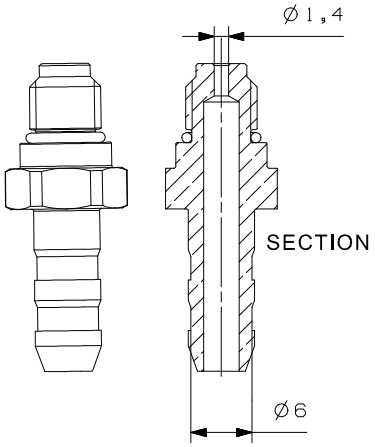
EP GAS INJECTORS

The gas from the filter goes into Joint “A” then floods the injector unit common chamber.
The metered gas is expelled from the injectors through nozzles “B” and arrives through special ducting in the intake manifold then into the engine.
The injectors are governed by the gas ECU and are linked to it with the “D” connectors.
For the correct size of the injectors it is necessary to drill the nozzles by using calibrated tips. (see Table).

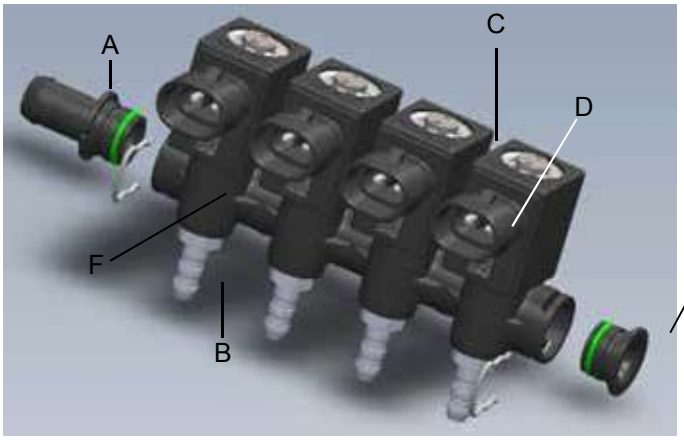
MEASURING DRILLING NOZZLES	
Ø mm	**Engine displacement (cc)**
1,4	800 - 1000
1,6	1000 - 1200
1,8	1200 - 1500
2.0	1500 - 1800
2,2	1800 - 2100
2,4	2100 - 2400
2,6	2400 - 2600

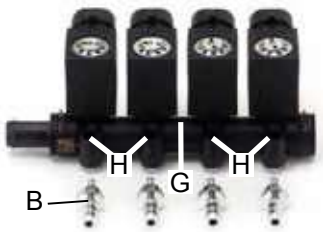


At the end of the installation it is possible to check the correct size of the injector installed:
1. Calibrate the GAS system correctly;
2. Stabilise tick-over running on GAS;
3. Check the GAS injection time.

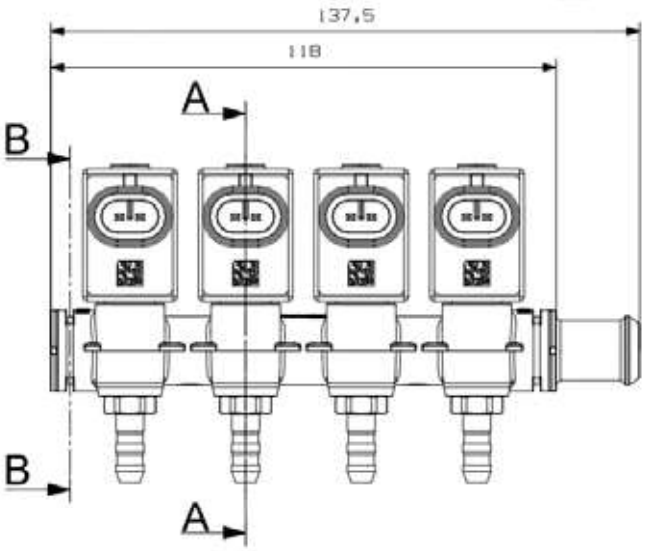
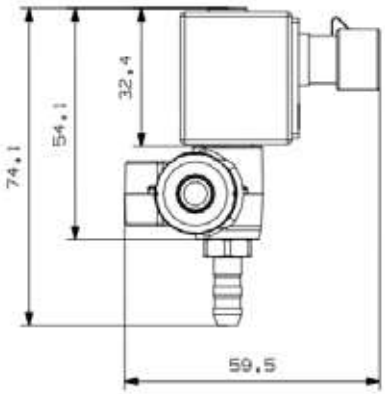
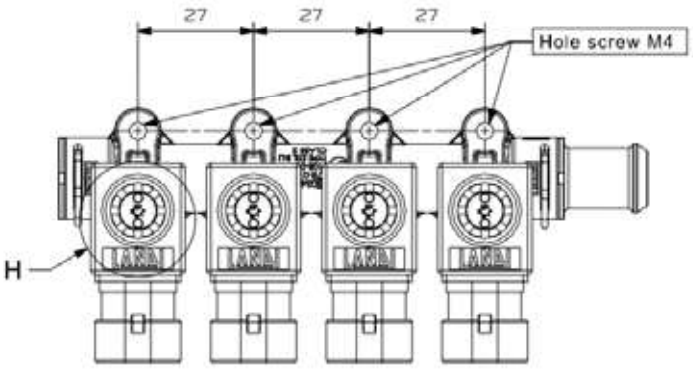
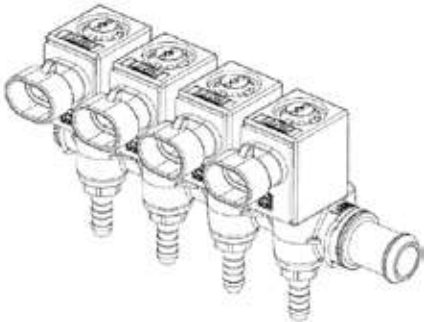
IMPORTANT:
- The injection time at the idle must be at least 5.5 ms, without applied engine loads (climate, lights, etc.).
- At the pressure of 1 bar , 0.2 mm on the diameter increase-decrease the time to the idle of about 1 ms.
- This table gives a general indication of the nozzle size. Special motorizations (Valvetronic, Valvematic, Multiair, etc.) require different nozzle sizes.
- The layout can be changed simply by removing the stop rings from the body, change the connections as needed and reposition the stop rings in the body with a slight push.

A. Gas inlet joint
B. Gas outlet nozzles
C. Injectors
D. Injector connectors
E. Plug
F. Injector casing
G. Homologation
H. Mounting points for injector units





ATTENTION:
To remove the stop rings correctly, use a flat-blade screwdriver and pry the center of the ring. Once the installation operations have been completed, check for leaks on all the electro-injector joints using a leak detector and / or soapy water.

TECHNICAL DATA

SIZES	1.4	1.6	1.8	2.0	2.2	2.4	2.6
INJECTOR TYPE	normally closed						
GAS SUPPLY	side entrance						
WORKING PRESSURE (RELATIVE)	0,5 ÷ 4 bar						
COIL RESISTANCE	3 ohm						
PEAK CURRENT	4 A						
CURRENT MAINTENANCE	1,5 A peak&hold						
WORKING VOLTAGE	10/14 V						
OPENING TIME	3,3 ms						
CLOSING TIME	2,8 ms						
WORKING TEMPERATURE	-20°C / +100°C						
ENDURANCE	**> 200 million cycles**						
OMOLOGATION	E3 10 R-034065 E13 110 R -010081 E13 67 R -010194