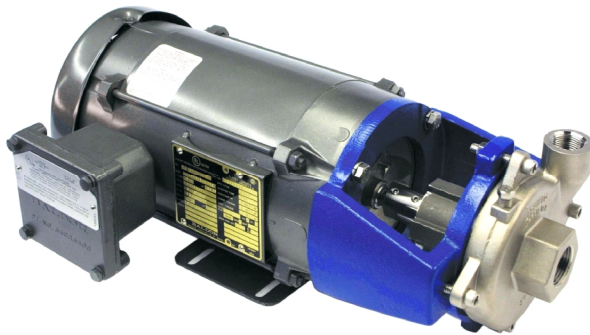




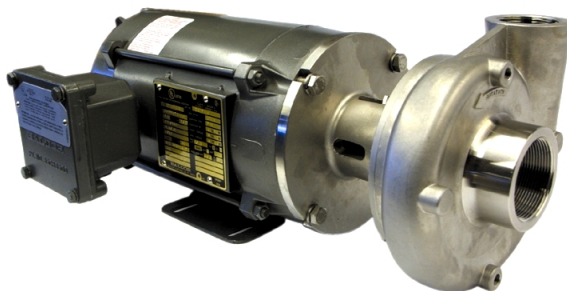
## **CONSOLIDATED BILL OF MATERIALS (BOM) FOR CENTRY<sup>®</sup> SERIES CENTRIFUGAL PUMPS**



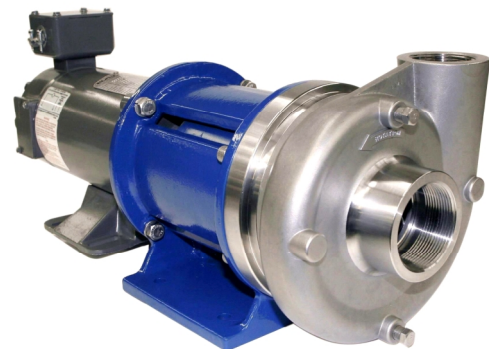
**Model 620 - Sealed**



**Model 620 - MC**



**Models 621 & 622 - Sealed**



**Models 621 & 622 - MC**

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## Introduction:

**A. Scope:** This Consolidated BOM covers the Centry® Series Centrifugal Pumps, Models 620, 621 and 622, Sealed and Mag-drive.

**B. General Configurations, Models & Materials of Construction:**

Pump Family	General Pump Configuration	Pump Models	Basic Material of Construction
Centry® Series	SEALED, Close-Coupled <sup>1</sup>	620	316 SS & Alloy-C
		621	316 SS
		622	316 SS
	MAG-DRIVE, Close-Coupled <sup>2</sup>	620-MC	316 SS & Alloy-C
		621-MC	316 SS
		622-MC	316 SS

1 - Long-Coupled configuration is available using the Power Frame option (Model 620 only).

2 - Long-Coupled configuration is available using the Power Frame or S-Adapter options.

**C. BOM Format:** The BOM for each pump model and general configuration has a 2-page format that spans across the left-hand and right-hand pages, and is based on only one basic material of construction. Any pump *Part Number* can be cross-referenced from the pump *Model Number* (see **Code** column). Part Numbers are located in the extreme right columns, under the general Model Number heading (e.g., 620, 621 or 622). If a Part Number has a number to the right of it (in parentheses) that number represents the quantity of that part required per pump; otherwise only one part per pump is required. Each 2-page BOM has a pump exploded view reference drawing on the right-hand page. The *Drawing Item Number* for a part can be used to reference that part on the drawing (see **Drwg. Item #** column).

