



**VSI-2.0**

## Discover the **VSI-2.0 system**

### **Advanced calibration possibilities** **Diagnostic software in native language**

The new Prins VSI-2.0 system is the latest development in alternative fuels. The system is an evolution of the VSI system which has proven itself over the last 15 years. The Prins VSI-2.0 system is available as an LPG as well as a CNG version and is also suitable for the latest generation Direct Injection engines.

The key components of the system are all of OEM quality and specially designed for LPG and CNG applications. All components comply with the strictest regulations and certifications. The installation of the components is easy due to their compact design.

The dedicated diagnostic software is unique and enables fine tuning the VSI-2.0 system for optimal performance and emission reduction. The software is available in your native language.

Different LPG or CNG tank options are available.

### **Important to know:**

- Adjustable LED colours of fuel selector for seamless integration with the dashboard
- Extensive diagnostic functions
- Integrated checklist for switch over procedure, so fast diagnostic
- Extended actuator test, possible to check/control every valve manually
- Modular Plug & Play wiring loom
- Possibility to manually set the tank levels
- Freeze frame information of the first 2 errors
- 32-bits ECU of OEM quality with integrated injector simulator
- One diagnostic tool for all Prins systems
- Pre-heated injectors to avoid sticking of the injectors at cold start
- Emergency gas start function integrated
- No RPM module necessary
- Sleep current ECU < 1 mA
- Complies with R67-01 and R115 regulations
- 3 years warranty
- Up to 16 Cylinders
- Suitable for Euro 5 and Euro 6

## **Components**

### LPG Reducer



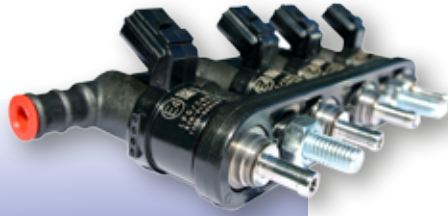
- High capacity, up to 250 kW
- Heavy duty coating
- System pressure control with single stage valve
- Very stable dynamic pressure behavior
- Adjustable pressure: 1,7-2,6 Bar
- Manifold reference function (MAP)
- Integrated temperature sensor ( NTC resistor R=2500 ohm at 20 °C)
- Pressure relief valve according to R67-01 regulations
- Flexible lock-off-valve both 6 and 8 mm

### CNG Pressure regulator



- Precision built 'Single Stage' regulator developed by Keihin in cooperation with Prins
- Based on OEM technology, quality and standards
- Integrated pressure relief valve
- Limited pressure drop level
- Manifold reference function (MAP)
- High performance also at low temperatures
- Wide range of connections possible at the valve inlet
- Internal and external CNG filter





## Injector rail

- Developed by Keihin Corp, Japan, one of the worlds' leading injector manufacturers, in cooperation with Prins, ensuring quality and reliability
- Excellent linear flow rate (LFR); linear behaviour from minimum to maximum flow
- Linear from 2,5 ms
- Model range available to cater for small and large engine displacement
- OEM quality injectors, performance guaranteed and long durability (290 million cycles)
- 2/3/4/5 cylinder assemblies



## Filter unit

- 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



## AFC 2 Computer

- The AFC 2 computer is the heart of the system and controls all the functions of the VSI-2.0 system for safety, switch over strategy, fuel quantity and diagnostics
- For up to 8 cylinders (up to 16 cylinders master/slave)
- Up to 3 regulators or tank valves (all PH controlled)
- CAN OBD connection in V2
- Calibration wizard function
- Split fuel
- Proven VSI-2.0 software!



## AFC Compact Pro

- The AFC Compact Pro version is suitable for up to 4 cylinders with identical software and hardware strategy to the proven AFC-2
- 1 Regulator valve + 1 Tank valve – Both PH controlled!
- CAN OBD connection
- Calibration wizard function
- Split-fuel
- Proven VSI-2.0 software!



## Fuel selector switch

- Small and compact design suits all interiors
- Fuel selection via smart touch control. Informs operator of LPG tank contents, audible buzzer to alert low level switching or fault codes plus illuminated fault code warning with LED
- Possibility to adjust LED colours



## Tanks

- Cylindrical and toroidal tanks available for LPG
- Cylindrical tanks available for CNG (steel or composite)



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### VSI-2.0 LPG system

