

EMMEGAS

CATALOGUE



EMMEGAS[®]
AUTOGAS EQUIPMENT

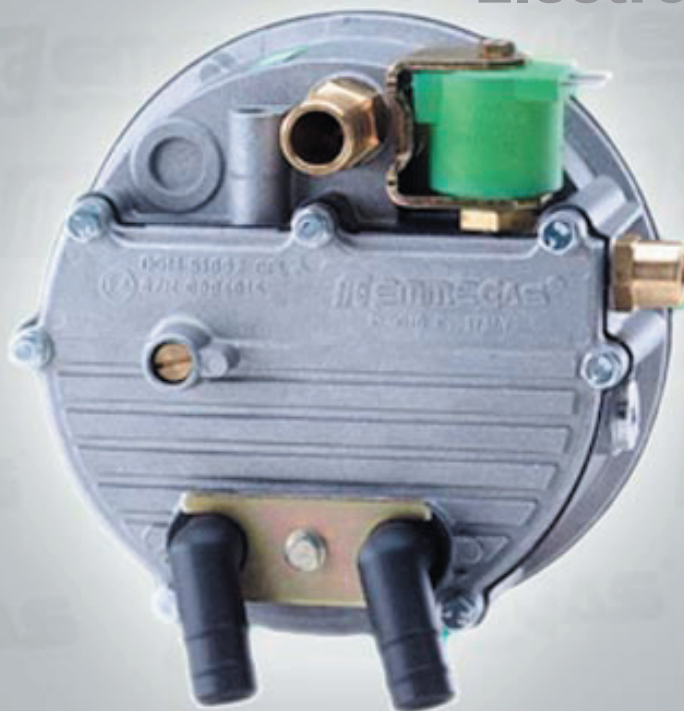
INDEX



INDEX.....	02
LPG REGULATORS.....	03
LPG COMPLETE KITS.....	08
CNG REGULATORS.....	11
CNG COMPLETE KITS.....	15
ACCESSORIES.....	17
ELECTRONICS.....	21
CONTACT.....	25

LPG REGULATORS

ML 94 EP / E2R Electronic



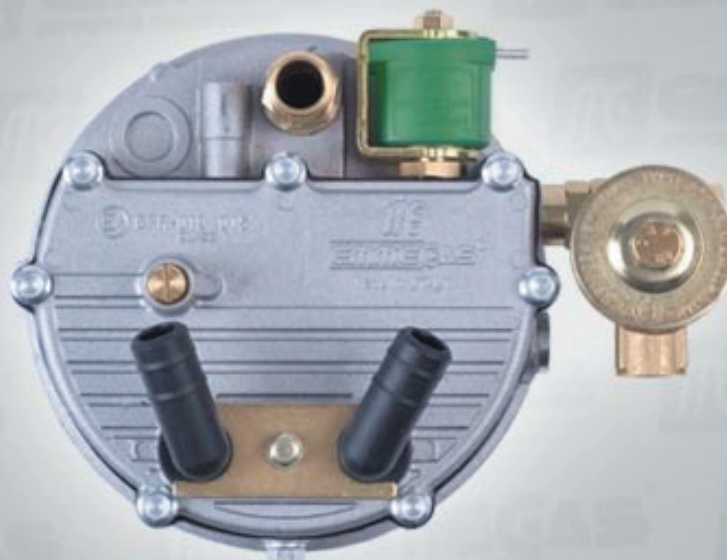
ECE R 67-01 Approval

Technical details :

- Electronic, with two reduction stages;
- Its compact size suits the installation on any type of car;
- The big size of the water chamber allows an optimum thermal exchange for a perfect gasification of LPG, even at rigorous climates;
- Small number of inner components, which allows an easy maintenance and/or overhauling;
- 'Easy to adjust' EP version, with only 1 adjuster;
- From the same regulator, it is possible to have by a simple and genius processing, both 1 adjuster (EP) and 2 adjusters (E2R) versions;
- For both types, the SUPER version is available, suitable for big engines.

LPG REGULATORS

ML 94 EP / E2R with lock-off valve



ECE R 67-01 Approval

Technical details:

- Electronic, with two reduction stages;
- Approved as regulator with a “built in lock-off valve” with gas interception directly on the inlet to the first stage of reduction. With this regulator it is not necessary to install the in-line LPG lock-off valve;
- Very easy to install, since the filter can be axially oriented;
- Easy overhaul: it is possible to replace the filter only, without disconnecting the gas feeding hose;
- It is possible to have the filter installed from the manufacturer or as accessory to be fitted on any types of Emmegas regulator, after having removed the in-line LPG lock-off valve;
- Both EP and E2R versions are available, so as the STANDARD and the SUPER ones.

