# CHEMSTEEL™ PUMP SERIES S214 METALLIC

# **CHEMSTEEL™ PUMP**

# **CHEMSTEEL PUMPS SERIES S214 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 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. Full range of seal options including lip seal, packing and mechanical designs.

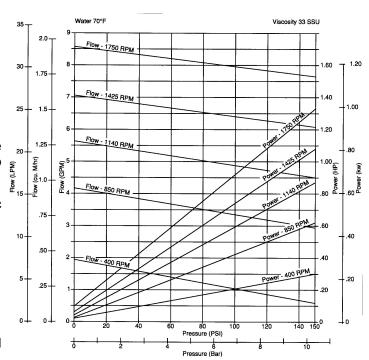
#### **DRIVE**

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 non-lubricating 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**

# SERIES S214 / SM214 METAL PUMPS

Revised 12/09/

# **CHEM**kit Parts

No.	Part No.	Part Name	Req.																			
					GEAR CODE																	
					1	2	3	4	5	6	7	8	9	Α	В	С	E	F	1			
6	2324-01A	Drive Gear-Ryton PPS	1																1			
6	2321-01A	Drive Gear-316 SS	1																1			
6	2326-01A	Drive Gear-PEEK	1					1						- 1					1			
6	2322-01A	Drive Gear-Alloy C	1															/	1			
6	2323-01A	Drive Gear-W 88	1															7	1			
6	2325-01A	Drive Gear-Teflon	1																1			
7	2324-02A	Idle Gear- Ryton PPS	1																ı			
7	2321-02A	Idle Gear-316 SS	1																l			
7	2326-02A	Idle Gear-PEEK	1													_			l			
7	2322-02A	Idle Gear-Alloy C	1		_	_						_	_			_	_		l			
7	2323-02A	Idle Gear-W 88	1		_	-	_	_							_	-	-					
/	2325-02A	Idle Gear-Teflon	1 1																ı			
				BEARING	1																	
				CODE	l																	
				CPJ	1																	
2	9867TC-A	Bearing, Carbon Graphite	4		1																I	
2	9350TC-A	Bearing, Teflon	4		1																	
2	2210TC-A	Bearing, Rulon	4		1																	
23	5024-01	5th Bearing, Carbon Graphite	1		1																	
23	2063	5th Bearing , Rulon	1		1																	
F											S	EAL (	CODE	's							MAG	CODE's
					A	В	С	D	F	G				L	N	P	Q	R	S	Т	M	W
1	0055 007																			_		
	1 9355-037	O-Ring, Body -Teflon Encapsulating Silicone	2																			
3	9355-037 32335	O-Ring, Body -Teflon Encapsulating Silicone Single Mech. Stainless Wedge Carb/Ceramic/TFE/Kalrez	2																			
3	32335	Single Mech. Stainless Wedge Carb/Ceramic/TFE/Kalrez																				
3 3	32335 32536	Single Mech. Stainless Wedge Carb/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carb/Ceramic/TFE/Kalrez	1																			
3	32335 32536 33069	Single Mech. Stainless Wedge Carb/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carb/Ceramic/TFE/Kalrez Single Mech. Stainless Wedge Carb/SilCarb/TFE/Kalrez	1																			
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3	32335 32536 33069	Single Mech. Stainless Wedge Carbi/Ceramic/TFE/Kalrez. Single Mech. Alloy C Wedge Carbi/Ceramic/TFE/Kalrez. Single Mech. Stainless Wedge Carb/SilCarb/TFE/Kalrez. Single Mech. Alloy C Wedge Carb/SilCarb/TFE/Kalrez. Single Mech. Alloy C Wedge Carb/SilCarb/TFE/Kalrez. Single Mechanical Bellows. Carb/Ceramic/Yton/Viton	1 1 1																			
