



**CONSOLIDATED
BILL OF MATERIALS (BOM)
FOR STANDARD
MAX[®]-SERIES GEAR PUMPS**



**Models M0-M4 Sealed,
Close-Coupled**



**Models M5-M8 Sealed &
Models M0-M8 Mag-Drive,
Close-Coupled**

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<p style="text-align: center;">Liquiflo Chemical Processing Pumps™</p>	<p style="font-size: 1.2em; font-weight: bold; color: yellow;">Max[®]-Series Gear Pumps</p> <p style="font-weight: bold; color: yellow;">BOM: SEALED, CC Models M0 thru M4</p>
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Part Description	Drwg. Item #	316 Stainless Steel Construction						
		Code	Material	M0	M1	M2	M3	M4
Position 2 – Basic Material & Port Type (Center Housing, Pins, Coupling Parts & Hardware)								
Center Housing, NPT	20	S	316 SS			740002		740001
Center Housing, Flanged, 150# ¹	20	L	316 SS			740011		740013
Center Housing, Flanged, 300# ¹	20	K	316 SS			740015		740017
Center Housing, BSPT	20	X	316 SS			740025		740023
Pin, Bearing Lock	25	S, L, K, X	Teflon			361801 (4)		
Pin, Bearing Lock (High Temperature)	25	S, L, K, X	316 SS			361807 (4)		
Pin, Housing Alignment	23	S, L, K, X	17-4 PHSS			780801 (4)		
Coupling Hub, Pump – 1/2"	29	S, L, K, X	Cast Iron			5267		
Coupling Spider	30	S, L, K, X	Urethane			5277		
Key, Coupling (Pump Shaft)	27	S, L, K, X	316 SS			741900		
Bolt, Housing (5/16-18 x 2.0/2.5)	4	S, L, K, X	18-8 SS			641111 (4)		641109 (4)
Bolt, Front Housing (5/16-18 x 5/8)	24	S, L, K, X	18-8 SS			641110 (4)		
Bolt, Seal Housing (1/4-28 x 5/8)	13	S, L, K, X	18-8 SS			785006 (4)		
Tag, Rear Housing	–	S, L, K, X	316 SS			780810		
Rivet, Tag (#2 x 1/4)	–	S, L, K, X	18-8 SS			780805 (2)		
Position 3 – Drive Gear								
Gear-Shaft, Drive (LH), SMS	21	9 (P.8 = U)	17-4 PHSS	740364	740366	740310	740308	740306
Gear-Shaft, Drive (LH), DMS	21	9 (P.8 = F)	17-4 PHSS	740365	740367	740311	740309	740307
Gear (Spur Type)	21	6	316 SS	740680	740683	740686	740689	740692
Gear (Spur Type)	21	P	PEEK	740681	740684	740687	740690	740693
Key, Gear	22	6, P	316 SS			950029		741900
Retaining Ring, Gear	10	6, P	316 SS			746702 (2)		
Position 4 – Idler Gear								
Gear-Shaft, Idler (RH)	6	9	17-4 PHSS	740360	740362	740302	740300	740304
Gear (Spur Type)	6	6	316 SS	740680	740683	740686	740689	740692
Gear (Spur Type)	6	P	PEEK	740681	740684	740687	740690	740693
Key, Gear	22	6, P	316 SS			950029		741900
Retaining Ring, Gear	10	6, P	316 SS			746702 (2)		
Position 5 – Wear Plates								
Wear Plate, Relieved	7	3	Teflon	740500 (4)	740501 (4)	310590 (4)		340521 (4)
Wear Plate, Relieved	7	B	SiC	740508 (4)	740509 (4)	310597 (4)		340582 (4)
Wear Plate, Relieved	7	E	Carb. 60	740504 (4)	740505 (4)	310596 (4)		340523 (4)
Wear Plate, Relieved	7	P	PEEK	740506 (4)	740507 (4)	310591 (4)		340524 (4)
Position 6 – Bearings								
Bearing	3	B	SiC			740413 (4)		
Bearing	3	E	Carb. 60			740401 (4)		
Bearing	3	P	PEEK			740414 (4)		
Position 7 – Motor Frame (Mounting Bracket, Mechanical Coupling & Hardware)								
Bracket – NEMA 56C	26	0	316 SS			780950		
Coupling Hub, Motor – 5/8"	28	0	Cast Iron			5270		
Bracket – NEMA 143/145TC	26	1	316 SS			780950		
Coupling Hub, Motor – 7/8"	28	1	Cast Iron			5271		
Bracket – IEC 71 - B5 Flange	26	2	316 SS			780951		
Coupling Hub, Motor – 14 mm	28	2	Cast Iron			5274		
Bracket – IEC 80 - B5 Flange	26	3	316 SS			780952		
Coupling Hub, Motor – 19 mm	28	3	Cast Iron			5275		
Bracket – IEC 90 - B5 Flange	26	4	316 SS			780952		
Coupling Hub, Motor – 24 mm	28	4	Cast Iron			5276		
Motor-Mounting Hardware	15	0 - 4	18-8SS					See Appendix 3

1 - Flanges are ANSI RF type. Other flanges are available; consult factory.

Note: All bolts are SHCS type.

See page 10 for Reference Drawing.

