

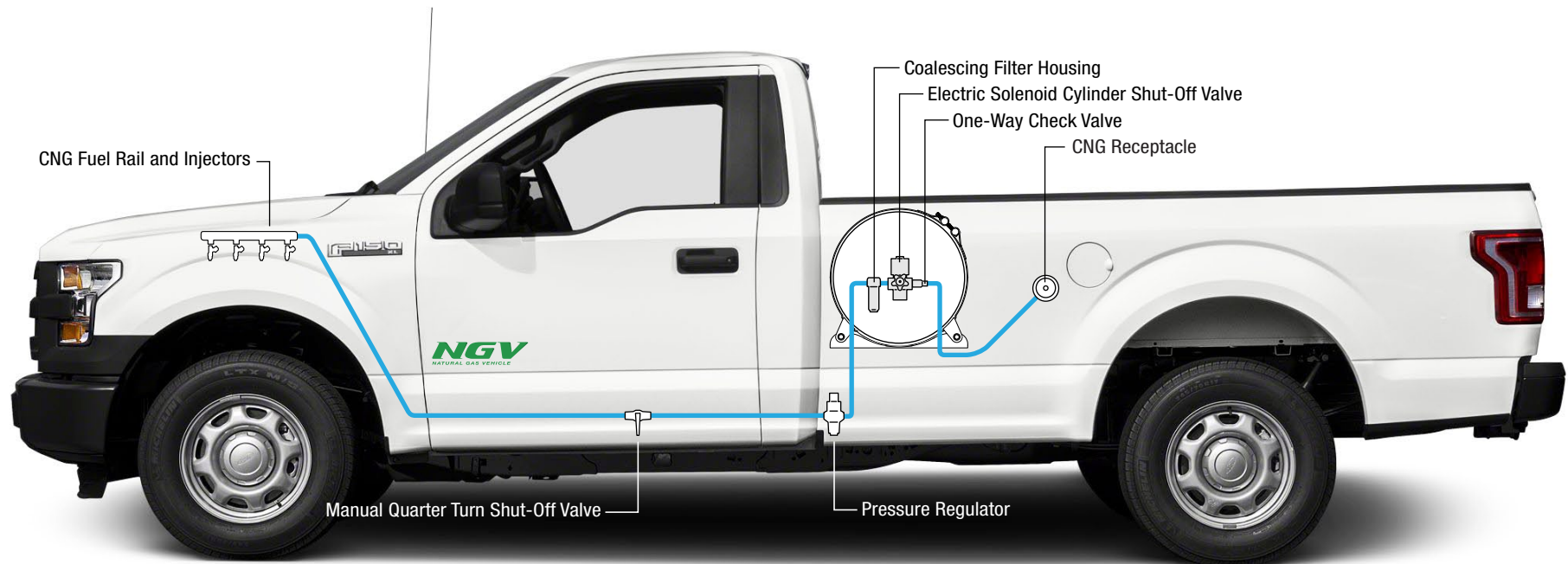
Ford QVM Approved CNG Systems



CNG Systems by Altech-Eco

How a Natural Gas System Works

- 1.) At the CNG fueling station the natural gas is compressed to 3600 psi. By using the CNG dispenser and connecting the nozzle to the receptacle on vehicle the natural gas enters the vehicle.
- 2.) It flows from receptacle through a one-way check valve, the electric solenoid cylinder shut-off valve and into the cylinder.
- 3.) When natural gas is needed by the engine, the electric solenoid shut-off valve opens and allows the flow of natural gas. This step is controlled by the Ford Engine Control Unit (ECU) and On-Board Diagnostics system.
- 4.) The natural gas then flows through a (10 micron) coalescing filter, which removes aerosol compressor oils, oil droplets, moisture and other contaminants from the natural gas.
- 5.) The natural gas now enters the pressure regulator, which reduces pressure from up to 3,600 psi to 80 - 100 psi.
- 6.) The natural gas flows through a quarter turn shut-off valve and low pressure fuel lines and enters the natural gas fuel rail, which supplies pressurized natural gas to all of the natural gas fuel injectors for engine.
- 7.) The Ford Engine Control Unit (ECU) makes all the decisions for the amount and timing of natural gas injectors supplying fuel to the engine. All natural gas calibrations are supplied by Ford QCM, this allows for a seamless integration with the Ford vehicle.



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