**D. Meaning of Abbreviated Terms:**

Term	Meaning	Notes
ANSI	American National Standards Institute	e.g., ANSI 150# flanges
C. Can	Containment Can	Part of mag-drive pump
CI	Cast Iron	Pedestal structural material
CO	Chrome Oxide	Shaft coating material
CS	Carbon Steel	Outer magnet and adapter structural material
CSD	Cross-Sectional Diameter	O-ring dimension
DMS	Double Mechanical Seal	Internally mounted double seal
Drwg.	Drawing (Item #)	See BOM reference drawings
HHCS	Hex Head Cap Screw	Type of bolt
ID	Inner Diameter	O-ring dimension
MC	Magnetically Coupled	Mag-drive pump
NPT	National Pipe Threads	Type of threaded port
Pos.	Position (#)	Position number of model code
PS	Packing Seal	Seal comprised of Teflon or Graphoil packing rings
RF	Raised Face	Type of flange
SHCS	Socket Head Cap Screw	Type of bolt
SHSS-CP	Socket Head Set Screw, Cup Point	Type of set screw
SHSS-FD	Socket Head Set Screw, Full Dog	Type of set screw
SHSS-HD	Socket Head Set Screw, Half Dog	Type of set screw
SiC	Silicon Carbide	Seal seat, bearing and thrust washer material
SmCo	Samarium Cobalt	Inner and outer magnet material
SMS	Single Mechanical Seal	Internally mounted single seal
SS	Stainless Steel	e.g., 303 SS, 316 SS, 18-8 SS
TC	Tungsten Carbide	Shaft coating material
X	Not Available or Not Applicable	Used in lieu of Part Number

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**Centry® Series Centrifugal Pumps**  
BOM: **SEALED Model 620**  
with **Packing Seal**

Part Description	Drwg. Item #	316 Stainless Steel Construction		
		Code	Material	620
Position 2 – Impeller Size				
Impeller, Full Size – 3.75" Diameter	1	F	316 SS	620301
Impeller, Reduced Size	1	R	316 SS	See Position 7
Position 3 – Basic Material of Construction & Port Type (Volute, Plugs & Hardware)				
Volute, Threaded (NPT)	2	S	316 SS	620003
Volute, Flanged (150# ANSI RF)	2	L	316 SS	620005
Plug, 1/8 NPT (Volute) <sup>1</sup>	13	S, L	316 SS	362304 (2)
Setscrew, Impeller (1/4-28 x 3/8 SHSS-HD)	9	S, L	316 SS/Teflon	S620000
Setscrew, Shaft (1/4-28 x 3/8 SHSS-FD)	11	S, L	18-8 SS	621104 (2)
Bolt, Volute (5/16-18 x 1-3/4 SHCS)	6	S, L	18-8 SS	621101 (3)
Bolt, Volute (5/16-18 x 2-1/4 SHCS)	6	S, L	18-8 SS	621102 (1)
Nut, Volute (5/16-18 Hex)	7	S, L	18-8 SS	621103 (4)
Lockwasher, Volute (5/16)	8	S, L	18-8 SS	3126341 (4)
Bolt, Motor (3/8-16 x 2-1/2 HHCS) <sup>2</sup>	15	S, L	18-8 SS	620831 (4)
Lockwasher, Motor (3/8) <sup>2</sup>	16	S, L	18-8 SS	S1004 (4)
Spacer Plate	10	S, L	CS/Epoxy	620802
Position 4 – Seal Configuration				
Packing Ring	17	5	Teflon	866501 (8)
Packing Ring	17	7	Graphoil	866409 (8)
Lantern Ring	18	5, 7	Teflon	867109
Seal Housing, PS	3	5, 7	316 SS	620115
Plug, 1/8 NPT (Seal Housing)	13	5, 7	316 SS	362304
Grease Fitting, 1/8 NPT (Seal Housing)	19	5, 7	303 SS	867201
Gland Plate, Split	12	5, 7	316 SS	621204 (2)
Screw, Gland Plate (1/4-28 x 1 HHCS)	20	5, 7	18-8 SS	362005 (2)
Lockwasher, Gland Plate (1/4)	21	5, 7	18-8 SS	863701 (2)
Position 5 – Motor Frame (Shaft, Bracket & Power Frame)				
Shaft – 5/8" Bore (NEMA 56C)	4	0, P	316 SS/303 SS	620411
Shaft – 7/8" Bore (NEMA 143TC/145TC)	4	1	316 SS/303 SS	620431
Bracket, Mounting	14	0, 1, P	CI/Epoxy	620801
Power Frame	–	P	CI/CS/Epoxy	A-620804
Position 6 – O-Rings/Gaskets				
Gasket, Volute	5	0	Teflon	620601
O-ring, Volute (2-154)	5	V	Viton	620621
Gasket, Volute	5	G	Graphoil	620603
Position 7 – Impeller Trim				
Impeller, Full Size	1	0 (Pos. 2 = F)	316 SS	See Position 2
Impeller, Reduced – 3.50" Diameter	1	1 (Pos. 2 = R)	316 SS	620305
Impeller, Reduced – 3.25" Diameter	1	2 (Pos. 2 = R)	316 SS	620306
Impeller, Reduced – 3.00" Diameter	1	3 (Pos. 2 = R)	316 SS	620307
Impeller, Reduced – 2.75" Diameter	1	4 (Pos. 2 = R)	316 SS	620308