Liquiflo Chemical Processing Pumps™	Max[®]-Series Gear Pumps BOM: SEALED, CC Models M0 thru M4
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Part Description	Drwg. Item #	316 Stainless Steel Construction						
		Code	Material	M0	M1	M2	M3	M4
Position 8 – Seal Type								
Mechanical Seal, Single	14	U	316 SS / Carb.	A-867058 (to 350°F) or A-867056 (> 350°F) ²				
Seal Seat, SMS	16	U	SiC	621015				
Retaining Ring, SMS	10	U	316 SS	746702				
Plug, 1/8 NPT (Socket Head)	9	U	316 SS	362308 (2)				
Mechanical Seal, Double	14	F	316 SS / Carb.	A-867031 (to 350°F) or A-867033 (> 350°F) ²				
Seal Seat, DMS	16	F	SiC	621015 (2)				
Seal Housing	11	U, F	316 SS	740950				
Position 9 – Bearing Flush Option (Front & Rear Housings)								
Front Housing, Std.	8	0	316 SS	740100				
Front Housing, IBF	8	2	316 SS	740105				
Rear Housing, Std.	2	0	316 SS	740200				
Rear Housing, IBF	2	2	316 SS	740210				
Position 10 – Shafts								
Drive Shaft, Uncoated, SMS	19	0 (P.8=U)	316 SS	740312		740313		
Drive Shaft, CO-Coated, SMS	19	1 (P.8=U)	316 SS/CO	740312-CO		740313-CO		
Drive Shaft, TC-Coated, SMS	19	2 (P.8=U)	316 SS/TC	740312-TC		740313-TC		
Drive Shaft, Uncoated, DMS	19	0 (P.8=F)	316 SS	740318		740319		
Drive Shaft, CO-Coated, DMS	19	1 (P.8=F)	316 SS/CO	740318-CO		740319-CO		
Drive Shaft, TC-Coated, DMS	19	2 (P.8=F)	316 SS/TC	740318-TC		740319-TC		
Idler Shaft, Uncoated	1	0	316 SS	740314		740315		
Idler Shaft, CO-Coated	1	1	316 SS/CO	740314-CO		740315-CO		
Idler Shaft, TC-Coated	1	2	316 SS/TC	740314-TC		740315-TC		
Gear-Shaft, Drive (LH)	21	3	17-4 PHSS	Position 3 = 9				
Gear-Shaft, Idler (RH)	6	3	17-4 PHSS	Position 4 = 9				
Position 11 – O-Rings								
O-ring, Housing (2-036)	5	0	Teflon	441103 (2)				
O-ring, Seal Housing (2-028)	18	0	Teflon	207015 (1)				
O-ring, Seal Seat, SMS (2-210)	17	0	Viton	371026 (1)				
O-ring, Seal Seat, DMS (2-210)	17	0	Viton	371026 (2)				
O-ring, Housing (2-036)	5	V	Viton	441104 (2)				
O-ring, Seal Housing (2-028)	18	V	Viton	207016 (1)				
O-ring, Seal Seat, SMS (2-210)	17	V	Viton	371026 (1)				
O-ring, Seal Seat, DMS (2-210)	17	V	Viton	371026 (2)				
O-ring, Housing (2-036)	5	T	Teflon	441103 (2)				
O-ring, Seal Housing (2-028)	18	T	Teflon	207015 (1)				
O-ring, Seal Seat, SMS (2-210)	17	T	Kalrez	371029 (1)				
O-ring, Seal Seat, DMS (2-210)	17	T	Kalrez	371029 (2)				
O-ring, Housing (2-036)	5	K	Kalrez	441106 (2)				
O-ring, Seal Housing (2-028)	18	K	Kalrez	207020 (1)				
O-ring, Seal Seat, SMS (2-210)	17	K	Kalrez	371029 (1)				
O-ring, Seal Seat, DMS (2-210)	17	K	Kalrez	371029 (2)				
Suffix – Trim Options								
Temperature Trim (Gears/Bearings)	-	-8(T) ³	-	Consult Factory				
Viscosity Trim (Gears)	-	-9D, -9T	-					

2 - Low-Temperature Seal has Teflon Wedge; High-Temperature Seal has Graphoil Wedge.

3 - T = Application Temperature in °F (e.g., -8(300) = Temperature Trim at 300°F).

<p style="text-align: center;">Liquiflo Chemical Processing Pumps™</p>	<p>Max[®]-Series Gear Pumps BOM: MAG-DRIVE, CC Models M0 thru M4</p>
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Part Description	Drwg. Item #	316 Stainless Steel Construction						
		Code	Material	M0	M1	M2	M3	M4
Position 2 – Basic Material & Port Type (Center Housing, C. Can, Pins & Hardware)								
Center Housing, NPT	21	S	316 SS			740002		740001
Center Housing, Flanged, 150# ¹	21	L	316 SS			740011		740013
Center Housing, Flanged, 300# ¹	21	K	316 SS			740015		740017
Center Housing, BSPT	21	X	316 SS			740025		740023
Containment Can	12	S, L, K, X	316 SS			740913		
Pin, Bearing Lock	28	S, L, K, X	Teflon			361801 (4)		
Pin, Bearing Lock (High Temperature)	28	S, L, K, X	316 SS			361807 (4)		
Pin, Housing Alignment	24	S, L, K, X	17-4 PHSS			780801 (4)		
Bolt, Housing (5/16-18 x 2.0/2.5)	4	S, L, K, X	18-8 SS			641111 (4)		641109 (4)
Bolt, Front Housing (3/8-16 x 1-1/2)	26	S, L, K, X	18-8 SS			781117 (4)		
Nut, Front Housing (3/8-16)	25	S, L, K, X	18-8 SS			S1003 (4)		
Lock-washer, Front Housing (3/8)	29	S, L, K, X	18-8 SS			S1004 (4)		
Bolt, C. Can (5/16-24 x 5/8 BSHCS)	18	S, L, K, X	18-8 SS			785008 (6)		
Tag, Rear Housing	-	S, L, K, X	316 SS			780810		
Rivet, Tag (#2 x 1/4)	-	S, L, K, X	18-8 SS			780805 (2)		
Position 3 – Drive Gear								
Gear (Spur Type)	22	6	316 SS	740680	740683	740686	740689	740692
Gear (Spur Type)	22	P	PEEK	740681	740684	740687	740690	740693
Key, Gear	23	6, P	316 SS			950029		741900
Retaining Ring, Gear	27	6, P	316 SS			746702 (2)		
Position 4 – Idler Gear								
Gear (Spur Type)	6	6	316 SS	740680	740683	740686	740689	740692
Gear (Spur Type)	6	P	PEEK	740681	740684	740687	740690	740693
Key, Gear	23	3, 6, P	316 SS			950029		741900
Retaining Ring, Gear	27	3, 6, P	316 SS			746702 (2)		
Position 5 – Wear Plates								
Wear Plate, Relieved	7	3	Teflon	740500 (4)	740501 (4)	310590 (4)		340521 (4)
Wear Plate, Relieved	7	B	SiC	740508 (4)	740509 (4)	310597 (4)		340582 (4)
Wear Plate, Relieved	7	E	Carbon 60	740504 (4)	740505 (4)	310596 (4)		340523 (4)
Wear Plate, Relieved	7	P	PEEK	740506 (4)	740507 (4)	310591 (4)		340524 (4)
Position 6 – Bearings								
Bearing	3	B	SiC			740413 (4)		
Bearing	3	E	Carbon 60			740401 (4)		
Bearing	3	P	PEEK			740414 (4)		
Position 7 – Motor Frame (Pedestal & Hardware)								
Pedestal – NEMA 56C	16	0	CI/Epoxy			SP000		
Pedestal – NEMA 143/145TC	16	1	CI/Epoxy			SP000		
Pedestal – IEC 71 - B5 Flange	16	2	CI/Epoxy			SP001		
Pedestal – IEC 80 - B5 Flange	16	3	CI/Epoxy			SP002		
Pedestal – IEC 90 - B5 Flange	16	4	CI/Epoxy			SP002		
Motor-Mounting Hardware	15	0 - 4	18-8SS			See Appendix 3		
Position 8 – Mag-Drive								
Magnetic-Drive (Sealless)	-	0	-			See Position 12		

1 - Flanges are ANSI RF type. Other flanges are available; consult factory.

