

LPG/CNG

AUTOMOTIVE EQUIPMENT



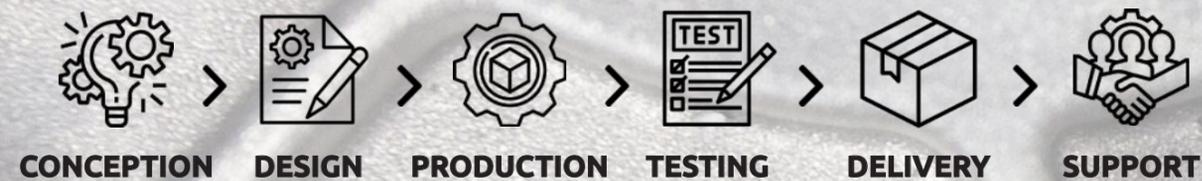
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PRODUCT CATALOGUE



Research & Development Department

Europegas engineers characterize with long-term experience and broad professional knowledge. Those people are the foundation of the company. For extra demanding testing purposes we established fully equipped modern laboratory, and car service with car chassis dyno. It allows to carry out the assembly and the testing for LPG/CNG converted vehicles.

Quality is our goal

Being the part of automotive industry sets the high requirements concerning the quality and innovative solutions. Europegas products trials conditions are more demanding than those required by the testing institutes. That is why our LPG/CNG equipment works effectively in the most difficult conditons.

Leading manufacturer of 0km LPG/CNG kits

We have over 70 representatives of our brand around the World. We can proudly talk about the successfull cooperation with our local and foreing partners, which annually purchase more than 100 000 LPG/CNG components. We create the future trends in automotive industry. Europegas was the first Polish company which have established the cooperation with South Korean Ssangyong. We are their leading supplier concering LPG/CNG 0km conversion kits. On the same field, in 2022 we have started to work with Japanese Subaru.

EUROPEGAS

Since 2005 we design, produce, and deliver our trusted automotive conversion gas equipment to our Polish and foreigner partners. Europegas headquarter is located in Bialystok, as is the production, and research and development laboratory. We manufacture full LPG/CNG kits for petrol and diesel engines including the electronics.

We create the future

Longterm automotive experience on local and foreign markets allows Europegas to fill even the most challenging client's requirements. Driving economy and ecology are the most frequent slogans which are mentioned while discussing about autogas installation. Europegas also cares about the product innovation, reliabilty, durability and safeness.

Industry experience

EuropeGAS is a company with many years of experience. Our products are used on automotive production lines. We pay big attention to installer's experience, which highly value the intuitiveness, and simplicity of our solutions. Product's construction, its sotware, and the spare parts used in the sets allow to get on higher level of LPG/CNG conversion process.

Dedicated LPG Conversion Sets

When the direct injection engines started to become more popular, **EuropeGAS** R&D department intensified the development of sequential controller for those vehicles. Another stage was to develop from the very beginning the **LPG/CNG** sets for the newest car models equipped with direct petrol injection engines.

Controller's software and the selection of the components were configured in a way to assure the highest driving comfort on both fuels, and yet the trouble-free use during the guarantee period for the vehicle and gas installation. **EG INJECTO** controller protects the valve seats, and the petrol injectors which are placed in the combustion chamber by injecting small doses of gasoline every few engine cycles.

In the dedicated sets, **EuropeGAS** applied special mounting brackets, electrical harnesses ended up with sealed connectors, and profiled water and gas hoses to limit the interference in vehicle's construction to the minimum. Installation is applied according to the manuals prepared by *Europegas Technical Department* and approved by Ssangyong Auto Polska Sp. z o.o.

WHAT WE OFFER?

- Full LPG conversion set fitted for particular model and engine type of Ssangyong Tivoli (G15GDI and G12DTF), and Korando (G15GDI).
- Detailed manual saying step by step how to install each component of **Europegas** gas installation.
- Controller with uploaded dedicated emission and performance settings:
 - records continuously the gasoline usage while driving on gas.
 - records the driving distance
- 5 years warranty, or 100 000 km for complete gas installation depending what will happen first.
- Mobile sales and technical support advisors on the terrain of Poland.
- Gas filling valve discreetly located under the fuel filler flap.
- Built-in OBD parameters reader.

