

Product Datasheet: 1000ml/min Extreme Series

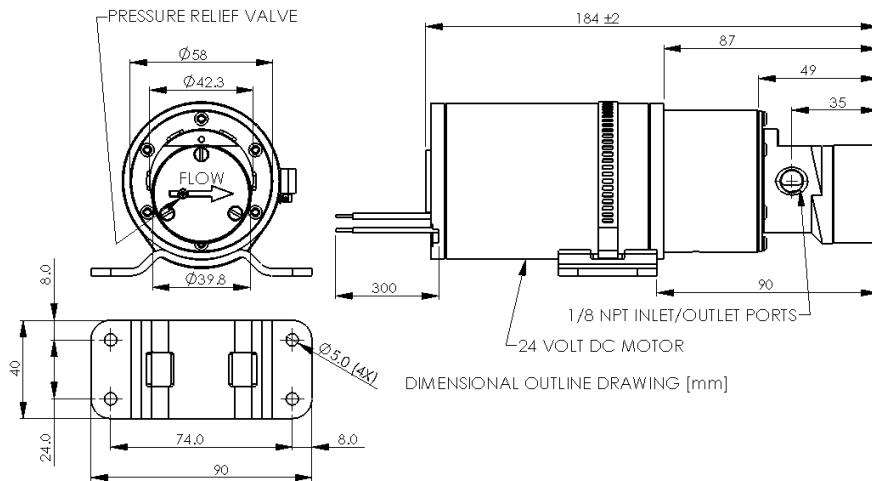
All Diener pumps are customized to suit your requirements: the information below represents one of the possibilities...



The flagship of our product line, the Extreme series is where it all started. It contains more bearings for higher load-carrying capacity, resulting in long life at relatively high pressures. The innovative body forging allows a wide range of inlet/outlet port locations, simplifying the plumbing and conserving valuable space. The conventional magnetic coupling strength can be varied to meet your pressure limits, and an optional internal pressure relief valve provides additional over-pressurization protection. The brush-type DC motor is oversized and gives excellent brush life at a relatively low cost.

Pump shown with 1/8" NPT side ports, adjustable base mounting bracket, and optional internal pressure relief valve.

- Magnetically Coupled: No seal leaks
- Positive Displacement: Pulse-less delivery across pressure range.
- Inert Construction Materials: Compatible with wide range of fluids
- 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 DC motor



Specifications

Performance:

Max. continuous pressure: 5 bar
 Max. intermittent pressure: 7 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: 3 amps
 2-wire PVC insulated leads: 18 AWG
 Color code: Black = ground, Red = +24vdc
 Motor rating: DIN VDE530

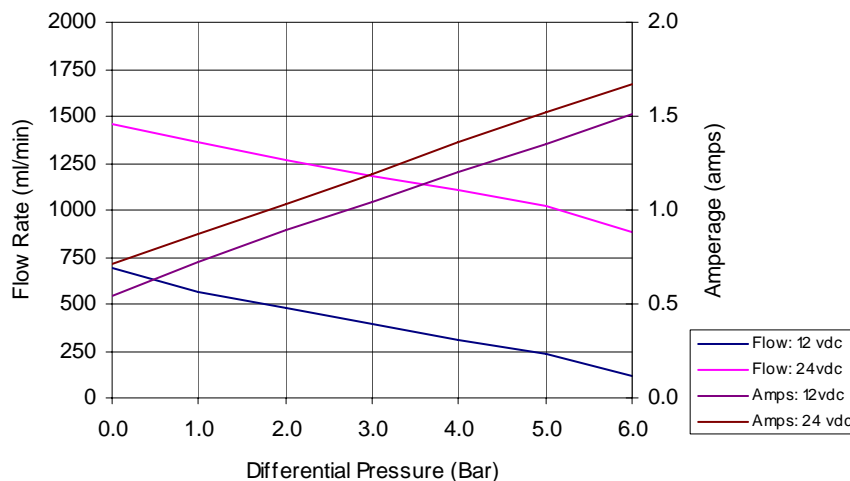
Temperature:

Fluid temp. range: -20 to +100°C
 Ambient air temp. range: 0-40°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.
 Internal Pressure Relief Valve: Optional
 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