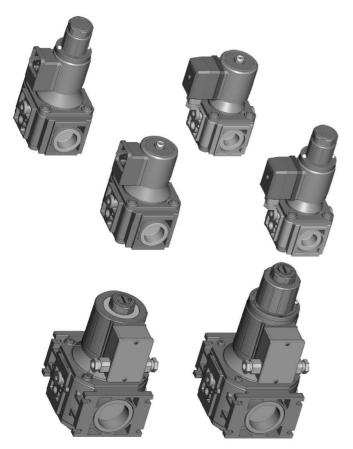


EGN25* .. EGN30* .. EGN40* .. SERIES

GAS SOLENOID VALVES WITH 3/4", 1" AND 1 1/2" CONNECTIONS AND OPERATING PRESSURE UP TO 500 mbar



GENERAL DESCRIPTION

This series of solenoid valves is of normally closed type, suitable for domestic and industrial applications, supplied in alternate or direct current and inclusive of an inbuilt rectifier circuit enabling to make actions as noiseless as possible; a metal mesh filter on the inlet prevents the entrance of foreign matters > 1 mm.

It is possible to have a fast opening or a slow opening valve (obtained by a special hydraulic shock-absorber), with flow adjustment and fast opening initial flow adjustment.

All versions can be connected by means of suitable fixing brackets, provided with by-pass solenoid valves and pressure test points upstream and downstream.

Gas valves of this series, conforming to EN161, have a CE type Certificate (CE Reg. N° 63AQ0626) in accordance to European Directives 90/396 and 93/68.

TECHNICAL FEATURES

Class:	Α
Group:	2
Supply voltage (1):	230 Vac / 50-60 Hz
	110 Vac / 50-60 Hz
Operating temperature:	-10℃ / +60℃
Closing time:	≤ 1s
Opening time:	≤ 1s (quick opening
	versions only)
Protection rating:	GMO IP54
-	GFD IP54
Mounting:	vertical and horizontal
Body:	die-cast aluminium
Core hitch:	PG9

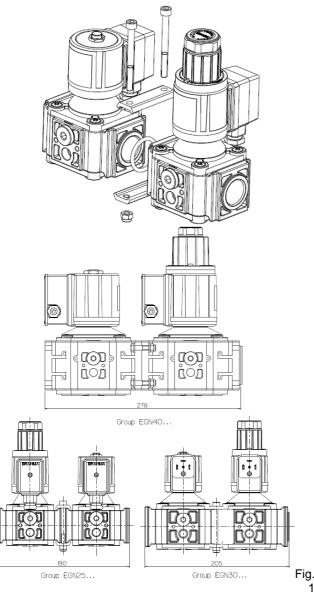
(1) Versions with different supply voltage are available.

INSTALLATION

- Respect the applicable national and European standards (e.g. EN 60335-1) regarding electrical safety.
- Assemble the valve to the installation so that the arrow on the valve body has the same direction as the fuel flow.
- During the assembly of the valve to the installation piping, avoid twisting on the sheath and always use an hexagonal key to be fitted to the valve body.
- Make sure that no foreign matters have entered the valve body.
- Make sure that the max. fuel input pressure never exceeds the value appearing on the label.

SOLENOID VALVE CONNECTIONS

It is possible to connect two valves by two fixing brackets and an O-ring to ensure the sealing. The whole system is blocked by two screws, as shown in Fig. 1. This method allows to avoid the expensive use of threaded junctions.



DIRECTIONS FOR EGN25*L... EGN30*L... AND EGN40*L... VALVE ADJUSTMENT

Flow adjustment

To adjust the gas flow, remove one of the two screws used to fasten the lag group (the non-enamelled one, marked with 4 in Fig. 2) and rotate the whole group clockwise to reduce the flow or in the opposite direction to increase it.

Opening time adjustment

After removing the top protection, by rotating it counterclockwise, act on the adjustment screw marked with 1 in Fig. 2; by rotating it clockwise the opening time becomes longer, by rotating it in the opposite direction the opening time becomes shorter.

Quick release initial flow adjustment

After removing the top protection by rotating it counterclockwise, if you rotate the nut marked with 2 in Fig. 2 clockwise, the initial release will be reduced; if you rotate the same nut counter-clockwise, the initial release will be increased.

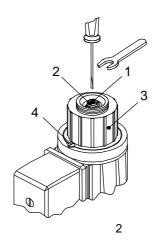


Fig.