CONVERSION SET



- Aluminium case with Automotive Molex connector which meets the IP65 norms. Built-in ventilation valve prevents from water condensation inside the controller.
- Dedicated mounting brackets for reducer, filter, controller and injection rail allow to install it using the fabric screws and holders.
- Dedicated Plug&Play electric harness. All connectors are ended with plugs, and soldered connections are limited to a minimum. Only the RPM, and ignition wire have to be soldered obligatory.
- Dedicated OBD-II adapter simplifies the connection of the LPG installation with the vehicle OBD socket without soldering.
- Profiled coolant EPDM hoses in Korando and Tivoli prevent from interfering in vehicle's factory installation.
- Remote technical support available via internet directly through the diagnostic software.
- Gasoline/Gas switch with full fuel level indicator which perfectly fits in with car interior and allow to change the light colour.

DEDICATED LPG CONVERSION SET

SSANGYONG TIVOLI

The 1.2 T-GDI 128 HP engine is installed in SsangYong Tivoli.



SSANGYONG KORANDO

The 1.5 T-GDI 163HP engine is installed in SsangYong Tivoli, SsangYong Tivoli Grand, SsangYong Korando.



DEDICATED LPG CONVERSION SETS

SUBARU OUTBACK VI

Engine 2.5i 169 HP

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Engine 2.5i 169 HP



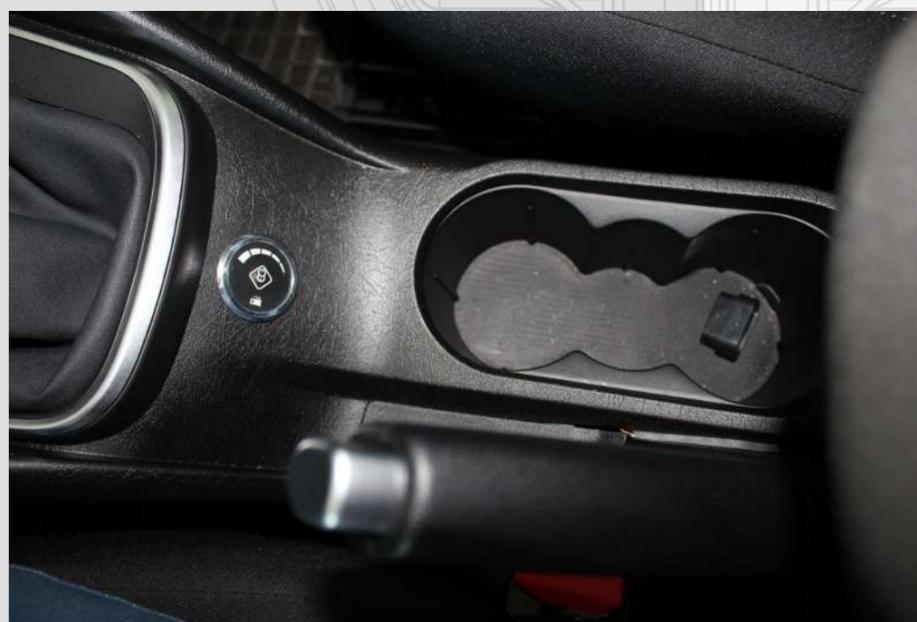
DEDICATED LPG CONVERSION SETS

FIAT TIPO

Engine 1.4 T-JET 120HP

FIAT TIPO

Engine 1.4 T-JET 120HP



DEDICATED LPG CONVERSION SETS

BAIC BJ20

Engine 1.5L TURBO 145HP

BAIC BJ20

Engine 1.5L TURBO 145HP



DEDICATED LPG CONVERSION SETS

DFSK GLORY 580

Engine 1.5L TURBO 145HP

DFSK GLORY 580

Engine 1.5L TURBO 145HP



DEDICATED LPG CONVERSION SETS

DFSK FENGON

Engine 1.5L TURBO 145HP



DFSK FENGON

Engine 1.5L TURBO 145HP



EG SPINNER

EG Spinner is an innovative vapour phase filter with an interchangeable universal filter insert. The DSFDouble Spin Force system provides even greater efficiency in separating the oily fractions. Rotating connectors allow the filter to be mounted anywhere in the engine compartment.

