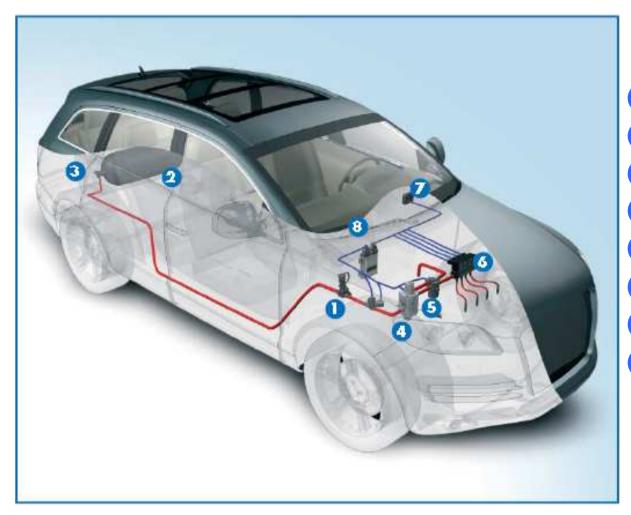


# CNG LOVATO Injection System

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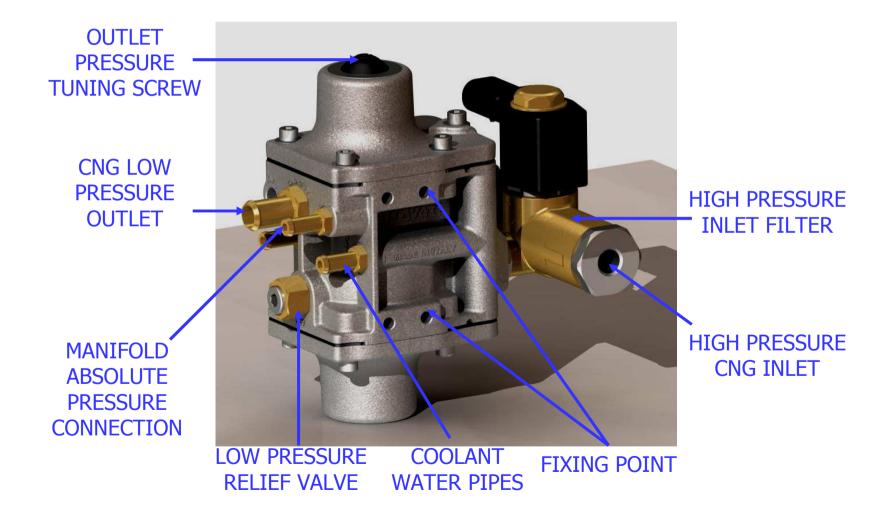




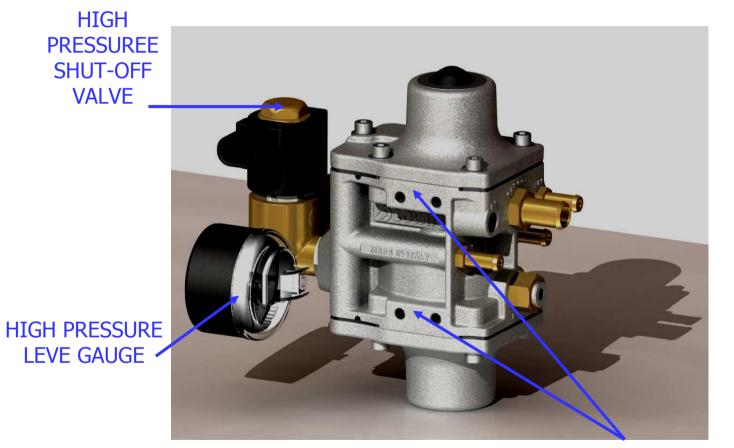
#### Main components of CNG Injection System

CNG Filling Valve
CNG Tank
CNG Cylinder Valve
CNG Reducer
Filter & Sensors
CNG Injectors
CNG Switch
CNG ECU