3 3 3 3	32335 32536 33069 33070 32772	Single Mech. Stainless Wedge Carb/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carb/Ceramic/TFE/Kalrez Single Mech. Stainless Wedge Carb/SilCarb/TE/Kalrez Single Mech. Alloy C Wedge Carb/SilCarb/TE/Kalrez Single Mech. Alloy C Wedge Carb/SilCarb/TE/Kalrez Single Mechanical Bellows Carb/Ceramic/Vition/Vition Single Mechanical Bellows SilCarb/Silcarb/EPDM/EPDM	1 1 1																			
3 3 3 3 3	32335 32536 33069 33070 32772 33079	Single Mech. Stainless Wedge Carbi/Ceramic/TFE/Kalrez. Single Mech. Alloy C Wedge Carbi/Ceramic/TFE/Kalrez. Single Mech. Stainless Wedge Carb/SilCarb/TFE/Kalrez. Single Mech. Alloy C Wedge Carb/SilCarb/TFE/Kalrez. Single Mech. Alloy C Wedge Carb/SilCarb/TFE/Kalrez. Single Mechanical Bellows. Carb/Ceramic/Yton/Viton	1 1 1 1 1																			
3 3 3 3 3 3	32335 32536 33069 33070 32772 33079 33076	Single Mech. Stainless Wedge CartiCeramic/TFE/Kalrez Single Mech. Alloy C Wedge CartiCeramic/TFE/Kalrez Single Mech. Alloy C Wedge CartiSilCarti/TFE/Kalrez Single Mech. Alloy C Wedge CartiSilCarti/TFE/Kalrez Single Mech. Alloy C Wedge CartiSilCarti/TFE/Kalrez Single Mechanica Bellows SilCartiSilCartiFE/PMIE/PDM Double Mechanical Bellows SilCartiSilCartiFE/Relrez Double Mechanical Wedge CartiSilCartiFE/Relrez Double Mechanical Wedge CartiSilCartiFIE/Kalrez Single Mechanical Bellows SilCartiSilCartiVinor/Viton	1 1 1 1 1 1																			
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3 3 3 3 3 3 3 3 4 4 4	32335 32536 33069 33070 32772 33079 33079 33107 7558 8523 2496	Single Mech. Stainless Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Stainless Wedge Carti/Silicart/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Silicart/TFE/Kalrez Single Mechanical Bellows Carti/Silicarti/TFE/Kalrez Single Mechanical Bellows Carti/Ceramic/Vton/Viton Single Mechanical Bellows Carti/Silicarti/TFE/Kalrez Double Mechanical Bellows Carti/Silicarti/TFE/Kalrez Double Mechanical Bellows Carti-Ceramic/Vton/Viton Single Mechanical Bellows Silicarti/Silicarti/Vton/Viton Packing Ring, Teflon with Graphite Packing Ring, Grafoil	1 1 1 1 1 1 1 1 1 7 or 4 6 or 4 7 or 4												7	6	7	4	4	4		
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3 3 3 3 3 3 3 3 4 4 4 4 5 8	32335 32536 33069 33070 33077 33079 33079 33107 7558 8523 2496 2749 3001	Single Mech. Stainless Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Stainless Wedge Carti/Silicart/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Silicart/TFE/Kalrez Single Mechanical Bellows Carti/Silicart/TFE/Kalrez Single Mechanical Bellows Carti/Silicarti/TFE/Kalrez Single Mechanical Bellows Carti/Silicarti/TFE/Kalrez Double Mechanical Bellows Carti/Silicarti/TFE/Kalrez Double Mechanical Bellows Carti-Ceramic/Viton/Viton Single Mechanical Bellows Silicarti/Silicarti/Viton/Viton Packing Ring, Teflon with Graphite Packing Ring, Grafoli Lip Seal Drive Shaft - Single Mechanical Seals (Stainless)	1 1 1 1 1 1 1 1 1 7 or 4 6 or 4 7 or 4												7	6	7	4	4	4		
