

# MKPL-S

## PFA Lined Self-Priming Magnetic Drive Chemical Process Pump



Sealless and magnetically driven, the MKPL-S 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. It achieves suction lifts up to 8.5 m.

The casing has a 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-S comes with either an open or a closed impeller. Featuring a metal core for increased mechanical strength, its plastic impellers are firmly secured to prevent loosening in case of reverse rotation.

With the integral priming chamber in the casing, a separate priming tank is not necessary because the pump evacuates the suction line itself by creating a vacuum. Even air pockets in the suction line are no problem.

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.

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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 35 m <sup>3</sup> /h
Heads (min./max.)	3 to 40 m
Temperatures (min./max.)	-20°C to +150°C
Kinematic viscosities	0.5 to 350 mm <sup>2</sup> /s
Solids concentration	up to 10% depending on fluid

### Directives and standards

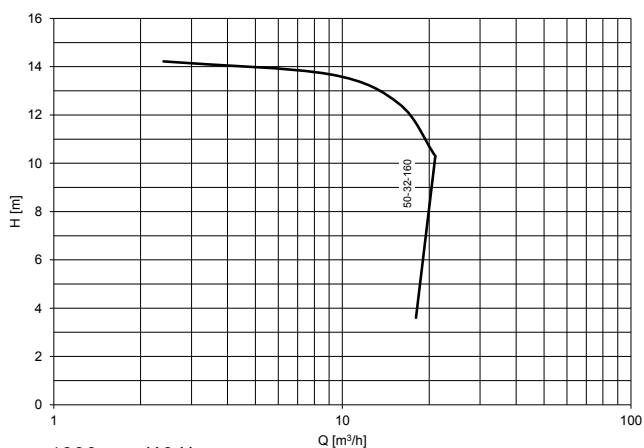
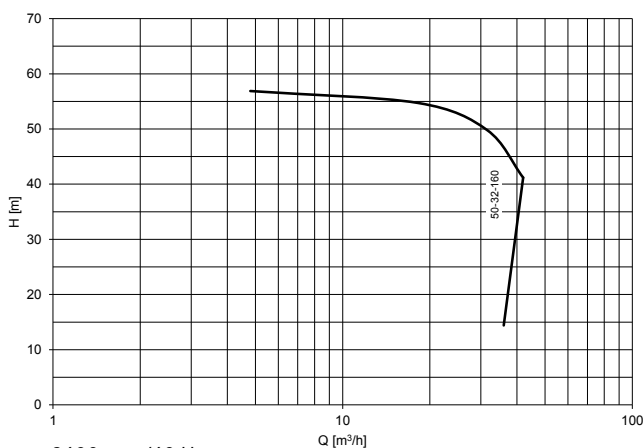
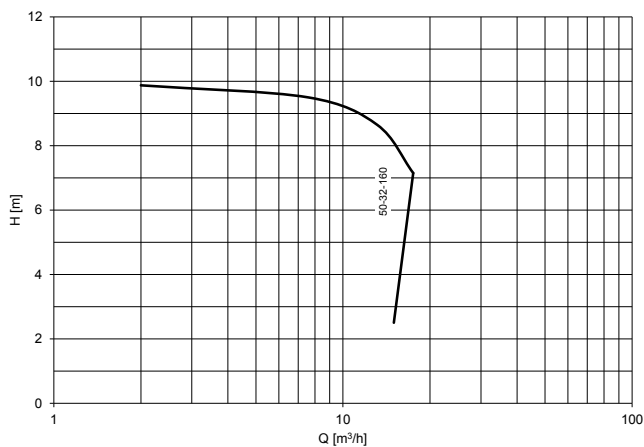
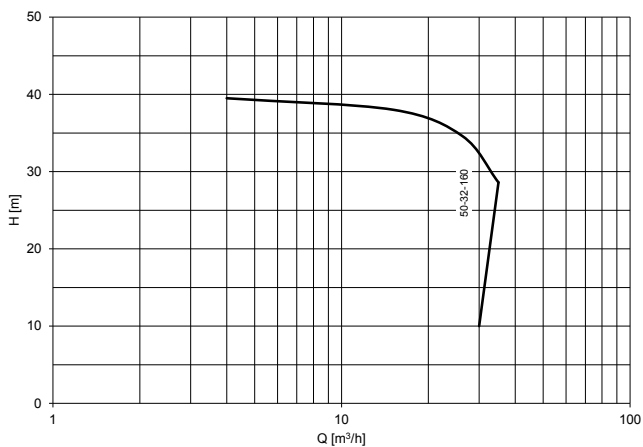
EC Directive 2006/42/EC (Machinery)

EC Directive 94/9/EC (ATEX)

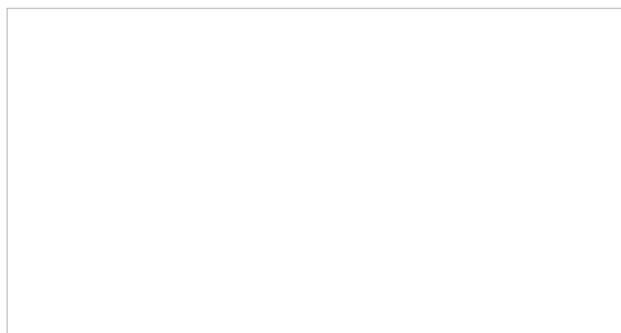
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