SILENCER LD SERIES GEAR PUMPS





The Silencer LD is an economic solution for lighter duty applications not requiring the extreme capabilities of the Silencer series but still providing a durable, leak-free, reliable, chemically inert and quiet solution.

The space-saving design offers customers multiple port options for easy installation. Custom casting designs can be created for higher volume OEM needs. A magnetic coupling ensures the pump will never leak, and high-quality wetted materials are chosen to withstand a wide range of aggressive chemicals.

The Silencer LD Series - Engineering Your Flow.

- > Life Science Analytical Diagnostics
- > Bulk & Sample Fluid Transfer
- > Dialysis Degas and Dialysate
- > Fully Automated Coffee Machines
- > Continuous Ink Jet Printing
- > Industrial Cooling

Benefits



Low Cost: Not all applications require maximum pump capability. Silencer LD has been optimized to lower cost while still providing superior Diener quality and reliability.



Long Life: DPP pumps are all characterized by their robustness and performance. Wear and tear is at its lowest, and their smart designs ensure a sustainable reduction of operating costs.



100% Outgoing Test: Before any pump leaves our factory, it is stringently and extensively tested in accordance with its specifications. Our customers receive detailed test reports, to confirm performance.



Chemically Resistant: Our pumps are made from materials resistant to a wide range of aggressive chemicals, operating reliably and precisely in even the harshest environments.



Low Pressure Pulsation: Thanks to their smart drives and innovative helical gear design, our pumps ensure extremely smooth fluid delivery with almost no pressure pulsation.



No Shaft Seals: DPP gear pumps are hermetically sealed instead of using conventional shaft seals. This means low maintenance for you and your customers, a long service life and the highest degree of productivity.

Specifications*

Performance

Max. continuous pressure:4 barMax. intermittent pressure:6 barMax. static case pressure:15 barFlow Rate(see pages 4-5)Inlet:Self-primingFluid viscosity range:0.3 - 1000 cps

Temperature

Fluid temperature range: 0-95°C
Ambient air temp. range: 0-80°C
Relative humidity range: 0-95% non-condensing

Construction

Metal components: 316L stainless steel
Gears: PEEK
O-ring options: EPDM, Silicone, FKM, Nitrile
Inlet/Outlet: 1/4" & 6mm Push Connect, 1/8"-NPT, G1/8,
1/4"-28 UNF
Marking: Permanent laser-mark

*Performance values are limits and cannot all happen simultaneously.

Please contact your sales engineer for further technical information and customized options.



identification for 100% traceability

Contact Tel.: Switze

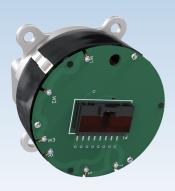
Switzerland: +41 44 866 72 72 switzerland@dpp.swiss USA: +1 209 365 0405 usa@dpp.swiss China: +86 21 64958516 china@dpp.swiss

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Product Datasheet

Motor Options

12 & 25W Basic BLDC



Centralize controls away from the pump onto an OEM circuit board. This gives the customer maximum flexibility and may reduce overall costs.

Specifications

Supply Voltage: 24 vdc
Rotation: Bi-directional
Control Options: Customer provided

Max. Current: 2 amps

Feedback: Hall sensors

IP Rating: Parylene-C splash

protection

Electrical Board-mounted Connection: connector, flying

leads or custom

Total Pump Mass: 0.35 to 0.45 kg

12 & 25W Smart BLDC



On board control simplifies electronics for the customer. Supply 24 vdc power and a 0-5 vdc control and let the pump do the rest.

Specifications

Supply Voltage: 24 vdc
Rotation: Bi-directional
Control Options: 0-5 vdc

PWM Potentiometer

Max. Current: 1.6 amps

Feedback: Tachometer

IP Rating: Parylene-C splash

protection

Electrical Board-mounted Connection: connector, flying

leads or custom

Total Pump Mass: 0.40 to 0.50 kg

DIENERPrecision Pumps

35W Advanced BLDC



Our most advanced motor offers numerous control options including RS-485 digital communication. Delivered power of 35W in a compact design rivals any stator option on the market.

Specifications

Supply Voltage: 24 vdc

Rotation: Bi-directional

Control Options: 0-5 vdc

PWM

RS-485 Digital Pre-programmed

Max. Current: 2.0 amps

Feedback: Tachometer

Digital: Speed &

Current IP Rating: IP55

Electrical Flying leads or

Connection: custom

termination

Total Pump Mass: 0.75 kg

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Pump Sizes



Various pump displacements are easily achieved by changing the gear width or tooth profile, all while maintaining the same envelope diameter. Performance values are limits and cannot all happen simultaneously. See flow curves for more information.

