

Product Datasheet: 1000ml/min Extreme Series

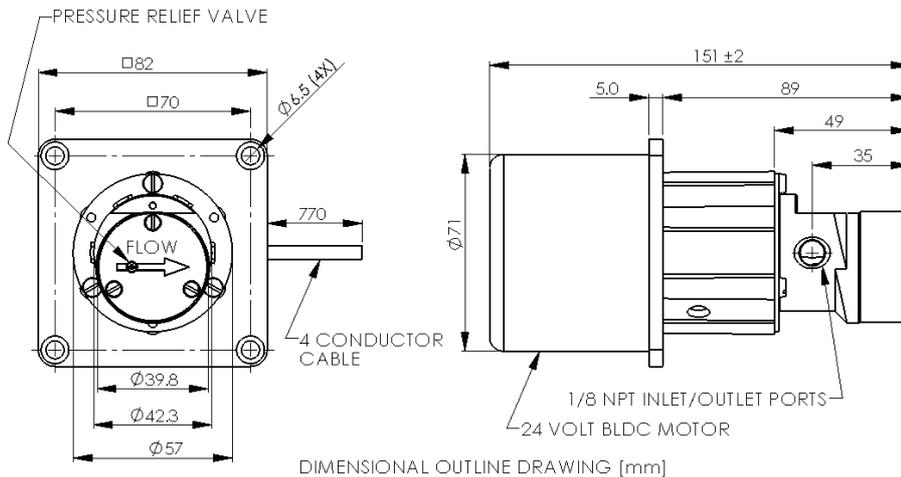
All Diener pumps are customized to suit your requirements: the information below represents one of the possibilities...



Pump shown with 1/8" NPT side ports and optional internal pressure relief valve.

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 brushless DC motor is fitted with both current-limiting and thermal over-protection, and it's IP-55 rating means reliable operation in harsh environments.

- Magnetically Coupled: No seal leaks
- Positive Displacement: Pulse-less delivery across pressure range.
- Inert Construction Materials: Compatible with wide range of fluids
- Mounting Versatility: Motor flange mounting with a variety of porting styles/locations
- Extremely Efficient: Very low power consumption



Specifications

Performance:

Max. continuous pressure: 5 bar
 Max. intermittent pressure: 6 bar
 Max. static Case pressure: 20 bar
 Inlet: Self-priming
 Speed range: 300-4500 rpm
 Fluid viscosity range: 0.3 to 1000 cps

Electrical:

Supply voltage: 24vdc
 Speed Control: 0-5vdc
 Tach. Output: 5 volt TTL, 2 pulses per revolution.
 Rotation: Clockwise
 Max. current: 1.9 amps
 Current Overload Protection: 2 amps
 4-conductor Teflon cable: 24 AWG
 Color code: Black = ground, Red = +24vdc, Green = Tach. Output, White = 0-5 vdc speed control
 Motor rating: IP-55

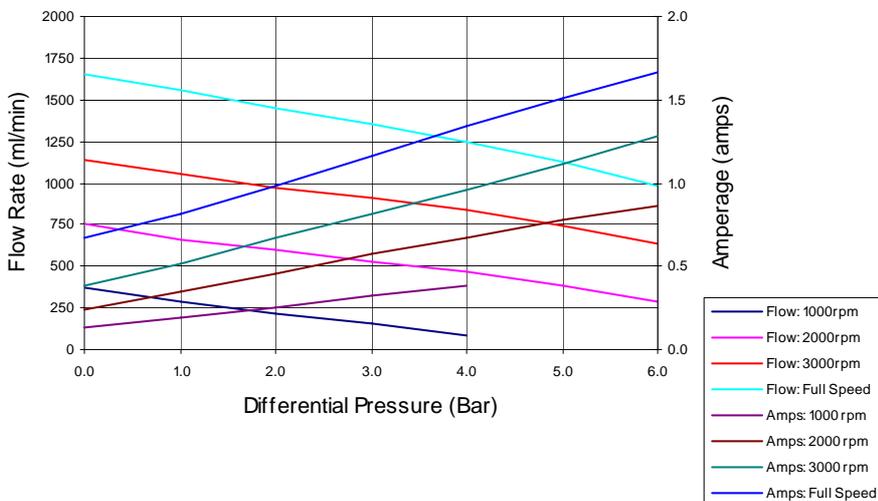
Temperature:

Fluid temp. range: -20 to +100°C
 Ambient air temp. range: 0-60°C
 Thermal protection: Internal thermal sensor off at 90°C, resets at 80°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: 1.3 kg

Typical Performance Curve: Water at Room Temperature



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