

Product Datasheet: 2000ml/min Optima Series

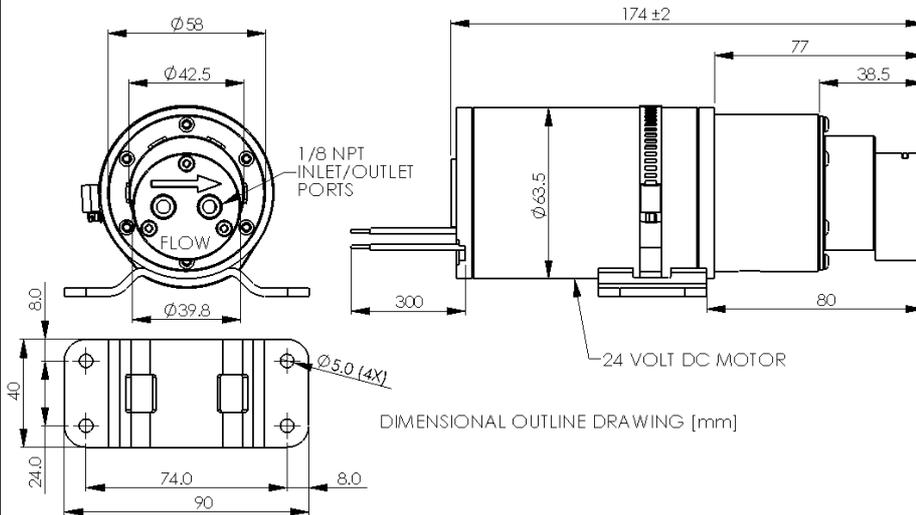
All Diener pumps are customized to suit your requirements: the information below represents one of the possibilities...



Pump shown with 1/8"-NPT face ports

The Optima series is designed for applications requiring accurate flow in a very small package size. The wetted materials and gear construction are the same as those of its larger cousins, but by removing one of the shaft bearings the overall length is much shorter. In addition, the magnetic coupling has been miniaturized to further reduce the overall length without sacrificing high-pressure performance. The inlet and outlet port locations can be located on the side, top, or end of the pump, and are available in a variety of sizes. The brush-style DC motor is oversized and gives excellent brush life at a relatively low cost.

- Magnetically Coupled: No seal leaks
- Positive Displacement: Pulse-less flow delivery across pressure range.
- Mounting Versatility: Adjustable base bracket mounting with a variety of porting styles/locations.
- Extremely Efficient: Very low power consumption
- Mounted to long-life brush-style motor



Specifications

Performance:

Max. continuous pressure: 4 bar
 Max. intermittent pressure: 6 bar
 Max. static case pressure: 20 bar
 Inlet: Self-priming
 Speed range: 0-3600 rpm
 Fluid viscosity range: 0.3 to 1000 cps

Electrical:

Supply voltage: 0 to 24vdc (vary voltage to vary motor speed).
 Rotation: Clockwise
 Max. current: 2.5 amps
 Max. output power: 60 watts
 2-wire PVC insulated leads: 18 AWG
 Color code: Black = ground, Red = +24vdc
 Motor rating: DIN VDE530

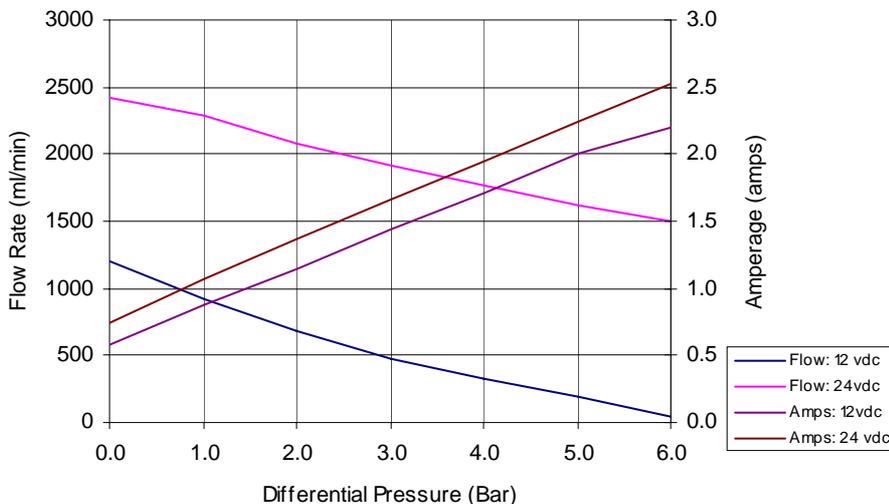
Temperature:

Fluid temp. range: -20 to +100°C
 Ambient air temp. range: 0-60°C
 Relative humidity range: 0-95% non-condensing

Construction:

Standard: 316L stainless steel, PEEK®, EPDM. Optional: 304 SS, Alloy-C, PPS, Teflon®, Silicone, Viton®, Kalrez®
 Inlet/Outlet: 1/8"-NPT (standard); Optional: 1/4"-NPT, G1/8, G1/4, exiting the side, top, or end of the pump.
 Marking: Permanent laser-mark identification for 100% traceability.
 Mass: 1.8 kg

Typical Performance Curve: Water at Room Temperature



None of the information supplied by Diener Precision Pumps constitutes a warranty regarding product performance or use. Any information regarding performance or use is only offered as suggestion for investigation for use, based upon Diener Precision Pump's or other customer experience. DPP makes no warranties, expressed or implied.