

# MKPL

## PFA Lined Magnetic Drive Chemical Process Pump



Sealless and magnetically driven, the MKPL 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 can handle corrosive fluids reliably and absolutely safely, especially even at high temperatures.

The casing has a thick, heavy-duty, corrosion- and permeation-resistant PFA lining positively, mechanically locked into the metal armour, ensuring vacuum resistance. This armour absorbs all mechanical stresses that can result from system pressure or piping nozzle loads.

Made of pure SSiC (sintered silicon carbide) in a robust design engineered for ceramics, the bearing assembly provides maximum reliability of pump operation. Plain and thrust bearings are secured with polygonal form-fit, self-centring anti-rotation devices.

The MKPL comes with either an open impeller for low NPSH or a closed impeller for high efficiencies. Featuring a metal core for increased mechanical strength, its plastic impellers are firmly secured to prevent loosening in case of reverse rotation.

This pump is constructed with just a few, robust components using an intelligent modular system that facilitates assembly and minimises the costs of spare parts, maintenance and servicing. Its connection dimensions and performance data conform to DIN EN ISO 2858, making the MKPL easy to retrofit into any installation to replace old pumps.

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### Configurations and mounting arrangements

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- Close-coupled
- Frame-mounted
- Horizontal
- Baseplate

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### Casing materials

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- PFA lined cast iron

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### Pump protection

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

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### Processes and fluids

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Some typical services include:

- Chlor-alkali electrolysis
- Sulphuric acid recycling
- Bromine
- Chlorine
- Potassium hydroxide solution
- Sodium hydroxide solution



### Technical data

Capacities (min./max.)	0.5 to 400 m <sup>3</sup> /h
Heads (min./max.)	3 to 90 m
Temperatures (min./max.)	-20°C to +200°C
Kinematic viscosities	0.5 to 350 mm <sup>2</sup> /s
Solids concentration	up to 10% depending on fluid

### Directives and standards

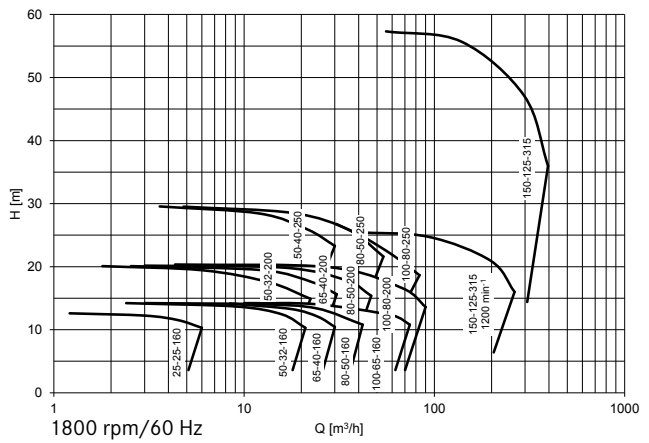
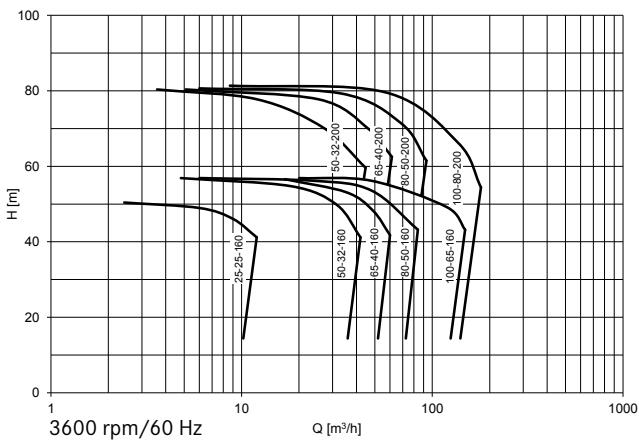
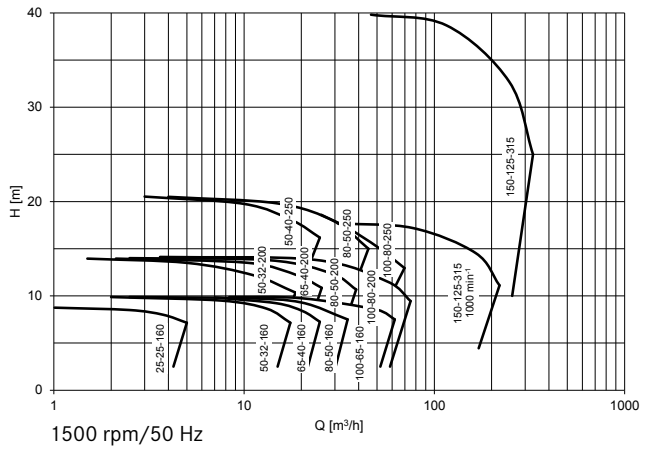
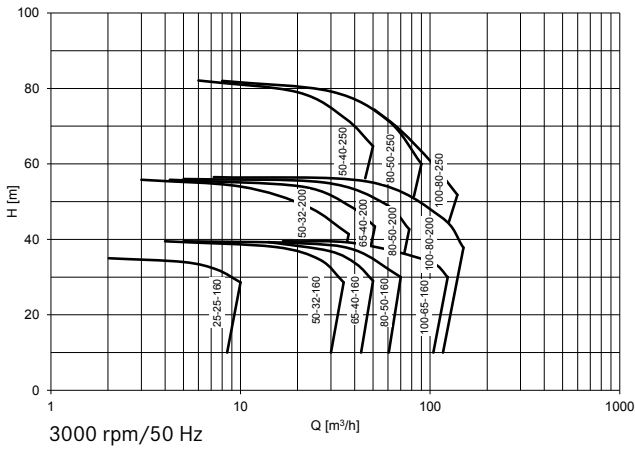
EC Directive 2006/42/EC (Machinery)

EC Directive 94/9/EC (ATEX)

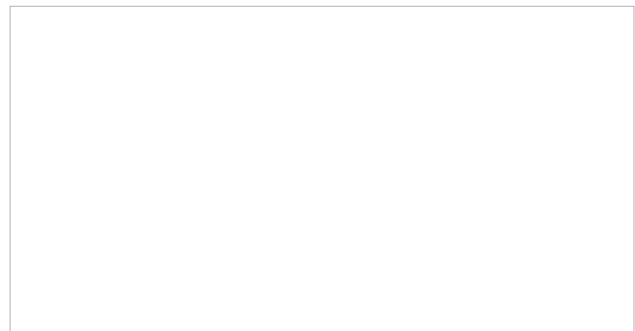
DIN EN ISO 2858

DIN EN ISO 5199

DIN EN ISO 15783



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