EG INJECTO 48.4

EG INJECTO is a sequential gas injection controller for cars with gasoline direct injection. Innovative algorithm of auto-calibration and mapping enables the system tuning with a wide range of vehicles in a simple and fast way.

EG SUPREMO 270 KM

EG Supremo is designed for vehicles with high power engines. Cut-Off Block System eliminates the effect of gas pressure overload during engine braking. Its construction guarantees the appropriate gas temperature even in the most difficult weather conditions.

EG SWITCH RGB

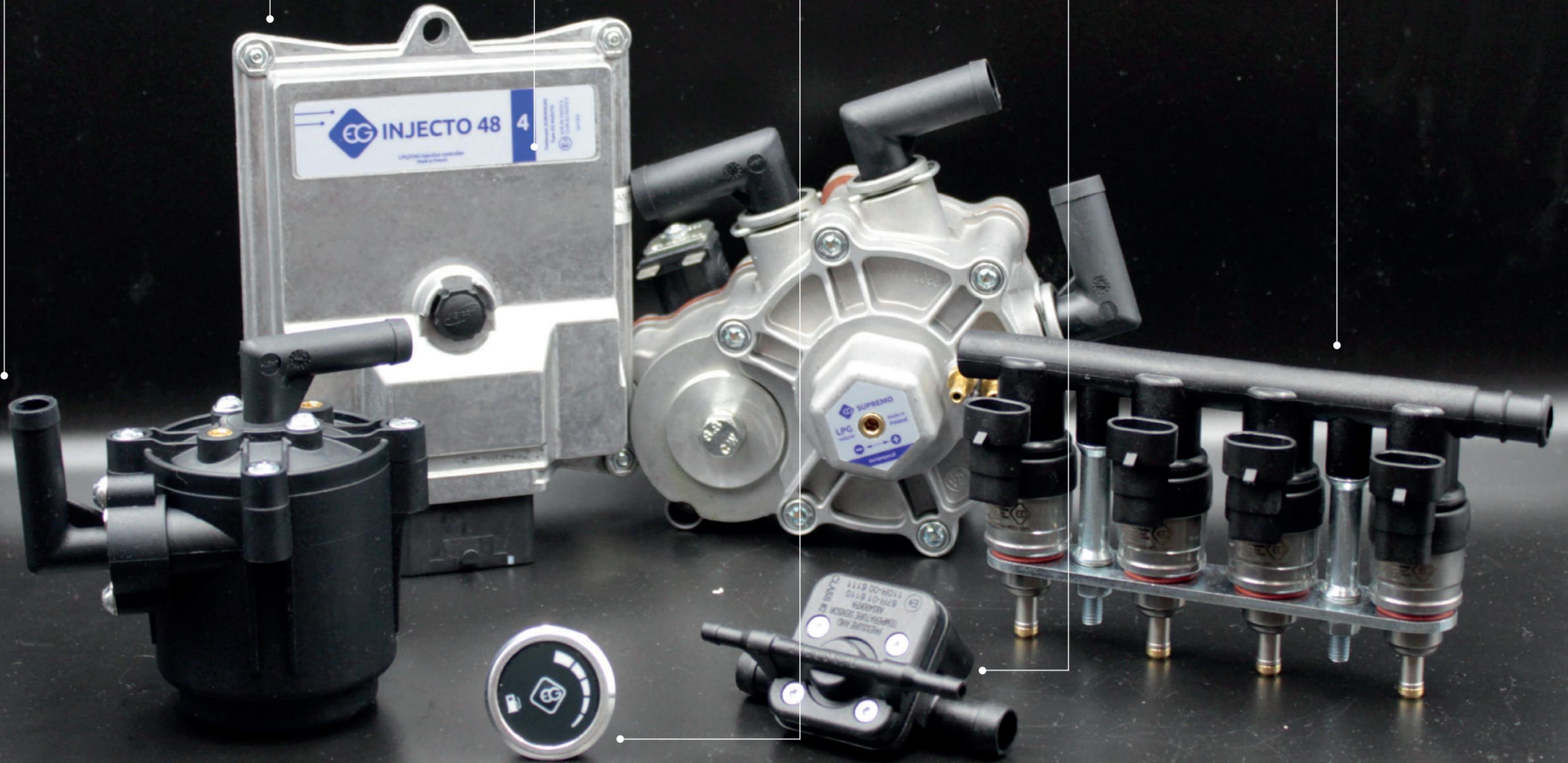
Switch that is located inside the vehicle and allows to change the fuel type. Gives a possibility to adjust the light colour of LED diods wich display the gas level.

