CHEMSTEEL™ PUMP SERIES

SM210 METALLIC

CHEMSTEEL™ PUMP

CHEMSTEEL PUMPS SERIES SM210 M

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 $\frac{\widehat{\mathbb{A}}}{2}_{\underline{\mathbb{A}}}$ 15

- Stainless or Alloy C housing construction.
- Gears available in metallic 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 and Polytetrafluoroethylene.

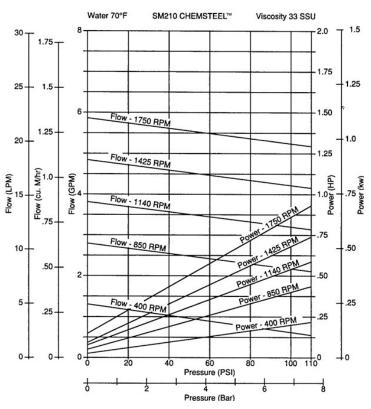
DRIVE

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.

PERFORMANCE



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

Chemsteel™ S(M)207, S(M)210 & S(M)214 Metallic 11 11 11 Shaft Seal Code "L" Two Lip Seals 17 Shaft Seal Codes "R", "S" & "T" Packing with Lantern Ring 16 17 3a Shaft Seal Codes "N", "P" & "Q" Packing 3b 16 Shaft Seal Codes "H" & "G" **Double Mechanical Seals** 18 15 19 Shaft Seal Codes "A", "B", "C", "D", "F" & "J" Single Mechanical Seals 11 39 Item 36 shown at high pressure port (Standard) 14 20N 1 for CCW lead end rotation motors and thin fluids 22 7 36 9 30d 30c 23 Common Parts 30a 28 **Magnetically Driven** with No Shaft Seal (New Style) Item # with N suffix indicates it is a New Part Number

