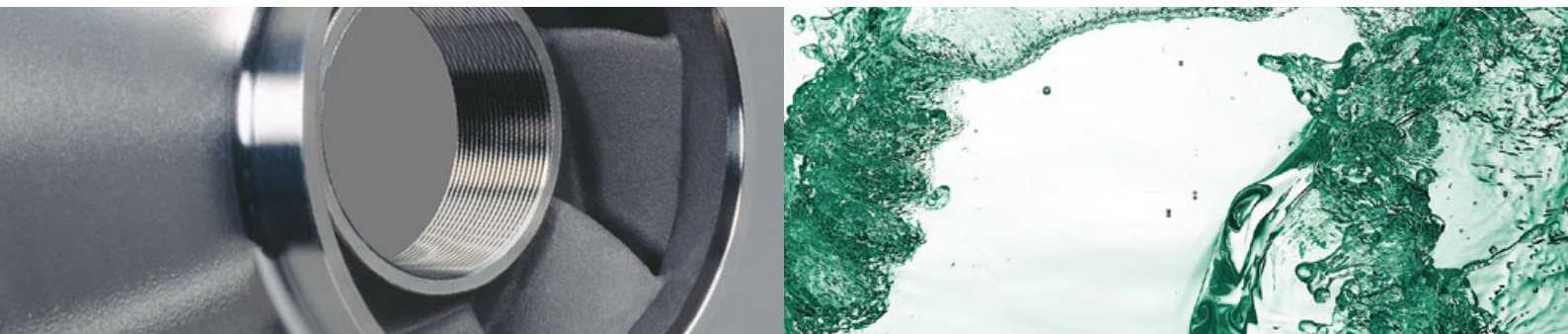


MKP

Stainless Steel Magnetic Drive Chemical Process Pump



The sealless MKP magnetic drive pump is ideal to meet the stringent requirements of chemical processing and a multitude of other industries. This highly advanced and extremely energy efficient pump is built to handle a huge variety of fluids reliably and absolutely safely.

With its special design using an inverted drive configuration, the MKP requires no plain bearing carrier. The pumped fluid provides optimum lubrication and cooling of the single, centrally located impeller bearing assembly, also allowing solids-laden and low-boiling liquids to be pumped. Depending on the pumped medium, it can handle fluids containing solids in concentrations up to 30% with a particle size up to 1 mm.

The pump impeller rotates stably about a stationary axis on the gyroscopic principle, maintaining a perfect hydraulic balance. This minimises bearing loads, increasing the reliability of pump operation.

Added to its compact design with virtually no dead areas, the MKP is constructed with just a few, robust components. An intelligent modular system facilitates assembly and keeps the costs of spare parts, maintenance and servicing to a minimum.

The MKP is available in a variety of designs and configurations. In particular, a heat jacketed version allows molten sulphur to be pumped. Its connection dimensions and performance data conform to DIN EN ISO 2858, making the MKP easy to retrofit into any installation to replace old pumps.

Configurations and mounting arrangements

- Close-coupled
- Frame-mounted
- Horizontal
- Vertical
- High temperature version
- Jacketed
- In-line
- Baseplate
- Bracket

Casing materials

- Stainless steel
- Uranus® B6
- Nickel-base alloys, e.g. Hastelloy® B or C
- Pure nickel
- Titanium

Pump protection

- Containment shell thermocouple
- Double-walled containment shell with leakage monitoring
- Pt100 temperature probe
- Motor load sensor

Processes and fluids

Some typical services include:

- Chlor-alkali electrolysis
- Refrigeration and heating cycles
- Hydrogen peroxide
- Molten sulphur
- Potassium hydroxide solution
- Sulphuric acid



Technical data

Capacities (min./max.)	0.25 to 650 m³/h
Heads (min./max.)	3 to 145 m
Temperatures (min./max.)	-100°C to +350°C
Kinematic viscosities	0.5 to 350 mm²/s
Solids concentration	up to 30% depending on fluid

