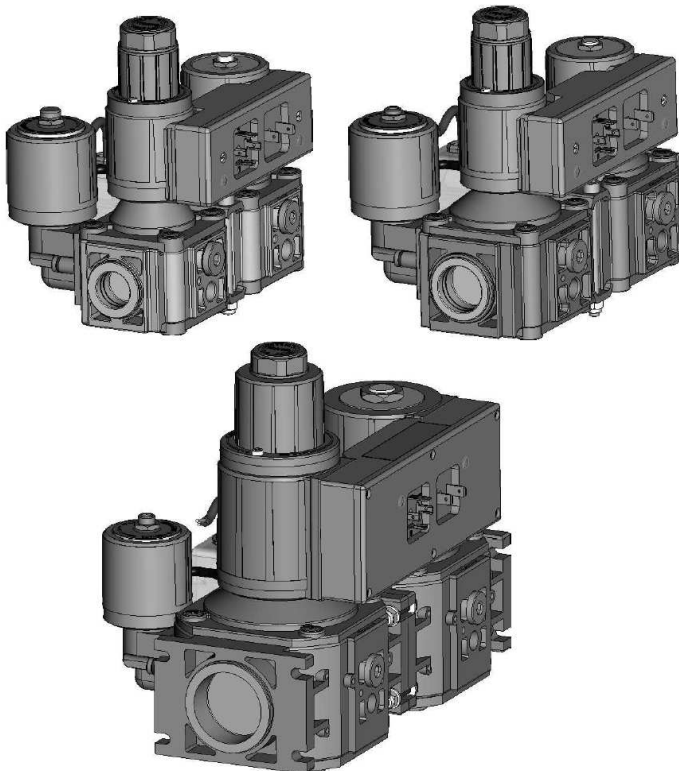


**GVN/GVCN25...  
GVN/GVCN30...  
GVN/GVCN40...  
SERIES**

**COMBINED VALVE UNITS FOR GAS WITH  
3/4" 1" 1-1/2" CONNECTIONS AND  
DIFFERENT OPERATING PRESSURE**



**GENERAL DESCRIPTION**

This series of combined valve units usually consists of a quick opening valve and a slow opening valve, which are mechanically connected by an O-Ring and a suitable fixing bracket. These devices can be fitted with a by-pass valve and/or a gas pressure switch with fixed or adjustable setting, and with an inlet pressure regulator to adjust the gas pressure and keep it constant. The electrical connections between the components of the system are carried out by means of a printed circuit board placed in a plastic casing. The valve system is electrically connected to the control unit by means of a four-pin MPM plug enabling a very easy wiring in any applications.

The presence of supply voltage is signalled by a LED indicator useful during installation and maintenance operations.

For information about the features of each solenoid valve used in these combined valve units, please refer to the corresponding technical leaflets (EGN25, EGN30 and EGN40 series of quick, slow or by-pass valves).

**TECHNICAL FEATURES**

- Class:	A
- Group:	2
- Supply voltage (1):	230 Vac / 50-60 Hz 110 Vac / 50-60 Hz
- Operating temperature range:	-10°C / +60°C
- Closing time:	≤1s
- Opening time:	≤1s (for quick opening versions only)
- Protection rating:	IP40
- Mounting position:	horizontal and vertical (not upside-down)
- Valve bodies:	die-cast aluminium

(1) Versions with different supply voltage are available.