CHEMkit Parts

No.	Part No.	Part Name	Req.																		l	
					GEAR CODE									l								
					1	2	3	4	5	6		8		Α	В	С	Е	F	ł		l	
6	2344-01A	Drive Gear-Ryton PPS	1										_						1		l	
6	2341-01A	Drive Gear-316 SS	1																1		l	
6	2346-01A	Drive Gear-PEEK	1																1		l	
6	2342-01A	Drive Gear-Alloy C	1																1		l	
6	2343-01A	Drive Gear-W 88	1																1		l	
6	2345-01A	Drive Gear-Teflon	1							1		l										
7	2344-02A	Idle Gear- Ryton PPS	1																1		l	
7	2341-02A	Idle Gear-316 SS	1																1		l	
7	2346-02A	Idle Gear-PEEK	1		1														1		l	
7	2342-02A	Idle Gear-Alloy C	1																1		l	
7	2343-02A	Idle Gear-W 88	1																1		l	
7	2345-02A	Idle Gear-Teflon	1		1														1		l	
2	2779TC-A	Bearing, Carbon Graphite	T 4	BEARING CODE C P J																		
2	2780TC-A	Bearing, Teflon	4		1																ı	
2	2209TC-A	Bearing, Rulon	4																		l	
23	5024-01	5th Bearing, Carbon Graphite	1		•																l	
		jotn Bearing, Carbon Graphite	1												ı							
23	2063	5th Bearing , Rulon	1								S	EAL (CODE	's							MAG	CODE's
	2063	5th Bearing , Rulon	1			В	С	D	F	G		EAL (N	P	Q	R	S	Т	MAG (CODE's
	2063 9355-143	O-Ring, Body -Teflon Encapsulating Silicone	2		A	В	С	D	F	G					N	P	Q	R	S	Т		
23 1 3	9355-143 32335	O-Ring, Body -Teflon Encapsulating Silicone Single Mech. Stainless Wedge Carb/Ceramic/TFE/Kalrez			A	В	С	D	F	G					N	P	Q	R	S	Т		
23	9355-143	O-Ring, Body -Teffon Encapsulating Silicone Single Mech. Stainless Wedge CartiCeramic/TFE/Kairez Single Mech. Alloy C Wedge CartiCeramic/TFE/Kairez			A	В	С	D	F	G					N	P	Q	R	S	Т		
23 1 3	9355-143 32335	O-Ring, Body -Teffon Encapsulating Silicone Single Mech. Stainless Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Stainless Wedge Carti/Silica/TFE/Kalrez	2		A	В	С	D	F	G					N	P	Q	R	S	T		
1 3 3	9355-143 32335 32536 33069 33070	O-Ring, Body -Teffon Encapsulating Silicone Single Mech. Stanliess Wedge Carrb/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carrb/Ceramic/TFE/Kalrez Single Mech. Stanliess Wedge Carrb/Silcarb/TFE/Kalrez Single Mech. Alloy C Wedge Carb/SilCarb/TFE/Kalrez	2 1 1		A	В	С	D	F	G					N	P	Q	R	S	Т		
1 3 3 3	9355-143 32335 32536 33069	O-Ring, Body -Teffon Encapsulating Silicone Single Mech. Stainless Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Silicarti/FE/Kalrez	2 1 1 1 1		A	В	С	D	F	G					N	P	Q	R	S	Т		
1 3 3 3 3 3 3	9355-143 32335 32536 33069 33070 32772 33079	O-Ring, Body -Teffon Encapsulating Silicone Single Mech. Stainless Wedge Carb/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carb/Sicarb/TFE/Kalrez Single Mech. Stainless Wedge Carb/Sicarb/TFE/Kalrez Single Mech. Alloy C Wedge Carb/SiCarb/TFE/Kalrez Single Mechanical Bellows Carb/Sicarb/TFK/Mirez Single Mechanical Bellows Carb/Sic	2 1 1 1 1 1		A	В	С	D	F	G					N	P	Q	R	S	Т		
1 3 3 3 3 3 3 3 3	9355-143 32335 32536 33069 33070 32772 33079 33076	O-Ring, Body -Teffon Encapsulating Silicone Single Mech. Stainless Wedge Carth/Ceramic/TFE/Kairez Single Mech. Alloy C Wedge Carth/Ceramic/TFE/Kairez Single Mech. Stainless Wedge Carth/Silcarth/FE/Marez Single Mech. Alloy C Wedge Carth/Silcarth/FE/Marez Single Mechanica Bellows Carth/Ceramic/Mion/Viton Single Mechanica Bellows SilCarth/Silcarth/FE/DMI/FDM Double Mechanical Wedge Carth/Silcarth/FE/Marez	2 1 1 1 1 1 1 1 1 1		A	В	С	D	F	G					N	P	Q	R	S	T		