LPG REGULATORS

ML 03 P
Vacuum



ECE R 67-01 Approval

Technical details:

- Vacuum type, with two reduction stages, with electrical priming;
- It has been studied for the installation on old carburettor cars, which do not have any electronic devices, and it is suitable mainly for the markets where an “entry level” regulator is required;
- Very simple maintenance and/or overhauling;
- Very easy adjustment;
- High level of reliability.

LPG REGULATORS

ML 04 J / XJ Injection



ECE R 67-01 Approval

Technical details:

- Single stage type, with built in in-line LPG lock-off valve, suitable only for sequential injection gas systems;
- Equipped with a screw which allows the output pressure adjustment once the regulator has been installed;
- Pressure reduction by mean of a valve system;
- The reduction stage is placed at the very heart of the vaporizer body: the wide water/ body thermal exchange surface, located all around it, grants excellent vaporization and constant pressure.

LPG COMPLETE KITS

SEQUENTIAL INJECTION KITS



The Timed Sequential Injection System TSI-03 is available for engines from 3 up to 8 cylinders, and represents the top of our range of products.

1. This new system grants:

- High reliability and adaptability;
- Easy installation on most cars;
- Filter for liquid gas in the inlet;
- Special filter on the low pressure line gas, between the regulator and the metering unit;
- "Backfire" problems solved;
- No need of OBD emulators;
- Self-learning on first installation;
- Self-adapting during normal use;
- Many "environment" parameters are considered, to get the most stable operation even in extreme weather conditions (two temperature sensors supplied, one on the regulator and one on the metering unit).

2. List of the main components:

- Emmegas single-stage LPG regulator ML 04 J with built-in lock-off valve;
- Emmegas filter in gaseous phase;
- Emmegas JMU Rail;
- Electronic change-over switch with "buzzer";
- Complete Electronic Control Unit (4-6-8 cylinders);
- Level sensor;
- Complete set of hoses and fittings;
- Complete set of cables.

LPG COMPLETE KITS

ELECTRONIC KITS



(carburettor & injection cars)

List of the main components:

- Emmegas LPG regulator type ML 94, electronic;
- Emmegas LPG lock-off valve;
- Emmegas petrol lock-off valve (only on carburettor cars);
- Electronic change-over switch;
- Level Sensor;
- Complete set of hoses and fittings;
- Lambda Control System (only on cars with oxygen sensor & catalyst).

LPG COMPLETE KITS



(carburettor cars)

List of the main components:

- Emmegas LPG regulator type ML 03 P, vacuum type;
- Emmegas LPG lock-off valve;
- Emmegas petrol lock-off valve;
- Electrical change-over switch, with primer;
- Complete set of hoses and fittings.

CNG REGULATORS

NGV 04 / E2R Electronic



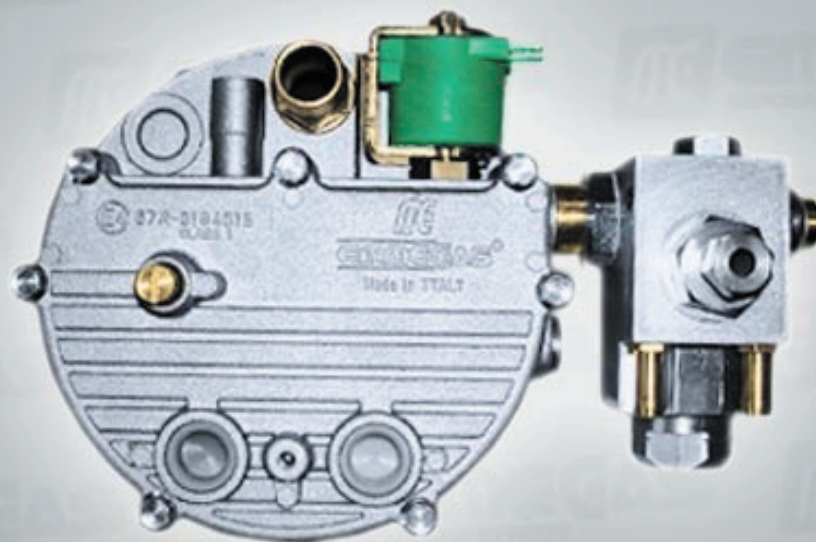
ECE R 110 Approval

Technical details:

- Electronic, with three reduction stages;
- Its compact size suits the installation on any type of car;
- In-line lock-off valve between the second and third reduction stage;
- From the same regulator, it is possible to have by a simple and genius processing, both 1 adjuster (EP) and 2 adjusters (E2R) versions;
- 3 versions available: Standard (100 HP), Super (140 HP) and H.D. (180 HP).

CNG REGULATORS

NGV 20 E Electronic



ECE R 110 Approval

Technical details:

- Electronic, with three reduction stages;
- It is obtained from the LPG regulator type ML94, adding an high pressure reduction stage;
- Its compact size suits the installation on any type of car;
- 3 versions available: Standard (100 HP), Super (140 HP) and H.D. (180 HP).

