

6313 / 6323

Liquid Diaphragm Series

Small liquid pumps

BIG performance



LIQUID DIAPHRAGM SERIES

Optimized Liquid and Gas Transfer with the 6313 and 6323 Pumps

Thomas presents the Mixed-Operation Diaphragm Series, pumps engineered for peak performance that will meet even the most stringent transfer needs. Our 6313 and 6323 series are designed to provide you with a seamless experience in transferring liquid, gas, or both simultaneously, ensuring that your operations are as smooth as your flow.

The **6313 series** is a proven and established product. With a focus on providing you with a pump that not only meets but exceeds your expectations, this series offers a range of motor options, ensuring that you have the right product for your specific needs.

Building on the solid foundation of the 6313, the **new 6323 series** introduces a double head design that enhances your operational capacity. Launched in September 2024, this innovative series brings a new level of efficiency to your workflow.

TECHNICAL FEATURES

The 6313 and 6323 series liquid diaphragm pumps from Thomas incorporate a range of features designed to meet the rigorous demands of industrial fluid and gas transfer with precision and durability:



- **Size-to-Performance Ratio:** Engineered for maximum efficiency, these pumps deliver a high output relative to their compact size, making them suitable for applications where space is at a premium without sacrificing performance.



- **Valve and Diaphragm Lifespan:** The components are built for longevity, ensuring a long operational life and reducing the frequency of replacements, decreasing downtime.



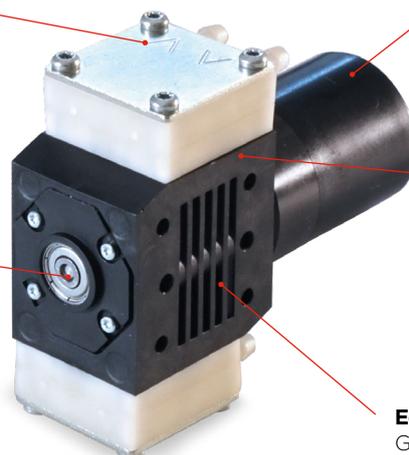
- **Quix Valve Design:** Optimized for mixed-media applications, the Quix Valves provide exceptional fluid handling capabilities, making the transfer of both liquids and gases efficient and reliable.



- **Mixed-Media Performance:** Both series are specifically designed to excel in applications that involve the handling of diverse media, offering consistent and effective performance.

Pump Head:
Can be rotated by 90° on each side to ensure an easy tube management

A **Counter Bearing** protects the motor from higher force, caused by higher pressures on the diaphragm



Motor:
With a wide motor program, both 6313 & 6323 Series ensure to fulfill your needs including
- BLDC High Performance
- BLDC Performance
- BLDC Standard
- DC Standard

Material:
Several different Material options for Diaphragm / Valve or Pump Head are available, ensuring media compatibility.

Eccentric:
Generates the stroke and has a major impact on the Performance.
Several versions are available upon request.

PRODUCT CONFIGURATIONS

• Head Configurations:

You can choose between single or double head options to match your flow rate and pressure requirements.

• Tube Connections:

A selection of connections including hose barbs with additional options available upon request to accommodate various tubing and Manifold requirements.



and compression fitting DN4/6



• Materials:

- Diaphragms are available with EPDM or PTFE for increased chemical compatibility.
- Valves are available with EPDM or FFKM for increased chemical compatibility.



EPDM

PTFE

MOTOR CONFIGURATIONS



6323 BLDC HP:

- Features advanced speed control via PWM and DC control voltage.
- A tachometer output signal is also included for real-time speed feedback.
- Enhanced with tachometer overload protection that automatically resets, safeguarding the motor from overheating.
- Reverse supply voltage protection to prevent potential electrical damage.



6313 BLDC S:

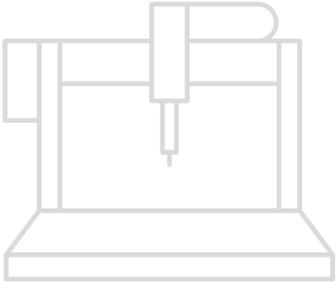
- Offers precise speed control through Pulse Width Modulation (PWM) and control voltage.
- Equipped with a tacho output signal for monitoring motor speed.
- Includes locked rotor protection to prevent damage during potential stall conditions.



6313 DC S:

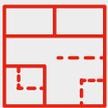
- A cost-effective brushed DC motor version that provides reliable performance for budget-conscious applications.

INDUSTRIES & APPLICATIONS

In-Vitro Diagnostics 	Printing 	General Aspiration 
Clinical diagnostics waste removal 	Continuous inkjet printing 	Dental milling machines 

ADVANTAGES & BENEFITS

Thomas' 6313 and 6323 series liquid diaphragm pumps are engineered to deliver performance and reliability, providing a range of advantages:



- **Space-Efficient Operation:** Their compact design allows easy operation in space-constrained environments.



- **Durability and Lifespan:** A robust construction ensures high reliability, allowing the pumps to withstand the demands of continuous industrial use and match the expected lifetime requirements.



- **Precision Manufacturing and Customization:** A high-precision production process and a rigorous quality control results in pumps that consistently exceed industry standards for performance and longevity. With customer-specific end-of-line testing, each pump is tailored to meet the precise operational requirements.



- **Seamless Integration:** A strict qualification process allows for straightforward integration into existing systems, reducing setup times and simplifying the overall installation process.



- **Cost Efficiency:** Optimized for much lower maintenance costs throughout the product's lifetime, these pumps represent a smart investment for businesses looking to minimize operational expenses.

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THOMAS is a leading manufacturer of systems, compressors, vacuum, and liquid pumps for Original Equipment Manufacturers (OEMs) in the medical, laboratory, environmental and industrial sector.

With its experienced Engineering, Technical, and Operations staff and capabilities, Thomas designs and manufactures customized pressure and vacuum solutions that meet the precise needs of its customers. Backed by over 60 years of engineering excellence and innovation, and a global manufacturing network, Thomas stands out as the reliable choice for OEMs worldwide.

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