1 3 3 3 3 3 3 3 3 3	9355-143 32335 32536 33069 33070 32772 33079 33076 33079	O-Ring, Body-Teflon Encapsulating Silicone Single Mech. Stainless Wedge Carth/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carth/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carth/Silicarth/TFE/Kalrez Single Mech. Alloy C Wedge Carth/Silicarth/TFE/Kalrez Single Mechanical Bellows Carth/Silicarth/TFE/Kalrez Single Mechanical Bellows Carth/Silicarth/TFE/Kalrez Double Mechanical Wedge Carth/Silicarth/TFE/Kalrez Double Mechanical Wedge Carth/Silicarth/TFE/Kalrez Double Mechanical Bellows Carth/Ceramic/Villon/Yiton	2 1 1 1 1 1 1 1 1 1		A	В	С	D	F	G					N	P	Q	R	S	T		
23 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	9355-143 32335 32536 33069 33070 32772 33079 33076 33079 33107	O-Ring, Body -Teffon Encapsulating Silicone Single Mech. Stainless Wedge Carth/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carth/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carth/Silcarth/FE/Marez Single Mech. Alloy C Wedge Carth/Silcarth/FE/Marez Single Mechanica Bellows Carth/Ceramic/Mion/Viton Single Mechanical Bellows Silcarth/Silcarth/FE/DMI/FDM Double Mechanical Wedge Carth/Silcarth/FE/Ralrez Double Mechanical Wedge Carth/Silcarth/FE/Ralrez Double Mechanical Bellows Silcarth/Silcarth/Filcarth/Filon/Viton Single Mechanical Bellows Silcarth/Silcarth/Filon/Viton	2 1 1 1 1 1 1 1 1 1 1 1 1		A	В	С	D	F	G					N	P	Q	R	S	T		
1 3 3 3 3 3 3 3 3 3 3 3 4	9355-143 32335 32536 33069 33070 32772 33079 33076 33079 33107 7558	O-Ring, Body -Teffon Encapsulating Silicone Single Mech. Stainless Wedge Carth/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carth/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carth/SiliCarth/TE/Kalrez Single Mech. Stainless Wedge Carth/SiliCarth/TE/Kalrez Single Mechanical Bellows Carth/SiliCarth/TE/Kalrez Single Mechanical Bellows SiliCarth/Silicarth/Te/Kalrez Double Mechanical Bellows Carth/SiliCarth/TE/Kalrez Double Mechanical Bellows Carth/Ceramic/Viton/Viton Single Mechanical Bellows Carth/Ceramic/Viton/Viton Packing Ring, Teffon with Graphite	2 1 1 1 1 1 1 1 1 1 1 7 or 4		A	В	С	D	F	G					N	P	Q	R A	S	T		
1 3 3 3 3 3 3 3 3 3 3 3 3 4 4	9365-143 32335 32536 33069 33070 32772 33079 33079 33107 7558 8523	O-Ring, Body -Teffon Encapsulating Silicone Single Mech. Stainless Wedge Carth/Ceramic/TFE/Kairez Single Mech. Alloy C Wedge Carth/Ceramic/TFE/Kairez Single Mech. Stainless Wedge Carth/Silcarth/FE/Mairez Single Mech. Alloy C Wedge Carth/Silcarth/FE/Mairez Single Mechanical Bellows Carth/Ceramic/Viton/Viton Single Mechanical Bellows Silicarth/Silcarth/FE/Mairez Double Mechanical Wedge Carth/Silicarth/FE/Mairez Double Mechanical Wedge Carth/Silicarth/FE/Mairez Double Mechanical Bellows Silicarth/Silicarth/Viton/Viton Single Mechanical Bellows Silicarth/Silicarth/Viton/Viton Packing Ring, Teffon with Graphite Packing Ring, Grafoil	2 1 1 1 1 1 1 1 1 1 1 7 or 4 6 or 4		A	В	С	D	F	G					N 7	P 6	Q	R 4	S	T		
