



VSI-3 DI Product introduction



VSI-3 DI system

Unique and future proof LPG system for latest DI engines up to Euro 6D emission standards. The system is equipped with AFC-3.0 DI computer and eVP-500 LPG reducer.

AFC-3.0 DI computer

Advanced ECU with integrated DI injector emulation and full limp-home functionality.

eVP-500 LPG reducer

Compact full electronic LPG reducer for low to high power engines which gives smooth and optimal driveability performance.





NEDC

New European Driving Cycle



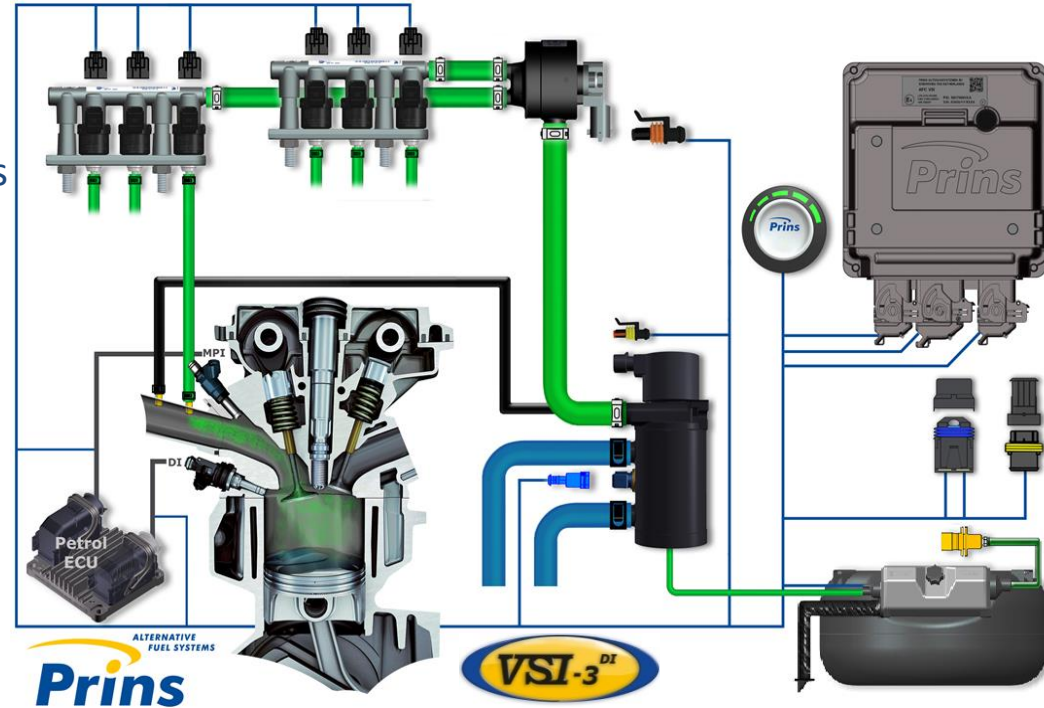
WLTP

Worldwide Harmonised Light
Vehicle Test Procedure



VSI-3 DI Unique Selling Points

- 🌱 For DI and DI-MPI engine technology
- 🌱 Minimal petrol consumption (<5%)
- 🌱 Maximum performance, lowest emissions
- 🌱 For vehicles including latest Euro 6D WLTP technology
- 🌱 New AFC-3.0 DI computer
 - Single AFC for 3 - 6 cylinder
 - Master-Slave for 8 - 12 cylinder
- 🌱 OEM quality LPG components
- 🌱 R115/EPA certified
- 🌱 Plug & Play wiring harness (optional)
- 🌱 ValveCare-DI (optional)





2 Versions:

- 4 Cylinder DI+MPI
[180/700040]
- 6 Cylinder DI+MPI
[180/700041]



DI-MPI compatibility



Full limp-home functionality



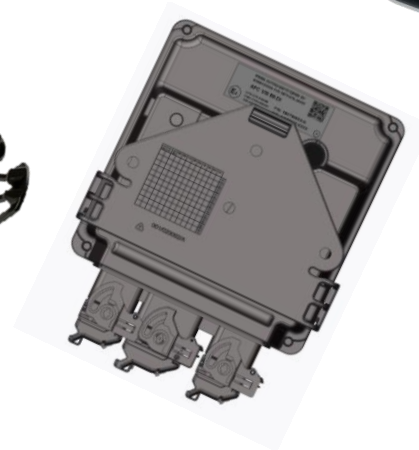
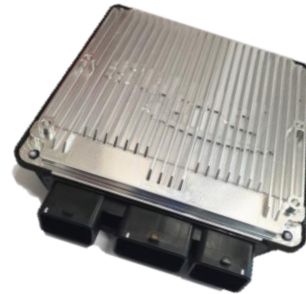
Future proof I/O design