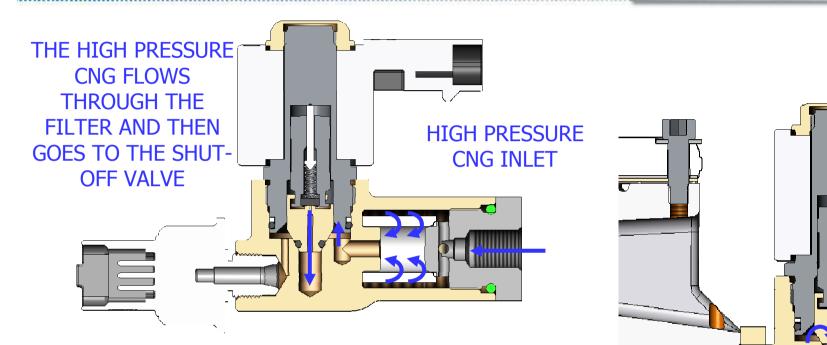






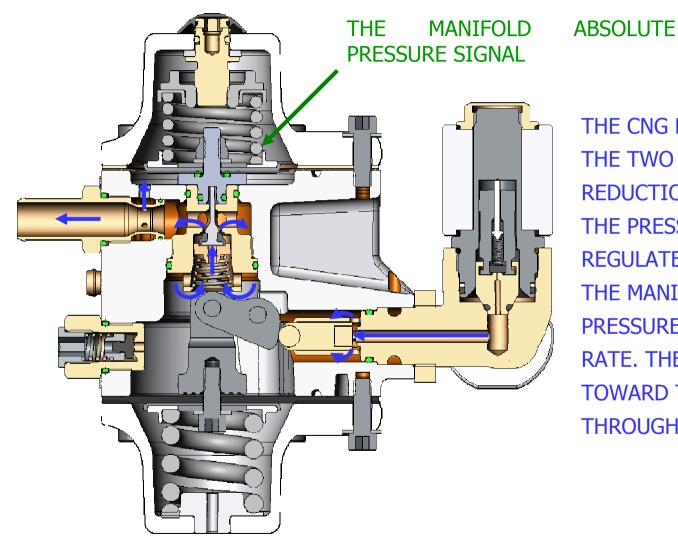
**FIXING POINT** 



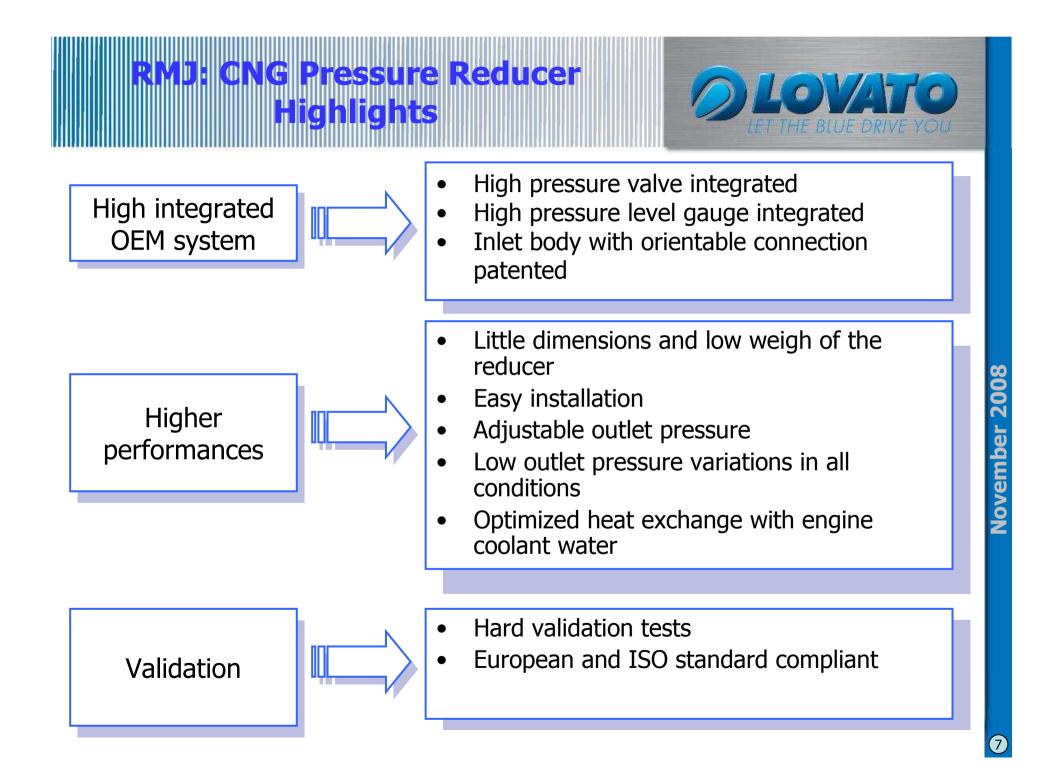


IF THE POWER IS OFF THE SHUT-OFF VALVE IS CLOSED AND STOPS THE CNG, WHEN THE POWER IS ON THE SHUT-OFF PLUNGER MOVES TOWARD THE ELECTRO MAGNET AND THE CNG FLOWS TOWARD THE 1° PRESSURE REGULATION STAGE





