

## Any mag drive you want, we got it.... The Verdermag GPMD and GLMD Series



The GPMD/GLMD models are mid capacity mag drive pumps with a very good price/quality relation. The pumps are available in PP and ETFE (GPMD) and in ETFE lined cast iron casing (GLMD). In general design the GPMD- and GLMD models do have some interchangeable parts when comparing ETFE built versions.

Most major storage of concentrated chemicals is done in tank farms, located outside of the production facilities for safety and logistical reasons. The GLMD/GPMD pumps are used to pump these liquids into the plant, where the liquids are used for production. The majority of liquids are: Acids, like Hydrochloric acid, Sulphuric acid, Nitric acid, Phosphoric acid and Bases, like Sodium hydroxide, Potassium hydroxide etc. from virtually zero to full concentration.

### Features and benefits

- Suitable for most chemicals
- Standard is threaded flange with slotted holes (Thread only connections can be offered upon request) for GPMD, Metal-lined casing with fixed flanges (GLMD)
- Main sealing through only one (1) static o-ring in Viton® (optional EPDM)
- Standard installed carbon graphite for the single sleeve bearing (optional SiC and ceramic)

- Max. of 0,5% of solids by volume
- Particle size should be limited to 50 microns
- Eddy Current losses of max. 2% (GLMD)
- All units are close coupled
- Magnet coupling of Samarium Cobalt (> 4 kW at 50 Hz) or Barium Ferrite (< 4 kW)

### Models

#### ■ Model GPMD

The GPMD model is available in both Polypropylene and ETFE and is notable for its solid plastic front casings. The process connections are standard threaded flanged with slotted holes to accommodate DIN, ANSI and JIS contra-flange specifications. Thread connections are available as well. The Polypropylene components are injection moulded with glass fiber reinforcement, the E-TFE material is reinforced with carbon fiber. Most chemicals can be transferred with these material options.

#### ■ Model GLMD

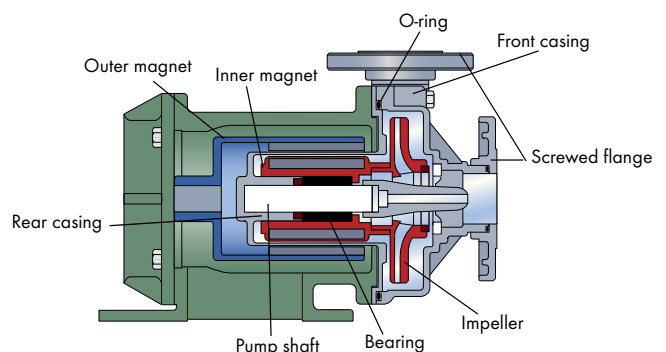
The stationary ceramic shaft design avoids complex internal design, as the single sleeve bearing is fitted into the internal magnet. The standard material for this sleeve bearing is high density carbon, this has self-lubricating possibilities if process flows are reduced.

The front- and rear casing are sealed by just one (1) static o-ring in Viton.

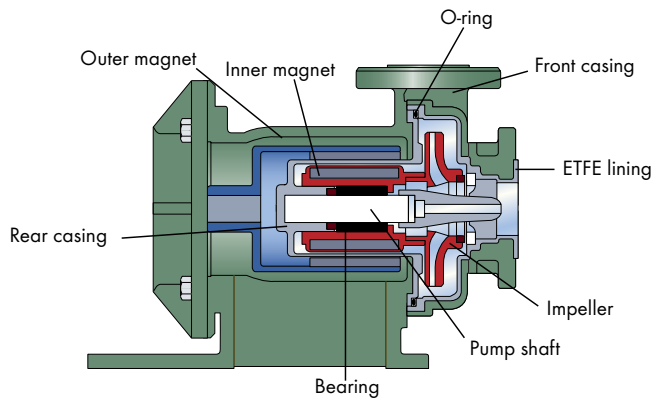
The injection moulded ETFE components, such as front casing liner, rear casing, impeller and internal magnet are reinforced with 20% carbon fiber to give optimum strength and temperature resistance. The maximum liquid temperature limit is therefore 90 °C.

### Cut away view

#### ■ Model GPMD



## ■ Model GLMD



## Application areas

- Chemical Industry
- Pharmaceuticals
- OEM
- Tank emptying
- Food Processing

## Technical specifications

	GPMD	GLMD
Flow range	1300 l/min	1500 l/min
Head	up to 30 m	up to 40 m
Temperature	up to 90 °C (ETFE)	up to 90 °C
Operating temp.	Max. 6 bar	Max. 6 bar
Power supply	up to 11 kW	up to 11 kW

### VERDER Group, Verdermag products

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