DIRECTIONS FOR EGN25*SR... EGN30*SR... AND EGN40*SR... VALVE ADJUSTMENT

Flow adjustment

After removing the top protection by rotating it counterclockwise, rotate the screw marked with 1 in Fig. 3 clockwise to reduce the flow, rotate it in the opposite direction to increase the same.

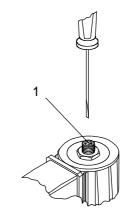


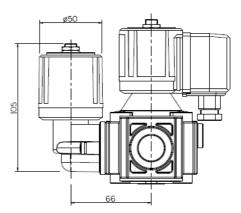
Fig. 3

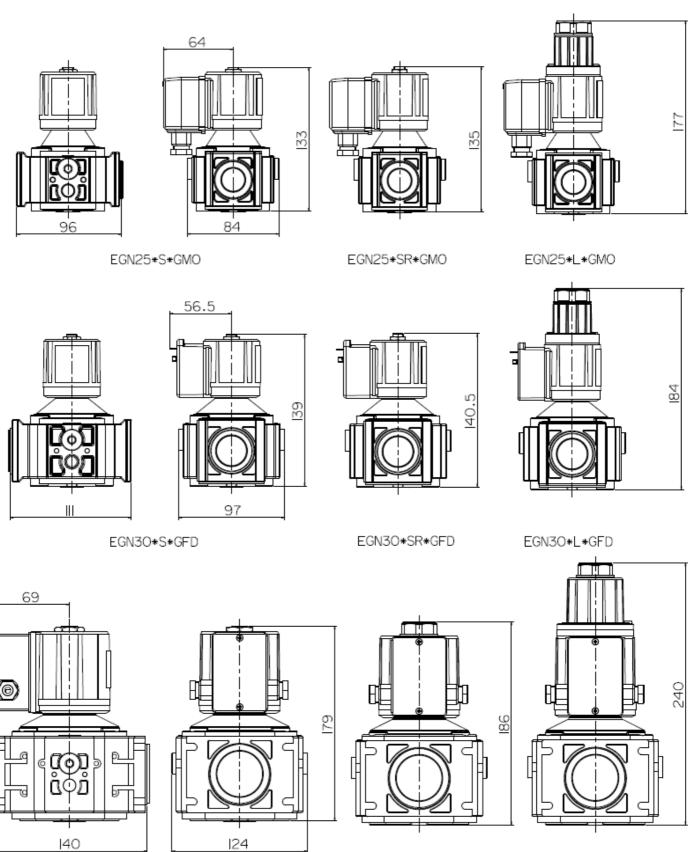
SOLENOID VALVES WITH BY-PASS

All versions of EGN25*... EGN30*... and EGN40*... valves can be equipped with a by-pass valve (with orifice diameter 11 mm) directly fitted on the body. In this way the installation of a separated by-pass valve is avoided.

Both to the main valve and to the by-pass valve, flow is given from the same inlet gas pipe, even if they have different electrical controls.

The by-pass valve can be provided with fast or slow opening and can be with or without flow adjuster, but it is anyway inclusive of an inside rectifier circuit enabling to use suitable attenuators to make its actions as noiseless as possible.