**INSTALLATION**

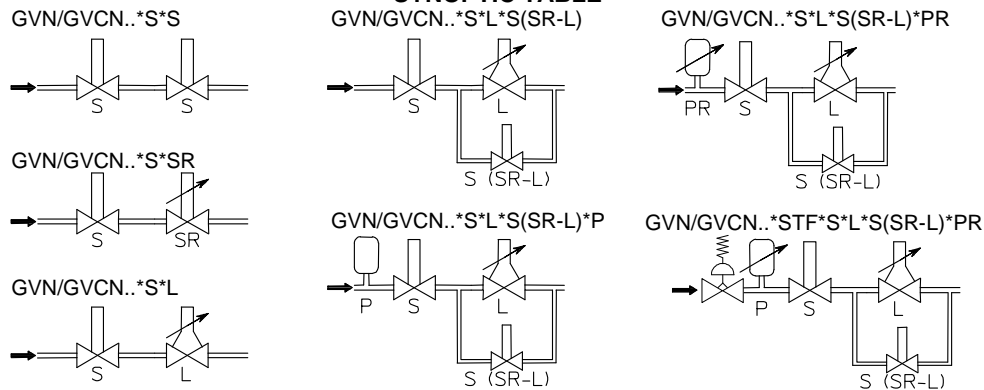
- Respect the applicable national and European standards (e.g. EN60335-1) regarding electrical safety.
- Assemble the valve to the installation in such a way that the arrow on the valve body has the same direction as the fuel flow.
- When assembling the valve to the installation piping, avoid twisting on the sheath but always use a hexagonal key on 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 product label.

**TABLE OF THE CONNECTIONS**

Module combination	Module position according to the type								
GVN/GVCN..*S*S		1 - 2							
GVN/GVCN..*S*SR		1	2						
GVN/GVCN..*S*L		1		2					
GVN/GVCN..*S*L*S(SR-L)		1		2	5 - 6	5 - 6	5 - 6		
GVN/GVCN..*S*L*S(SR-L)*P		1		2	5 - 6	5 - 6	5 - 6	3 - 4	
GVN/GVCN..*S*L*S(SR-L)*PR		1		2	5 - 6	5 - 6	5 - 6		3 - 4
GVN/GVCN..STF*..	7								

**SYNOPTIC TABLE**



N.B.: The versions appearing in the Table of the connections and in the Synoptic table are available for any type of GVN/GVCN25, GVN/GVCN30 and GVN/GVCN40 and for any operating pressure.

**MODULES**

	ON-OFF QUICK OPENING SOLENOID VALVE		ON-OFF QUICK OPENING BY-PASS WITH FLOW ADJUSTER
	ON-OFF QUICK OPENING SOLENOID VALVE WITH FLOW ADJUSTER		ON-OFF SLOW OPENING BY-PASS WITH FLOW ADJUSTER
	ON-OFF SLOW OPENING SOLENOID VALVE WITH FLOW ADJUSTER		GAS PRESSURE SWITCH
	ON-OFF QUICK OPENING BY-PASS		ADJUSTABLE GAS PRESSURE SWITCH
	PRESSURE REGULATOR		