3 3 3 3 3 3 3 3 3 4 4 4 4 5 8	32335 32536 33069 33070 22772 33079 33079 33107 7558 8523 2496 2749 3001	Single Mech. Stainless Wedge CartiCeramic/TFE/Kaltez Single Mech. Alloy C Wedge CartiCeramic/TFE/Kaltez Single Mech. Alloy C Wedge CartiSclarion/TFE/Kaltez Single Mech. Stainless Wedge CartiScliar/TFE/Kaltez Single Mech. Alloy C Wedge CartiScliar/TFE/Kaltez Single Mechanical Bellows CartiSclarion/TFE/Kaltez Single Mechanical Bellows SicCartiScliar/TFE/Kaltez Double Mechanical Wedge CartiScliar/TFE/Kaltez Double Mechanical Wedge CartiScliar/TFE/Kaltez Double Mechanical Wedge CartiScliar/SicratiViton/Viton Single Mechanical Bellows SicZartiScliar/SicratiViton/Viton Packing Ring, Teflon with Graphite Packing Ring, Grafoil Packing Ring, Teflon Lip Seal Drive Shaft - Single Mechanical Seals (Stainless) Drive Shaft - Single Mechanical Seals (Stainless)	1 1 1 1 1 1 1 1 1 7 or 4 6 or 4 7 or 4 2												7	6	7	4	4	4		
3 3 3 3 3 3 3 3 4 4 4 4 5 8 8	32335 32536 33069 33070 33077 33079 33079 33107 7558 8523 2496 2749 3001 3002	Single Mech. Stainless Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Stainless Wedge Carti/Silacat/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Silacat/TFE/Kalrez Single Mechanical Bellows Carti/Silacat/TFE/Kalrez Single Mechanical Bellows Carti/Ceramic/Vton/Vion Single Mechanical Bellows Carti/Ceramic/Vton/Vion Double Mechanical Bellows Silacati/Silacat/TFE/Kalrez Double Mechanical Bellows Silacati/Silacat/TFE/Kalrez Double Mechanical Bellows Silacati/Silacati/Vton/Vion Packing Ring, Teflon with Graphite Packing Ring, Teflon with Graphite Packing Ring, Teflon Lip Seal Drive Shaft - Single Mechanical Seals (Stainless) Drive Shaft - Single Mechanical Seals (Alloy C) Drive Shaft - Single Mechanical Seals (Alloy C) Drive Shaft (Stainless)	1 1 1 1 1 1 1 1 1 1 7 or 4 6 or 4 7 or 4 2												7	6	7	4	4	4		
3 3 3 3 3 3 3 3 4 4 4 4 5 8 8 8	32335 32536 33069 33070 22772 33079 33107 33079 33107 7558 8523 2496 2749 3001 3002 3003 3004	Single Mech. Stainless Wedge CartiCeramic/TFE/Kalrez Single Mech. Alloy C Wedge CartiCeramic/TFE/Kalrez Single Mech. Stainless Wedge CartiSclian/TFE/Kalrez Single Mech. Alloy C Wedge CartiSclian/TFE/Kalrez Single Mech. Alloy C Wedge CartiSclian/TFE/Kalrez Single Mechanical Bellows CartiSclian/TFE/Kalrez Single Mechanical Bellows CartiSclian/TFE/Kalrez Double Mechanical Wedge CartiSclian/TFE/Kalrez Double Mechanical Wedge CartiSclian/TFE/Kalrez Double Mechanical Wedge CartiSclian/Sclian/Viton/Viton Single Mechanical Bellows Sican/Silcan/Silcan/Viton/Viton Packing Ring, Grafoil Packing Ring, Grafoil Packing Ring, Grafoil Drive Shaft - Single Mechanical Seals (Alloy C) Drive Shaft - Single Mechanical Seals (Alloy C) Drive Shaft (Stainless)	1 1 1 1 1 1 1 1 1 1 7 or 4 6 or 4 7 or 4 2 2 1 1												7	6	7	4	4	4		