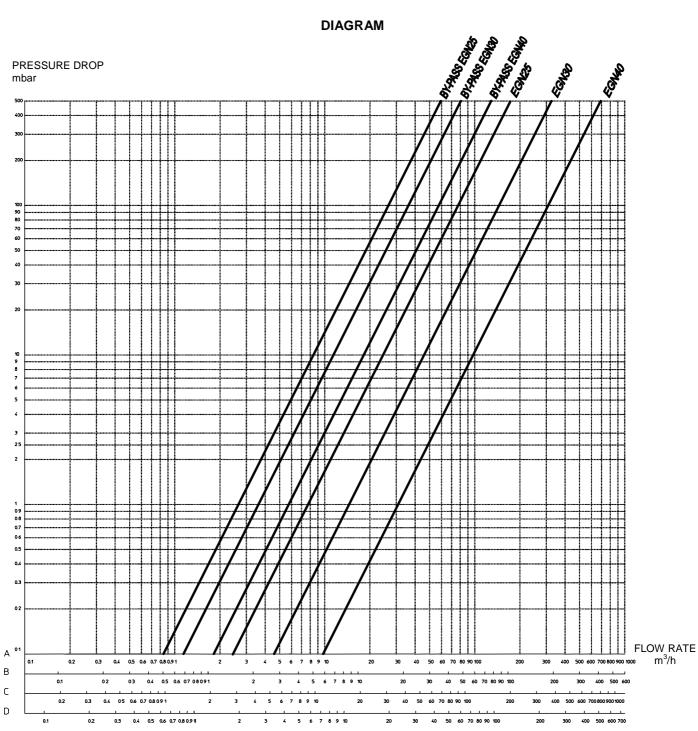
EGN40*S*GMO

EGN40*SR*GMO

EGN40*L*GMO

Note: "GFD" and "GMO" connections do not affect the gas valve overall dimensions, which remain the same.

DIAGRAM



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

	T	YPE R	REFER	RENC	ES						
<u>EGN30</u> * <u>S</u> <u>R</u> <u>P</u> *	<u>S R S</u>	<u>S 15</u>	<u>5* G</u>	FD	8	Ρ	D	230	/50-60		
					Ī	Ι	Ι		— Supply v	oltage	
Туре									Type	Description	
Type Description									110/50-		
EGN25 G3/4" inlet-outlet Ø25									230/50-		
Orifice.									— Gas pres	Gas pressure switch position	
EGN30 orifice.									Туре	Description	
EGN40 G1 1/2" inlet-outlet Ø40									D	Right	
orifice.									S	Left	
Opening type (fast/slow)									— Gas pres	sure switch type	
Type Description									Туре	Description	
S Fast opening valve.									Р	Fixed setting	
Slow opening valve (this									PR	Adjustable setting	
L version is inclusive of flow adjuster).									- Pressure	test point position	
									Type	Description	
Flow adjustment									5	Downstream left	
Valve fitted with equipment for flow									6	Downstream right	
adjustment.									7	Upstream left	
									8	Upstream right	
Pressure test point									 Connecti 	on type	
Valve inclusive of pressure test									Туре	Description	
point with G1/4" connections.									FD	Connection with fast-on DIN	
										Connection with terminal	
Valve fitted with BY-PASS									MO	board. (EGN25-EGN40	
By-pass valve supply voltage and connections										version only)	
are the same as the main gas valve; therefore both "GMO" or both "GFD".									— Winding	type	
BOUT GIND OF BOUT GFD .									Туре	Descrizione	
									С	Supply in direct current.	
By-pass type										Supply in alternate current, but	
										valve operates in direct current	
Type Description									G	thanks to an inbuilt rectifier circuit.	
S Fast opening.										("MO" and "FD" connection	
SR Fast opening with flow adjustment.										versions only)	
Slow opening with flow									By pace	madal	
L adjustment.									- By-pass	Description	
									Type	Standard by-pass	
									15	By-pass using EG15 valve (EGN30 version only)	
									25	By-pass using EGN25 valve (EGN40 version only)	
										, , , , , , , , , , , , , , , , , , ,	
	I								- By-pass		
									Туре	Description	

Туре	Operating pressure (mbar)	Orifice diameter (mm)	Connection	Coil	Consumption (W) 230Vac	Consumption (W) 110Vac	Flow (m³/h gas with ∆P2.5mbar)
EGN25*S	0 ÷ 500	25	G3/4"	BE10*G	20VA	18VA	13
EGN25*SR	0 ÷ 500	25	G3/4"	BE10*G	20VA	18VA	13
EGN25*L	0 ÷ 500	25	G3/4"	BE10*G	20VA	18VA	13
EGN30*S	0 ÷ 500	30	G1"	BE10*G	20VA	18VA	23
EGN30*SR	0 ÷ 500	30	G1"	BE10*G	20VA	18VA	23
EGN30*L	0 ÷ 500	30	G1"	BE10*G	20VA	18VA	23
EGN40*S	0 ÷ 500	40	G1 1/2"	BE8*G	48W	48W	50
EGN40*SR	0 ÷ 500	40	G1 1/2"	BE8*G	48W	48W	50
EGN40*L	0 ÷ 500	40	G1 1/2"	BE8*G	48W	48W	50

(1) In the versions equipped with by-pass valve type "L" the standard operating pressure range is 0÷250 mbar

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

BRAHMA S.p.A.

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Right

Left

Туре D

S