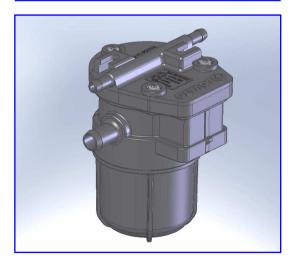
THE CNG FLOWS THROUGH THE TWO PRESSURE REDUCTION STAGES WHERE THE PRESSURE IS REGULATED IN FUNCTION OF THE MANIFOLD ABSOLUTE PRESSURE AND OF THE FLOW RATE. THE CNG FLOWS TOWARD THE INJECTORS





#### LOW PRESSURE FILTER WITH INTEGRATED MAP, GAS TEMPERATURE AND PRESSURE SENSORS

**FSU: LPG-CNG Filters** 

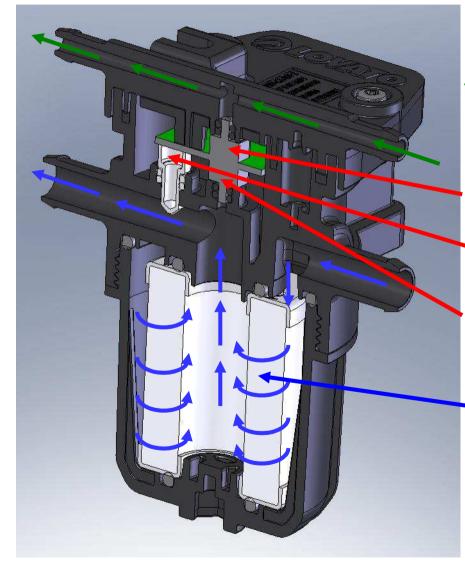


#### LOW PRESSURE FILTER



### FSU: LPG-CNG Filters



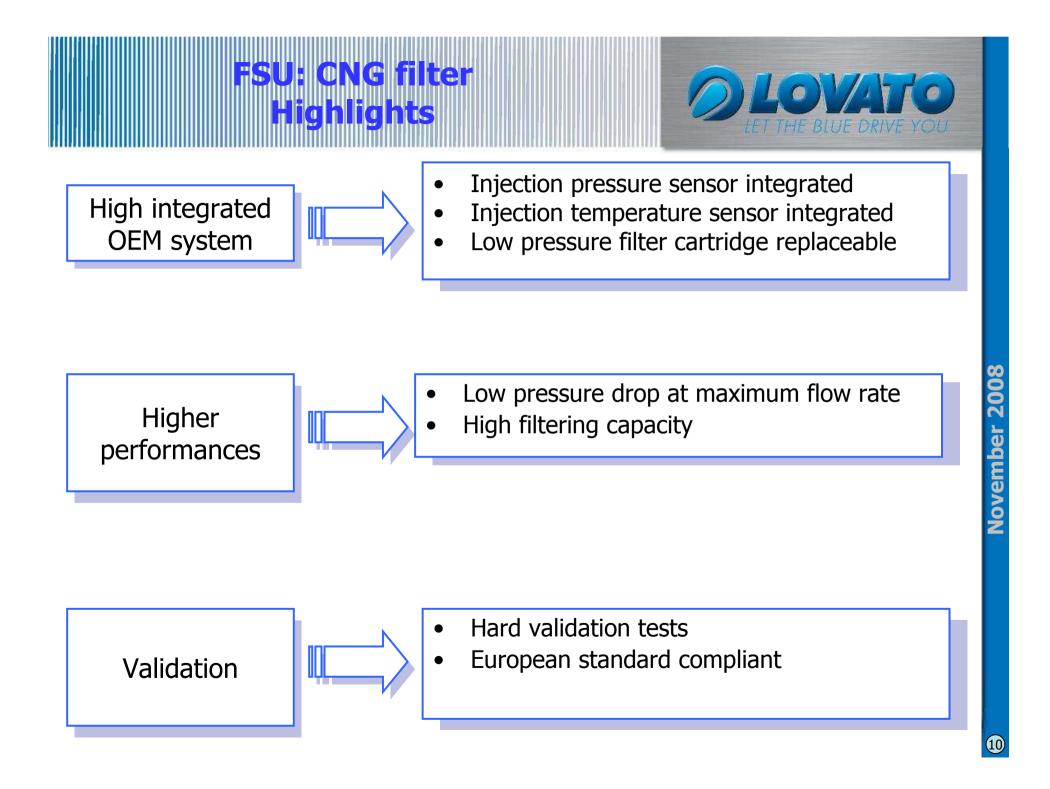


