

OBERDORFER PUMPS

A Gardner Denver Product

CHEMSTEEL[™] PUMP SERIES

RM106 METALLIC

CHEMSTEEL™ PUMP

CHEMSTEEL PUMPS SERIES RM106 M

PERFORMANCE



FEATURES

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:

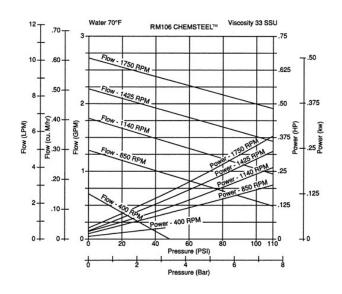
- Stainless or Alloy C housing construction.
- Gears available in 316 stainless, W88 stainless and Alloy C. Also in Polytetrafluoroethylene, polyphenylenesulfide and polyetheretherketone.
- Shafts are 316 stainless steel or Alloy C.
- Bearings available in Carbon or Polytetrafluoroethylene.

DRIVE

The pump is driven directly from the electric motor shaft by means of a flexible coupling. A close-coupled adapter connects the pump to the motor.

LIQUIDS AND TEMPERATURE

This pump is suitable to handle clear lubricating and nonlubricating fluids at temperatures to 450F. These pumps will handle viscous fluids to 100,000 cps (462,000 SSU) at reduced shaft speeds.



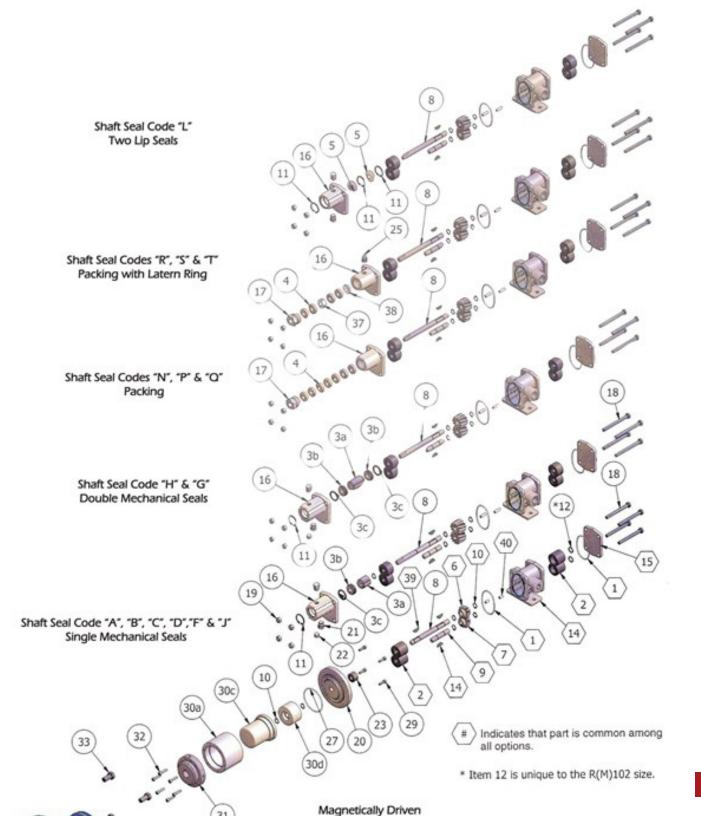
SUCTION LIFT

This pump has a suction lift capability of 20 feet for a new pump. Though gear pumps are self-priming, a foot valve is recommended. If possible, wet gears with the liquid to be pumped for the first dry start. Liquid retained in the system and gear chambers serves to wet the pump on subsequent starts.