Note: All bolts are SHCS type.

See page 12 for Reference Drawing.

Liquiflo Chemical Processing Pumps™	Max[®]-Series Gear Pumps BOM: MAG-DRIVE, CC Models M0 thru M4
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Part Description	Drwg. Item #	316 Stainless Steel Construction					
		Code	Material	M0	M1	M2	M3
Position 9 – Bearing Flush Option (Front & Rear Housings)							
Front Housing, MC, Std.	8	0	316 SS			740101	
Front Housing, MC, IBF	8	2	316 SS			740103	
Rear Housing, Std.	2	0	316 SS			740200	
Rear Housing, IBF	2	2	316 SS			740210	
Position 10 – Shafts							
Drive Shaft, MC, Uncoated	20	0	316 SS		740321		740331
Drive Shaft, MC, CO-Coated	20	1	316 SS/CO		740321-CO		740331-CO
Drive Shaft, MC, TC-Coated	20	2	316 SS/TC		740321-TC		740331-TC
Idler Shaft, Uncoated	1	0	316 SS		740314		740315
Idler Shaft, CO-Coated	1	1	316 SS/CO		740314-CO		740315-CO
Idler Shaft, TC-Coated	1	2	316 SS/TC		740314-TC		740315-TC
Gear-Shaft, Drive (LH)	-	3	17-4 PHSS			X	
Gear-Shaft, Idler (RH)	-	3	17-4 PHSS			X	
Position 11 – O-Rings							
O-ring, Housing (2-036)	5	0	Teflon			441103 (2)	
O-ring, Containment Can (2-042)	19	0	Teflon			S4000	
O-ring, Housing (2-036)	5	V	Viton			441104 (2)	
O-ring, Containment Can (2-042)	19	V	Viton			S4002	
O-ring, Housing (2-036)	5	K	Kalrez			441106 (2)	
O-ring, Containment Can (2-042)	19	K	Kalrez			S4004	
Position 12 – Magnetic Coupling							
Inner Magnet, MCU – 1/2" Bore	11	U	316 SS/SmCo			SIMCU-04	
Outer Magnet, MCU – 5/8" Bore	10	U (Pos. 7 = 0)	CS/ SmCo			SOMCU-5	
Outer Magnet, MCU – 7/8" Bore	10	U (Pos. 7 = 1)	CS/ SmCo			SOMCU-7	
Outer Magnet, MCU – 14 mm Bore	10	U (Pos. 7 = 2)	CS/ SmCo			SOMCU-71	
Outer Magnet, MCU – 19 mm Bore	10	U (Pos. 7 = 3)	CS/ SmCo			SOMCU-80	
Outer Magnet, MCU – 24 mm Bore	10	U (Pos. 7 = 4)	CS/ SmCo			SOMCU-90	
Inner Magnet, MCB – 1/2" Bore	11	B	316 SS/SmCo			SIMCB-04	
Outer Magnet, MCB – 5/8" Bore	10	B (Pos. 7 = 0)	CS/ SmCo			SOMCB-5	
Outer Magnet, MCB – 7/8" Bore	10	B (Pos. 7 = 1)	CS/ SmCo			SOMCB-7	
Outer Magnet, MCB – 14 mm Bore	10	B (Pos. 7 = 2)	CS/ SmCo			SOMCB-71	
Outer Magnet, MCB – 19 mm Bore	10	B (Pos. 7 = 3)	CS/ SmCo			SOMCB-80	
Outer Magnet, MCB – 24 mm Bore	10	B (Pos. 7 = 4)	CS/ SmCo			SOMCB-90	
Inner Magnet, MCV – 1/2" Bore	11	V	316 SS/SmCo			SIMCV-04	
Outer Magnet, MCV – 5/8" Bore	10	V (Pos. 7 = 0)	CS/ SmCo			SOMCV-5	
Outer Magnet, MCV – 7/8" Bore	10	V (Pos. 7 = 1)	CS/ SmCo			SOMCV-7	
Outer Magnet, MCV – 14 mm Bore	10	V (Pos. 7 = 2)	CS/ SmCo			SOMCV-71	
Outer Magnet, MCV – 19 mm Bore	10	V (Pos. 7 = 3)	CS/ SmCo			SOMCV-80	
Outer Magnet, MCV – 24 mm Bore	10	V (Pos. 7 = 4)	CS/ SmCo			SOMCV-90	
Key, Inner Magnet	13	U, B, V	316 SS			741900	
Retaining Ring, Inner Magnet	27	U, B, V	316 SS			746702 (2)	
Suffix – Trim Options							
Temperature Trim (Gears/Bearings)	-	-8(T) ²	-				Consult Factory
Viscosity Trim (Gears)	-	-9D, -9T	-				

2 - T = Application Temperature in °F (e.g., -8(300) = Temperature Trim at 300°F).