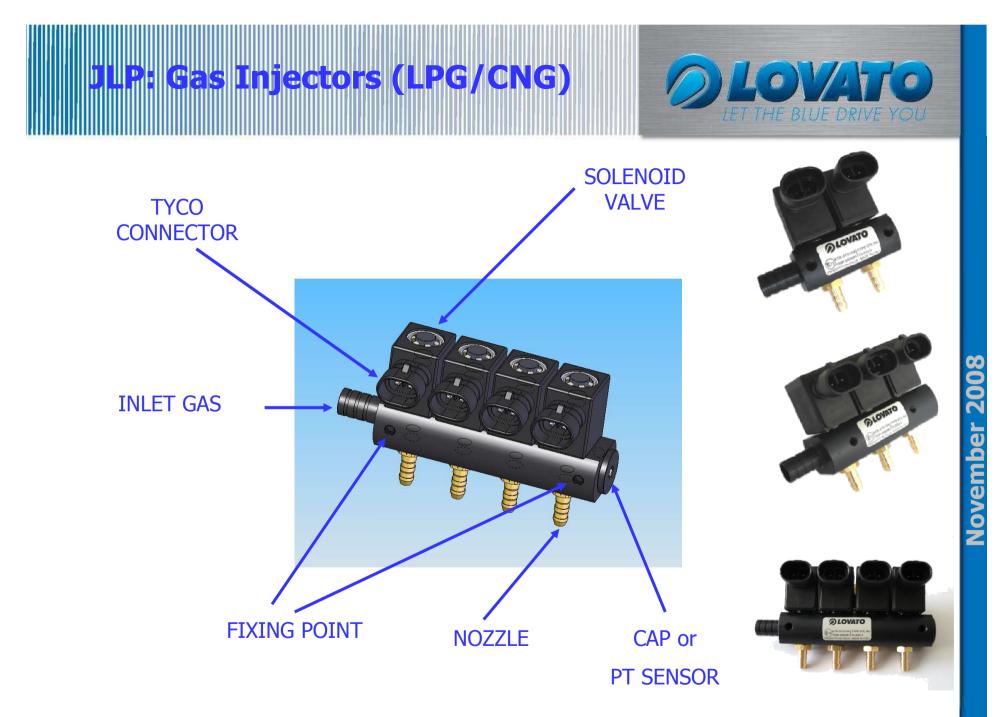
THE MANIFOLD PRESSURE SIGNAL ABSOLUTE

THE MANIFOLD ABSOLUTE
PRESSURE SENSOR
THE LPG and CNG
TEMPERATURE SENSOR

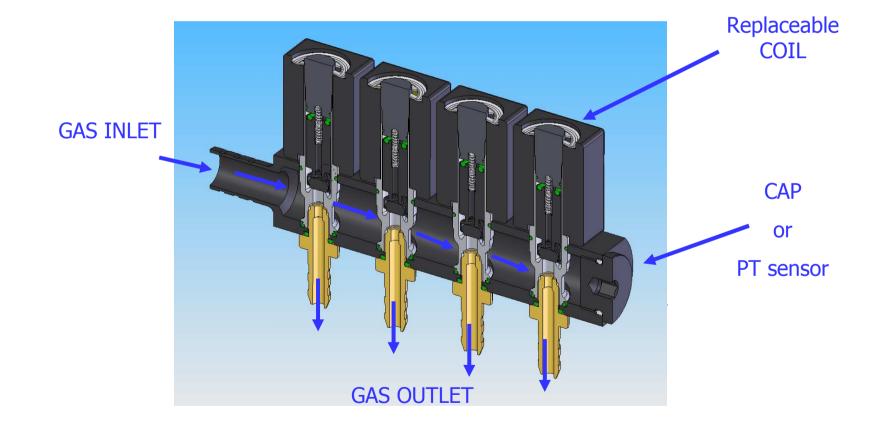
THE LPG and CNG PRESSURE SENSOR

LOW PRESSURE LPG CARTRIDGE









**JLP: Gas Injectors (LPG/CNG)** 

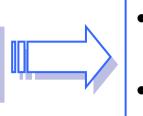
#### JLP: CNG injector Highlights

High integrated OEM system

Higher