3 3 3 3 3 3 3 3 4 4 4 4 5 8 8 8	32335 32536 33069 33070 32772 33079 33076 33077 7558 8523 2496 3001 3002 3003 3003 3004 3003	Single Mech. Stainless Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Stainless Wedge Carti/Silicart/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Silicart/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Silicart/TFE/Kalrez Single Mechanical Bellows Carti/Ceramic/Vton/Vion Single Mechanical Bellows Carti/Ceramic/Vton/Vion Double Mechanical Bellows Silicarti/Silicart/TFE/Kalrez Double Mechanical Bellows Silicarti/Silicart/TFE/Kalrez Double Mechanical Bellows Silicarti/Silicarti/Vion/Vion Packing Ring, Teflon with Graphite Packing Ring, Teflon with Graphite Packing Ring, Teflon Lip Seal Drive Shaft - Single Mechanical Seals (Stainless) Drive Shaft - Single Mechanical Seals (Alloy C) Drive Shaft (Klainless) Drive Shaft (Klainless)	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												7	6	7	4	4	4		
3 3 3 3 3 3 3 3 3 3 4 4 4 4 5 8 8 8 8 8 8	32335 32536 33069 33070 32772 33079 33079 33079 33107 7558 8523 2496 2749 3001 3002 3003 3004 3004	Single Mech. Stainless Wedge CartiCeramic/TFE/Kalrez Single Mech. Alloy C Wedge CartiCeramic/TFE/Kalrez Single Mech. Alloy C Wedge CartiSCeramic/TFE/Kalrez Single Mech. Alloy C Wedge CartiSCEIGATFE/Kalrez Single Mech. Alloy C Wedge CartiSCEIGATFE/Kalrez Single Mechanical Bellows CartiSCeramicViton/Viton Single Mechanical Bellows GartiSCeramicViton/Viton Single Mechanical Wedge CartiSCECATFE/Kalrez Double Mechanical Bellows SichariScitach/Viton/Viton Packing Ring, Grafoil Packing Ring, Grafoil Packing Ring, Grafoil Drive Shaft - Single Mechanical Seals (Alloy C) Drive Shaft - Single Mechanical Seals (Alloy C) Drive Shaft - Mag (Alloy C) Drive Shaft - Mag (Alloy C)	1 1 1 1 1 1 1 1 1 1 7 or 4 6 or 4 7 or 4 2 2 1 1												7	6	7	4	4	4		
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3 3 3 3 3 3 3 3 3 4 4 4 4 5 8 8 8 8 8 9 9	32335 32536 33069 33070 33777 33079 33079 33079 33107 7558 8523 2496 2749 3001 3002 3003 3004 3007 3008	Single Mech. Stainless Wedge CartiCeramic/TFE/Kalrez Single Mech. Alloy C Wedge CartiCeramic/TFE/Kalrez Single Mech. Alloy C Wedge CartiSCeramic/TFE/Kalrez Single Mech. Alloy C Wedge CartiSCeramic/TFE/Kalrez Single Mech. Alloy C Wedge CartiSCE/CartiFE/Kalrez Single Mechanical Bellows CartiSCeramic/Viron/Viron Packing Ring, Teflon with Graphite Packing Ring, Grafoii Packing Ring, Grafoii Drive Shart: Single Mechanical Seals (Alloy C) Drive Shart: Single Mechanical Seals (Alloy C) Drive Shart: Single Mechanical Seals (Alloy C) Drive Shart: Mag (Alloy C) Idle Shart (Stainless) Idle Shart (Stainless)	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												7	6	7	4	4	4		
