (without gas governor) (with $\Delta P = 5 \text{ mbar}$) 35 kW (with gas governor)

- Min. adjustable power: ≥ 6 kW - Flow rate: 5 m³/h

> $(\Delta P = 2.5 \text{ mbar})$ (r.d. 0.5545 kg/dm³)

- Pressure range: 0 ÷ 150mbar - Operating temperature: - 10 °C ... + 60 °C

- Shut-off time: < 1 s

- Mounting position: horizontal and vertical not upside

down

- Connections: UNI ISO 228/1 G1/2

- Max. tightening torque: 50 Nm - IP rating: IP40 - Filter: inlet,

die casting aluminum

- Inner passage diameter: 15 mm

- Weight: 735g (without gas governor)

810g (with gas governor)

- Pressure test point: upstream and downstream

- Governor class: C.

- Outlet pressure range:

2 ÷ 4 mbar (1st gas family) 2 ÷ 18 mbar (2nd gas family) 5 ÷ 25 mbar (3rd gas family)

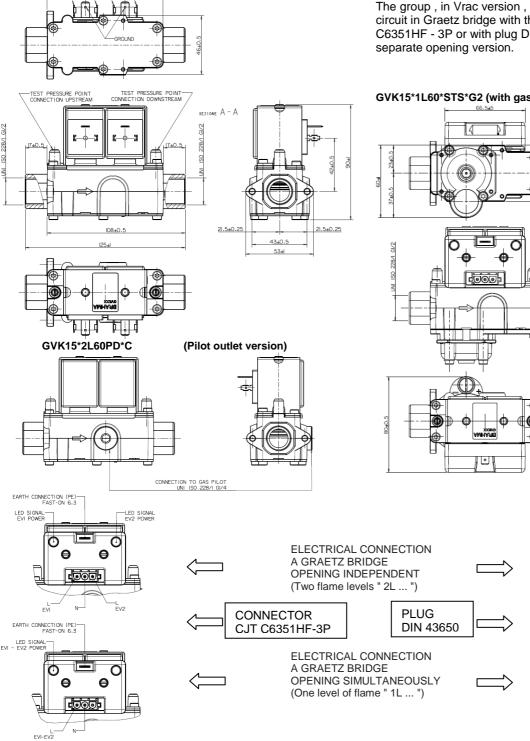
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INSTALLATION

- Respect the applicable national and European standards (e.g. EN 60335-1) regarding electrical safety.
- Make sure that no foreign bodies have entered the valve
- Assemble the valve to the installation in such a way the arrow on the valve body has the same direction as the fuel flow.
- When assembling the valve to the installation piping, avoid twisting on the sheath but always use a hexagonal wrench on the valve body.
- Make sure that the maximum fuel input pressure never exceeds the value appearing on the product label.

OVERALL DIMENSIONS

GVK15*1L60*D*C (without gas governor)



CONSTRUCTION

GVK15 is equipped with pressure test point upstream and/or downstream of the group and on request with an adjustable gas governor downstream the first solenoid valve VG1, in order to maintain constant the output pressure also with variations of the input pressure. The opening of both cores is quiet as muffled by an anti-noise ring.

In Vrac version a varistor built in rectifier circuit board protects the valve group from voltage spikes that can be generated into the power supply network, caused for example by discharges such as lightning. Warning flow adjustment is always made with powered valve.

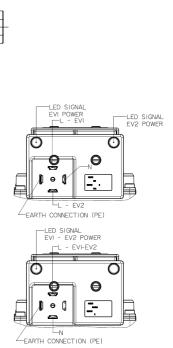
ACCESSORIES

GVK15 may be supplied with a gas governor.

