GENERAL DESCRIPTION

Chemsteel pumps are designed to handle highly corrosive liquids that must be pumped under pressure. Manufactured to extremely precise tolerance, the Chemsteel pump line prevents system contamination while maintaining the purity and integrity of the liquid being pumped. Its rugged, three-section, o-ring sealed thru-bolt construction provides ease of servicing and parts replacement.

Additionally, Chemsteel pumps offer bi-directional operation for applications requiring reversing flow.

LIFE CYCLE/COST OF OWNERSHIP

Pump design and materials selection, together provide the longest life available from a gear pump. Key attributes include:

- Gear & bearing combinations of metallic and nonmetallic wear surfaces.
- Slotted bearings to lubricate shaft and gear surfaces.
- Ample port sizing to reduce the likelihood of cavitation when inlet pressure is marginal.
- Effective housing seals with elastic memory prevent leakage of corrosives.

FIT

Connections are 1/4” female NPT or BSPT, pump hardware is metric and close couple adapters mount to both NEMA and IEC standard motor frame sizes for world wide acceptance.

PERFORMANCE

Notes: For continuous service:
Plastic / Plastic gear combinations are limited to 50 psi.
Metal / Plastic gear combinations are limited to 100 psi.

A full range of accessories are available including:
- line mounted pressure relief valves
- pump mounting foot for use with footless motors
- pedestal assembly

SPECIFIC SOLUTIONS

Gear/bearing design allows for “trimming” for optimizing the pump’s maximum flow to reach minimum turndown or to match flow to a specific OEM’s requirement.

Special materials combinations are available for specific liquids:
- Stainless or Alloy C housing construction.
- Gears available in 316 stainless and Alloy C.
- Also in Teflon® and PEEK®.
- Shafts are 316 stainless steel or Alloy C.
- Bearings available in Carbon or Teflon®

www.oberdorfer-pumps.com PHONE (800) 448-1668; (315) 437-0361 FAX (315) 463-9561
MAINTENANCE

A three-part housing provides easy disassembly and service. Full size bearings match the gear diameter, and eliminate the need for separate wear plates. TFE encapsulating silicone o-ring pump housing seals provide elastic memory to assure an effective long lasting seal and thus avoiding the re-torquing required of pumps using pure TFE.

To order a CHEM® kit, simply add a “K” to the end of the model number.

A repair kit contains the following parts: bearings, gears, o-rings, shafts, keys, c clips, and retaining rings.

DIMENSIONS

<table>
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<tr>
<th>Mag Chemsteel Option Suffix</th>
<th>Power Kit Part No.</th>
<th>Motor Frame</th>
<th>AC* (INCHES)</th>
<th>D</th>
<th>2F</th>
<th>H</th>
<th>AE</th>
<th>AD</th>
<th>*D</th>
<th>*XO</th>
<th>*XP</th>
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<td>56C</td>
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<td>34 SLOT</td>
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* Dimensions AC, O XO and XP may vary depending on HP, Enclosure, Speed and Manufacturer

Model RM102

Maximum Flow (gpm) @1750 RPM: 0.6
Theoretical Displacement (cc/revolution): 1.9
Maximum Differential Pressure (psig): 110
Maximum System Pressure (psig): 300
Maximum Speed (RPM): 1800
Maximum Fluid Temperature: 450°F
Minimum Fluid Temperature: -50°F
NPSHR @ 1750 (feet): 2
Standard Port Size: 1/4 inch FNPT
Weight-less motor (lbs): 13