Directives and standards

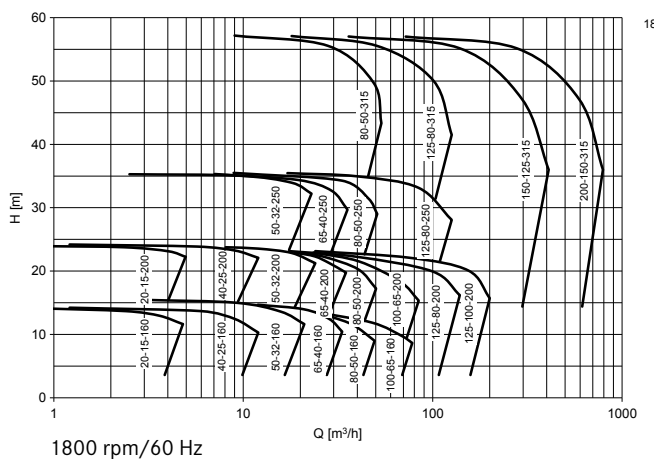
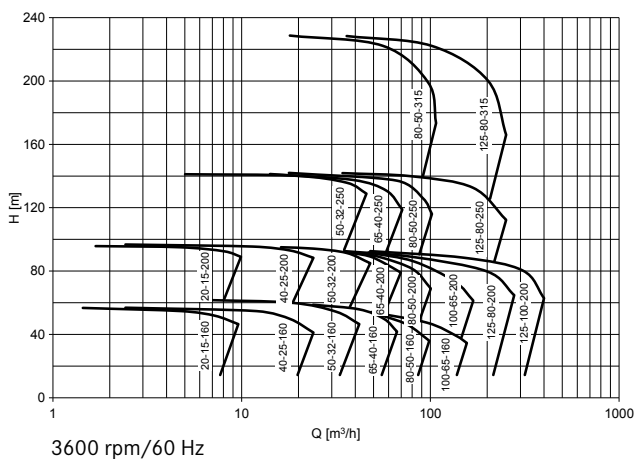
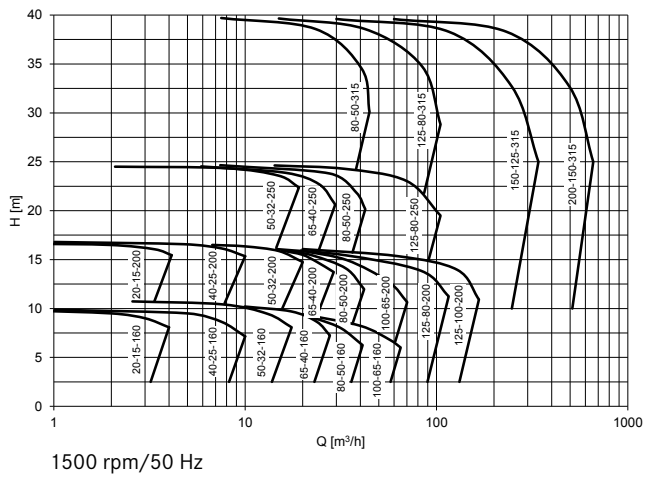
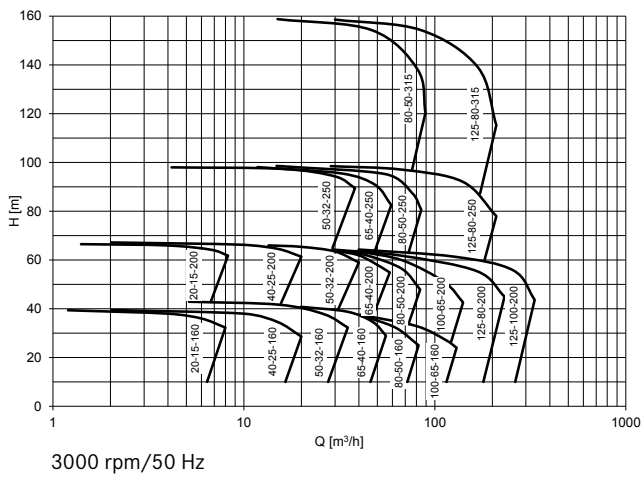
EC Directive 2006/42/EG (Machinery)

EC Directive 94/9/EG (ATEX)

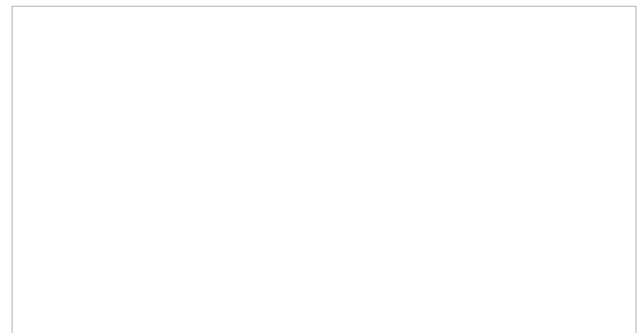
DIN EN ISO 2858

DIN EN ISO 5199

DIN EN ISO 15783



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