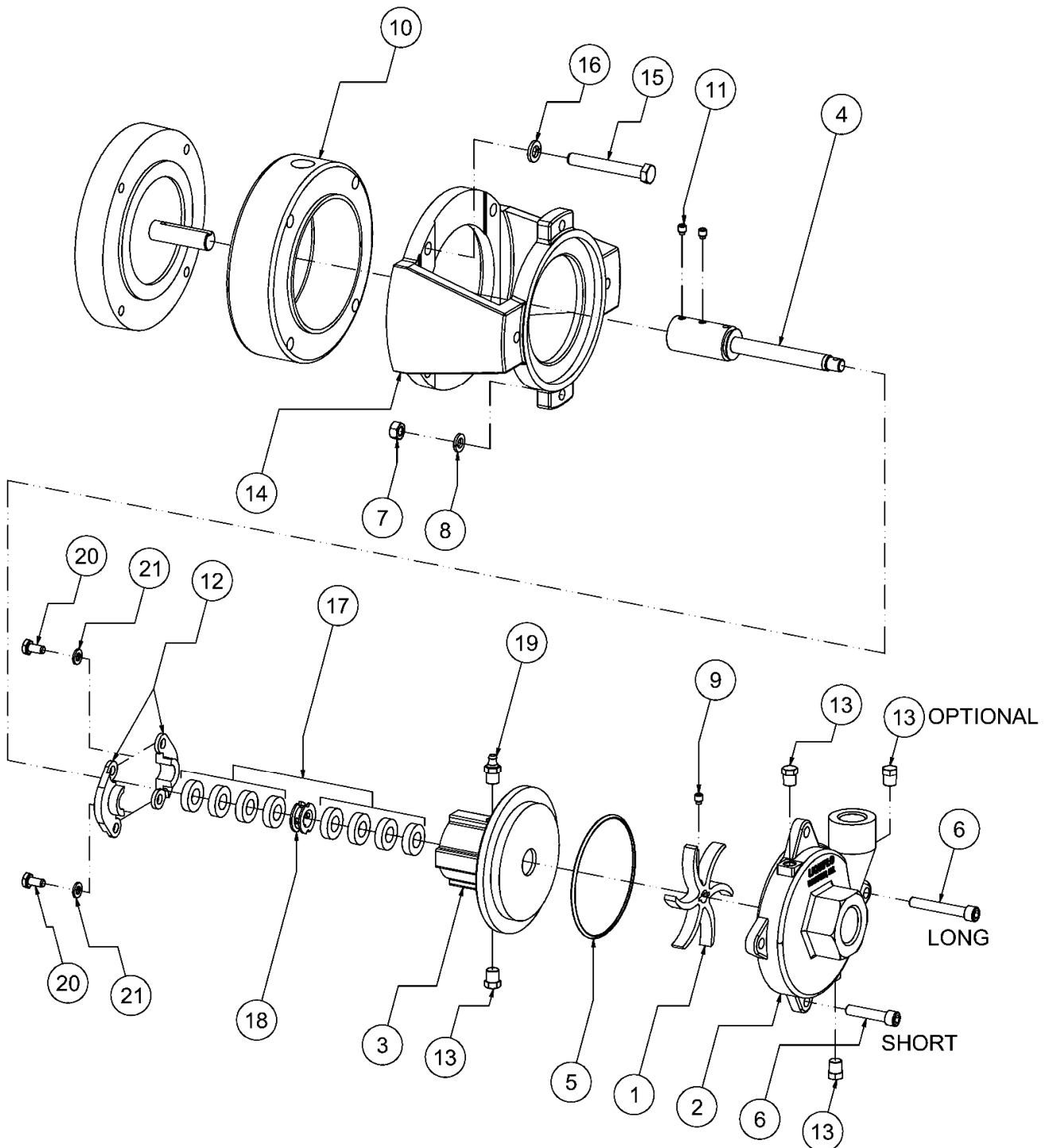
1 – Volute may contain an additional plug on the outlet port (see reference drawing on next page).

