

# bosphorus



innovations

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Water/ Methanol Injection  
Highest Pressure Diaphragm  
Pump



## ⚙️ Features:

- Self-priming high-pressure diaphragm pump
- Air-free design ensures smooth, pulsation-free flow
- Adjustable pressure: **300 PSI (13.8 bar)**
- Flow rate: **2500 cc/min (150 LPH / 40 GPH)**
- Voltage range: **36V**
- Nominal current: **2.7A**, Max current: **10.8A**
- Constructed from durable **HDPE/ABS plastic, rubber, and steel**
- 100% methanol compatible – suitable for all alcohol/water mixtures
- No pressure cut-off switch → prevents oscillation and pressure spikes
- Internal bypass provides steady, constant flow
- Large **female ports**
- Low RPM motor design (as low as 60 RPM) ensures long lifespan
- Can safely operate dry for up to one hour
- Can accept a **50Hz PWM signal** for flow control

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## 🔑 Instructions / Safety Notes

1. All components — pump, lines, fittings, filler, flow sensor, tank, and nozzles — are **100% methanol compatible**.
2. **Methanol Resistance:** Equipped with **EPDM seals** for improved resistance against methanol degradation.
3. **Electrical Supply:** Ensure stable power between **36V** with proper fuse protection.

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## ⚠️ Application Note

1. **Operating Precaution:** The pump may run dry for a short period (up to 1 hour), but continuous dry operation should be avoided.
2. **Safety Limit:** Do not exceed **50% methanol concentration**.

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## 📦 Box Contents

1. High-Pressure Diaphragm Pump
2. Product Stickers
3. Installation Manual

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## 🔧 Installation Guide

- If no transfer pump is used → mount the injection pump below the tank in the luggage compartment.
- If transfer pump is used → injection pump can be mounted in the engine bay.
- Although the pump is self-priming, we recommend positioning the pump inlet **below the fluid level of the tank**, as vehicle movement and vibrations during driving may cause air to enter the suction line.

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## 🔌 Electrical Connections

### Color Function Section (mm<sup>2</sup>) Length

|       |          |   |       |
|-------|----------|---|-------|
| Red   | Positive | 1 | 30 cm |
| Black | Negative | 1 | 30 cm |

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## ⚠️ Instructions

**Disclaimer:** PRODIMAR LTD assumes no responsibility for any **engine damage or personal injury** resulting from improper installation or handling of methanol. Handle methanol with care — it is **toxic and highly flammable**.

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## Warranty

All Bosphorus Innovations products are covered by a 2-year warranty against manufacturing defects, valid from the date of delivery.

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## Company Info

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