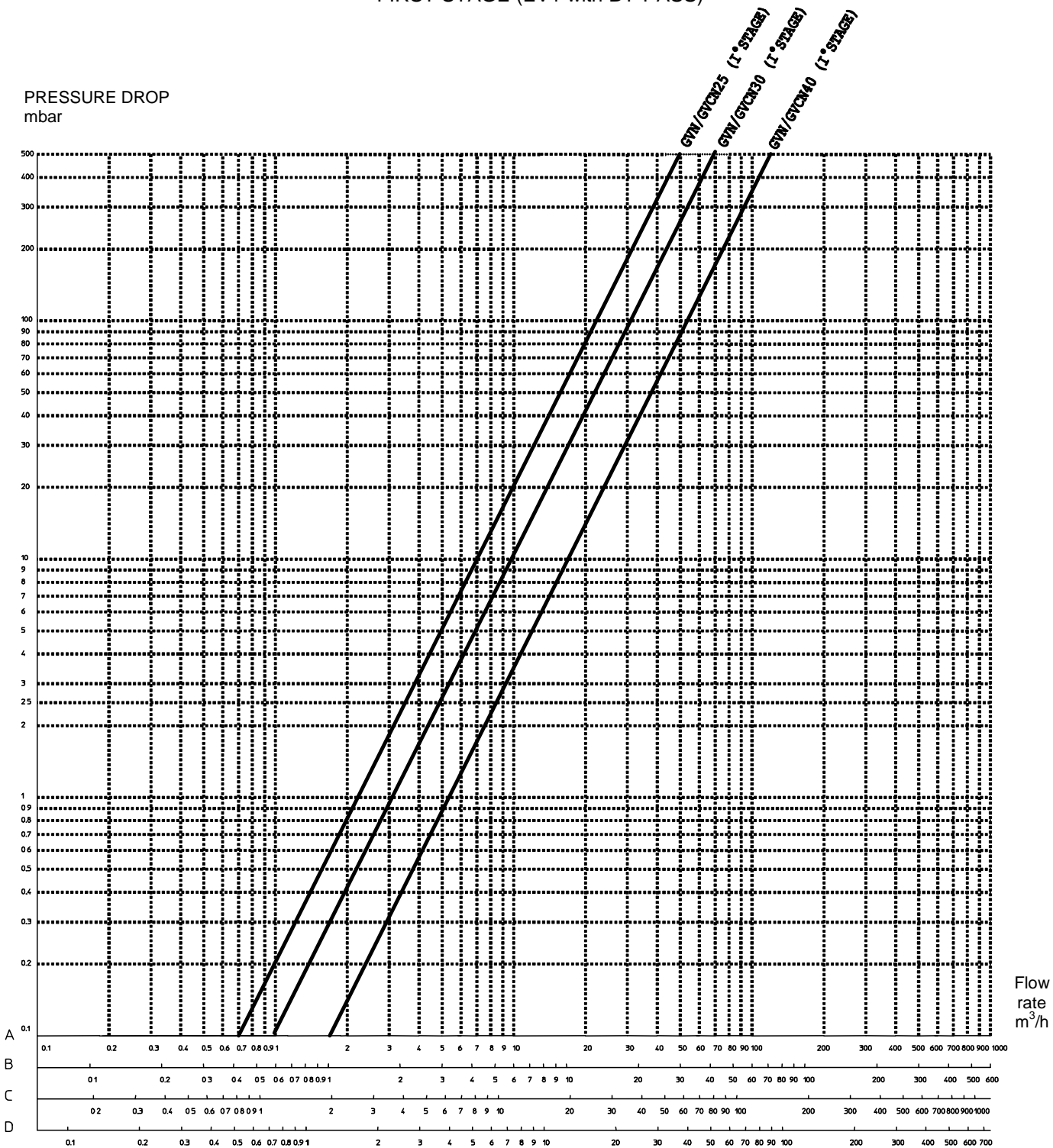
**SUMMARY TABLE**

Type	Operating pressure (mbar)	Orifice diameter (mm)	Connection	Consumption (for each valve) 230Vac	Consumption (for each valve) 110Vac
GVN/GVCN25*.. 0 ÷ 500	25	G3/4"	20VA	18VA	18VA
GVN/GVCN30*.. 0 ÷ 500	30	G1"	25VA	25VA	25VA
GVN/GVCN40*.. 0 ÷ 500	40	G1 1/2"	48W	48W	48W