2 – For NEMA motor frames and Power Frame.

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**Centry® Series Centrifugal Pumps**  
**BOM: SEALED Model 620**  
**with Packing Seal**

**Centry® Model 620 with Packing Seal**



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**Centry® Series Centrifugal Pumps**  
**BOM: SEALED Model 620**  
**with Single Internal Mechanical Seal**

Part Description	Drwg. Item #	316 Stainless Steel Construction		
		Code	Material	620
Position 2 – Impeller Size				
Impeller, Full Size – 3.75" Diameter	1	F	316 SS	620301
Impeller, Reduced Size	1	R	316 SS	See Position 7
Position 3 – Basic Material of Construction & Port Type (Volute, Plugs & Hardware)				
Volute, Threaded (NPT)	2	S	316 SS	620003
Volute, Flanged (150# ANSI RF)	2	L	316 SS	620005
Plug, 1/8 NPT (Volute) <sup>1</sup>	13	S, L	316 SS	362304 (2)
Lock Collar, Impeller	10	S, L	316 SS	620501
Screw, Impeller (1/4-20 x 7/16 HHCS)	9	S, L	316 SS	620520
Setscrew, Shaft (1/4-28 x 3/8 SHSS-FD)	11	S, L	18-8 SS	621104 (2)
Bolt, Volute (5/16-18 x 1-3/4 SHCS)	6	S, L	18-8 SS	621101 (3)
Bolt, Volute (5/16-18 x 2-1/4 SHCS)	6	S, L	18-8 SS	621102 (1)
Nut, Volute (5/16-18 Hex)	7	S, L	18-8 SS	621103 (4)
Lockwasher, Volute (5/16)	8	S, L	18-8 SS	3126341 (4)
Bolt, Motor (3/8-16 x 1 HHCS) <sup>2</sup>	15	S, L	18-8 SS	620825 (4)
Lockwasher, Motor (3/8) <sup>2</sup>	16	S, L	18-8 SS	S1004 (4)
Position 4 – Seal Configuration				
Single Mechanical Seal (Type 9A)	17	2	316 SS/Carbon	A-867011
Single Mechanical Seal (Type 9A)	17	3	316 SS/Teflon	A-867016
Seal Seat	18	2, 3	SiC	621006
Seal Housing, SMS	3	2, 3	316 SS	620112
Plug, 1/8 NPT (Seal Housing)	13	2, 3	316 SS	362304
Wiper, Shaft	12	2, 3	Teflon	620701
Position 5 – Motor Frame (Shaft, Bracket & Power Frame)				
Shaft – 5/8" Bore (NEMA 56C)	4	0, P	316 SS	620401
Shaft – 7/8" Bore (NEMA 143TC/145TC)	4	1	316 SS	620421
Bracket, Mounting	14	0, 1, P	Cl/Epoxy	620801
Power Frame	–	P	Cl/CS/Epoxy	A-620804
Position 6 – O-Rings/Gaskets				
Gasket, Volute	5	0	Teflon	620601
O-ring, Volute (2-154)	5	V	Viton	620621
Gasket, Volute	5	G	Graphoil	620603
O-ring, Seal Seat (.397" ID x .070" CSD)	19	0, G	Teflon	620610
O-ring, Seal Seat (.397" ID x .070" CSD)	19	V	Viton	620623
Position 7 – Impeller Trim				
Impeller, Full Size	1	0 (Pos. 2 = F)	316 SS	See Position 2
Impeller, Reduced – 3.50" Diameter	1	1 (Pos. 2 = R)	316 SS	620305
Impeller, Reduced – 3.25" Diameter	1	2 (Pos. 2 = R)	316 SS	620306
Impeller, Reduced – 3.00" Diameter	1	3 (Pos. 2 = R)	316 SS	620307
Impeller, Reduced – 2.75" Diameter	1	4 (Pos. 2 = R)	316 SS	620308

