

Product Datasheet: 300ml/min Mini Series

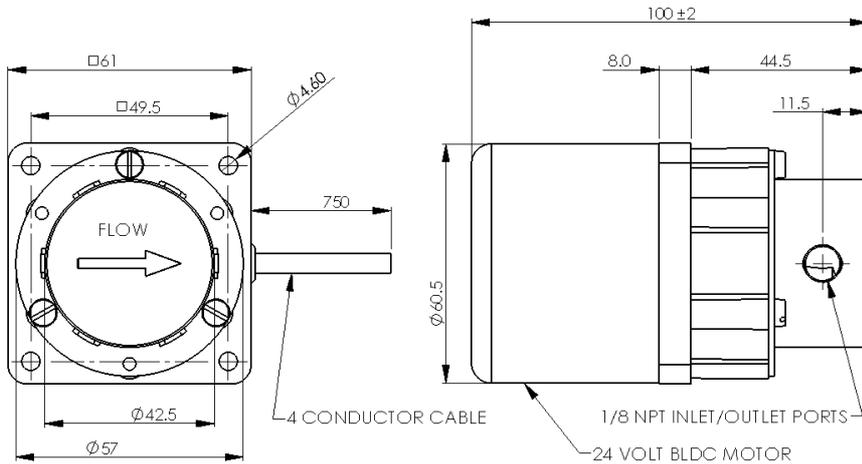
All Diener pumps are customized to suit your requirements: the information below represents one of the possibilities...



Pump shown with 1/8"-NPT side ports

The Mini 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 the gears rotate on a fixed shaft, saving valuable space. 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-less DC motor has an integral flange allowing bulkhead mounting, and its IP34 rating ensures it will stand up to harsh environments.

- Magnetically Coupled: No seal leaks
- Positive Displacement: Pulse-less flow 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



DIMENSIONAL OUTLINE DRAWING [mm]

Specifications

Performance:

Max. continuous pressure: 4 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, 4 pulses per revolution.
 Rotation: Clockwise
 Max. current: 0.8 amps
 Current Overload Protection: 1.8 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-34

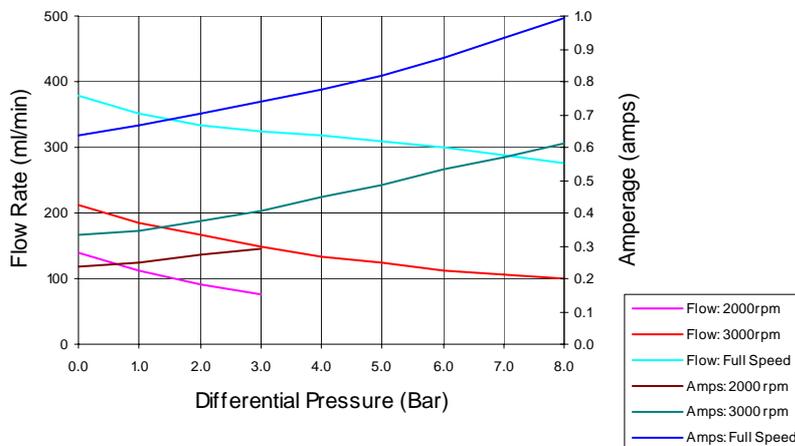
Temperature:

Fluid temp. range: -20 to +100°C
 Ambient air temp. range: 0-40°C
 Relative humidity range: 0-95% non-Condensing
 Thermal protection: Internal thermal sensor off at 90°C, resets at 80°C

Construction:

Standard: 316L stainless steel, PEEK®, EPDM. Optional: 304 SS, Alloy-C, PPS, Teflon®, Silicone, Viton®, Kalrez®
 Inlet/Outlet: 1/8" NPT (standard); Optional: 1/4-28 UNF, 1/4"-NPT, G1/8, G1/4, exiting the side, top, or end of the pump.
 Marking: Permanent laser-mark identification for 100% traceability.

Typical Performance Curve: Water at Room Temperature



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