

GLH SERIES PUMP

ROBUST MAGNETIC DRIVE
PUMPING SOLUTION



MICROPUMP®





GLH SERIES

OPTIMIZED FOR RELIABLE PERFORMANCE AND LONGEVITY IN SEVERE DUTY ENVIRONMENTS.

From petroleum to medical applications, the versatile GLH Series Mag-Drive pump head is the go-to pump family for zero leak tolerance and precise, consistent flow control. The newly updated GLH Series offers a streamlined product portfolio to provide a wider performance set with improved replacement part uniformity for convenience and less downtime.

Leak-free Components

- Designed with our magnet drive, no shafts penetrate the pump chamber wall, dramatically reducing potential leak paths
- No dynamic shaft seals

Accurate, Reliable Performance

- Positive displacement gear pumps provide excellent flow control, even with varying differential pressure
- Pulseless flow for high accuracy
- Competitive repeatability, reliability and longevity

Maintenance Ease

- Order to fit NEMA or IEC-compatible motors
- Compatible wetted material options:
 - Base Material: SS316
 - Gears Material: PEEK or PTFE
 - Seal Material: VITON or PTFE
- Streamlined product portfolio means fewer replacement parts to stock

Specifications

- Displacement: 4.6 ml/rev (H21) | 6.2 ml/rev (H23) | 7.7 ml/rev (H25)
- Flow Max: 7.0 GPM (26,565 mL/min) at 3,450 rpm
- Flow Min: 0.6 GPM (2,270 mL/min) at 500 rpm
- Max Differential Pressure: 125 psi (8.6 bar) [50 psi with PTFE gears]
- Max System Pressure: 1,500 psi (103.4 bar)
- Max Temperature: 121° C (50° C with PTFE gears)
- Min Temperature: -29° C

APPLICATIONS

GLH Series Mag-Drive Pump Heads in Action

The newly streamlined GLH Series features a wide performance range for diverse applications, including:

- Chemical addition/injection
- Petroleum pilot plant distribution
- Wastewater treatment
- Mechanical seal flush
- Medical diagnostic equipment
- Chemical addition/injection

LEARN MORE

Explore how the GLH Series Pump from Micropump® can bring leak-free precision and reliability to your fluid applications: Micropump.com.

Contact your local distributor for more information about how your current pump heads line up with the new GHL Series.

SUCCESS CASE

GLH Series Offers Reliability and Quick Turnaround for Refinery System Designer

Pump reliability and lead time are critical in barrier systems to the petroleum refinery market. Due to the market influence and slowdowns in Middle Eastern refinery development, refinery customers today must prioritize cost effectiveness in order to remain competitive and yet cannot compromise on performance and service. That's why they depend on Micropump and the GLH Series.

In a typical customer application reliability is the most important system design consideration. Closed loop hydraulic barrier systems often include two pumps, one operating 24/7 and a spare. Downtime is simply not an option. Should the mechanical seal fail, main pumped liquid can wash back into barrier fluid system. This could cause system pressure up to 100 bar and 250 C, conditions the Micropump was specifically designed to withstand. Quick turnaround on spare parts are also necessary, which Micropump's Global distribution partners help ensure.

The pump's functional goal is to maintain constant temperature and flow through the mechanical main seal. This barrier system experiences 40 to 100 bar system pressures and requires flow of 22 to 35 Lpm with delta P at 5 bar on average.

Barrier systems primarily handle petroleum-based heat transfer fluids, but also water-based and water/glycol fluids. Fluid viscosity is application dependent, and the average temperature 80° C. These customers look to Micropump to provide a robust pump solution with the ability to manage differing fluid cleanliness. They also value the ability to procure pump and motor combinations, with the flexibility to meet the customer's motor compliance specifications and fit a variety of motor sizes.

Beyond performance and compatibility, lead time is a practical and important consideration for system designers. System design and installation process can take six months to a year, yet lead times are ideally within six weeks on most projects.

Micropump's GLH Series meets both the logistical and performance needs of the refinery system designer. The series' range of materials, flow rates and temperatures gives design engineers flexibility within one product family to adapt to customers' individual applications.

In the field, the GLH Series has proven highly reliable for circulating the liquid in a closed circuit. The precision positive displacement pump provides the cooling liquid flow smoothly and efficiently. When used for cooling processes Micropump products show excellent longevity.



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ACTUAL PERFORMANCE MAY VARY. Specifications are subject to change without notice.