Liquiflo Chemical Processing Pumps™	Max[®]-Series Gear Pumps BOM: SEALED, CC Models M5 thru M8
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Part Description	Drwg. Item #	316 Stainless Steel Construction					
		Code	Material	M5	M6	M7	M8
Position 2 – Basic Material & Port Type (Center Housing, Pins, Coupling Parts & Hardware)							
Center Housing, NPT	20	S	316 SS	780003	780008	780013	780018
Center Housing, Flanged, 150# ¹	20	L	316 SS	780030	780040	780050	780060
Center Housing, Flanged, 300# ¹	20	K	316 SS	780032	780042	780052	780062
Center Housing, BSPT	20	X	316 SS	780005	780010	780015	780020
Pin, Bearing Lock	25	S, L, K, X	Teflon	361801 (4)			
Pin, Bearing Lock (High Temperature)	25	S, L, K, X	316 SS	361807 (4)			
Pin, Housing Alignment	23	S, L, K, X	17-4 PHSS	780801 (4)			
Coupling Hub, Pump – 3/4"	29	S, L, K, X	Cast Iron	5288			
Key, Coupling (Pump Shaft)	27	S, L, K, X	316 SS	781910			
Bolt, Housing (5/16-18 x L) ²	4	S, L, K, X	18-8 SS	641109 (8)	781114 (8)	781113 (8)	781112 (8)
Bolt, Front Housing (3/8-16 x 1-5/8)	24	S, L, K, X	18-8 SS	781115 (4)			
Nut, Front Housing (3/8-16)	–	S, L, K, X	18-8 SS	S1003 (4)			
Lock-washer, Front Housing (3/8)	–	S, L, K, X	18-8 SS	S1004 (4)			
Bolt, Seal Housing (1/4-28 x 5/8)	13	S, L, K, X	18-8 SS	785006 (4)			
Adapter Ring, Pedestal (Obsolete)	12	S, L, K, X	CS/Epoxy	780800			
Tag, Rear Housing	–	S, L, K, X	316 SS	780810			
Rivet, Tag (#2 x 1/4)	–	S, L, K, X	18-8 SS	780805 (2)			
Position 3 – Drive Gear							
Gear-Shaft, Drive (LH), SMS	–	9 (P. 8 = U)	17-4 PHSS	780322	780302	780314	780319
Gear-Shaft, Drive (LH), DMS	–	9 (P. 8 = F)	17-4 PHSS	780323	780303	780315	780320
Gear (Spur Type)	21	6	316 SS	780680	780683	780686	780689
Gear (Spur Type)	21	P	PEEK	780681	780684	780687	780690
Key, Gear	22	6, P	316 SS	781915	781910	781905	781900
Retaining Ring, Gear	10	6, P	316 SS	786702 (2)			
Position 4 – Idler Gear							
Gear w/ Integral Shaft, Idler (RH)	–	9	17-4 PHSS	780340	780350	780360	780370
Gear (Spur Type)	6	6	316 SS	780680	780683	780686	780689
Gear (Spur Type)	6	P	PEEK	780681	780684	780687	780690
Key, Gear	22	3, 6, P	316 SS	781915	781910	781905	781900
Retaining Ring, Gear	10	3, 6, P	316 SS	786702 (2)			
Position 5 – Wear Plates							
Wear Plate, Relieved	7	3	Teflon	780501 (4)			
Wear Plate, Relieved	7	B	SiC	780513 (4)			
Wear Plate, Relieved	7	E	Carbon 60	780502 (4)			
Wear Plate, Relieved	7	P	PEEK	780503 (4)			
Position 6 – Bearings							
Bearing	3	B	SiC	780413 (4)			
Bearing	3	E	Carbon 60	780401 (4)			
Bearing	3	P	PEEK	780414 (4)			
Position 7 – Motor Frame (Pedestal, Shims, Mechanical Coupling, Adapter & Hardware)							
Pedestal – NEMA 56C	26	0	CI/Epoxy	SP009			
Coupling Hub, Motor – 5/8"	28	0	Cast Iron	5280			
Coupling Spider	30	0	Urethane	5287			
Pedestal – NEMA 143/145TC	26	1	CI/Epoxy	SP009			
Coupling Hub, Motor – 7/8"	28	1	Cast Iron	5281			
Coupling Spider	30	1	Urethane	5287			
Pedestal – IEC 71 - B5 Flange	26	2	CI/Epoxy	SP010			
Coupling Hub, Motor – 14 mm	28	2	Cast Iron	5284			
Coupling Spider	30	2	Urethane	5287			
Pedestal – IEC 80 - B5 Flange	26	3	CI/Epoxy	SP011			
Coupling Hub, Motor – 19 mm	28	3	Cast Iron	5285			
Coupling Spider	30	3	Urethane	5287			
Pedestal – IEC 90 - B5 Flange	26	4	CI/Epoxy	SP011			
Coupling Hub, Motor – 24 mm	28	4	Cast Iron	5286			
Coupling Spider	30	4	Urethane	5287			
Door, Pedestal (Removable)	–	0 - 5, 8	304 SS	865078			
Screw, Door (1/4-20 x 5/8 HHCS)	–	0 - 5, 8	18-8 SS	620008 (2)			
Motor-Mounting Hardware	15	0 - 5, 8	18-8SS	See Appendix 3			

1 - Flanges are ANSI RF type. Other flanges are available; consult factory.
 2 - L (Length) = 2.5", 2.875", 3.25", 3.75".

See page 11 for Reference Drawing.

Note: All bolts are SHCS type except Part # 620008.