3 3 3 3 3 3 3 3 4 4 4 4 5 8 8 8 8 8 8 9 9	32335 32556 33069 33070 32772 33079 33079 33079 33079 33107 558 8523 2496 2749 3001 3002 3003 3004 3004 3007 3008 3008 3006 3005	Single Mech. Stainless Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Stainless Wedge Carti/SilCart/TFE/Kalrez Single Mech. Alloy C Wedge Carti/SilCarti/TFE/Kalrez Single Mechanical Bellows Carti/Ceramic/Vton/Vton Single Mechanical Bellows Carti/Ceramic/Vton/Vton Double Mechanical Bellows SilCarti/SilCarti/TFE/Kalrez Double Mechanical Bellows SilCarti/SilCarti/TFE/Kalrez Double Mechanical Bellows SilCarti/SilCarti/TFE/Kalrez Double Mechanical Bellows SilCarti/SilCarti/TFE/Kalrez Double Mechanical Bellows SilCarti/SilCarti/Viton/Viton Packing Ring, Teflon with Graphite Packing Ring, Teflon with Graphite Packing Ring, Teflon Lip Seal Drive Shaft - Single Mechanical Seals (Stainless) Drive Shaft - Klaig (Stainless) Drive Shaft (Alloy C) Drive Shaft - Mag (Stainless) Idle Shaft (Stalinless) Idle Shaft (Stalinless)	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 7 or 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		5	5	5	5	5	4	4	5	5	4	7	6	7	4	4	4	6	G
3 3 3 3 3 3 3 3 4 4 4 4 4 5 8 8 8 8 8 9 9	32335 32536 33069 33070 337772 33079 33079 33079 33077 7558 8523 2496 2749 3001 3002 3003 3004 3007 3008 3006 5373 2065	Single Mech. Stainless Wedge CartiCeramic/TFE/Kalrez Single Mech. Alloy C Wedge CartiCeramic/TFE/Kalrez Single Mech. Alloy C Wedge CartiSCeramic/TFE/Kalrez Single Mech. Alloy C Wedge CartiSCilard/TFE/Kalrez Single Mech. Alloy C Wedge CartiSCilard/TFE/Kalrez Single Mechanical Bellows CartiSCilard/TFE/Kalrez Single Mechanical Bellows CartiSCilard/TFE/Micro Single Mechanical Bellows CartiSCilard/TFE/Micro Double Mechanical Bellows CartiSCilard/TFE/Micro Double Mechanical Bellows SicantSilard/TierKalrez Drive Shaft Silard Mechanical Seals (Alloy C) Drive Shaft (Stainless) Drive Shaft (Alloy C) Idle Shaft (Stainless) Idle Shaft (Alloy C) Icip, Retaining (Alloy C)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 7 or 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		5 5	5 5	5 5	5 5	5 5	4 4	4 4 4	5 5	5 5	4 4	7	6	7	4 4 4	4 4 4	4 4 4	6 6	6 6
3 3 3 3 3 3 3 3 3 4 4 4 4 5 8 8 8 8 8 8 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	32335 32556 33069 33070 32772 33079 33079 33079 33107 558 8523 2496 2749 3002 3003 3004 3004 3007 3008 3008 3006 3006 3006 3005	Single Mech. Stainless Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Stainless Wedge Carti/SilCart/TFE/Kalrez Single Mech. Alloy C Wedge Carti/SilCarti/TFE/Kalrez Single Mechanical Bellows Carti/Ceramic/Vton/Vion Single Mechanical Bellows Carti/Ceramic/Vton/Vion Double Mechanical Bellows SilCarti/SilCarti/TFE/Kalrez Double Mechanical Bellows SilCarti/SilCarti/Vion/Vion Packing Ring, Teflon with Graphite Packing Ring, Teflon with Graphite Packing Ring, Teflon Lip Seal Drive Shaft - Single Mechanical Seals (Stainless) Drive Shaft - Kalg (Stainless) Drive Shaft - Mag (Stainless) Drive Shaft - Mag (Stainless) Idle Shaft (Stainless) Idle Shaft (Alloy C) Lip, Retaining (Stainless) Cip, Retaining (Stainless) Cip, Retaining (Stainless) Cip, Retaining (Stainless)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		5 5 1	5 5 1	5 5 5 1	5 5 1	5 5 5 1	4 4 1	4 4 1	5 5 1	5 5 1	4 4 4 3 3	7	6	7	4 4 4	4 4 4	4	6 6	6 6