EG ABS400KPA

Gas temperature, pressure and vacuum sensor. Compact size, and five pin AMP connector, ensure IP 54 tightness, long-term and trouble-free usage.

EG2000

EG2000 is a high quality injector with a piston design. Guarantee high precision and gas dosage repetability in each single cycle. Replaceble nozzles allow to adjust the **LPG/CNG** gas flow up to nominal engine power.



INNOVATIVE

INDIRECT GAS INJECTION



EUROPEGAS CONTROLLERS COMPARISON	EG BASICO 24.4	EG BASICO 32.6	EG AVANCE 32.4 /48.4/48.6/48.8	EG SUPERIOR 48.4 STD/3D
External dimensions (mm)	110x91x32	120x99x36	120x99x36 / 124x150x38	124x150x38
Connector (PIN)	24	32	32 / 48	48
Housing	Composite	Composite	Composite / Aluminium	Aluminium
Number of cylinders supported	4	6	4 / 6 / 8	4
Number of lambda sensors possible to connect	0	2	1/2	2
Extra gasoline injection under engine load	+	+	+	+
Communication with vehicle's OBD by connecting the harness wires of the gas Controller	-	-	+	+
Communication with vehicle's OBD using the ELM327 external OBD interface	+	+	+	+
Communication with vehicle OBD using the ELM327 external OBD interface)	+	+	+	+
Built-in Timing Advance Processor (1 inductive signal with 2 digital signal or 3 digital signals at the same time)	-	-	-	+
Adjustment of RGB switch's backlight colours and the tone of the buzzer	+	+	+	+
Automated advancing of gas injection sequence order	+	+	+	+
Automated system calibration by pressing and holding the switch button	+	+	+	+
Automated calibration of gas level LED indication by pressing and holding the switch button	+	+	+	+
Preview and change of the settings protected by password	+	+	+	+



EUROPEGAS CONTROLLERS COMPARISON	EG BASICO 24.4	EG BASICO 32.6	EG AVANCE 32.4 /48.4/48.6/48.8	EG SUPERIOR 48.4
No need for connecting the +12V ignition key wire	+	+	+	+
Incorporated remote support assistant	+	+	+	+
No need for the RPM wire connection	+	+	-	-
Pre-heating of LPG/CNG injectors before switchover to gas	+	+	+	+
Valvetronic system supported	-	-	+	+
Start&Stop system supported	-	-	+	+
High precision oscilloscope for petrol and gas injection signals	-	-	+	+
Possibility to block gas ECU after a certain period of time	-	-	+	+
Control of the temporary fuel pump shutdown	-	-	+	+
Programmable change of the injectors order	+	+	+	+
Dropping gasoline pressure value through petrol injectors	+	+	+	+
Testing of system key elements	+	+	+	+
Automated forced start on gas	+	+	+	+
Overlapping of fuel cycles during switchover	+	+	+	+
Assistant of proper nozzles size selection	+	+	+	+
Support of "Cold VAG" function	+	+	+	+
Manual testing of gasoline petrol injector emulators	+	+	+	+
Freeze frames function for gas controller errors	+	+	+	+
Automated OBD errors erasing	-	-	+	+
Engine load test during the drive (road dyno function, measuring power and Torque)	-	-	+	+

EG INJECTO

DIRECT GASOLINE INJECTION

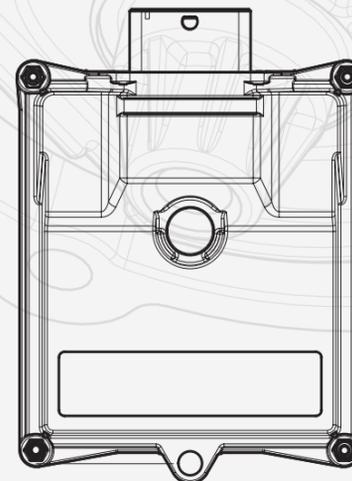
EG Injecto 48 is a sequential **LPG/CNG** controller for direct injection petrol cars.