<p style="text-align: center;">Liquiflo Chemical Processing Pumps™</p>	<p style="font-size: 1.2em; font-weight: bold; color: yellow;">Max[®]-Series Gear Pumps</p> <p style="font-weight: bold; color: yellow;">BOM: SEALED, CC Models M5 thru M8</p>
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Part Description	Drwg. Item #	316 Stainless Steel Construction					
		Code	Material	M5	M6	M7	M8
Position 7 – Motor Frame (Pedestal, Shims, Mechanical Coupling, Adapter & Hardware) [Continued]							
Pedestal – NEMA 182/184TC	26	5	CI/Epoxy				SP009
Shim, Pedestal – NEMA 182/184TC	–	5	303 SS				SHIM-S105 (4)
Coupling Hub, Motor – 1-1/8"	28	5	Cast Iron				5283
Coupling Spider	30	5	Urethane				5297
Adapter – NEMA 182/184TC	–	5	CS/Epoxy				SP0046
Bolt, Adapter (1/2-13 x 1)	–	5	18-8 SS				641105 (4)
Pedestal – IEC 100/112-B5	26	8	CI/Epoxy				SP011
Shim, Pedestal – IEC 100/112-B5	–	8	Nylon				SHIM-112 (4)
Coupling Hub, Motor – 28 mm	28	8	Cast Iron				5278
Coupling Spider	30	8	Urethane				5297
Adapter – IEC 100/112-B5	–	8	CS/Epoxy				SP0048
Bolt, Adapter (3/8-16 x 1)	–	8	18-8 SS				781118 (4)
Lock-washer, Adapter (3/8)	–	8	18-8 SS				S1004 (4)
Position 8 – Seal Type							
Mechanical Seal, Single	14	U	316 SS/Carbon		A-787058 (to 350°F) or A-787056 (> 350°F) ³		
Seal Seat, SMS	16	U	SiC		781547		
Retaining Ring, SMS	10	U	316 SS		786702		
Plug, 1/8 NPT (Socket Head)	9	U	316 SS		362308 (2)		
Mechanical Seal, Double	14	F	316 SS/Carbon		A-787031 (to 350°F) or A-787033 (> 350°F) ³		
Seal Seat, DMS	16	F	SiC		781547 (2)		
Seal Housing	11	U, F	316 SS		780105		
Position 9 – Bearing Flush Option (Front & Rear Housings)							
Front Housing, Std.	8	0	316 SS		780100		
Front Housing, IBF	8	2	316 SS		780110		
Rear Housing, Std.	2	0	316 SS		780201		
Rear Housing, IBF	2	2	316 SS		780210		
Position 10 – Shafts							
Drive Shaft, Uncoated, SMS	19	0 (P. 8 = U)	316 SS	780301	780306	780311	780316
Drive Shaft, CO-Coated, SMS	19	1 (P. 8 = U)	316 SS/CO	780301-CO	780306-CO	780311-CO	780316-CO
Drive Shaft, TC-Coated, SMS	19	2 (P. 8 = U)	316 SS/TC	780301-TC	780306-TC	780311-TC	780316-TC
Drive Shaft, Uncoated, DMS	19	0 (P. 8 = F)	316 SS	780305	780308	780313	780318
Drive Shaft, CO-Coated, DMS	19	1 (P. 8 = F)	316 SS/CO	780305-CO	780308-CO	780313-CO	780318-CO
Drive Shaft, TC-Coated, DMS	19	2 (P. 8 = F)	316 SS/TC	780305-TC	780308-TC	780313-TC	780318-TC
Idler Shaft, Uncoated	1	0	316 SS	780321	780326	780331	780336
Idler Shaft, CO-Coated	1	1	316 SS/CO	780321-CO	780326-CO	780331-CO	780336-CO
Idler Shaft, TC-Coated	1	2	316 SS/TC	780321-TC	780326-TC	780331-TC	780336-TC
Gear-Shaft, Drive (LH)	–	3	17-4 PHSS	Position 3 = 9			
Gear-Shaft, Idler (RH)	–	3	17-4 PHSS	Position 4 = 9			
Position 11 – O-Rings							
O-ring, Housing ⁴	5	0	Teflon	781101 (2)			
O-ring, Seal Housing (2-030)	18	0	Teflon	3121560 (1)			
O-ring, S. Seat, SMS (2-216)	17	0	Viton	781691 (1)			
O-ring, S. Seat, DMS (2-216)	17	0	Viton	781691 (2)			
O-ring, Housing ⁴	5	V	Viton	781102 (2)			
O-ring, Seal Housing (2-030)	18	V	Viton	3121561 (1)			
O-ring, S. Seat, SMS (2-216)	17	V	Viton	781691 (1)			
O-ring, S. Seat, DMS (2-216)	17	V	Viton	781691 (2)			
O-ring, Housing ⁴	5	T	Teflon	781101 (2)			
O-ring, Seal Housing (2-030)	18	T	Teflon	3121560 (1)			
O-ring, S. Seat, SMS (2-216)	17	T	Kalrez	781694 (1)			
O-ring, S. Seat, DMS (2-216)	17	T	Kalrez	781694 (2)			
O-ring, Housing ⁴	5	K	Kalrez	781104 (2)			
O-ring, Seal Housing (2-030)	18	K	Kalrez	3121564 (1)			
O-ring, S. Seat, SMS (2-216)	17	K	Kalrez	781694 (1)			
O-ring, S. Seat, DMS (2-216)	17	K	Kalrez	781694 (2)			
Suffix – Trim Options							
Temperature Trim (Gears/Bearings)	–	-8(T) ⁵	–	Consult Factory			
Viscosity Trim (Gears)	–	-9D, -9T	–				

3 - Low-Temperature Seal has Teflon Wedge; High-Temperature Seal has Graphoil Wedge.

4 - Size: 3.420" ID x .070" CSD

5 - T = Application Temperature in °F (e.g., -8(300) = Temperature Trim at 300°F).

