

MKP-ANSI Magnetic Drive Chemical Process Pump



The sealless MKP-ANSI 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-ANSI 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 (1/25").

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-ANSI 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-ANSI is available in a variety of designs and configurations. Its connection dimensions and performance data conform to ASME B73.3, making the MKP-ANSI easy to retrofit into any installation to replace old pumps.

Configurations

Close-coupled

Mounts

- Baseplate
- Horizontal

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
- Ceramic coating (Al2O3)

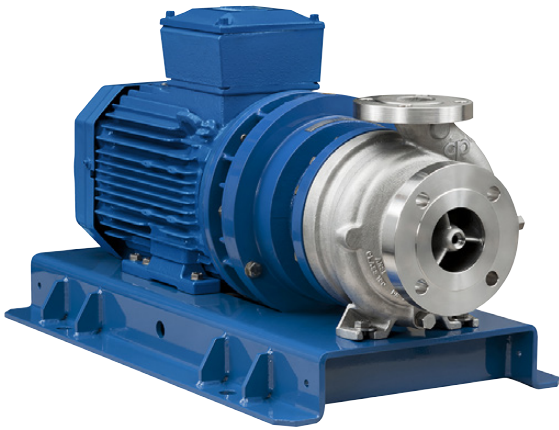
Pump protection

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

Industries, processes and fluids

Learn more about typical applications:





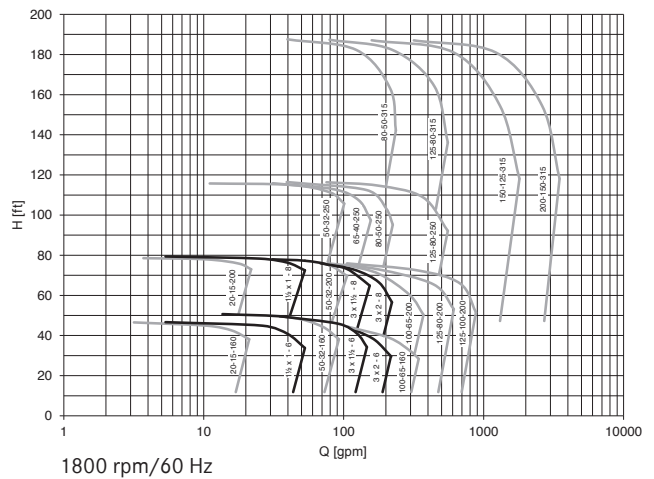
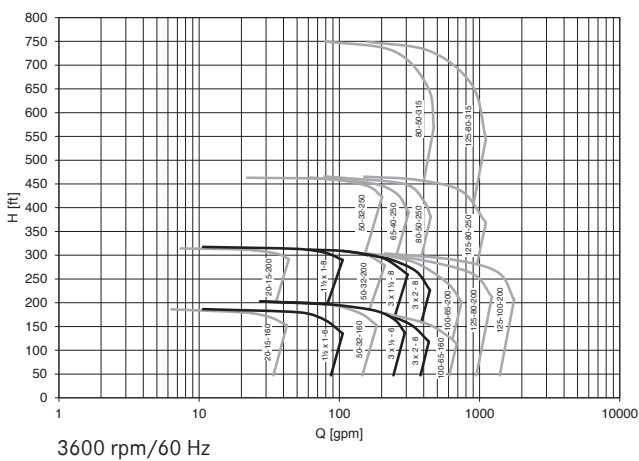
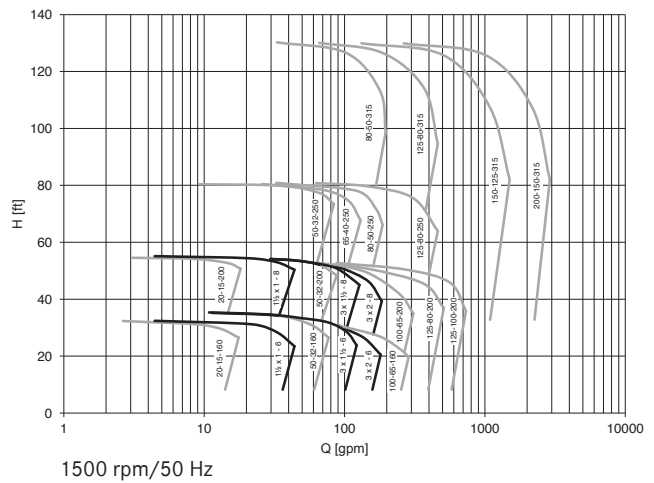
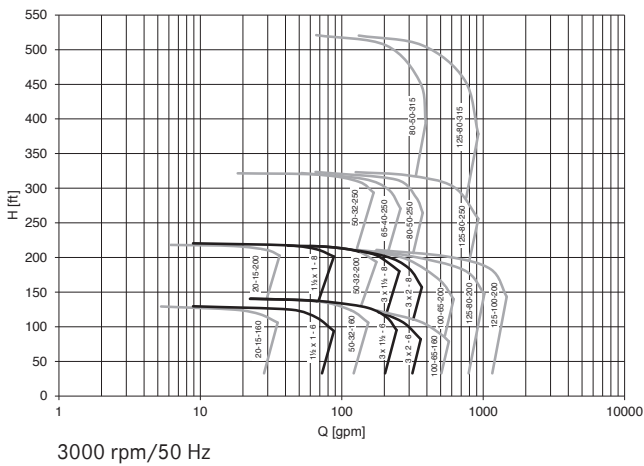
Technical data

Capacities (min./max.)	1 to 102 m ³ /h 1 to 450 gpm
Heads (min./max.)	10 to 94 m 10 to 310 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 (1/25") particle size, depending on the pumped fluid

Directives and standards

FDA 21 CFR §177

ANSI ASME B73.3



Find your local CP distributor on www.cp-pumps.com or contact CP directly:
+41 62 746 85 85/info@cp-pumps.com