performances

Validation

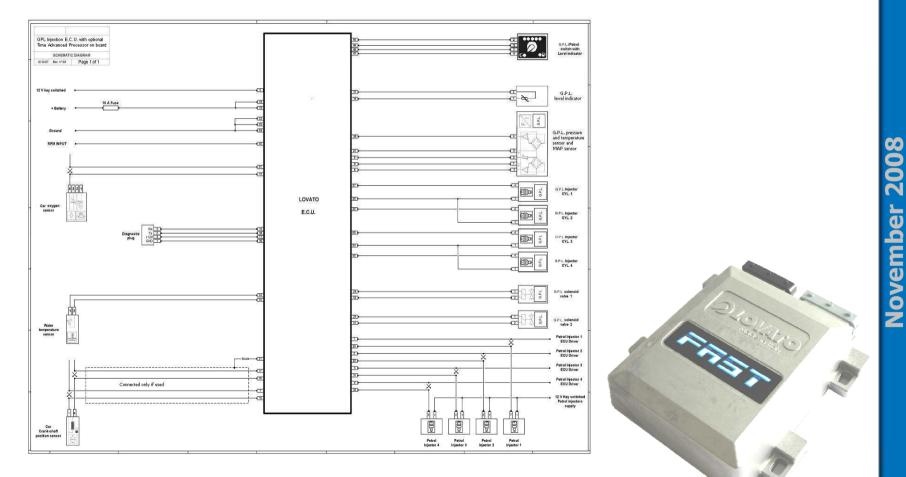


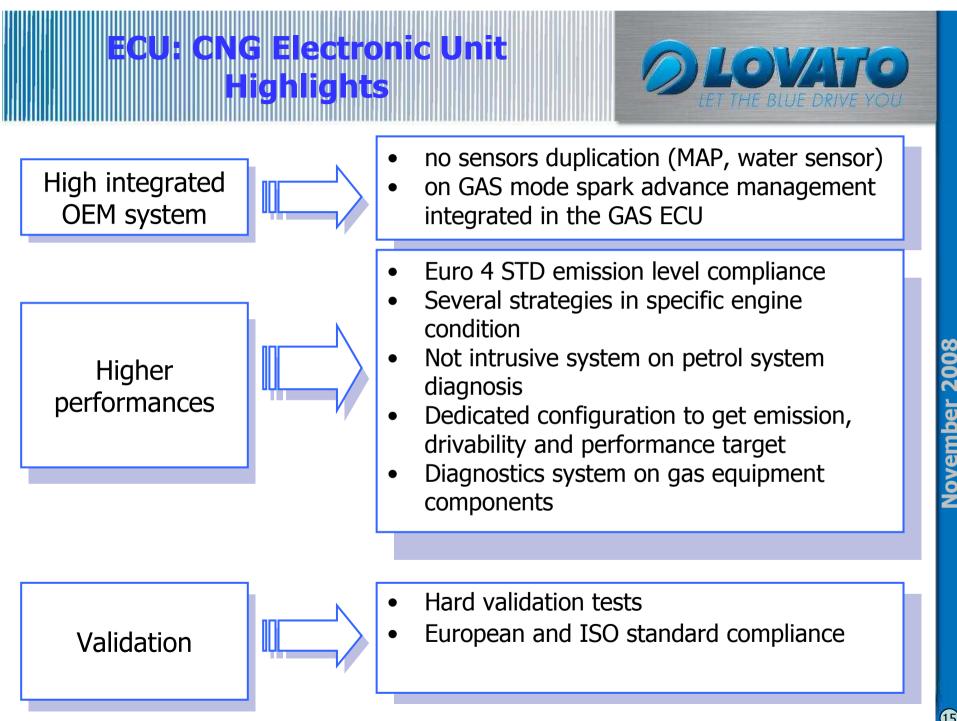
- Modular composition for easy fitment for every type of engine
- Nozzle size customized on the engine application
- High flow rate capacity
  - Low sensitivity to gas quality (oil and other impurities)
  - Low current consumption
  - High reliability (100 % on line tested)
  - Hard validation tests
  - European and ISO standard compliant