Liquiflo
Chemical Processing Pumps™

Max[®]-Series Gear Pumps
BOM: **MAG-DRIVE, CC Models M5 thru M8**

Part Description	Drwg. Item #	316 Stainless Steel Construction					
		Code	Material	M5	M6	M7	M8
Position 2 – Basic Material & Port Type (Center Housing, C. Can, Pins & Hardware)							
Center Housing, NPT	21	S	316 SS	780003	780008	780013	780018
Center Housing, Flanged, 150# ¹	21	L	316 SS	780030	780040	780050	780060
Center Housing, Flanged, 300# ¹	21	K	316 SS	780032	780042	780052	780062
Center Housing, BSPT	21	X	316 SS	780005	780010	780015	780020
Containment Can	12	S, L, K, X	316 SS	740913			
Pin, Bearing Lock	28	S, L, K, X	Teflon	361801 (4)			
Pin, Bearing Lock (High Temperature)	28	S, L, K, X	316 SS	361807 (4)			
Pin, Housing Alignment	24	S, L, K, X	17-4 PHSS	780801 (4)			
Bolt, Housing (5/16-18 x L) ²	4	S, L, K, X	18-8 SS	641109 (8)	781114 (8)	781113 (8)	781112 (8)
Bolt, Front Housing (3/8-16 x 1-5/8)	26	S, L, K, X	18-8 SS	781115 (4)			
Nut, Front Housing (3/8-16)	25	S, L, K, X	18-8 SS	S1003 (4)			
Lock-washer, Front Housing (3/8)	29	S, L, K, X	18-8 SS	S1004 (4)			
Bolt, C. Can (5/16-24 x 5/8 BSHCS)	18	S, L, K, X	18-8 SS	785008 (6)			
Tag, Rear Housing	-	S, L, K, X	316 SS	780810			
Rivet, Tag (#2 x 1/4)	-	S, L, K, X	18-8 SS	780805 (2)			
Position 3 – Drive Gear							
Gear (Spur Type)	22	6	316 SS	780680	780683	780686	780689
Gear (Spur Type)	22	P	PEEK	780681	780684	780687	780690
Key, Gear	23	6, P	316 SS	781915	781910	781905	781900
Retaining Ring, Gear	27	6, P	316 SS	786702 (2)			
Position 4 – Idler Gear							
Gear (Spur Type)	6	6	316 SS	780680	780683	780686	780689
Gear (Spur Type)	6	P	PEEK	780681	780684	780687	780690
Key, Gear	23	3, 6, P	316 SS	781915	781910	781905	781900
Retaining Ring, Gear	27	3, 6, P	316 SS	786702 (2)			
Position 5 – Wear Plates							
Wear Plate, Relieved	7	3	Teflon	780501 (4)			
Wear Plate, Relieved	7	B	SiC	780513 (4)			
Wear Plate, Relieved	7	E	Carbon 60	780502 (4)			
Wear Plate, Relieved	7	P	PEEK	780503 (4)			
Position 6 – Bearings							
Bearing	3	B	SiC	780413 (4)			
Bearing	3	E	Carbon 60	780401 (4)			
Bearing	3	P	PEEK	780414 (4)			
Position 7 – Motor Frame (Pedestal, Shims, Adapter & Hardware)							
Pedestal – NEMA 56C	16	0	CI/Epoxy	SP000			
Pedestal – NEMA 143/145TC	16	1	CI/Epoxy	SP000			
Pedestal – IEC 71 - B5 Flange	16	2	CI/Epoxy	SP001			
Pedestal – IEC 80 - B5 Flange	16	3	CI/Epoxy	SP002			
Pedestal – IEC 90 - B5 Flange	16	4	CI/Epoxy	SP002			
Pedestal – NEMA 182/184TC	16	5	CI/Epoxy	SP000			
Shim, Pedestal – NEMA 182/184TC	-	5	303 SS	SHIM-S105 (4)			
Adapter Plate – NEMA 182/184TC	-	5	CS/Epoxy	SP0046			
Bolt, Adapter (1/2-13 x 1)	-	5	18-8 SS	641105 (4)			
Pedestal – IEC 100/112-B5	16	8	CI/Epoxy	SP002			
Shim, Pedestal – IEC 100/112-B5	-	8	Nylon	SHIM-112 (4)			
Adapter Plate – IEC 100/112-B5	-	8	CS/Epoxy	SP0048			
Bolt, Adapter (3/8-16 x 1)	-	8	18-8 SS	781118 (4)			
Lock-washer, Adapter (3/8)	-	8	18-8 SS	S1004 (4)			
Motor-Mounting Hardware	15	0 - 5, 8	18-8SS	See Appendix 3			
Position 8 – Mag-Drive							
Magnetic-Drive (Sealless)	-	0	-	See Position 12			

1 - Flanges are ANSI RF type. Other flanges are available; consult factory.
2 - L (Length) = 2.5", 2.875", 3.25", 3.75".

Note: All bolts are SHCS type.

See page 12 for Reference Drawing.

