

MKP-ANSI (ASME-Compliant) Stainless Steel 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 $\frac{1}{32}$ ".

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 and mounting arrangements

- Close-coupled
- Horizontal
- Baseplate
- Bracket

Casing materials

- Stainless steel
- Uranus® B6
- Nickel-base alloys, e.g. Hastelloy® B or C
- Pure nickel
- Titanium

Pump protection

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

Processes and fluids

Some typical services include:

- Chlor-alkali electrolysis
- Refrigeration and heating cycles
- Hydrogen peroxide
- Molten sulphur
- Potassium hydroxide solution
- Sulphuric acid

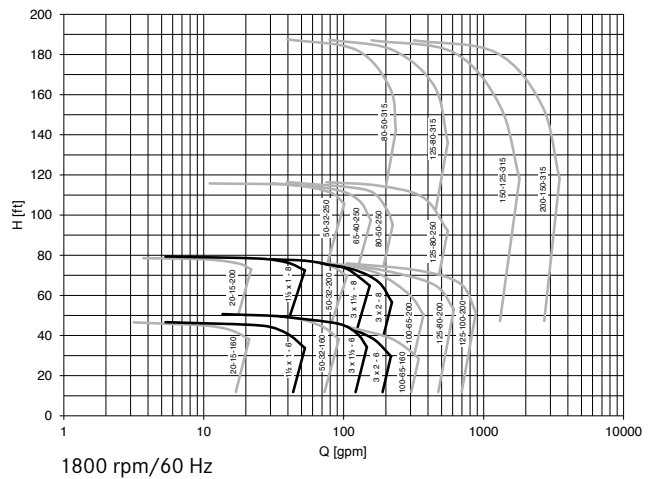
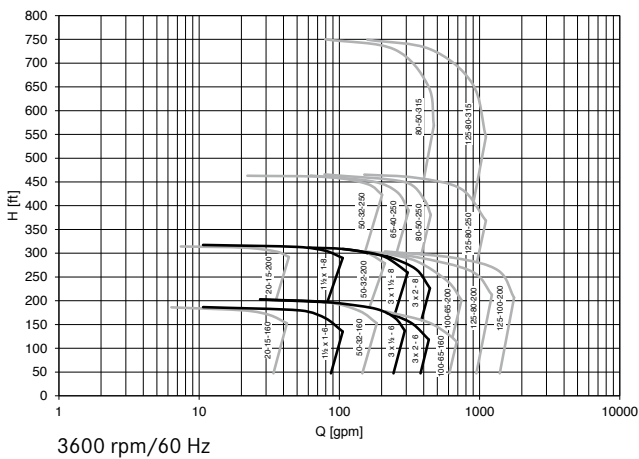
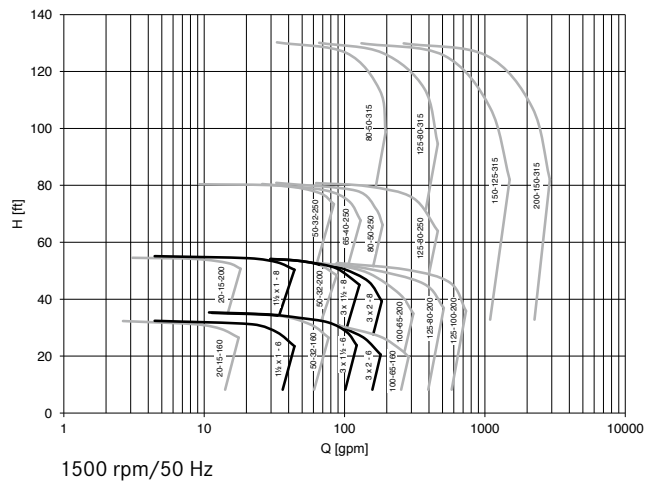
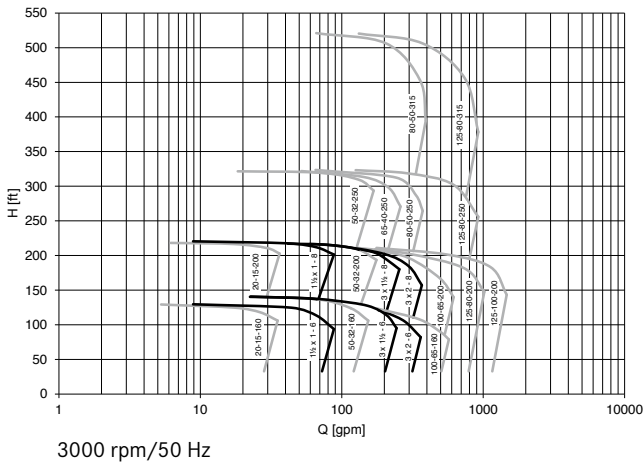


Technical data

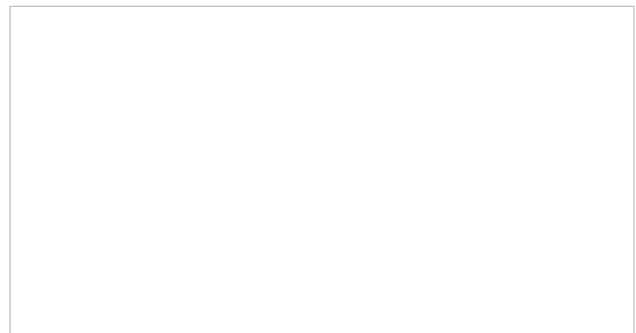
Capacities (min./max.)	1 to 450 gpm
Heads (min./max.)	10 to 310 ft
Temperatures (min./max.)	-148°F to +482°F
Kinematic viscosities	0.5 to 350 mm ² /s
Solids concentration	up to 30% depending on fluid

Directives and standards

ANSI/ASME B73.3



Your CP distributor



ClimatePartner
climate neutral



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