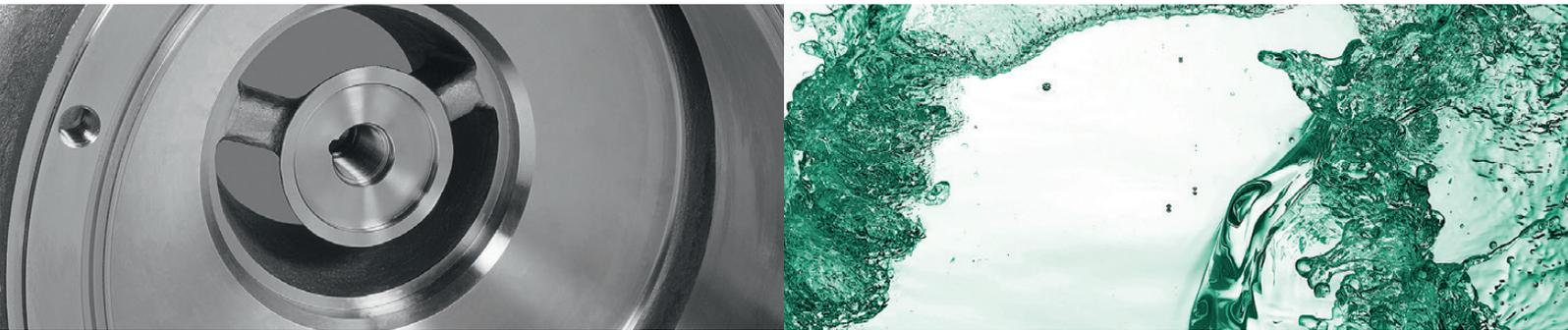


MKP-S

Stainless Steel Self-Priming Magnetic Drive Chemical Process Pump



The sealless MKP-S 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 suction lift up to 8.5 m.

Designed using an inverted drive configuration, the MKP-S 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.

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.

Compact in design with virtually no dead areas, the MKP-S 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. A wide array of options is also available.

Configurations

Close-coupled, bearing-frame

Mounts

- Baseplate
- Stilt support plate

Casing materials

- Stainless steel 1.4581 (316Nb)*
- Stainless steel (e.g. 1.4306, Uranus® B6)*
- Duplex alloys (e.g. 1.4517)
- Nickel-base alloys (e.g. Hastelloy® C-4, C-22)*
- Nickel (e.g. 2.4170)
- Titanium alloys

* Also available for casing with **heating chamber**

Pump protection

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

Industries, processes and fluids

Learn more about typical applications:





Technical data

Capacities (min./max.)	1 to 80 m ³ /h 2.2 to 325.2 gpm
Heads (min./max.)	5 to 60 m 16.40 to 196.9 ft
Temperatures (min./max.)	-100 to +250°C -148 to 482°F
Kinematic viscosities	0.5 to 350 mm ² /s cSt
Solids handling	up to 30% solids concentration and 1 mm particle size, depending on the pumped fluid

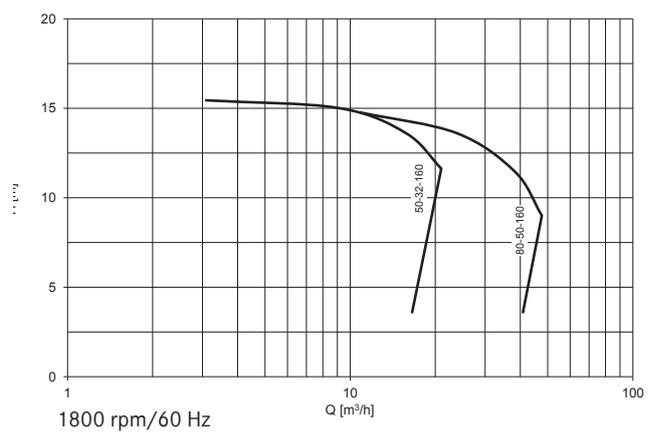
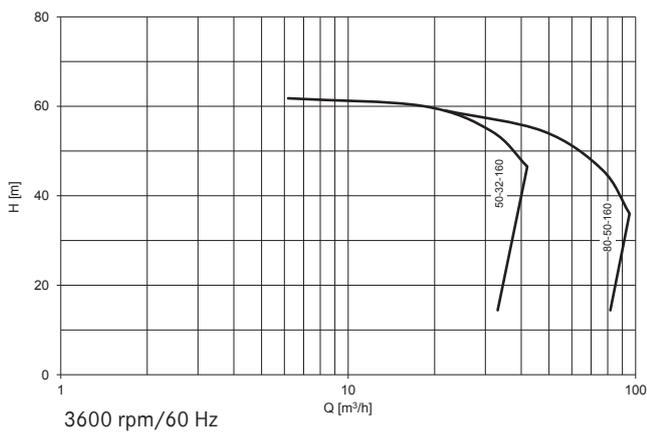
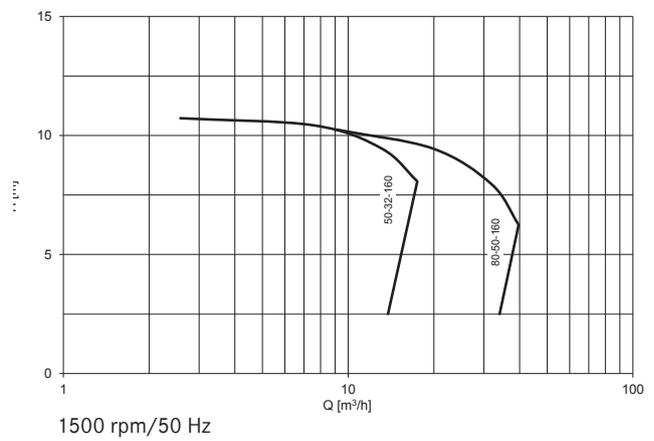
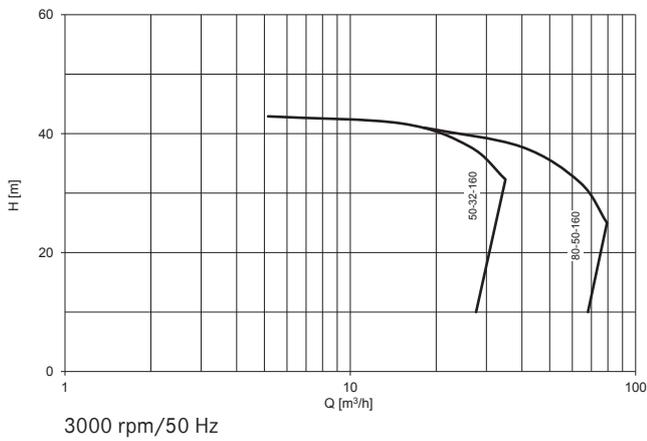
Directives and standards

EC Machinery Directive

EC ATEX Directive

DIN EN ISO 5199

DIN EN ISO 15783



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+41 62 746 85 85/info@cp-pumps.com