CNG REGULATORS

NGV 04 J Injection



ECE R 110 Approval

Technical details:

- Two-stage, with built-in solenoid valve, suitable only for sequential injection gas systems;
- Equipped with a screw which allows the output pressure adjustment once the regulator has been installed;
- Pressure reduction by mean of a valve system;
- It is obtained from the LPG regulator type ML 04 J, adding an high pressure reduction stage.

CNG COMPLETE KITS

SEQUENTIAL INJECTION KITS



The Timed Sequential Injection System TSI-03 NGV is available for engines from 3 up to 8 cylinders and represents the top of our range of products.

1. This new system grants:

- High reliability and adaptability;
- Easy installation on most cars;
- Special filter on the low pressure line gas, between the regulator and the metering unit;
- "Backfire" problems solved;
- No need of OBD emulators;
- Self-learning on first installation;
- Self-adapting during normal use;
- Many "environment" parameters are considered, to get the most stable operation even in extreme weather conditions (two temperature sensors supplied, one on the regulator and one on the metering unit).

2. List of the main components:

- Emmegas two-stage CNG regulator NGV 04 J with built-in solenoid valve;
- Emmegas filter in gaseous phase;
- Emmegas JMU Rail;
- Electronic change-over switch with "buzzer";
- Complete Electronic Control Unit (4-6-8 cylinders);
- Manometer with Level Sensor;
- Complete set of hoses and fittings;
- Complete set of cables.

CNG COMPLETE KITS

ELECTRONIC KITS



(carburetor & injection cars)

List of the main components:

- Emmegas CNG regulator type NGV, electronic;
- Emmegas petrol lock-off valve (only on carburettor cars);
- Electronic change-over switch;
- Manometer with Pressure Sensor;
- Complete set of hoses and fittings;
- Lambda Control System (only on cars with oxygen sensor & catalyst).

ACCESSORIES

LOCK OFF VALVES



Emmegas can supply LPG and Petrol lock-off valves, for each type of kit. The LPG valves are manufactured according to both ECE R 67-01 and ECE R 10 (EMC) Approvals.

ACCESSORIES

MULTIVALVES



Emmegas has a complete range of Multivalves, for both cylindrical and toroidal (donut) tanks. The LPG Multivalves can be supplied according to ECE R 67-01 Approval - with shut-off solenoid valve, thermofuse, excess flow valve and pressure relief valve - or, when needed, according to the old ECE R 67-00 Regulation.

ACCESSORIES

CNG VALVES



Emmegas kits include CNG filling valves and tank valves, upon request. The tank valves are supplied according to the type of CNG tanks, and to the Regulations valid in each countries.

ACCESSORIES

MIXERS



Emmegas has a wide range of mixers, both for LPG and CNG, suitable for:

- Carburettor cars;
- Single Point Injection cars;
- Multipoint Injection cars.

The complete list is available upon request.