23 1 3 3 3 3 3 3 3 3 3 4 4 4	9355-143 32335 32536 33069 33070 32772 33079 33076 33077 7558 8523 2446	O-Ring, Body -Teffon Encapsulating Silicone Single Mech. Stainless Wedge Carth/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carth/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carth/Silicarth/FE/Kalrez Single Mech. Stainless Wedge Carth/Silicarth/FE/Kalrez Single Mechanical Bellows Carth/Silicarth/FE/Kalrez Single Mechanical Bellows SiliCarth/Silicarth/FD/MicPDM Double Mechanical Bellows Carth/Silicarth/FD/MicPDM Double Mechanical Bellows Carth/Ceramic/Vilonn/fion Single Mechanical Bellows Carth/Ceramic/Vilonn/fion Packing Ring, Teffon with Graphite Packing Ring, Teffon with Graphite Packing Ring, Teffon	2 1 1 1 1 1 1 1 1 1 1 7 or 4 6 or 4		A	В	C	D	F	G					N 7	P 6	Q	R 4	4	T		
23 1 3 3 3 3 3 3 3 3 3 3 4 4 4 5	9355-143 32335 32536 33069 33070 32772 33079 33079 33079 33107 7558 8523 2496 7580	O-Ring, Body -Teffon Encapsulating Silicone Single Mech. Stainless Wedge Carth/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carth/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carth/Sicarth/FE/Kalrez Single Mech. Alloy C Wedge Carth/Sicarth/FE/Kalrez Single Mechanical Bellows Carth/Ceramic/Viton/Viton Single Mechanical Bellows Silicarth/Silcarth/FE/MIREPDM Double Mechanical Wedge Carth/Silicarth/FE/Ralrez Double Mechanical Wedge Carth/Silicarth/FE/Ralrez Double Mechanical Bellows Silicarth/Silicarth/Viton/Viton Single Mechanical Bellows Silicarth/Silicarth/Viton/Viton Packing Ring, Teffon with Graphite Packing Ring, Grafoil Lip Seal	2 1 1 1 1 1 1 1 1 1 7 or 4 6 or 4 7 or 4 2		A	В	С	D	F	G					N 7	P 6	Q 7	R 4	4	T 4		
23 1 3 3 3 3 3 3 3 3 3 4 4 4 5 8	9355-143 32335 32536 32536 33069 33070 33079 33079 33079 33079 33079 350	O-Ring, Body -Teffon Encapsulating Silicone Single Mech. Stainless Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Silicarti/FE/Kalrez Single Mech. Stainless Wedge Carti/Silicarti/FE/Kalrez Single Mechanical Bellows Carti/Ceramic/Vition/Vition Single Mechanical Bellows Silicarti/Silicarti/FE/Kalrez Double Mechanical Bellows Silicarti/Silicarti/FE/Kalrez Double Mechanical Bellows Carti/Ceramic/Vition/Vition Packing Ring, Teflon with Graphite Packing Ring, Teflon with Graphite Packing Ring, Teflon Lip Seal Diver Shaft - Single Mechanical Seals (Stainless)	2 1 1 1 1 1 1 1 1 1 1 1 1 1 7 or 4 6 or 4 7 or 4		A	В	С	D	F	G					N 7	P 6	Q 7	R 4	4	4		
23 1 3 3 3 3 3 3 3 3 3 4 4 4 5 8	9355-143 32335 32536 32536 33079 33079 33079 33076 33077 7558 8523 2496 7580 3021	O-Ring, Body -Teffon Encapsulating Silicone Single Mech. Stainless Wedge Carth/Ceramic/TFE/Kairez Single Mech. Alloy C Wedge Carth/Ceramic/TFE/Kairez Single Mech. Alloy C Wedge Carth/Sicarth/FE/Kairez Single Mech. Alloy C Wedge Carth/Sicarth/FE/Kairez Single Mechanical Bellows Garth/Ceramic/Viton/Viton Single Mechanical Bellows Silicarth/Sicarth/FE/Marez Double Mechanical Wedge Carth/Silicarth/FE/Rairez Double Mechanical Wedge Carth/Silicarth/FE/Rairez Double Mechanical Bellows Silicarth/Silicarth/Viton/Viton Packing Ring, Teflon with Graphite Packing Ring, Grafoil Packing Ring, Grafoil Up Seal Orive Shaft - Single Mechanical Seals (Stainless) Drive Shaft - Single Mechanical Seals (Stainless)	2 1 1 1 1 1 1 1 1 1 1 1 1 7 or 4 6 or 4 2 2		A	В	С	D	F	G					N	P 6	Q	R 4	4	4		
