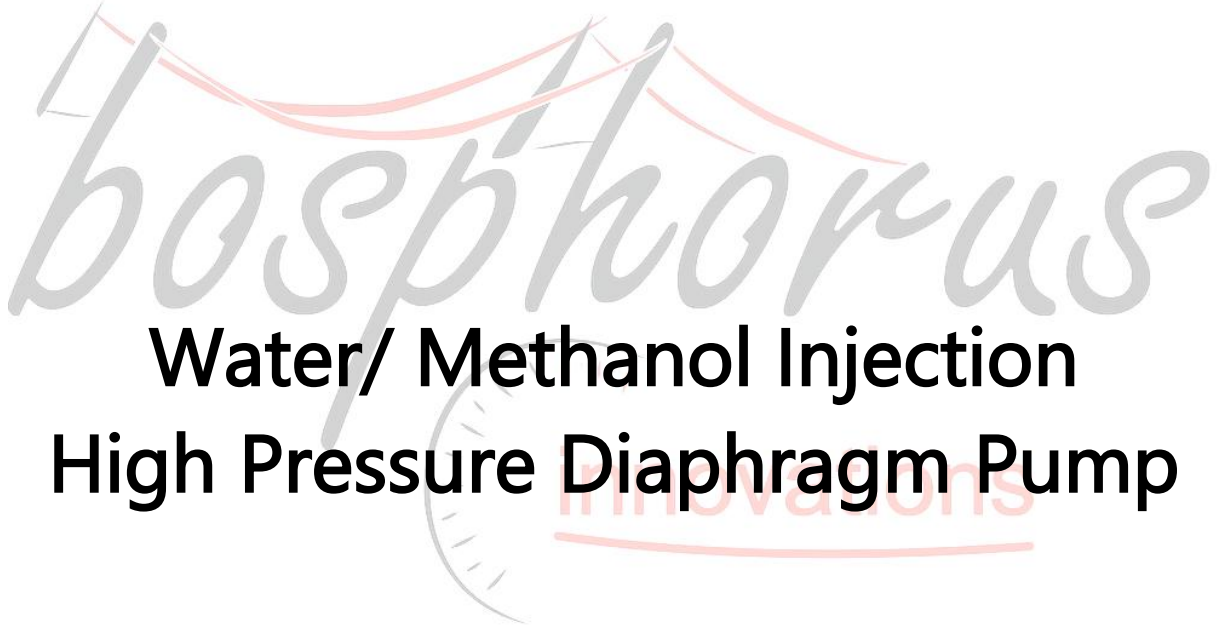




**Water/ Methanol Injection
High Pressure Diaphragm Pump**



⚙️ Features:

- Self-priming high-pressure diaphragm pump
- Air-free design ensures smooth, pulsation-free flow
- Adjustable pressure: **58 – 150 PSI (4–10 bar)**
- Flow rate: **2000 cc/min (120 LPH / 31.7 GPH)**
- Voltage range: **15V – 35V**
- Nominal current: **1A**, Max current: **4A**
- 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

🔑 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 **15V–30V** with proper fuse protection.

⚠️ 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**.

📦 Box Contents

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

🔧 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.

🔌 Electrical Connections

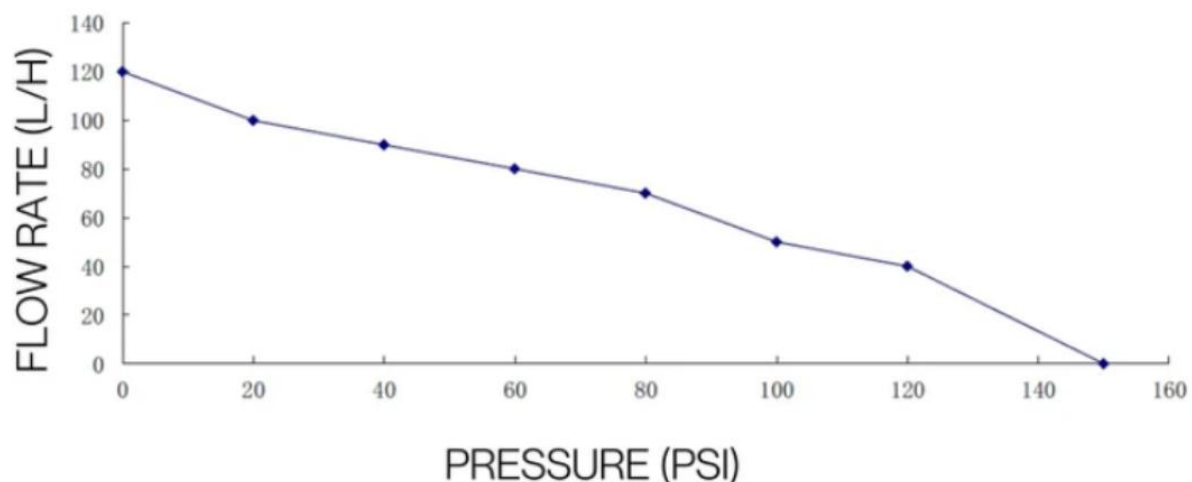
Color Function Section (mm²) Length

Red	Positive	0.50	30 cm
Black	Negative	0.50	30 cm

⚠️ 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**.

Flow Rate vs Pressure Chart for Water Methanol Injection Pump



The chart illustrates the relationship between outlet pressure and flow rate of the Water Methanol Injection Pump. As pressure increases, the flow rate decreases gradually—from approximately 120 L/h at 0 PSI down to 0 L/h at 150 PSI.



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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