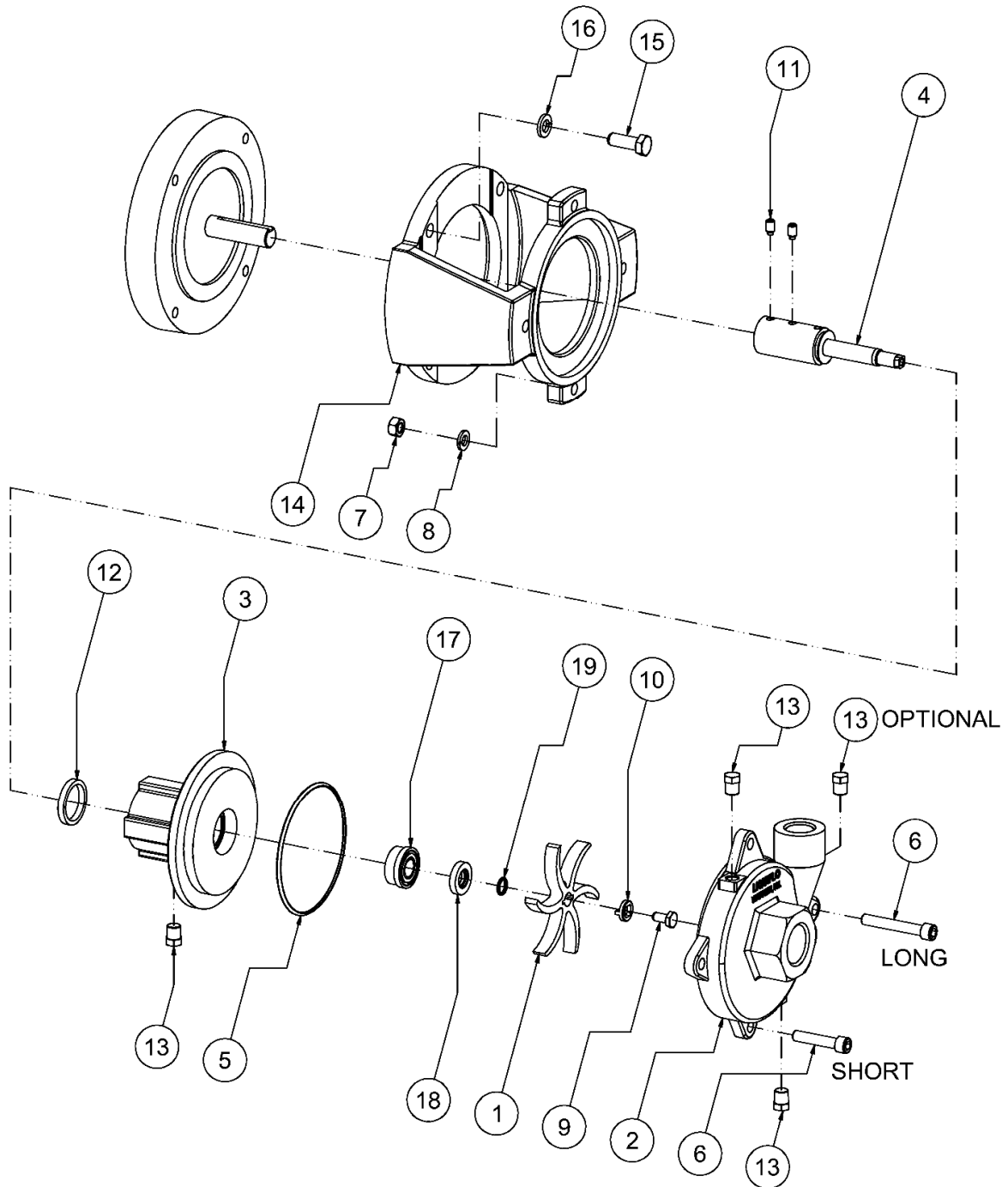
1 – Volute may contain an additional plug on the outlet port (see reference drawing on next page).