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23 1 3 3 3 3 3 3 3 3 3 3 3 4 4 4 4 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	9355-143 32335 32536 32536 33079 33079 33079 33079 33079 7558 8523 2496 3021 3022 3023 3023 3023 3023	O-Ring, Body -Teffon Encapsulating Silicone Single Mech. Stainless Wedge Carth/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carth/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carth/Sicarth/FE/Kalrez Single Mech. Alloy C Wedge Carth/Sicarth/FE/Kalrez Single Mechanica Bellows Scarth/Sicarth/FE/Kalrez Single Mechanical Bellows Sicarth/Sicarth/FE/Marez Double Mechanical Bellows Silicarth/Sicarth/FE/Kalrez Double Mechanical Wedge Carth/Sicarth/Fickalrez Double Mechanical Bellows Silicarth/Silicarth/Fickalrez Double Mechanical Bellows Silicarth/Fickalrez Double Mech	2 1 1 1 1 1 1 1 1 1 1 1 1 1 7 or 4 6 or 4 7 or 4 2 2		A	В	C	D	F	G					7	P 6	Q 7	4	4	4		
23 1 3 3 3 3 3 3 3 3 3 3 3 4 4 4 4 5 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	9355-143 32335 22536 33069 33079 32772 33079 33079 33107 7558 8523 2496 7580 3021 3022 3023 3023 3024 3023	O-Ring, Body -Teffon Encapsulating Silicone Single Mech. Stainless Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Silicarti/FE/Kalrez Single Mech. Alloy C Wedge Carti/Silicarti/FE/Kalrez Single Mech. Alloy C Wedge Carti/Silicarti/FE/Kalrez Single Mechanical Beliows Carti/Ceramic/Viton/Viton Single Mechanical Beliows Silicarti/Silicarti/FE/Kalrez Double Mechanical Beliows Silicarti/Silicarti/FE/Kalrez Double Mechanical Beliows Silicarti/Silicarti/FE/Kalrez Double Mechanical Beliows Silicarti/Silicarti/Viton/Viton Packing Ring, Felton with Graphite Packing Ring, Felton with Graphite Packing Ring, Telton Lip Seal Drive Shaft Single Mechanical Seals (Stainless) Drive Shaft Single Mechanical Seals (Alloy C) Drive Shaft (Silanless) Drive Shaft (Kiloy C)	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 7 or 4 6 or 4 7		A	В	С	D	F	G					7	P 6	7	R 4	4	4		
1 3 3 3 3 3 3 3 3 3 3 4 4 4 5 8 8 8 8	9355-143 32335 32536 32536 33079 33079 33079 33079 33079 7558 8523 2496 3021 3022 3023 3023 3024 3024 3025	Co-Ring, Body -Teffon Encapsulating Silicone Single Mech. Stainless Wedge Carth/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carth/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carth/Sicarth/FE/Marez Single Mech. Alloy C Wedge Carth/Sicarth/FE/Marez Single Mechanical Bellows Carth/Ceramic/Viton/Viton Single Mechanical Bellows Silicarth/Silcarth/FE/Marez Double Mechanical Wedge Carth/Silicarth/FE/Marez Double Mechanical Wedge Carth/Silicarth/FE/Marez Double Mechanical Bellows Silicarth/Silicarth/FE/Marez Double Mechanical Bellows Silicarth/Silicarth/Viton/Viton Packing Ring, Teflon with Graphite Packing Ring, Grafoli Packing Ring, Teflon Lip Seal Drive Shaft - Single Mechanical Seals (Stainless) Drive Shaft - Single Mechanical Seals (Stainless) Drive Shaft - Single Mechanical Seals (Alloy C) Drive Shaft - Mag (Alloy C) Idle Shaft (Stainless)	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 7 or 4 6 or 4 7 or 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		A	В	С	D	F	G					7	6 6	7	4	4	4		
