Based in Charlotte, North Carolina, SPX Corporation (NYSE: SPW) is a global Fortune 500 multi-industry manufacturing leader. For more information, please visit www.spx.com

TopGear MAG

**Protecting your future**

**MAG DRIVE - HERMETIC CLOSED PUMP SYSTEM**

Ensures clean, safe and leak-free operating environment. Zero leakage of corrosive, toxic, chemical, expensive or vulnerable liquids.

**UNIQUE SOLUTION FOR FORCED CIRCULATION AND COOLING**

Patent pending for integrated circulation pump in intermediate cover – guaranteed cooling and lubrication of magnetic coupling and bearings independent of operation pressure and liquid viscosity. Safeguard durable operation for low and high viscous liquids.

**LARGE GAP BETWEEN INNER MAGNET AND CAN**

Minimizes friction losses when pumping high viscous media giving low heat generation and long durable operation.

**WET BEARINGS OF SPECIAL SIC**

Can handle low viscous media and is extremely wear resistant.

**HERMETIC CAN MATERIAL OF HASTELLOY C4 BETWEEN THE MAGNETS**

Highly chemically resistant and reduces the eddy current losses while increasing efficiency and minimizing temperature. Safeguards durable operation and long life time.

**SAFETY SYSTEM FOR BEARING FAILURES**

Prevents both outer magnetic as inner magnetic rotor from running against the can in case of bearing failure. No risk for leakage and contamination.

**MONITORING OPTIONS**

Possible to install sensors to monitor temperature, pressure and vibrations for preventive maintenance actions.
HEATING JACKETS AND SAFETY RELIEF VALVES
Heating and cooling jacket options to safeguard pump in start up and shut down process. Steam or thermal oil options available.
Built on safety relief valves to protect pump and other equipment from over pressure.
Heating jackets and relief valves can be combined.

BACK AND FRONT PULL OUT
Easy access for inspection and maintenance while pump casing remains installed in the pipe system.

INTERCHANGEABILITY
Complete dimensional interchangeability with TopGear GM and H pumps.

PUMP SPECIFICATION

<table>
<thead>
<tr>
<th>PUMP SIZE</th>
<th>TG MAG</th>
<th>PORT DIAMETER (MM)</th>
<th>MAX FLOW (M³/H)</th>
<th>MAX DIFF. PRESSURE (BAR)</th>
<th>MAX PRESSURE (BAR)</th>
<th>MAX SPEED (RPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-50</td>
<td>50</td>
<td>13</td>
<td>16</td>
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<td>1050</td>
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<td>750</td>
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MATERIALS

<table>
<thead>
<tr>
<th>PUMP HOUSE</th>
<th>CAST IRON OR STAINLESS STEEL</th>
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<tbody>
<tr>
<td>CONTAINMENT CAN</td>
<td>HASTELLOY C4</td>
</tr>
<tr>
<td>BEARING OPTIONS</td>
<td>SILICON CARBIDE OR CARBON</td>
</tr>
<tr>
<td>MAGNETS</td>
<td>SwCo (STANDARD) FOR GOOD CORROSION RESISTANCE AND HIGH TEMPERATURE POSSIBILITY MAX 260° C. NdFeB (OPTIONAL) FOR HIGH TORQUE APPLICATIONS - BUT AT LIMITED TEMPERATURE MAX 120° C.</td>
</tr>
<tr>
<td>OTHER OPTIONS</td>
<td>HEATING JACKETS, RELIEF VALVES, TEMPERATURE PROBE PT100, ATEX CERTIFICATION, PUMP UNITS</td>
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</tbody>
</table>

OPERATING PRINCIPLE

As the rotor and idler unmesh, an under-pressure is created and the liquid enters the newly created cavities.

Liquid is transported in sealed pockets to the discharge side. The walls of the pump casing and the crescent create a seal, that separates suction from discharge side.

The rotor and idler mesh and liquid is pushed into the discharge line.

CRYSTALLIZING AND HARDENING LIQUIDS

Phenol, Solvents, Isocyanates, Sodium hydroxide, Epoxy resin, Paint, Glue, Ink, Fuel Additives, Caustic solutions, Sugar solutions, Oils, Bitumen, Alcohols

TopGear MAG provides environmental, human, legal and economical protection.

PROTECTING YOUR FUTURE

Typical product applications
TopGear MAG is the perfect solution for avoiding leakage of liquids which may jeopardize health or environment or for liquids which are just problematic to seal off.