3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 5 8 8 8 8 8 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10	32335 32536 33069 33070 337772 33079 33079 33079 33079 7558 8253 2496 2749 3001 3002 3003 3004 3007 3008 3006 5373 2065 7639 24473	Single Mech. Stainless Wedge CartiCeramic/TFE/Kalrez Single Mech. Alloy C Wedge CartiCeramic/TFE/Kalrez Single Mech. Alloy C Wedge CartiSCeramic/TFE/Kalrez Single Mech. Alloy C Wedge CartiSCilard/TFE/Kalrez Single Mech. Alloy C Wedge CartiSCilard/TFE/Kalrez Single Mechanical Bellows CartiSCilard/TFE/Kalrez Single Mechanical Bellows CartiSCilard/TFE/Kalrez Double Mechanical Wedge CartiSCilard/TFE/Kalrez Double Mechanical Bellows Scilard/Siciard/TFE/Kalrez Double Mechanical Bellows Scilard/Siciard/Viton/Viton Single Mechanical Bellows Scilard/Siciard/Viton/Viton Packing Ring, Grafuli Packing Ring, Grafuli Packing Ring, Grafuli Packing Ring, Grafuli Drive Shaft Single Mechanical Seals (Stainless) Drive Shaft Single Mechanical Seals (Alloy C) Drive Shaft (Alloy C) Unive Shaft (Alloy C) Idle Shaft (Stainless) Idle Shaft (Alloy C) Retaining Ring Idley C	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		5 5 1	5 5 1	5 5 1	5 5 1	5 5 1	4 4 1	4 4 1	5 5 1	5 5 1	4 4 4 3 3	7	6	7	4 4 4	4 4 4	4 4 4 4	6 6	6 6
3 3 3 3 3 3 3 3 3 4 4 4 4 5 8 8 8 8 8 8 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	32335 32556 33069 33070 32772 33079 33079 33079 33107 558 8523 2496 2749 3002 3003 3004 3004 3003 3006 3006 3006 3006	Single Mech. Stainless Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Alloy C Wedge Carti/Ceramic/TFE/Kalrez Single Mech. Stainless Wedge Carti/SilCart/TFE/Kalrez Single Mech. Alloy C Wedge Carti/SilCarti/TFE/Kalrez Single Mechanical Bellows Carti/Ceramic/Vton/Vion Single Mechanical Bellows Carti/Ceramic/Vton/Vion Double Mechanical Bellows SilCarti/SilCarti/TFE/Kalrez Double Mechanical Bellows SilCarti/SilCarti/Vion/Vion Packing Ring, Teflon with Graphite Packing Ring, Teflon with Graphite Packing Ring, Teflon Lip Seal Drive Shaft - Single Mechanical Seals (Stainless) Drive Shaft - Kalg (Stainless) Drive Shaft - Mag (Stainless) Drive Shaft - Mag (Stainless) Idle Shaft (Stainless) Idle Shaft (Alloy C) Lip, Retaining (Stainless) Cip, Retaining (Stainless) Cip, Retaining (Stainless) Cip, Retaining (Stainless)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		5 5 1	5 5 1	5 5 1	5 5 1	5 5 1	4 4 1	4 4 1	5 5 1	5 5 1	4 4 4 3 3	7	6	7	4 4 4	4 4 4	4 4 4 4	6 6	6 6