OBD-CAN gateway







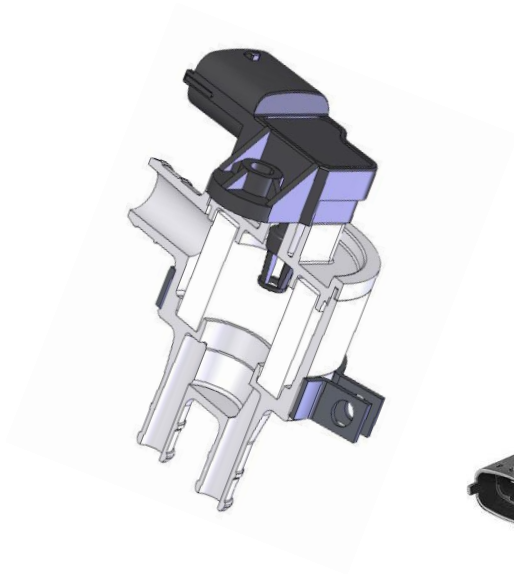
Flexible 3-way mounting system



- 🚗 Compact design
- 🚗 Lightweight housing
- 🚗 Integrated components
 - Lock-off-valve
 - Temperature sensor
 - Filter
 - Pressure Relief Valve (R67-01)
- 🚗 Flow capacity exceeding 500hp
- 🚗 Single step pressure regulation
- 🚗 Software regulated pressure
 - Adjustable pressure: 50-380kPa absolute
 - No pressure drift or peaks



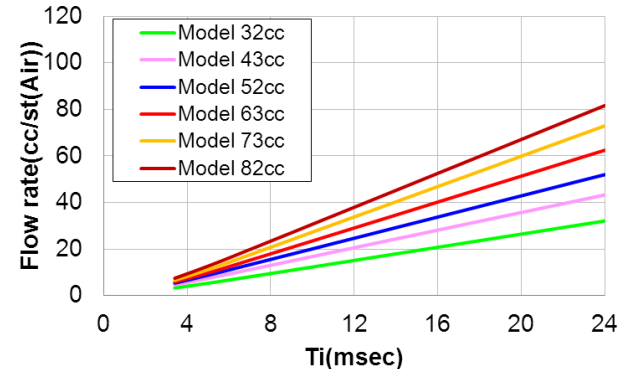
-  Compact design with single or dual delivery outlets
-  Fitted with 10-micron ($\beta_{10} > 75$) dry gas filter
-  Protecting the fine tolerance of the injectors from pollutants
-  Combined temperature and pressure sensor









 **BOSCH**



- Developed by Keihin Corp. Japan
 - Excellent linear ‘flow range’
 - Linear flow starting from 2,6 msec.
- 2% accuracy from min. to max. flow
- 7 injector sizes
- Engine capacities from 9 kW up to 45 kW / cyl.
- Lifespan exceeding 290 million cycles or 240.000 km
- Low coil resistance (1,25Ω)



-  Small and compact design suits all interiors
-  Fuel selection via smart touch control
-  Informs operator on LPG tank content
-  Audible buzzer to alert for an empty tank or fault codes
-  Illuminated fault code warning with LED
-  Fully programmable LED colors





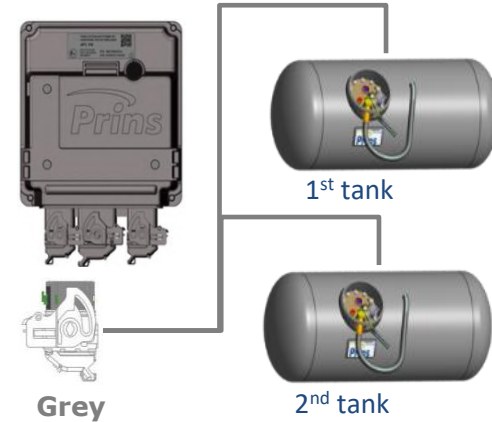
Multiple tank option

- Direct connection of tank valves and level sensors to AFC-3.0 DI without any relays
- Use identical tank level sensors for both tanks



Tank level sensor options

- Resistive
- Hall 2-wire 0-10 [V]
- Hall 3-wire 5 [V]