23 1 3 3 3 3 3 3 3 3 3 3 3 4 4 4 4 5 5 8 8 8 8 8 9 9	9355-143 32335 32536 33069 33079 33079 33079 33079 33107 7558 8523 2496 7580 3021 3022 3023 3024 3024 3025 3026	O-Ring, Body -Teffon Encapsulating Silicone Single Mech. Stainless Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Silicarti/FE/Kalrez Single Mech. Alloy C Wedge Carti/Silicarti/FE/Kalrez Single Mechanical Beliows Silicarti/Silicarti/FE/Kalrez Single Mechanical Beliows Silicarti/Silicarti/FE/Kalrez Double Mechanical Beliows Silicarti/Silicarti/FE/Kalrez Double Mechanical Wedge Carti/Silicarti/FE/Kalrez Double Mechanical Wedge Carti/Silicarti/FE/Kalrez Double Mechanical Beliows Silicarti/Silicarti/Viton/Viton Packing Ring, Felton with Graphite Packing Ring, Felton with Graphite Packing Ring, Felton with Graphite Drive Shaft. Single Mechanical Seals (Stainless) Drive Shaft. Single Mechanical Seals (Alloy C) Drive Shaft (Stainless) Unive Shaft (Stainless) Idle Shaft (Stainless) Idle Shaft (Stainless)	2 1 1 1 1 1 1 1 1 1 1 1 1 7 or 4 6 or 4 7 or 4 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		A	B	C	D	F	G					7	6 G	7	4	4	4		
1 3 3 3 3 3 3 3 3 3 3 3 3 4 4 4 5 8 8 8 8 8 9 9	9355-143 32335 32536 32536 33079 33079 33079 33079 33079 7558 8523 2496 3021 3022 3023 3023 3024 3028 3026 3027 3028 3028 3028 3028 3028 3028 3028 3028	O-Ring, Body -Teffon Encapsulating Silicone Single Mech. Stainless Wedge Carth/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carth/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carth/Sicarth/FE/Kalrez Single Mech. Alloy C Wedge Carth/Sicarth/FE/Kalrez Single Mechanical Bellows Garth/Sicarth/FE/Kalrez Single Mechanical Bellows Silicarth/Sicarth/FE/Kalrez Double Mechanical Bellows Silicarth/Sicarth/FE/Kalrez Double Mechanical Wedge Carth/Silicarth/FE/Kalrez Double Mechanical Bellows Silicarth/Silicarth/FE/Kalrez Double Mechanical Bellows Silicarth/Silicarth/FE/Kalrez Double Mechanical Bellows Silicarth/Silicarth/FE/Kalrez Double Mechanical Bellows Silicarth/Silicarth/FE/Kalrez Double Mechanical Bellows Silicarth/Silicarth/Fichalrez Double Mechanical Bellows Silicarth/Fichalrez Double	2 1 1 1 1 1 1 1 1 1 1 1 1 7 or 4 6 or 4 2 2 1 1 1 1 1 1 1 1 7 or 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		A	B	5	5	F	6					7 7 4 4	6 6	7	4	4	4		
23 1 3 3 3 3 3 3 3 3 3 3 3 4 4 4 4 5 5 8 8 8 8 8 9 9	9355-143 32335 32536 33069 33079 33079 33079 33079 33107 7558 8523 2496 7580 3021 3022 3023 3024 3024 3025 3026	O-Ring, Body -Teffon Encapsulating Silicone Single Mech. Stainless Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Silicarti/FE/Kalrez Single Mech. Alloy C Wedge Carti/Silicarti/FE/Kalrez Single Mechanical Beliows Silicarti/Silicarti/FE/Kalrez Single Mechanical Beliows Silicarti/Silicarti/FE/Kalrez Double Mechanical Beliows Silicarti/Silicarti/FE/Kalrez Double Mechanical Wedge Carti/Silicarti/FE/Kalrez Double Mechanical Wedge Carti/Silicarti/FE/Kalrez Double Mechanical Beliows Silicarti/Silicarti/Viton/Viton Packing Ring, Felton with Graphite Packing Ring, Felton with Graphite Packing Ring, Felton with Graphite Drive Shaft. Single Mechanical Seals (Stainless) Drive Shaft. Single Mechanical Seals (Alloy C) Drive Shaft (Stainless) Unive Shaft (Stainless) Idle Shaft (Stainless) Idle Shaft (Stainless)	2 1 1 1 1 1 1 1 1 1 1 1 1 7 or 4 6 or 4 7 or 4 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		A	8 5 5	6 5	5 5	F 5 5 5	G 4 4 4 4					7 7 4 4 4	6 6 4 4 4	7 7	4 4	4 4 4	4		