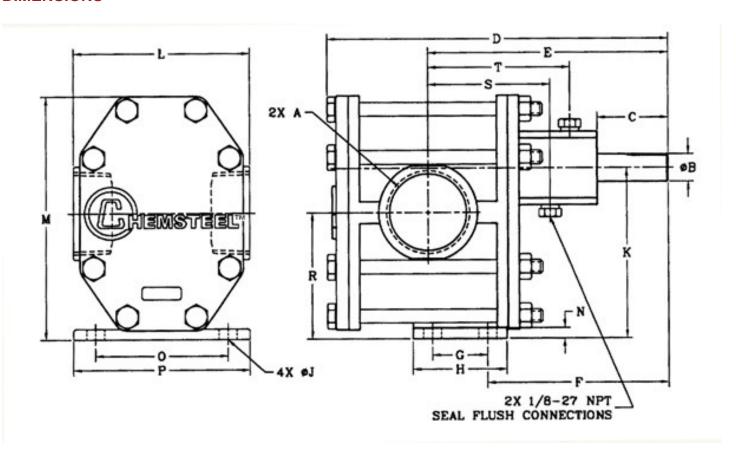
# **Other Parts**

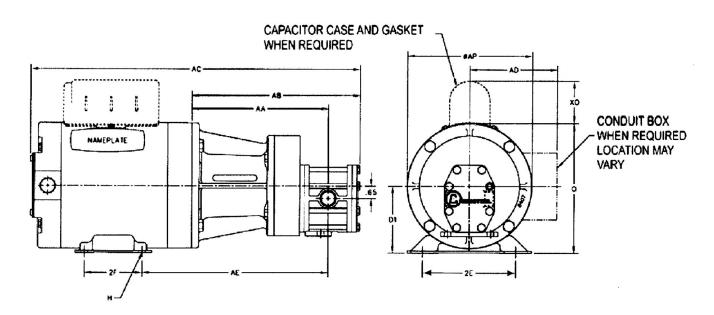
			SEAL CODE's													MAG CODE's						
					Α	В	С	D	F	G	Н	J	Z	L	N	P	Q	R	S	T	М	W
14	7532S-3	Body with 1/2" NPT Ports (Stainless)	1																			
14	7532H-3	Body with 1/2" NPT Ports (Alloy C)	1																			
15	7535S-1	Rear Cover (Stainless)	1																			
15	7535H-1	Rear Cover (Alloy C)	1																			
16	7534S-3	Front Cover, Single/ Double Mechanical (Stainless)	1																			
16	7534H-3	Front Cover, Single/ Double Mechanical (Alloy C)	1																			
16	8906S-5	Front Cover, Lip (Stainless)	1																			
16	8906S-1	Front Cover, Packing (Stainless)	1																			
16	8906H-1	Front Cover, Packing (Alloy C)	1																			
16	8906S-3	Front Cover, Lantern Packing (Stainless)	1																			
16	8906H-3	Front Cover, Lantern Packing (Alloy C)	1																			
17	7552	Pack Nut (Stainless)	1																			
17	8905	Pack Nut (Alloy C)	1																			
18	9365-090	Hex Head Cap Screws	8																			
18	9365-076	Hex Head Cap Screws (Mag)	8																	-		
19	9367	Hex Nuts	8																			
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	2696	Starter Ring	1																			
37	2672	Lantern Ring	1																			
22	2919-01	Allen Head Pipe Plug (Stainless)	2																			
22	2919-02	Allen Head Pipe Plug (Alloy C)	2																			
20	2489S-2	Pump Adapter (Stainless)	1																			
20	2489H-2	Pump Adapter (Alloy C)	1																			
26	2099-B	Bell Housing	1																			
27	9355-038	O-Ring, Containment Can -Teflon Encapsulating Silicone	1																			
28	2479-016	Socket Head Cap Screws (Can Flange)	6																			
29	2484-020	Hex Head Cap Screws (Bell/Pump Adapter)	4																			
30 a b c d	2023-8NS	Magnet Kit, Neo (Stainless)	1																			
30 a b c d	2023-8NH	Magnet Kit, Neo (Alloy C)	1																			
30a b c d	2023-8SS	Magnet Kit, Sam C (Stainless)	1																			
30a b c d	2023-8SH	Magnet Kit, Sam C (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)
	catalog	Pressure Relief Valve (not shown)

Series	Model	Repair Kit
S214 M	S21437JD	S21437JDK
	S21435PF-C2	S21435PF-C2K
	S21435PF	S21435PFK
	S21435CF-C1	S21435CF-C1K
	S21435CF	S21435CFK
	S21435CD	S21435CDK
	S21435CB	S21435CBK
	S21433JD	S21433JDK
	S2141FPN	S2141FPNK
	S2141FPL	S2141FPLK
	S2141FPC	S2141FPCK
	S2141FPB	S2141FPBK
	S2141FPA-C1	S2141FPA-C1K
	S2141FPA	S2141FPAK
	S2141FJJ	S2141FJJK
	S2141FJH-T5BC2	S2141FJH-T5BC2K
	S2141FJH-T5B	S2141FJH-T5BK
	S2141FCC	S2141FCCK
	S2141FCB-C4	S2141FCB-C4K
	S2141FCB-C2	S2141FCB-C2K
	S2141FCB-C1	S2141FCB-C1K
	S2141FCB	S2141FCBK
	S2141EPB	S2141EPBK

# **DIMENSIONS**





#### **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. The upper shaft configuration lends itself to inline pump seal maintenance without the leakage of trapped chemicals from an incompletely drained pump. To order a CHEMkit®, simply add a "K" to the end of the model number. A repair kit contains the following parts: seals, 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 worldwide acceptance. "Near" dimensional interchangeability offers easy upgrade to CHEMSTEEL™ pump. The port size is the same as competitive pumps.