Innovative autocalibration and map gathering algorithm allow to adapt the system with wide range of vehicles in easy and fast way. Oscilloscope built-in in the ECU enables the quick identification of input signals and correctness verification of joints. Housing made of aluminium, assures durability and protects from extreme weather conditions. Together with 48-pin Molex automotive connector, and valve which prevents from water condensation inside the controller it guarantee tightness and trouble-free usage.



Dynamic development of direct injection petrol engines challenged all autogas industry. Innovative attitude of **Europegas** allowed to solve this subject quickly. Gas injection control unit provides safe engine work by dosing small amounts of gasoline while working on **LPG/CNG**.

EG INJECTO FEATURES AND FUNCTIONALITIES:



- automatic, simplified calibration with the use of **OBD** parameters;
- continuous recording and monitoring of gasoline usage percentage while driving on gas;
- automatic **OBD** error erasing for the petrol controller;
- works with external parameters recorder connected to gas installation adapter;
- supports vehicles with **START / STOP** function.



SPECIFICATION:

- hermetic-aluminium IP65 housing;
- 48 pins Molex automotive connector;
- built-in ventile valve;
- operating temperature - 40 ... +120 °C;
- supports vehicles from 3 up to 8 cylinders;
- built-in emulators for high and low petrol pressure (HPS&LPS);
- supports vehicles with combined injection (dual).

STABLE



EUROPEGAS REDUCERS COMPARISON	EG PREMIO	EG SUPREMO	EG SUPREMO 400 HP
Power	do 150 HP	do 270 HP	do 400 HP
Reducer integrated with solenoid valve	+	+	+
LPG liquid phase heating	+	+	-
LPG gas phase heating	+	+	+
Filter chamber heating	-	+	+
Universal filter cartridge	+	+	+
Working pressure range	0,9 - 1,3 bar	0,9 - 1,3 bar	0,9 - 1,3 bar
Gas inlet	Ø6 thread M10x1	Ø8 thread M12x1	Ø8 thread M12x1
Gas outlet	Ø12 mm	Ø16 mm	Ø16 mm
Intake manifold pressure connector	Ø4 mm	Ø4 mm	Ø4 mm
Heating liquid elbows	Ø16 mm	Ø16 mm	Ø16 mm
Rotary connection elbows	+	+	+
Integrated 4k7 temperature sensor	thread M5	thread M5	thread M5

EFFICIENT



EUROPEGAS INJECTORS COMPARISON	EG2000	EG RAILGAS
Maximum static flow rate, 3mm nozzle (at 1.2 bar)	115 l / min	100 l / min
Maximum working pressure	4,5 bar	4,5 bar
Operating voltage range	12V	12V
Working temperature	- 40 ÷ 120 °C	- 40 ÷ 120 °C
Connectors adapted to the plug	AMP Superseal 282080 - 1	AMP Superseal 282080 - 1
Opening time	1,9 ms	2,7 ms
Closing time	1,2 ms	2,4 ms
Coil resistance	1.9 Ω	2.0 Ω
Gas outlet	thread M5x0,5, callibration nozzles Ø5	thread M8x1, callibration nozzles Ø5
Effective expenditure per cylinder	12 - 50 HP	10 - 32 HP
Version	or single assembly and on 3 cyl. or 4 cyl. fuel rail	rail 3 cyl. or 4 cyl.
Callibration nozzles	1,5 mm for drilling, and pre-calibrated 1,9mm (III), 2,2 (II) i 2,5mm (I)	1,5 mm for drilling



EG DYNAMIC STD / EG DYNAMIC 3D

Timing Advance Processor.

- Advances the moment of ignition in engines which run on LPG/CNG fuel in order to optimize the engine power and improve the dynamics of its work;
- It is scanning, learning and supporting crankshaft and camshaft signals shifting for various engines;
- Dynamic ignition angle advancing depending on actual value of engine speed, TPS throttle position and MAP;
- Support single inductive sensor and up to two digital sensors (Standard version) or three digital sensors (3D version).



