GENERAL DESCRIPTION

Chemsteel pumps are designed to handle common and 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 construction provides ease of servicing and parts replacement. Helical gearing offers noise reduction by as much as 10db, while the tandem pumps double the output flow for a single fluid, or with isolation, handle other fluids in direct ratio to the first. 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.
- Hydraulic porting to balance axial thrust and to reduce wear.
- Ample port sizing to reduce the likelihood of cavitation when inlet pressure is marginal.
- Effective housing seals with elastic memory prevent leakage of corrosives.

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:
- Reinforced Ryton® housing construction.
- Gears available in metallic 316 stainless steel and Alloy C. Also in Teflon®, Ryton® and PEEK®.
- Shafts are 316 stainless steel or Alloy C.
- Bearings available in carbon or Teflon®.
- Full range of seal options including lip seal, packing and mechanical designs.

FIT

Connections are 1” 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.
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 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. The upper shaft configuration lends itself to in-line pump seal maintenance without the leakage of trapped chemicals from an incompletely drained pump.

To order a repair kit, simply add a “K” to the end of the model number. A CHEMkit contains the following parts: seals, bearings, gears, o-rings, shafts, keys, c clips, and retaining ring.

CLOSE-COUPLED DIMENSIONAL

PEDESTAL MOUNT DIMENSIONS

1. These dimensions vary depending on hp, enclosure, speed and motor manufacturer. Specifications are subject to change without notification.

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<th>motor frame</th>
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1. Dimension is approximated with packing nut installed

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