It is also possible to have the predisposition for the fixing of a pipeline on the right or on the left in order to feed a pilot, positioned on the same side in which there is the regulator of the gas governor and on the opposite side of the coil connection

The group, in Vrac version, can be equipped with a rectifier circuit in Graetz bridge with three-way connector type CJT C6351HF - 3P or with plug DIN 43650 in the simultaneous or

GVK15*1L60*STS*G2 (with gas governor)

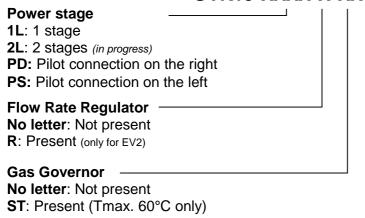


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FEATURES

Valve group denomination

GVK15*XXXX*X*XX *XX Y/Y



Gas governor

regulation or fast-on position

(in reference to flow direction)

D: Right S: Left

Supply frequency 50-60 for Vrac

Voltage 230 V 110 V 24 V 12 V

Type of electrical connection

No letter: Fast-on of the solenoid 1: Plug DIN 43650 on c.s with Graetz 2: CJT connector on c.s. with Graetz

Power supply

C: Power supply in Vdc G: Power supply in Vrac

Example:

GVK15*1L*STS*G1 230/50-60

Type GVK15: solenoid valve group Example:

Features: GVK15*1LPS*C 230Vdc Type GVK15: solenoid valve group

1L60: 1 power level

STS: Governor with setting on the left side of the valve Features:

1L: 1 power level

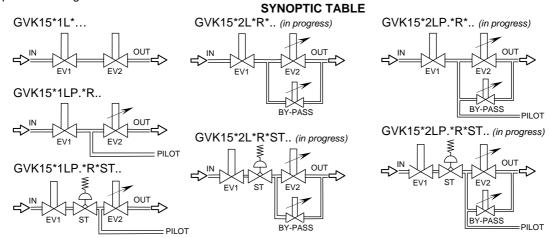
PS: Pilot connection outlet on the left G: Power supplied with rectified current (Vrac) 1: Plug DIN 43650 on c.s with Graetz C: Power supplied with direct current (Vdc)

230: Power supply voltage 230/50-60 230: Power supply voltage 230Vdc

NOTES:

In case of simultaneous presence of gas governor and pilot pipe, they have to be on the same valve side and on the opposite side of the coil connection terminals.

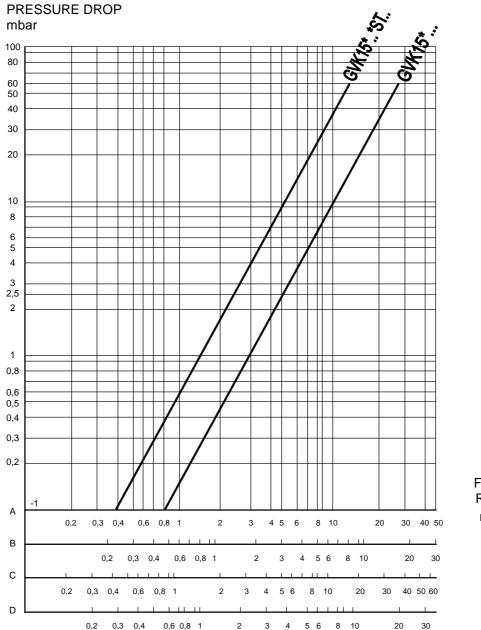
For G version the connection box has different wiring if mounted on the left side or on the right side. Pay attention and respect the wiring label.



EV1-EV2	EV1-EV2 ON-OFF QUICK OPENING SOLENOID VALVE	BY-PASS	ON-OFF QUICK OPENING BY- PASS WITH FLOW ADJUSTER
EV1-EV2	EV2 ON-OFF QUICK OPENING SOLENOID VALVE WITH FLOW ADJUSTER	W-Q-W	PRESSURE REGULATOR

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FLOW RATE DIAGRAM



FLOW RATE m³/h

- A: Standard flow rate m3/h of NATURAL GAS relative density 0.554
- B: Standard flow rate m3/h of LPG relative density 1.54
- C: Standard flow rate m3/h of TOWN GAS relative density 0.411
- D: Standard flow rate m3/h of AIR relative density 1



NOTES FOR PRODUCT DISPOSAL

The device contains electronic components and cannot therefore be disposed of as normal household waste. For the disposal procedure, please refer to the local rules in force for special waste.

ATTENTION → Company Brahma S.p.A. takes no responsibility for any damage resulting from Customer tampering with the device.

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