EG FUEL LEVEL RESETTER

The fuel level indication emulator EG FLR v2.6 is designed for a wide range of cars with a resistive gasoline level sensor with one signal wire and a gas supply system, in which the petrol level indication drops when driving on gas and does not reset automatically after restarting engine.



EG CARBURETOR

Changeover switch intended for cars with carburetor engines or with electronic injection, fueled with gaseous fuel (LPG or CNG). It has a full indication of the gas level and the possibility of automatic switching between fuels.



EG INTERFACE OBD

- Gives ability to preview the values of the STFT and LTFT mixture correctors and other parameters, and to erase OBD errors;
- Supports ELM327/VGate interface in USB and Wifi version;
- Supports all vehicles with OBDII protocol (manufactured after year 2000);
- Compatible with EG BASICO, EG AVANCE and EG SUPERIOR controllers.



EG CONECTO

Wifi diagnostics interface designed to wireless communication with Europegas controllers.

- Works with EG Configuration Center and EG Movi diagnostic software;
- Working range 120m;
- No need of configuring the WiFi module before starting to work;
- Compatible with IEEE 802.11 b/g/n standard.



EG HLS

EG HLS is a non-contact gas level sensor with linear output voltage using the Hall effect.

- Manufactured without using mechanical elements;
- Accurate gas level indication;
- Very low power consumption (10-12 mA);
- Voltage value: 0 V – empty tank, 5 V – full tank.



EG SPINNER

EG Spinner is an innovative vapour phase filter using Double Spinn Force system and with an interchangeable universal filter insert.

- Filter cartridge with glass fiber and acrylic resins;
- Filtration area: 0,0227 m²;
- Maximum operating pressure: 4.5 bar;
- Operating temperature from - 40°C to +120°C;
- Diameter of the connectors: Ø12 or Ø16 mm;
- Dimensions in mm: 100 x 80 x 80.



GASEOUS PHASE FILTER LPG/CNG FL01

- Housing material: aluminium;
- Filtration efficiency: 99% particles from 2 µm;
- Filtration material: blotting paper: 843 VH 134;
- Filtration area: 0,039 m²;
- Outlet diameter Ø12 lub Ø16 mm;
- Size in mm: 119x45.

Available in all varieties of inlet and outlet diameters.



EG FLEX with fittings

High-pressure flexible hoses are an excellent alternative for use in automotive LPG installations instead of rigid copper pipes.

Fittings available in two versions: D6 and D8:
180°, 135°, 90°

2 types of FTH hose:

- D6 (internal diameter 5.0 mm / external diameter 9.6 mm);
- D8 (internal diameter 6.5 mm / external diameter 12.2 mm).



EG TESTER

A professional agent for testing the tightness of gas installations.

- Quick and easy application;
- Operation in any position;
- Does not cause corrosion;
- Operating temperature range: -8°C – 35°C;
- Capacity: 400 ml.



EG DETECTOR

Electronic leak detector of the gas installation.

- Sensitivity potentiometer allowing for fast and accurate location of leaks;
- Audible and visual indication of leak detection;
- Quick response time, below two seconds for less than 40% LEL;
- Flexible probe with a length of 42 cm.

TECHNICAL SUPPORT :



EuropeGAS, as a manufacturer, gives the customer not only product, but also knowledge. We put our greatest efforts to be certain that the workshops properly install and service the installation. We conduct software and manual trainings for EG installers. We provide remote technical support regarding callibration and LPG/CNG kit diagnosis, using EG Configuration Centre with integrated remote desktop software.

Each **Europegas** product is designed for the users, that is why our main factors are easiness and intuitiveness of service. Through direct meetings with our clients we are able to familiarize with product feedback, and share the experiences regarding everyday usage of our equipment.



TRAININGS :



INSTALACJA LPG
ZALETY MONTAŻU DEDYKOWANEJ
INSTALACJI DO SUV-ÓW SSANGYONG



Technical Support Department together with our distributors organize cyclical trainings all over the World. We consider this as an investment, because properly trained installer is the best showcase of the company.



EG Injecto 48 software training.



We organize cyclical assembly and service trainings of authorized workshops.

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