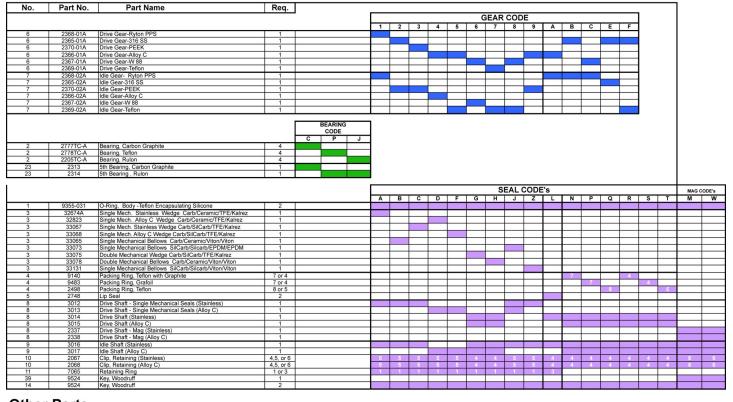
EXPLODED VIEW AND PARTS LIST



R(M)102, R(M)103, R(M)104 & R(M)106 METALLIC EXPLODED VIEW



CHEMkit Parts

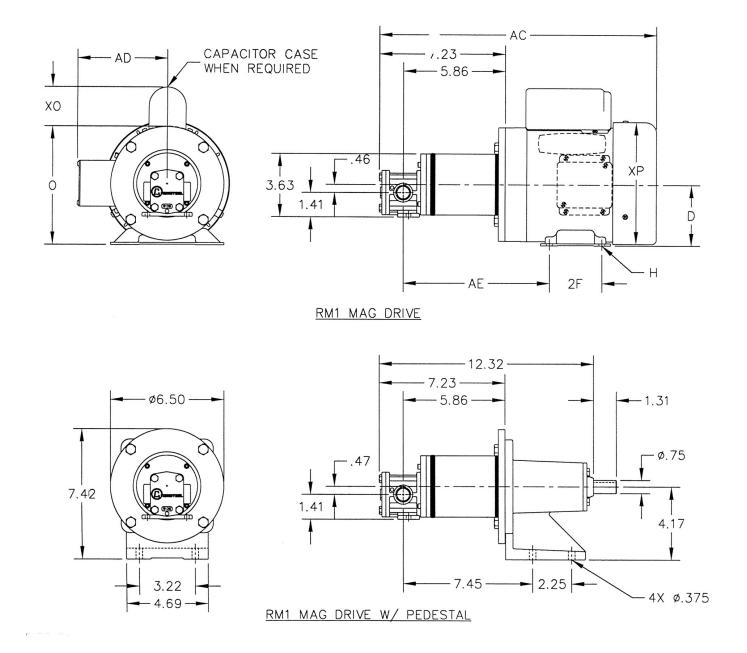


Other Parts

						SEAL CODE's						MAG CODE's										
					Α	В	С	D	F	G	н	J	Z	L	N	P	Q	R	S	Т	M	W
14	9127S-5P	Body with 1/2" NPT Ports (Stainless)	1																			
14	9127H-5P	Body with 1/2" NPT Ports (Alloy C)	1																			
15	9128S-1	Rear Cover (Stainless)	1																			
15	9128H-1	Rear Cover (Alloy C)	1																			
16	9130S-3	Front Cover, Single/ Double Mechanical (Stainless)	1															1.00				
16	9130H-3	Front Cover, Single/ Double Mechanical (Alloy C)	1																			
16	9129S-5	Front Cover, Lip (Stainless)	1																			
16	9129S-1	Front Cover, Packing (Stainless)	1																			
16	9129H-1	Front Cover, Packing (Alloy C)	1																			
16	9129S-3	Front Cover, Lantern Packing (Stainless)	1																			
16	9129H-3	Front Cover, Lantern Packing (Alloy C)	1																			
17	9138	Pack Nut (Stainless)	1																			
17	2746	Pack Nut (Alloy C)	1																			
18	9365-070	Hex Head Cap Screws	4															1				
18	9365-062	Hex Head Cap Screws (Mag)	4																			
19	9367	Hex Nuts	4																			
40	9793	Dowel Pin	2																			
21	6600-01	Hex Head Pipe Plug (Stainless)	2																			
21	6600-02	Hex Head Pipe Plug (Alloy C)	2																			
25	5390-01	Grease Lubrication Fitting	1																			
38	2695	Starter Ring	1																			
37	2671	Lantern Ring	1																			
20	2312S	Pump Adapter (Stainless)	1																			
20	2312H	Pump Adapter (Alloy C)	1																			
26	2302-01	Bell Housing	1												· · · ·							
27		O-Ring, Containment Can -Teflon Encapsulating Silicone	1																			
29	2481-014	Hex Head Cap Screws (Bell/Pump Adapter)	4																			
30 a b c d	2023-3NS	Magnet Kit, Neo (Stainless)	1																			
30 a b c d	2023-3NH	Magnet Kit, Neo (Alloy C)	1																			
30a b c d		Magnet Kit, Sam C (Stainless)	1																			
30a b c d	2023-3SH	Magnet Kit, Sam C (Alloy C)	1																			
					_																	
31,32,33,34,35	catalog	Mag - Power End Kit (motor hub, adapters, hardware)																				
	2464	Optional Mag Foot Kit (not shown)																				
	catalog	Sealed - Close Coupled Adapter Kit (not shown- faceplate, motor adapter, couplings, hardware)																				
	catalog	Sealed- Long Mount Bedplate Kits (not shown - base, shims, couplings, coupling guard, hardware)																				
	catalog	Motors (not shown)																				
	catalog	Pressure Relief Valve (not shown)																				

Series	Model	Repair Kit
RM106 M	RM10635CW-M1	RM10635CW-M1K
	RM10635CW	RM10635CWK
	RM10634CW-M1	RM10634CW-M1K
	RM10634CW	RM10634CWK
	RM10633CW-M1	RM10633CW-M1K
	RM10633CW	RM10633CWK
	RM1061FCW-M1	RM1061FCW-M1K
	RM1061FCW	RM1061FCWK
	RM1061ECW-M1	RM1061ECW-M1K
	RM1061BJW-M1	RM1061BJW-M1K
	RM10616PW-M1	RM10616PW-M1K
	RM10616JW-J81	RM10616JW-J81K
	RM10616CW-X1	RM10616CW-X1K
	RM10616CWM1-J47	RM10616CWM1-J47K
	RM10616CW-M1	RM10616CW-M1K
	RM10616CW	RM10616CWK
	RM10613CW-M1	RM10613CW-M1K
	RM10613CW	RM10613CWK
	RM10612JW-T3W82	RM10612JW-T3W82K
	RM10612JW-T3	RM10612JW-T3K

DIMENSIONS



FAX (315) 463-9561

MODEL CHART

MODEL	RM106					
Maximum Flow (gpm) @1750 RPM	3					
Theoretical Displacement (cc/revolution)	7.5					
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	1/2 inch FNPT					
weight-less motor (lbs)	13					

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 CHEMKIT[™] parts 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 ring.

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.

FIT

Connections are 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.