

Prins eVP-500 Reducer:

The Prins **e**lectronic **V**ariable **P**ressure (eVP) reducer is a patented state of the art product ready to transform the LPG market. Not only does the Prins **e**lectronic **V**ariable **P**ressure reducer surpass competitors in terms of capacity (eVP-500 supports 400-500hp), it also extends the benefits of an electronically controlled system like the VSI system by bringing the possibility to fully control the system pressure.

To convert new, extremely downsized DI engines the need to dynamically vary the system pressure in the LPG system becomes much more urgent. The Prins **e**lectronic **V**ariable **P**ressure Reducer is able to continuously adjust the system pressure to the demands of the VSI system by use of smart algorithms.

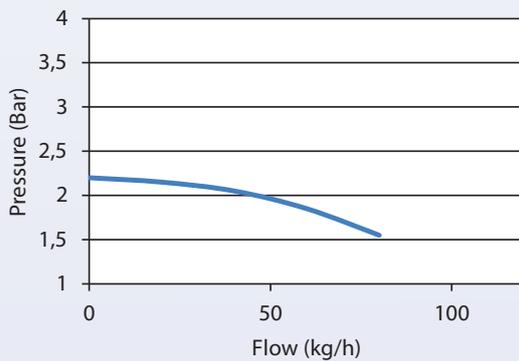
- Unique, patented, next-generation concept
- High performance (>300kW / 400-500hp) even at lower coolant temperatures.
- Fully dynamic output pressure (0 – 5.5 Bar)
- Pressure adjustment via software
- No pressure loss even at higher flows
- No fuel cut-off pressure peaks
- No pressure drift over time
- Compact design (slightly larger than a soft drink can)
- All connections made in the same direction for easy routing of hoses and cables
- Durable light-weight plastic housing
- No diaphragm (no humming, no diaphragm rupture)
- Replaceable filter (easily accessible from top)
- No MAP connection required
- Standard coolant temperature sensor
- Integrated safety pressure relief valve
- Pressure reducer also acts as lock-off valve



Technical Specifications:

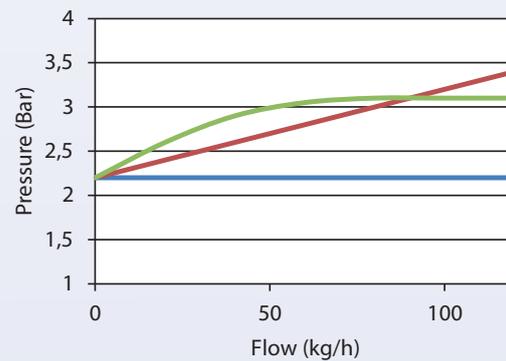
Type	Single stage electronic LPG pressure reducer
Fuel type	Liquefied Petroleum Gas (LPG)
Environment	Engine compartment
Weight	800g
Dimensions	Ø56mm x 142mm
Input pressure (Abs.)	300-2500 kPa
Output pressure (Abs.)	0-550 kPa/0-5 Bar adjustable (software limited between 50-350kPa/0.5-3.5Bar)
Fuel flow rate	>100 kg/h at 60°C ECT and 50 liter/min coolant flow
Pressure relieve valve	585 ±50 kPa (acc.to R67-01)
Operating temperatures	-40 to +125°C
Gas inlet	Different inlet adapters to support all markets
Gas outlet	16 mm hose connection (11/12 mm variant also available)
Coolant connections	(2x) 16mm hose connection
MAP Reference	Not required
Temperature sensor type	R-ntc at 20°C is 2500Ω
Certification	R67-01 approved

Conventional high flow reducer



- Pressure declines as flow increases
- Limited flow

Prins eVP-500



- Pressure is constant as flow increases
- Pressure can be increased as flow increases
- Very high flows possible