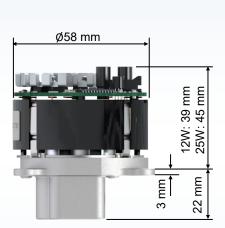
	Silencer LD 250	Silencer LD 500	Silencer LD 1000	Silencer LD 1500	Silencer LD 2000
Maximum Flow Rate (ml/min)	340	700	1600	2200	3700
Maximum Pressure (bar)	6	6	6	6	6

Dimensional Outline



12W: 34 mm 25W: 40 mm

Smart BLDC



Advanced BLDC



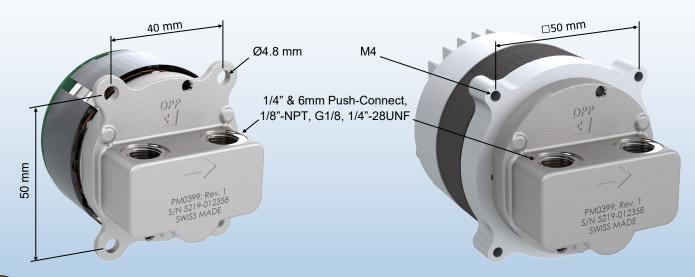
Basic & Smart BLDC

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Advanced BLDC





3D models available at www.dpp.swiss

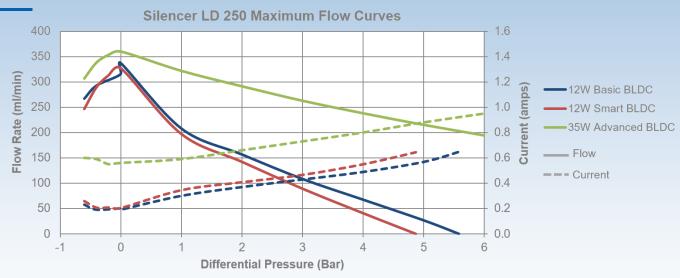
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Performance

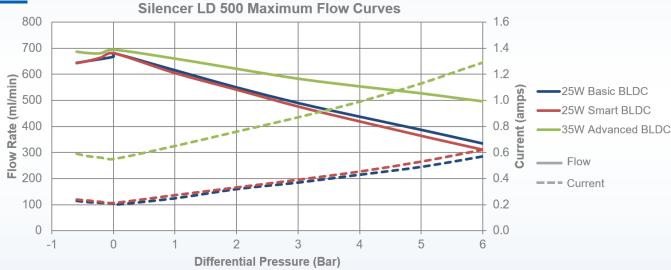
Data represents performance pumping water at room temperature



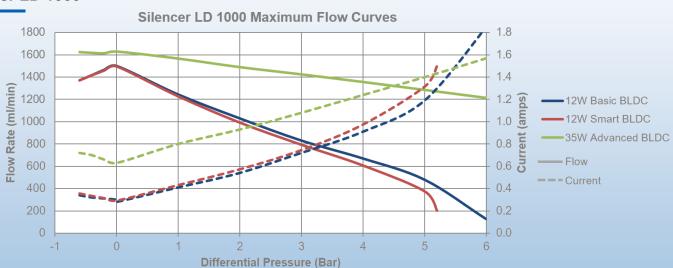
Silencer LD 250



Silencer LD 500



Silencer LD 1000



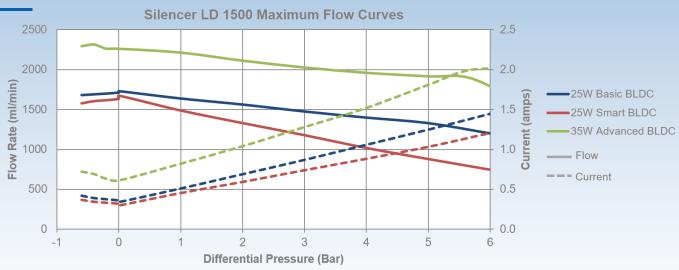
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Performance

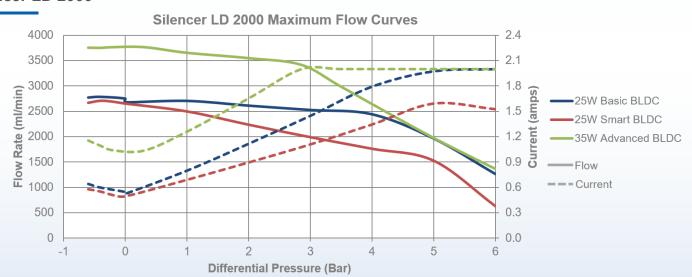
Data represents performance pumping water at room temperature



Silencer LD 1500



Silencer LD 2000



DPP is certified to ISO 9001 and operates a clean-room according to ISO Class 7. All pumps are customized; the information given represents one of the possibilities.

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 a suggestion for investigation for use, based upon Diener Precision Pump's or other customers' experience. DPP makes no warranties, expressed or implied, concerning the suitability or fitness of any of its products for any particular purpose. It is the responsibility of the customer to determine that the product is safe, lawful and technically suitable for the intended use. The disclosure of information herein is not a license to operate under, or a recommendation to infringe upon any patents. All new DPP product developments are tested and confirmed according to the «ROHS Directive».

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