With its sealless design, the MSKPP 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 corrosive fluids reliably and absolutely safely, especially in applications requiring resistance to permeation.

The pump casing is constructed of thick vacuum-, corrosion- and permeation-resistant solid plastic. Use of carbon filled PTFE prevents electrostatic charging on the casing. Alternatively, the pump is also available in virgin PTFE or PVDF.

Made of pure SSiC (sintered silicon carbide) in a robust design engineered for ceramics, the bearing assembly ensures highly reliable operation. Plain and thrust bearings are secured with polygonal form-fit, self-centring anti-rotation devices.

The MSKPP features a peripheral impeller with a metal core. This type of impeller allows the pump to deliver high heads at low flow rates, making it perfect for dosing and injection applications.

A comprehensive array of options is available for the MSKPP and can be combined to meet individual needs.

### Configurations and mounting arrangements
- Close-coupled
- Frame-mounted
- Horizontal
- Vertical
- In-line
- Baseplate

### Casing materials
- Carbon filled PTFE
- Virgin PTFE
- PVDF
- PVDF for bromine service

### Pump protection
- Double-walled containment shell with leakage monitoring
- Pt100 temperature probe
- Motor load sensor

### Processes and fluids
Some typical services include:
- Chlor-alkali electrolysis
- Fertiliser production
- Bromine
- Dichloromethane
- Ethanol
- Hydrofluoric acid
Technical data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacities (min./max.)</td>
<td>0.1 to 8 m³/h</td>
</tr>
<tr>
<td>Heads (min./max.)</td>
<td>2 to 160 m</td>
</tr>
<tr>
<td>Temperatures (min./max.)</td>
<td>-20°C to +100°C</td>
</tr>
<tr>
<td>Kinematic viscosities</td>
<td>0.5 to 350 mm²/s</td>
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<tr>
<td>Solids concentration</td>
<td>0%</td>
</tr>
</tbody>
</table>

Directives and standards

- EC Directive 2006/42/EC (Machinery)
- EC Directive 2014/34/EU (ATEX)
- DIN EN ISO 5199
- DIN EN ISO 15783