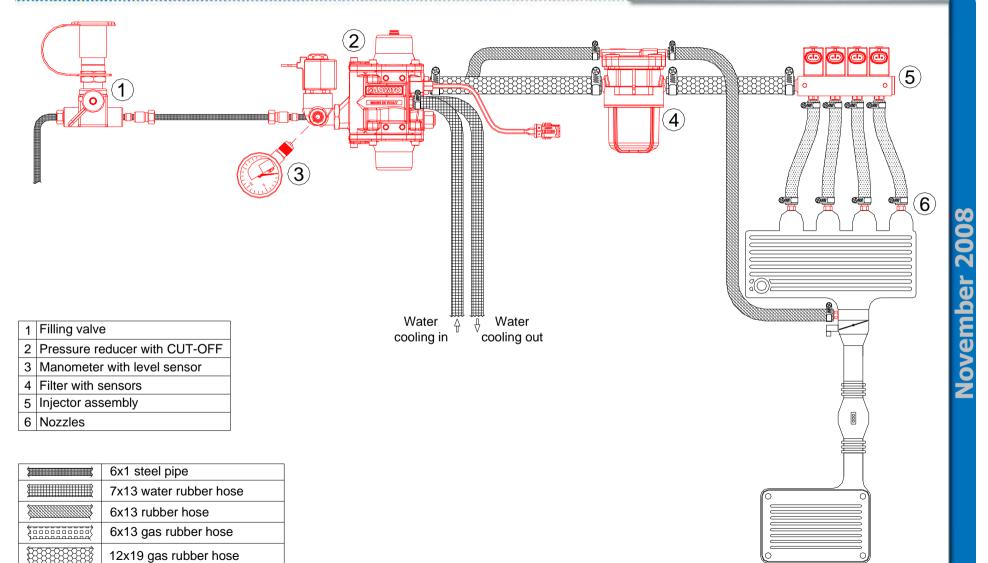
#### **Synoptic**



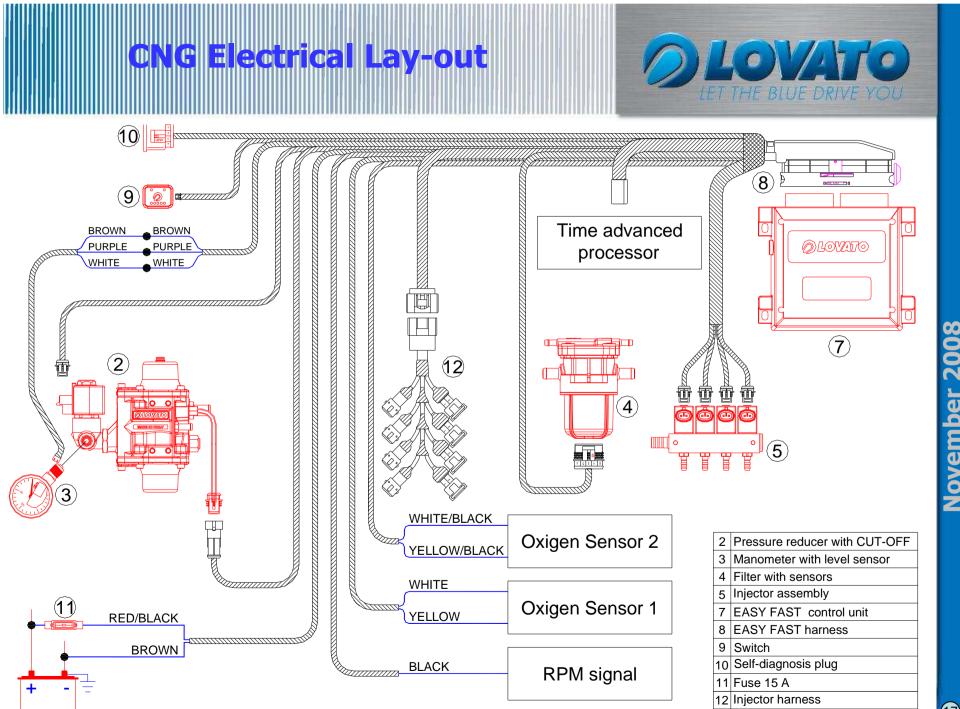


#### **CNG Pneumatic Lay-out**





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