# DIAGRAM

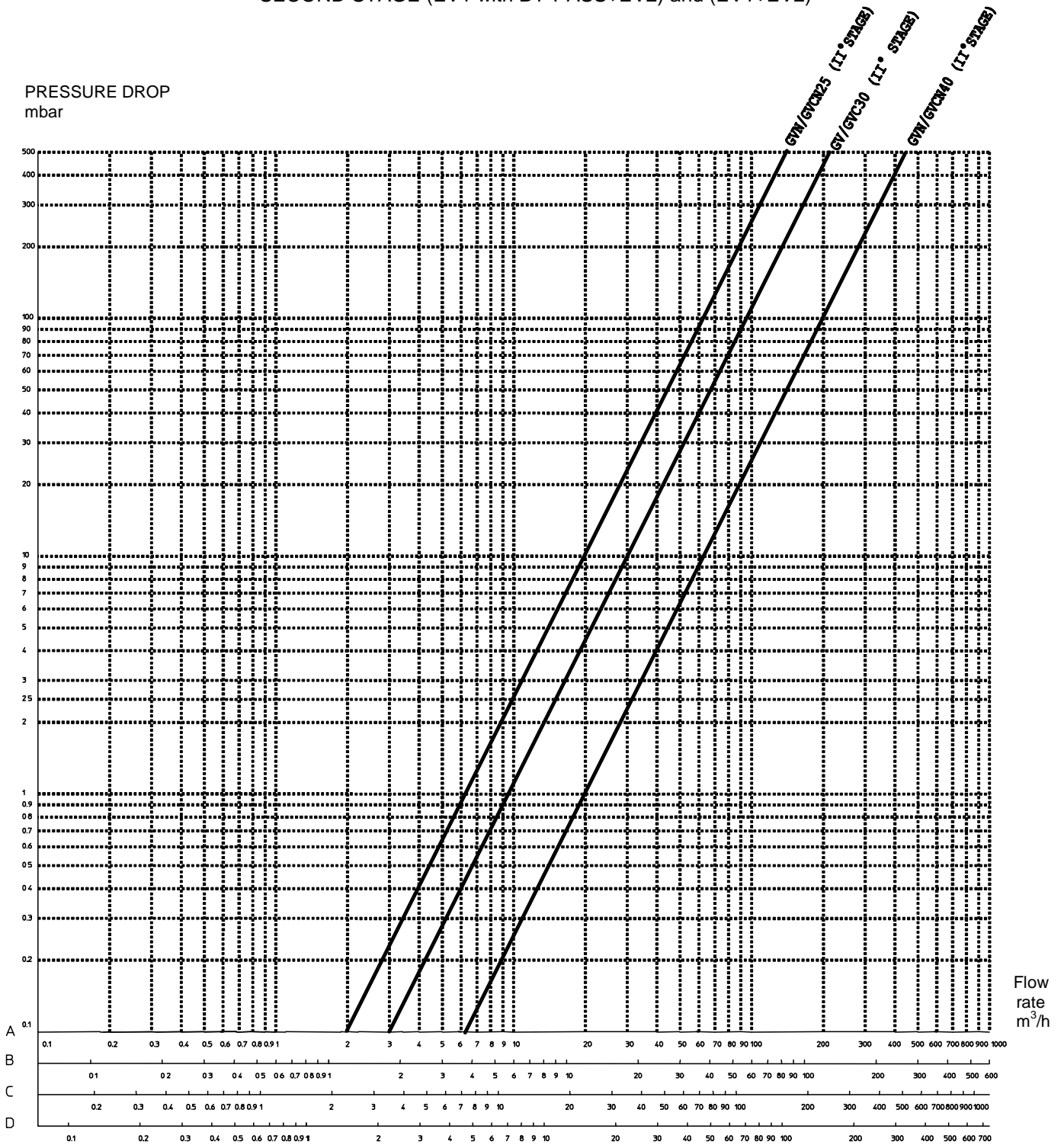
## FIRST STAGE (EV1 with BY-PASS)



- A : Standard flow rate m<sup>3</sup>/h of NATURAL GAS relative density 0.554
- B : Standard flow rate m<sup>3</sup>/h of LPG relative density 1.54
- C : Standard flow rate m<sup>3</sup>/h of TOWN GAS relative density 0.411
- D : Standard flow rate m<sup>3</sup>/h of AIR relative density 1