ACCESSORIES

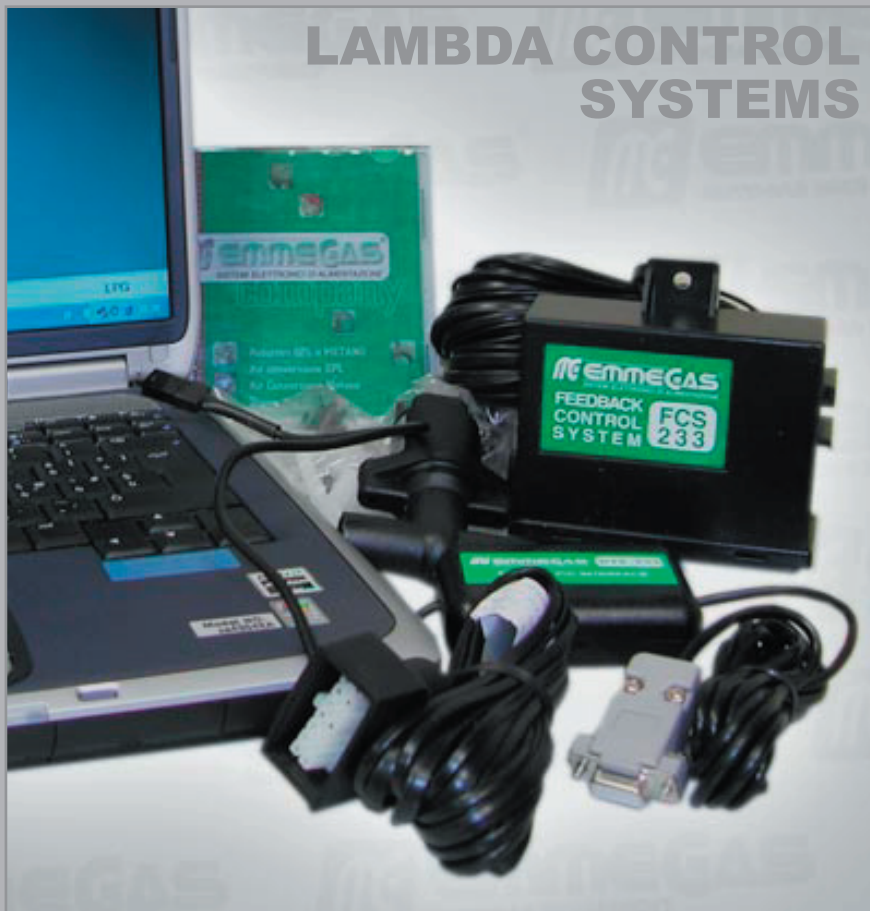
CHANGE-OVER SWITCHES



Emmegas kits include LPG and CNG change-over switches, with level gauge on demand.

ACCESSORIES

LAMBDA CONTROL SYSTEMS



Three Emmegas different Lambda Control Systems are available: from the simplest version (DEG-103, with step-motor with adjuster) to the most advanced one (FCS-233, completely self-calibrating and adjustable by PC and/or hand-held tester).

ACCESSORIES

INJECTOR EMULATORS



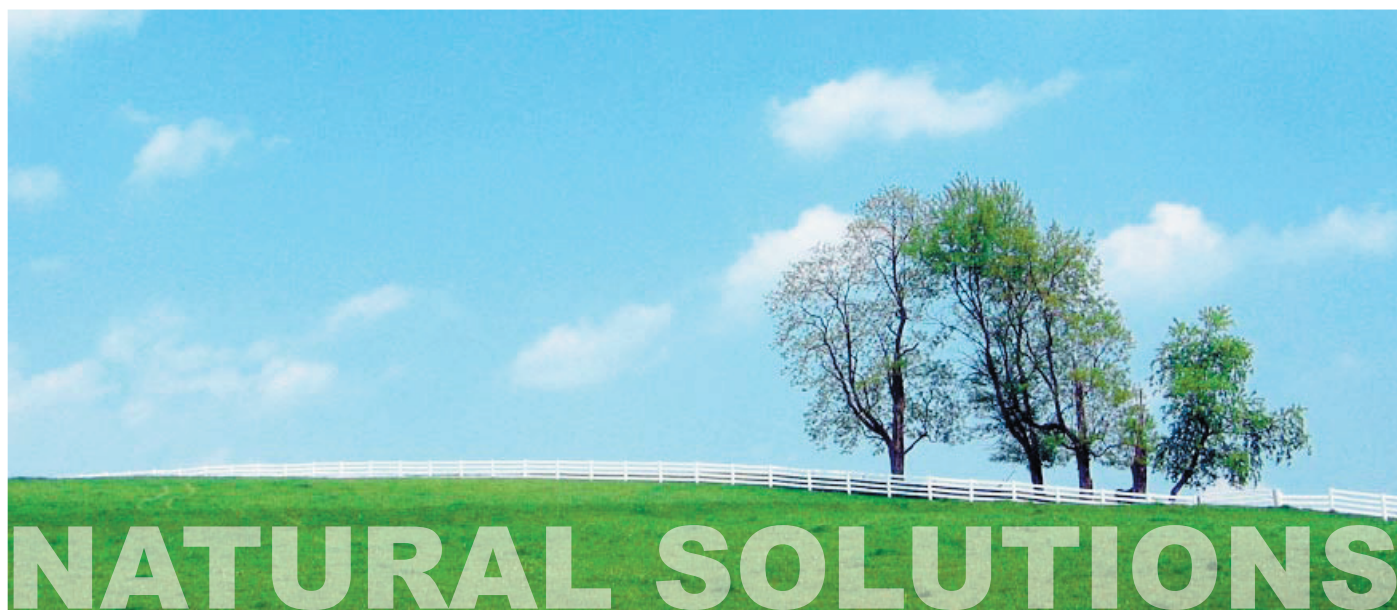
The emulators have a main role in functioning of the injection kit: the range of Emmegas emulators shows injector emulators, lambda emulators and OBD emulators.

ACCESSORIES

TIMING ADVANCE PROCESSORS



On demand, Emmegas can supply the Timing Advance Processors (T.A.P.), which are electronic devices that modify the OEM spark advance, in order to optimize the engine operation when the car is running on gas.



EMMEGAS S.p.A.

Via G. Falcone, 5

42020 BARCO (RE) - ITALIA

Tel +39 0522 24 65 00 Fax +39 0522 24 65 02

e-mail: info@emmegas.net

www.emmegas.net