Liquiflo Chemical Processing Pumps [™]	Max[®]-Series Gear Pumps BOM: MAG-DRIVE, CC Models M5 thru M8
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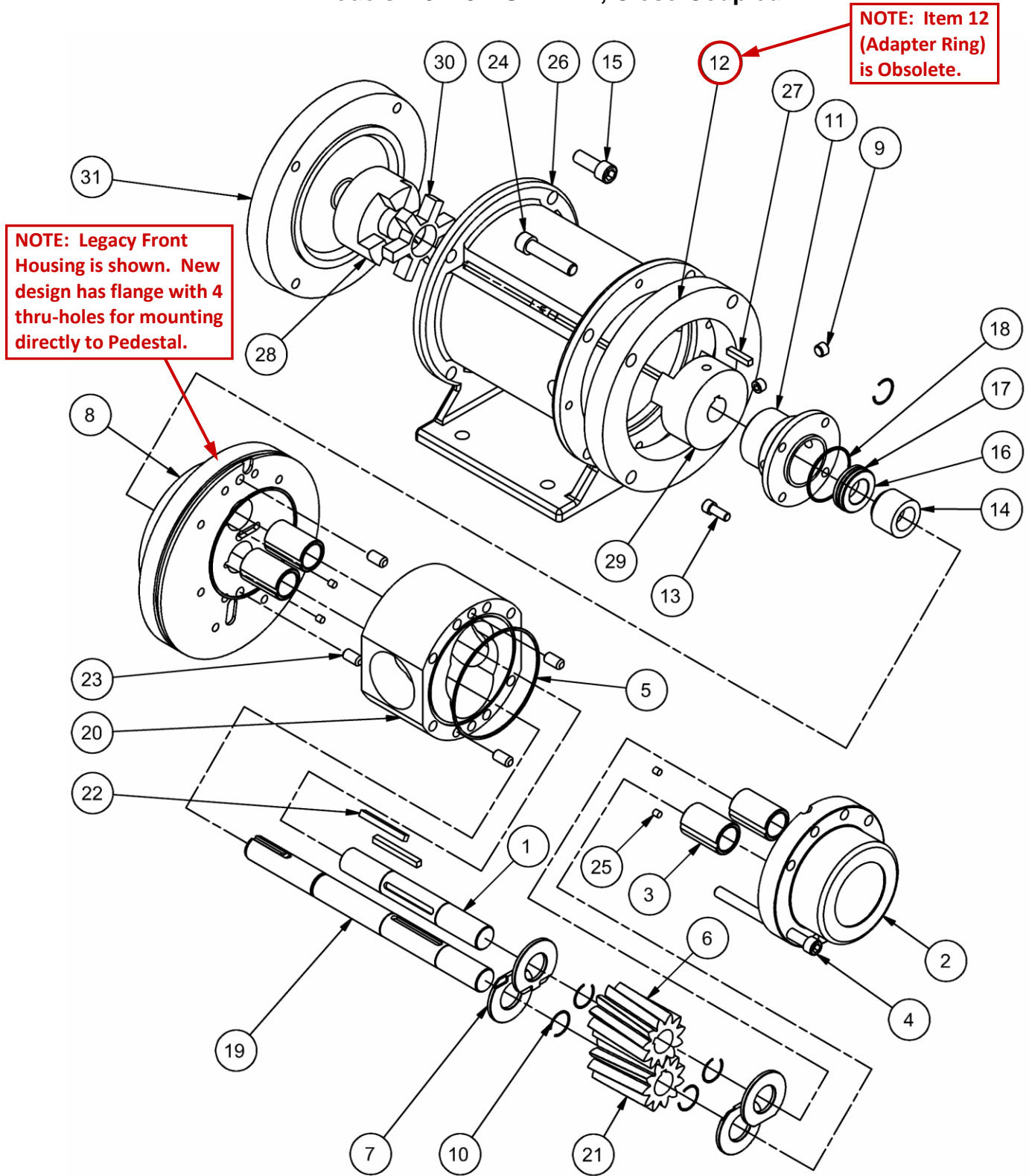
Part Description	Drwg. Item #	316 Stainless Steel Construction					
		Code	Material	M5	M6	M7	M8
Position 9 – Bearing Flush Option (Front & Rear Housings)							
Front Housing, MC, Std.	8	0	316 SS		780101		
Front Housing, MC, IBF	8	2	316 SS		780103		
Rear Housing, Std.	2	0	316 SS		780201		
Rear Housing, IBF	2	2	316 SS		780210		
Position 10 – Shafts							
Drive Shaft, MC, Uncoated	20	0	316 SS	780341	780346	780351	780356
Drive Shaft, MC, CO-Coated	20	1	316 SS/CO	780341-CO	780346-CO	780351-CO	780356-CO
Drive Shaft, MC, TC-Coated	20	2	316 SS/TC	780341-TC	780346-TC	780351-TC	780356-TC
Idler Shaft, Uncoated	1	0	316 SS	780321	780326	780331	780336
Idler Shaft, CO-Coated	1	1	316 SS/CO	780321-CO	780326-CO	780331-CO	780336-CO
Idler Shaft, TC-Coated	1	2	316 SS/TC	780321-TC	780326-TC	780331-TC	780336-TC
Gear-Shaft, Drive (LH)	-	3	17-4 PHSS			X	
Gear-Shaft, Idler (RH)	-	3	17-4 PHSS			X	
Position 11 – O-Rings							
O-ring, Housing ³	5	0	Teflon			781101 (2)	
O-ring, Cont. Can (2-042)	19	0	Teflon			S4000	
O-ring, Housing ³	5	V	Viton			781102 (2)	
O-ring, Cont. Can (2-042)	19	V	Viton			S4002	
O-ring, Housing ³	5	K	Kalrez			781104 (2)	
O-ring, Cont. Can (2-042)	19	K	Kalrez			S4004	
Position 12 – Magnetic Coupling							
Inner Magnet, MCB – 5/8"	11	B	316 SS/SmCo			SIMCB-05	
Outer Magnet, MCB – 5/8"	10	B (P. 7 = 0)	CS/ SmCo			SOMCB-5	
Outer Magnet, MCB – 7/8"	10	B (P. 7 = 1)	CS/ SmCo			SOMCB-7	
Outer Magnet, MCB – 14 mm	10	B (P. 7 = 2)	CS/ SmCo			SOMCB-71	
Outer Magnet, MCB – 19 mm	10	B (P. 7 = 3)	CS/ SmCo			SOMCB-80	
Outer Magnet, MCB – 24 mm	10	B (P. 7 = 4)	CS/ SmCo			SOMCB-90	
Outer Magnet, MCB – 1-1/8"	10	B (P. 7 = 5)	CS/ SmCo			SOMCB-9	
Outer Magnet, MCB – 28 mm	10	B (P. 7 = 8)	CS/ SmCo			SOMCB-112	
Inner Magnet, MCV – 5/8"	11	V	316 SS/SmCo			SIMCV-05	
Outer Magnet, MCV – 5/8"	10	V (P. 7 = 0)	CS/ SmCo			SOMCV-5	
Outer Magnet, MCV – 7/8"	10	V (P. 7 = 1)	CS/ SmCo			SOMCV-7	
Outer Magnet, MCV – 14 mm	10	V (P. 7 = 2)	CS/ SmCo			SOMCV-71	
Outer Magnet, MCV – 19 mm	10	V (P. 7 = 3)	CS/ SmCo			SOMCV-80	
Outer Magnet, MCV – 24 mm	10	V (P. 7 = 4)	CS/ SmCo			SOMCV-90	
Outer Magnet, MCV – 1-1/8"	10	V (P. 7 = 5)	CS/ SmCo			SOMCV-9	
Outer Magnet, MCV – 28 mm	10	V (P. 7 = 8)	CS/ SmCo			SOMCV-112	
Key, Inner Magnet	13	B, V	316 SS			970010	
Retaining Ring, Inner Magnet	27	B, V	316 SS			3150015 (2)	
Suffix – Trim Options							
Temperature Trim (Gears/Bearings)	-	-8(T) ⁴	-				
Viscosity Trim (Gears)	-	-9D, -9T	-				Consult Factory

3 - Size: 3.420" ID x .070" CSD

4 - T = Application Temperature in °F (e.g., -8(300) = Temperature Trim at 300°F).