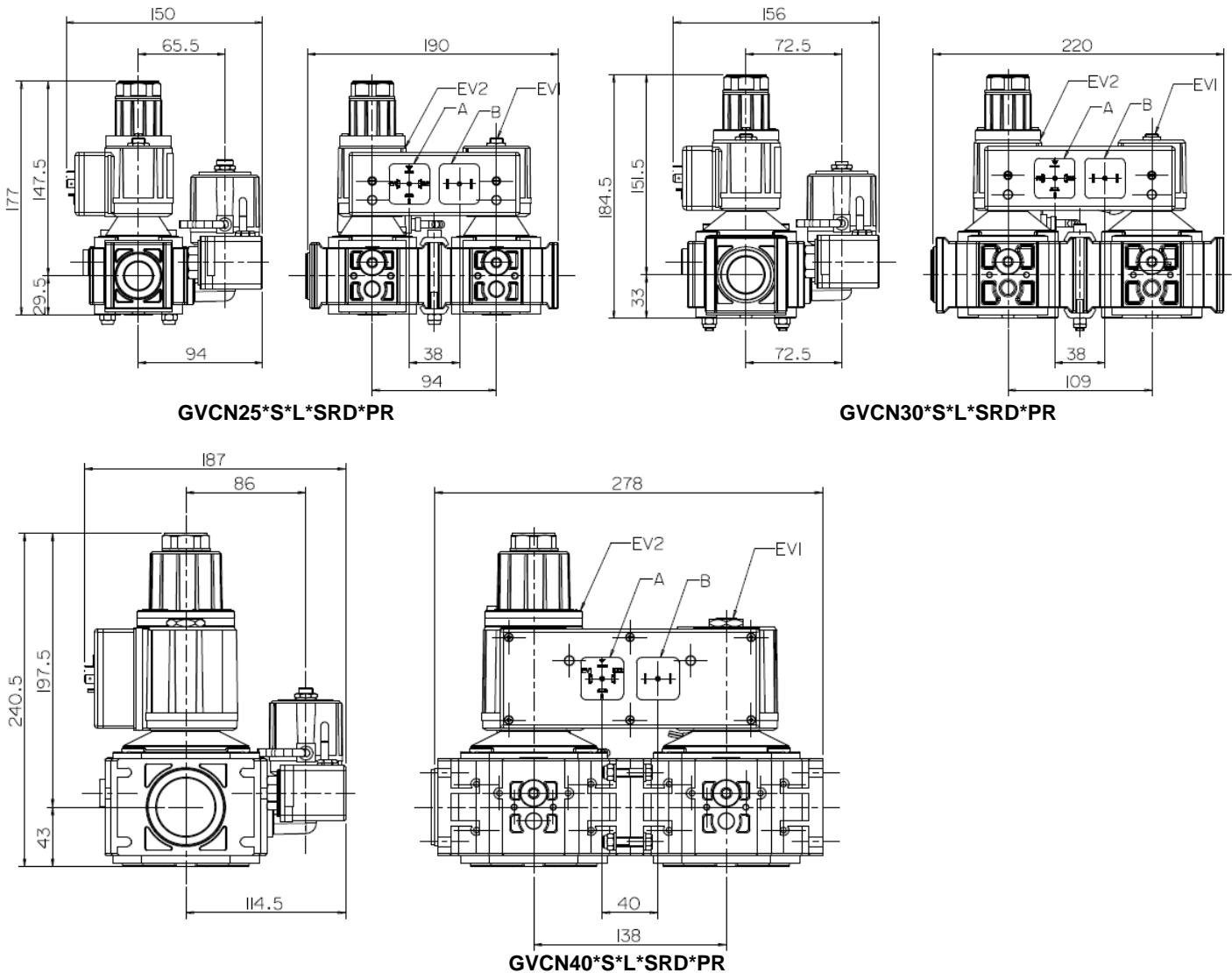
## DIAGRAM

### SECOND STAGE (EV1 with BY-PASS+EV2) and (EV1+EV2)



**N.B.:** In case of a combined valve unit without by-pass, the max. flow rate is equivalent to 70% of the single valve flow rate.

## OVERALL DIMENSIONS



### KEY TO SYMBOLS

EV1: ON - OFF quick opening solenoid valve

EV2: ON - OFF slow opening solenoid valve

BY-PASS: ON - OFF quick opening solenoid valve

P: gas pressure switch

A: solenoid valve power supply connection plug (4 pins)

B: gas pressure switch connection plug (2 pins), available for GVCN25, GVCN30 and GVCN40 with gas pressure switch only.

### NOTES

- The (a/m) dimensions of GVCN versions can be considered valid for GVN versions too, as the latter ones differ in the separate electrical wiring only.
- For the versions equipped with pressure regulator, add the length of this one as shown below:  
 In GVN/GVCN25 length of the pressure regulator "120 mm".  
 In GVN/GVCN30 length of the pressure regulator "120 mm".  
 In GVN/GVCN40 length of the pressure regulator "180 mm".

**ATTENTION --> Company Brahma S.p.A. declines any responsibility for any damage resulting from Customer tampering with the device.**

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