SM935 METALLIC

CHEMSTEEL®

SEAL-LESS MAGNETIC DRIVE



A full range of accessories are available including:

- · line mounted pressure relief valves
- · pump mounting foot for use with footless motors
- pedestal assembly

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, or-ring sealed thru-bolt construction provides ease of servicing and parts replacement.

Helical gearing offers noise reduction by as much as 10db.

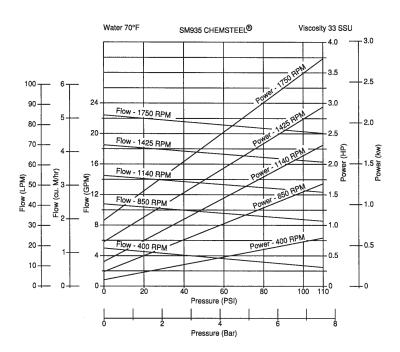
Additionally, Chemsteel pumps offer bi-directional operation for applications requiring reversing flow.

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.
- Recirculation heat port versatility.
- Containment can flush & drain connections.

PERFORMANCE



Notes: For continuous service:

Plastic / Plastic gear combinations are limited to 50 psi.

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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 metallic 316 stainless, W88 stainless and Alloy C. Also in Teflon®, Ryton® and PEEK®.
- Shafts are 316 stainless steel or Alloy C.
- Bearings available in Carbon, Teflon® and Rulon®

FIT

Connections are 1 1/2" 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. The port size is the same as competitive pumps.

MAINTENANCE

HEMSTEE

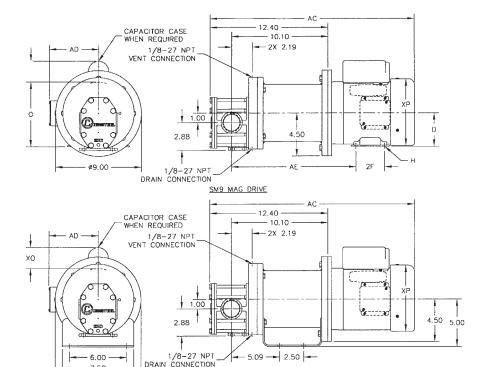
A three-part housing provides easy disassembly and service. Full size bearings match the gear diameter, and eliminate the need for separate wear plates. TFE encapsulating silicone o-ring pump housing seals provide elastic memory to assure an effective long lasting seal and thus avoiding the re-torquing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

To order a CHEMkit®, simply add a "K" to the end of the model number. A repair kit contains the following parts:

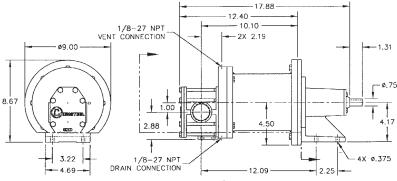
bearings, gears, o-rings, shafts, keys, c clips, and retaining ring.

MODEL	SM935		
Maximum Flow (gpm) @1750 RPM	23		
Theoretical Displacement (cc/revolution)	57.8		
Maximum Differential Pressure (psig)	110		
Maximum System Pressure (psig)	225		
Maximum Speed (RPM)	1800		
Maximum Fluid Temperature	450° F		
Minimum Fluid Temperature	-50° F		
NPSHR @ 1750 (feet)	4		
Standard Port Size	1 1/2 inch FNPT		
weight-less motor (lbs)	50		

DIMENSIONS



SM9 MAG DRIVE W/ FOOT ACCESSORY



SM9	MAG	DRIVE	W/	PEDESTAL

Mag Chemsteel Option Suffix	Power Kit Part No.	Motor Frame		*AC	D	2F	Н	AE	AD	*0	*XO	*XP
M1 MC9H56	MCOHEC	56C	inches	21.54	3.50	3.00	.34 Slot	13.06	5.31	6.81	2.25	7.16
	56C	millimeters	547.1	88.9	76.2	8.6 Slot	331.7	134.9	173	57.2	181.9	
M2 MC9J45T	MCOMET	143TC/145TC	inches	24.92	3.50	4.00/5.00	0.34	13.37	5.31	6.81	2.25	7.16
	IVIC93451		millimeters	633	88.9	101.6/127	8.6	339.6	134.9	173	57.2	181.9
M5 MC9U90E	MCOLIONE	MC9U90E IEC 90SC/90LC, B14 Face	inches	23.43	3.54	3.94/4.92	.39 Slot	12.70	5.12/4.25	6.81/6.53	n/a	5.51
	MC9090E		millimeters	595.1	89.9	100.1/125	9.9 Slot	322.6	130/108	173/165.9	n/a	140
M6 MC9K84T	MCOKOAT	9K84T 182TC/184TC	inches	25.00	4.50	4.50	0.41	13.48	6.38	8.75	2.25	9.09
	18210/18410	millimeters	635	114.3	114.3	10.4	342.4	162.1	222.3	57.2	230.9	
M7 MC9V	MC9V100E	00E IEC 100LC, B14 Face	inches	25.39	3.94	5.51	0.47	12.97	6.06	9.44	n/a	8.03
	INICAN LODE		millimeters	644.9	100.1	140	11.9	329.4	153.9	239.8	n/a	204

*Dimensions AC, O, XO and XP may vary depending on HP, Enclosure, Speed and Manufacturer.

- 7.50 ø9.00

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