Protects and cleans

- Valves and valve seats
- DI Petrol injectors



Sequential electronic additive delivery



Dedicated blue Prins additive



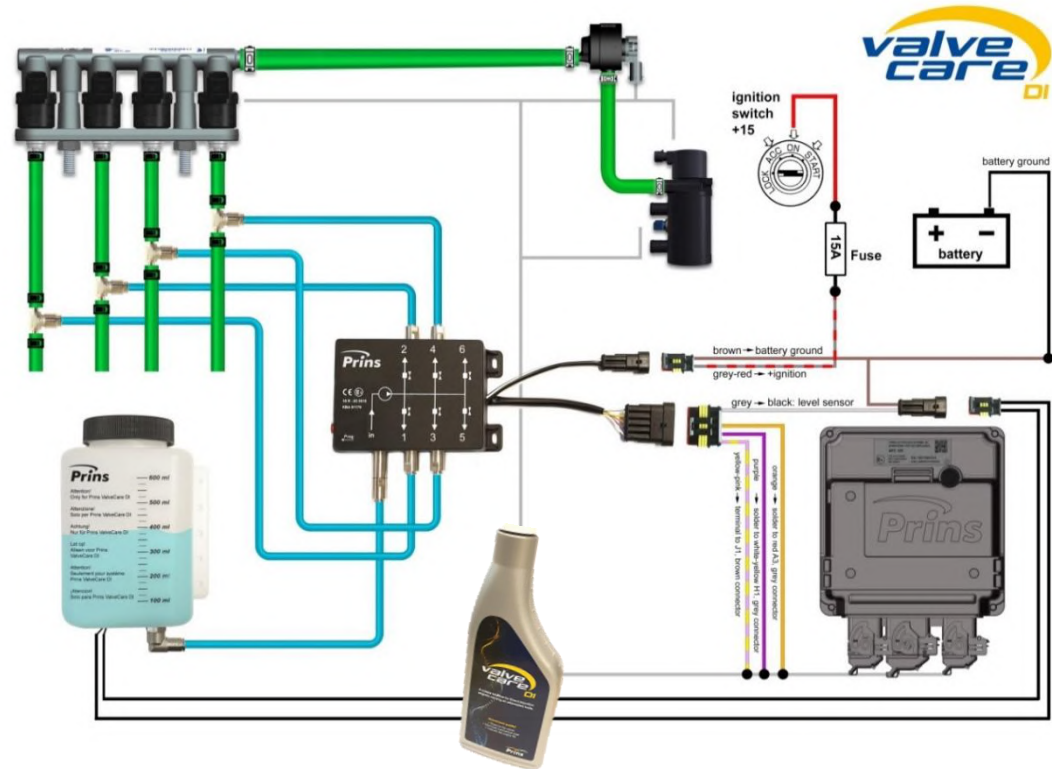
Easy installation (Plug & Play)



Easily refillable additive reservoir



Self-diagnosis





Cleans effectively

- Petrol injectors
- LPG and CNG injectors
- Inlet and valves (MPI engines)



Optimizes performance, reliability and fuel consumption



Prevents high repair costs



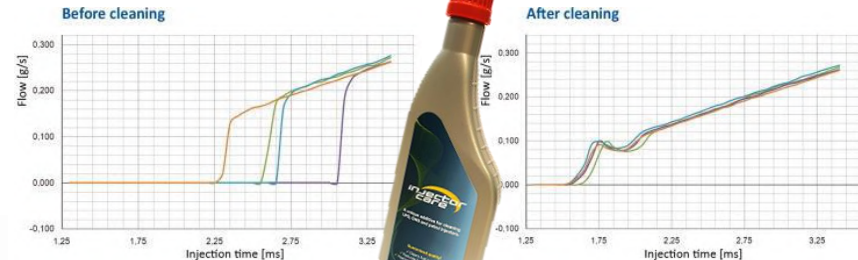
Quick and easy servicing procedure



Injector nozzle before cleaning



Injector nozzle after cleaning





Ford

- Transit 3.5 V6 Duratec 2020
- F-150 / Explorer 3.3 V6 Duratec 2018-2020
- Raptor / F-150 / Explorer 3.5 V6 Ecoboost Gen2 2017-2020



Renault / Nissan/ Dacia 1.3 TCE (Euro 6D)



Volkswagen Group 2.0 DI+MPI (Euro 6D)



Peugeot/Citroen 1.2 THP (Euro 6D) – **Expected Q4**



GM 1.4/1.5/1.6 DI 4 cylinder (Euro 6D)



Hyundai/Kia (Euro 6D)

- 1.0 T-GDI
- 1.4 T-GDI **Expected Q4**
- 1.6 GDI **Expected Q4**
- 1.6 T-GDI **Expected Q4**



FCA FireFly 1.3, 1.0 & 2.0 T-GDI (Euro 6D) **Expected Q4**



Volvo 2.0T VEP engine (B4204)



Land Rover Velar 2.0T (PT204)



Mazda 2.0 & 2.5 Skyactiv **Expected Q4**





**Thank you
for your attention**

