

# 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

Close-coupled, bearing-frame

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### Mounts

- Baseplate
- Horizontal

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### Casing materials

- Cast iron (GGG 40.3)/vacuum-tight PFA lining

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### Pump protection

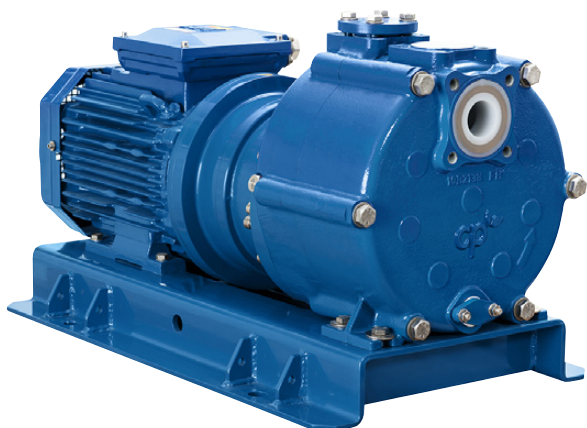
- Containment shell leakage monitoring
- Pt100 temperature probe
- Engine load sensor

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### Industries, processes and fluids

Learn more about typical applications:





### Technical data

Capacities (min./max.)	0.5 to 35 m <sup>3</sup> /h   2.2 to 154.1 gpm
Heads (min./max.)	3 to 40 m   9.8 to 131.2 ft
Temperatures (min./max.)	-20 to +150°C   -4 to +302°F
Kinematic viscosities	0.5 to 350 mm <sup>2</sup> /s   cSt
Solids handling	up to 10% solids concentration, depending on the pumped fluid

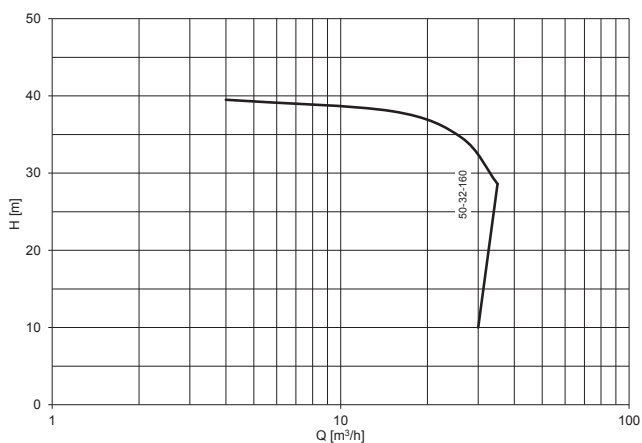
### Directives and standards

EC Machinery Directive

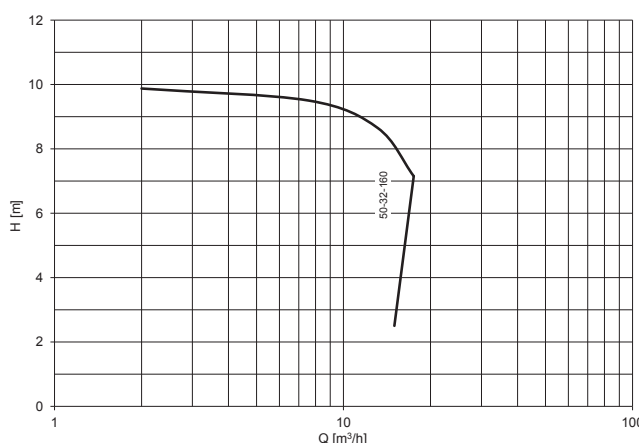
EC ATEX Directive

DIN EN ISO 5199

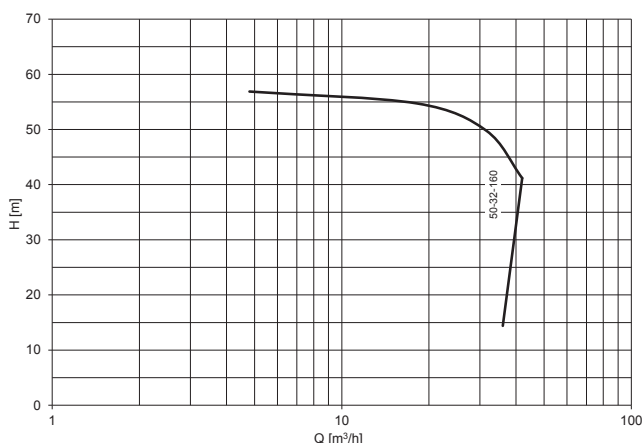
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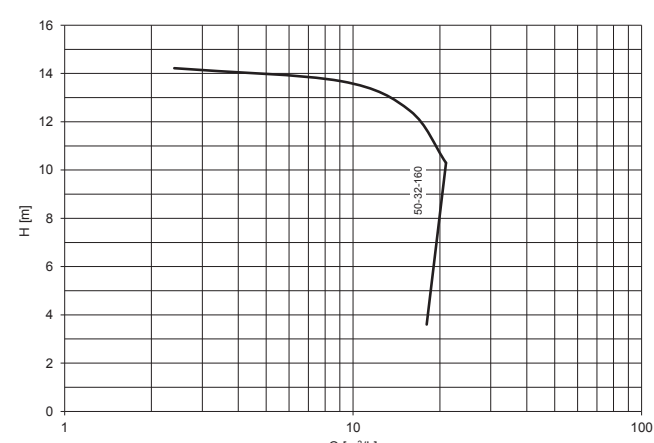
3000 rpm/50 Hz



1500 rpm/50 Hz



3600 rpm/60 Hz



1800 rpm/60 Hz

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