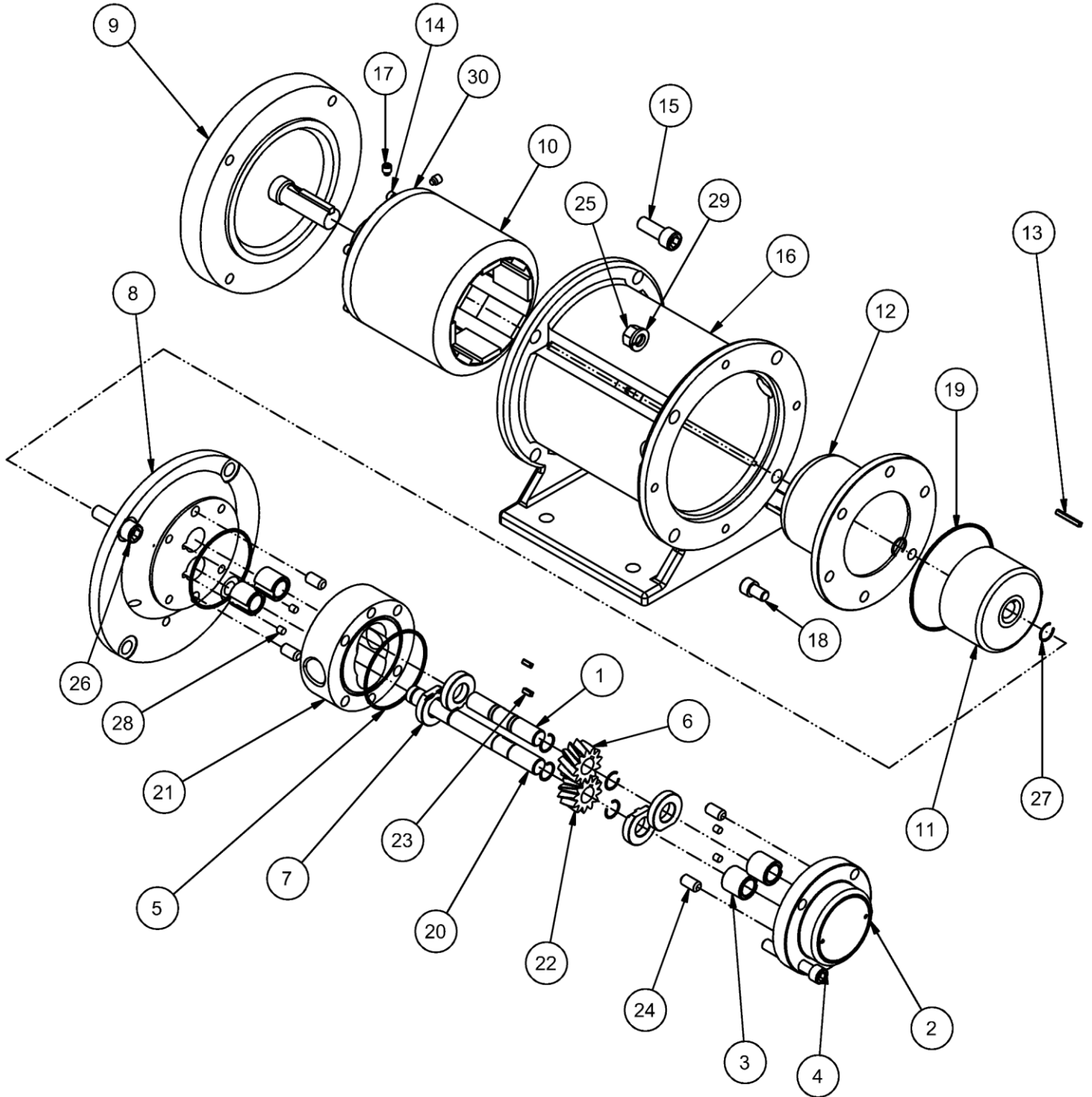
Appendix 1: Exploded View Reference Drawings (continued)

Models M5-M8 – SEALED, Close-Coupled



Appendix 1: Exploded View Reference Drawings (continued)

Models M0-M8 – MAG-DRIVE, Close-Coupled



Appendix 2: Meaning of Abbreviated Terms

Term	Meaning	Notes
ANSI	American National Standards Institute	e.g., ANSI 150# flanges
BSHCS	Button Socket Head Cap Screw	Type of bolt (used for containment can)
BSPT	British Standard Pipe Threads	Type of threaded port
CC	Close-Coupled	Method of pump-motor coupling
CI	Cast Iron	Pedestal structural material
CO	Chrome Oxide	Shaft coating material
C. Can	Containment Can	Component of Mag-drive pump
CS	Carbon Steel	Outer magnet & adapter structural material
CSD	Cross-Sectional Diameter	O-ring Dimension
DMS	Double Mechanical Seal	Internally mounted double seal
Drwg.	Drawing (Item #)	See corresponding exploded view reference drawing
FH-SHCS	Flat Head, Socket Head Cap Screw	Type of bolt
IBF	Internal Bearing Flush	Housing option for Max-Series pumps
ID	Inner Diameter	O-ring Dimension
LH	Left Hand (helix)	Max-Series Drive Gear type
MC	Magnetically Coupled	Mag-drive pump
NPT	National Pipe Threads	Type of threaded port
P. or Pos.	Position (#)	Position number of model code
PEEK	Poly-Ether-Ether-Ketone (plastic)	Bearing Grade PEEK; material option for gears, bearings & wear plates
PHSS	Precipitate Hardened Stainless Steel	17-4 PHSS is material for Housing Alignment Pins and Drive & Idler Gear-Shafts option
RF	Raised Face	Type of flange
RH	Right Hand (helix)	Max-Series Idler Gear type
S. Seat	Seal Seat	Stationary face of mechanical seal (two used for double mechanical seal)
SHCS	Socket Head Cap Screw	Type of bolt
SiC	Silicon Carbide	Bearing, wear plate & seal seat material
SmCo	Samarium Cobalt	Inner & outer magnet material
SMS	Single Mechanical Seal	Internally mounted single seal
SS	Stainless Steel	e.g., 316 SS, 18-8 SS
Std.	Standard	Standard housing (without Flush)
TC	Tungsten Carbide	Shaft coating material
X	Not Available or Not Applicable	Used in lieu of Part Number
#	Number or Pound	e.g., Position #, Part #, 150# flanges, etc.

Appendix 3: Motor-Mounting Hardware

Motor-Mounting Hardware for Models M0 thru M8

Model Code Pos. 7	Models	Part Description	Material	Size	Bolt Type	Part #	Qty.
0, 1	M0 - M4 Sealed	Bolt, Motor	18-8 SS	3/8-16 x 7/8	SHCS	742001	4
0, 1	M0 - M4 Mag-Drive	Bolt, Motor	18-8 SS	3/8-16 x 1	SHCS	781118	4
0, 1, 5	M5 - M8	Bolt, Motor	18-8 SS	3/8-16 x 1	SHCS	781118	4
2	M0 - M8	Bolt, Motor	18-8 SS	3/8-16 x 1-1/2	SHCS	781117	4
		Nut, Motor	18-8 SS	3/8-16	–	S1003	4
		Lockwasher, Motor	18-8 SS	3/8	–	S1004	4
3, 4	M0 - M8	Bolt, Motor	18-8 SS	M10 x 40	SHCS	S1011	4
		Nut, Motor	18-8 SS	M10 Std. Hex	–	S1013	4
		Lockwasher, Motor	18-8 SS	M10	–	S1012	4
8	M5 - M8	Bolt, Motor	18-8 SS	1/2-13 x 2	FH-SHCS	S641111	4
		Nut, Motor	18-8 SS	1/2-13	–	641108	4
		Lockwasher, Motor	18-8 SS	1/2	–	641107	4

Model Code Pos. 7 Motor Frames:

- 0 = NEMA 56C
- 1 = NEMA 143/145TC
- 2 = IEC 71 (B5)
- 3 = IEC 80 (B5)
- 4 = IEC 90 (B5)
- 5 = NEMA 182/184TC
- 8 = IEC 100/112 (B5)