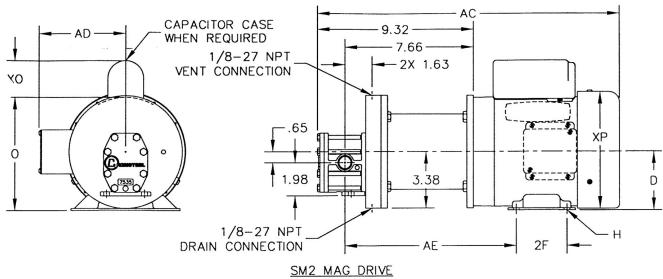
Other Parts

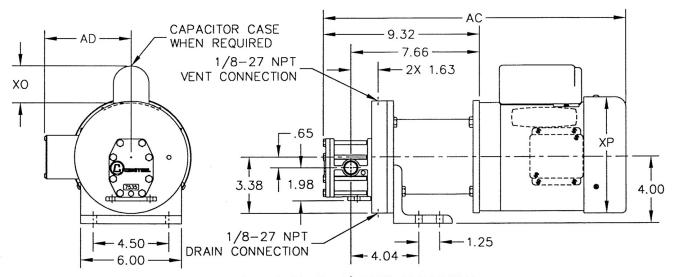
			SEAL CODE's							MAG CODE's												
					Α	В	С	D	F	G	Н	J	Z	L	N	P	Q	R	S	T	K	Υ
14		Body with 1/2" NPT Ports	1																			
15	2947W-1	Rear Cover	1																			
16	2945W-1	Front Cover, Single/ Double Mechanical	1											1								
16	2944W-1	Front Cover, Lip	1																			
16	2943W-1	Front Cover, Packing	1																			
16	2943W-3	Front Cover, Lantern Packing	1																			
17	2674	Pack Nut	1																			
18	2666-040	Hex Head Cap Screws	8 or 4		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	- 4	4
18	2666-020	Hex Head Cap Screws (Mag)	4																			
19	9367	Hex Nuts	8 or 4		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	4	4
41	2059	Flat Washer	8 or 4		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	4	4
40	9386 (9864)	Dowel Sleeve Pedestal (Dowel Sleeve Close Coupled)	2																			
40	2058	Dowel Seeve (Mag)	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	2696	Starter Ring	1																			
37	2672	Lantern Ring	1																			
22	6600-03	Hex Head Pipe Plug (Teflon)	2																			
20	2253-2	Pump Adapter	1																			
20	2253-2P	Pump Adapter	1																			
26	2099-B	Bell Housing	1																			
27	9355-038	O-Ring, Containment Can -Teflon Encapsulating Silicone	1																			
28		Socket Head Cap Screws (Can Flange)	6																			
29	2484-020	Hex Head Cap Screws (Bell/Pump Adapter)	4																			
30 a b d		Magnet Kit, Neo (Alloy C)	1																			
30 c	2251	Non Metallic Containment Can	1																			
30 c		Metallic Containment Can (Alloy C)	1																			
36	2919H-015	0.015" Orifice Plug	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)

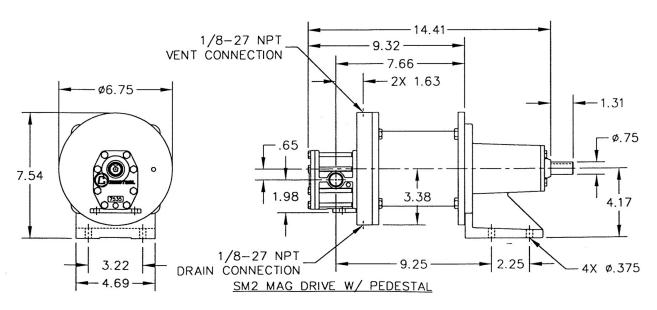
Series	Model	Repair Kit
SM210 M	SM21037CW-M2	SM21037CW-M2K
	SM21037CW	SM21037CWK
	SM21035JW-M1	SM21035JW-M1K
	SM2101HCW-M2	SM2101HCW-M2K
	SM2101FPW-N97	SM2101FPW-N97K
	SM2101ECW-M2	SM2101ECW-M2K
	SM2101ECW	SM2101ECWK
	SM2101BJW-M1	SM2101BJW-M1K
	SM2101BJW	SM2101BJWK
	SM21018PW-M4	SM21018PW-M4K
	SM21016CW-M2	SM21016CW-M2K
	SM21016CWM1-N47	SM21016CWM1-N47K
	SM21016CW-M1	SM21016CW-M1K
	SM21016CW	SM21016CWK
	SM21012JW-M81	SM21012JW-M81K

DIMENSIONS





SM2 MAG DRIVE W/ FOOT ACCESSORY



MODEL CHART

MODEL	SM210
Maximum Flow (gpm) @1750 RPM	5.6
Theoretical Displacement (cc/revolution)	14.9
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)	6
Standard Port Size	1/2 inch FNPT
weight-less motor (lbs)	28

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-torqueing required of pumps using pure TFE.

To order aCHEMKIT™ 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.
- Recirculation heat port versatility.
- · Containment can flush & drain connections.

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 worldwide acceptance. The port size is the same as competitive pumps.