

LPG conversion kit

Inside the box



We supply only 100% European made components for best-fit installations around the world.

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Full LPG kit box

- The full LPG kit from Energia Italy is packed with all the stuff that you need for the installation of the system to a passenger car.
 1. ECU + wiring
 2. LPG Reducer
 3. Water temp. sensor
 4. LPG injectors
 5. LPG switch
 6. Fuse and fuse holder
 7. Hoses for water, LPG and vaccum
 8. Clamps for all hoses
 9. Connections for water hoses
 10. LPG tank
 11. Multivalve
 12. Level sensor
 13. Thermoplastic pipes
 14. Connections for thermoplastic pipes
 15. Filling point



ECU + wiring

- Ecu or Electronic control unit is the brain of the LPG Conversion kit primary function is to operate all the functions of a LPG system by monitoring the Petrol system of the car.
- Energia Italy ECUs have a IP standard of IP65 and the wiring have a standard of IP55

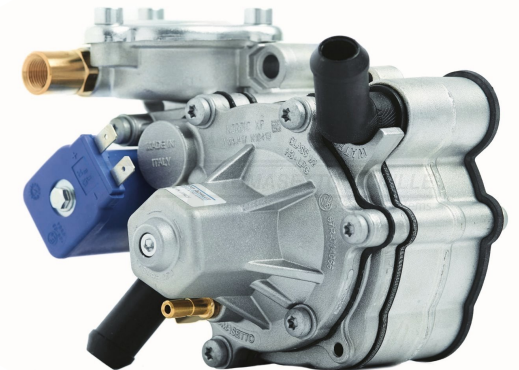


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LPG Reducer

- LPG Reducers have two primary functions: one is to reduce the pressure coming from the tank and the second one is to convert the liquid LPG to vapor using the hot coolant water of the engine.
- Reducers are produced from 90kw up to 300kw
- There are many different types but all of them have the same function
- The reducers are produced with a safety valve on it or without (Blue magnet on the reducer)
- We connect on it the water temp. sensor to monitor the temperature of the reducer to ensure a good working condition of the reducer.



Injectors

- LPG injectors are used to ensure the right amount of fuel coming in the intake manifold. There are different types of injectors and each of them have his advantages.
- The power is rated also by the resistance of the coil, time of opening/closing, and gas flow. They can go up to 100kw per cilinder

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LPG switch

- The LPG switch is showing us what fuel are we using now, level of the gas in the tank and if there is a issue on the LPG system. It also allow us to manually turn ON or OFF the LPG system

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Tank and Multivalve

- Energia Tank we have two different tank types Toroidal and Cylinder tanks with all dimensions and diameter sizes for external and internal use. Tanks are constructed to hold up to 30Bar of pressure.
- Multivalve is a component that have few jobs. First it is a safety valve in case the Pressure in the tank increases it will start open at 24,2bar (pre factory set up, if its needed different it is possible to do). Second it is a cut off valve for the fuel to stop delivering fuel to the engine. It have a manual safety bolt and it have a electric safety solenoid. It have a intake for the filling point that have a safety pre setup max 80% of the tank can be filled. It has a float on it, with a magnet to install the level sensor on it.



Level sensor and filling point

- Level sensor we have two types 1090 and 1050 they are used to show the amount of fuel in the tank and we mount them on the Multivalve.
- Filling point we have all types of filling points please be careful by ordering the filling point be careful what type of filling point is in your country used.



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ENR.901258.1
LPG Filling Point D04 Short



ENR.901255
LPG Filling Point D01 Bracket



ENR.901249.4
LPG Filling Point Adapter Acme Long



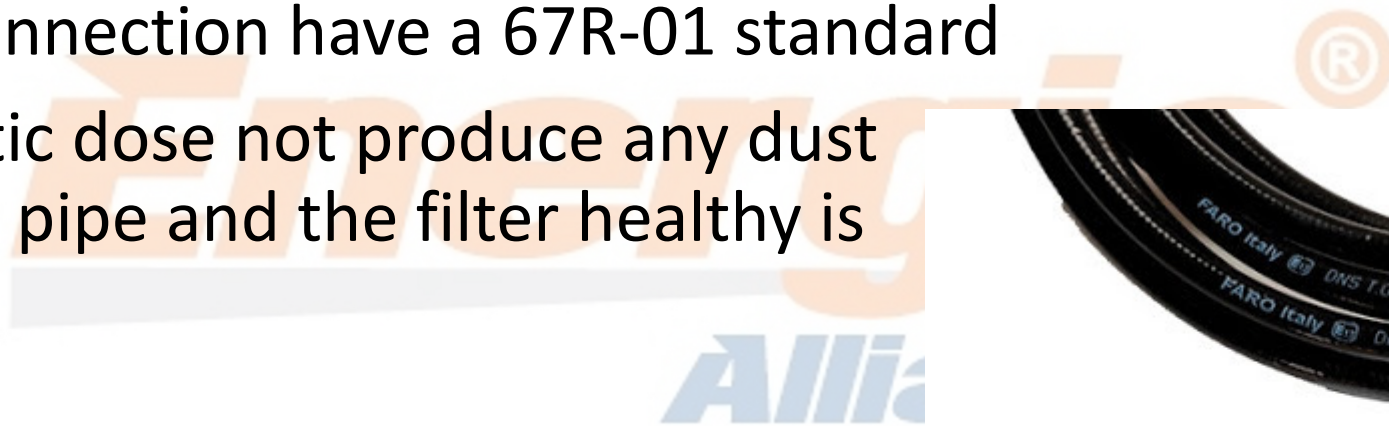
ENR.901257
LPG Filling Point D03 Acme



ENR.901258.2
LPG Filling Point D04 Long

Thermoplastic pipes and connections

- Thermoplastic pipes are used in the past 4 years for connection the tank to reducer and the tank to filling point. The high safety standard of the pipes provides maximum safety for the installer and costumers. The flexibility allows us to easy install the pipe under the car.
- Pipes and connection have a 67R-01 standard
- Thermoplastic dose not produce any dust inside of the pipe and the filter healthy is increased.



Questions?