2 – For NEMA motor frames and Power Frame.

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**Centry® Series Centrifugal Pumps**  
**BOM: SEALED Model 620**  
**with Single Internal Mechanical Seal**

**Centry® Model 620 with Single Internal Mechanical Seal**





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**Centry® Series Centrifugal Pumps**  
BOM: SEALED Model 620  
with Double Mechanical Seal

Part Description	Drwg. Item #	316 Stainless Steel Construction		
		Code	Material	620
Position 2 – Impeller Size				
Impeller, Full Size – 3.75" Diameter	1	F	316 SS	620301
Impeller, Reduced Size	1	R	316 SS	See Position 7
Position 3 – Basic Material of Construction & Port Type (Volute, Plugs & Hardware)				
Volute, Threaded (NPT)	2	S	316 SS	620003
Volute, Flanged (150# ANSI RF)	2	L	316 SS	620005
Plug, 1/8 NPT (Volute) <sup>1</sup>	13	S, L	316 SS	362304 (2)
Setscrew, Impeller (1/4-28 x 3/8 SHSS-HD)	9	S, L	316 SS/Teflon	S620000
Setscrew, Shaft (1/4-28 x 3/8 SHSS-FD)	11	S, L	18-8 SS	621104 (2)
Bolt, Volute (5/16-18 x 1-3/4 SHCS)	6	S, L	18-8 SS	621101 (3)
Bolt, Volute (5/16-18 x 2-1/4 SHCS)	6	S, L	18-8 SS	621102 (1)
Nut, Volute (5/16-18 Hex)	7	S, L	18-8 SS	621103 (4)
Lockwasher, Volute (5/16)	8	S, L	18-8 SS	3126341 (4)
Bolt, Motor (3/8-16 x 2-1/2 HHCS) <sup>2</sup>	15	S, L	18-8 SS	620831 (4)
Lockwasher, Motor (3/8) <sup>2</sup>	16	S, L	18-8 SS	S1004 (4)
Spacer Plate	10	S, L	CS/Epoxy	620802
Position 4 – Seal Configuration				
Double Mechanical Seal (Type 9T)	17	4	316 SS/Carbon	A-867031
Seal Seat, Inner	18	4	SiC	621016
Seal Seat, Outer	22	4	SiC	621018
Seal Housing, DMS	3	4	316 SS	620117
Gland Plate	12	4	316 SS	621209
Screw, Gland Plate (1/4-28 x 5/8 HHCS)	20	4	18-8 SS	S620013 (2)
Lockwasher, Gland Plate (1/4)	21	4	18-8 SS	863701 (2)
Position 5 – Motor Frame (Shaft, Bracket & Power Frame)				
Shaft – 5/8" Bore (NEMA 56C)	4	0, P	316 SS/303 SS	620411
Shaft – 7/8" Bore (NEMA 143TC/145TC)	4	1	316 SS/303 SS	620431
Bracket, Mounting	14	0, 1, P	Cl/Epoxy	620801
Power Frame	–	P	Cl/CS/Epoxy	A-620804
Position 6 – O-Rings/Gaskets				
Gasket, Volute	5	0	Teflon	620601
O-ring, Volute (2-154)	5	V	Viton	620621
Gasket, Volute	5	G	Graphoil	620603
O-ring, Seal Seat, Inner (2-022)	19	0, V, G	Viton	620613
O-ring, Seal Seat, Outer (2-024)	23	0, V, G	Viton	620614
Position 7 – Impeller Trim				
Impeller, Full Size	1	0 (Pos. 2 = F)	316 SS	See Position 2
Impeller, Reduced – 3.50" Diameter	1	1 (Pos. 2 = R)	316 SS	620305
Impeller, Reduced – 3.25" Diameter	1	2 (Pos. 2 = R)	316 SS	620306
Impeller, Reduced – 3.00" Diameter	1	3 (Pos. 2 = R)	316 SS	620307
Impeller, Reduced – 2.75" Diameter	1	4 (Pos. 2 = R)	316 SS	620308

1 – Volute may contain an additional plug on the outlet port (see reference drawing on next page).

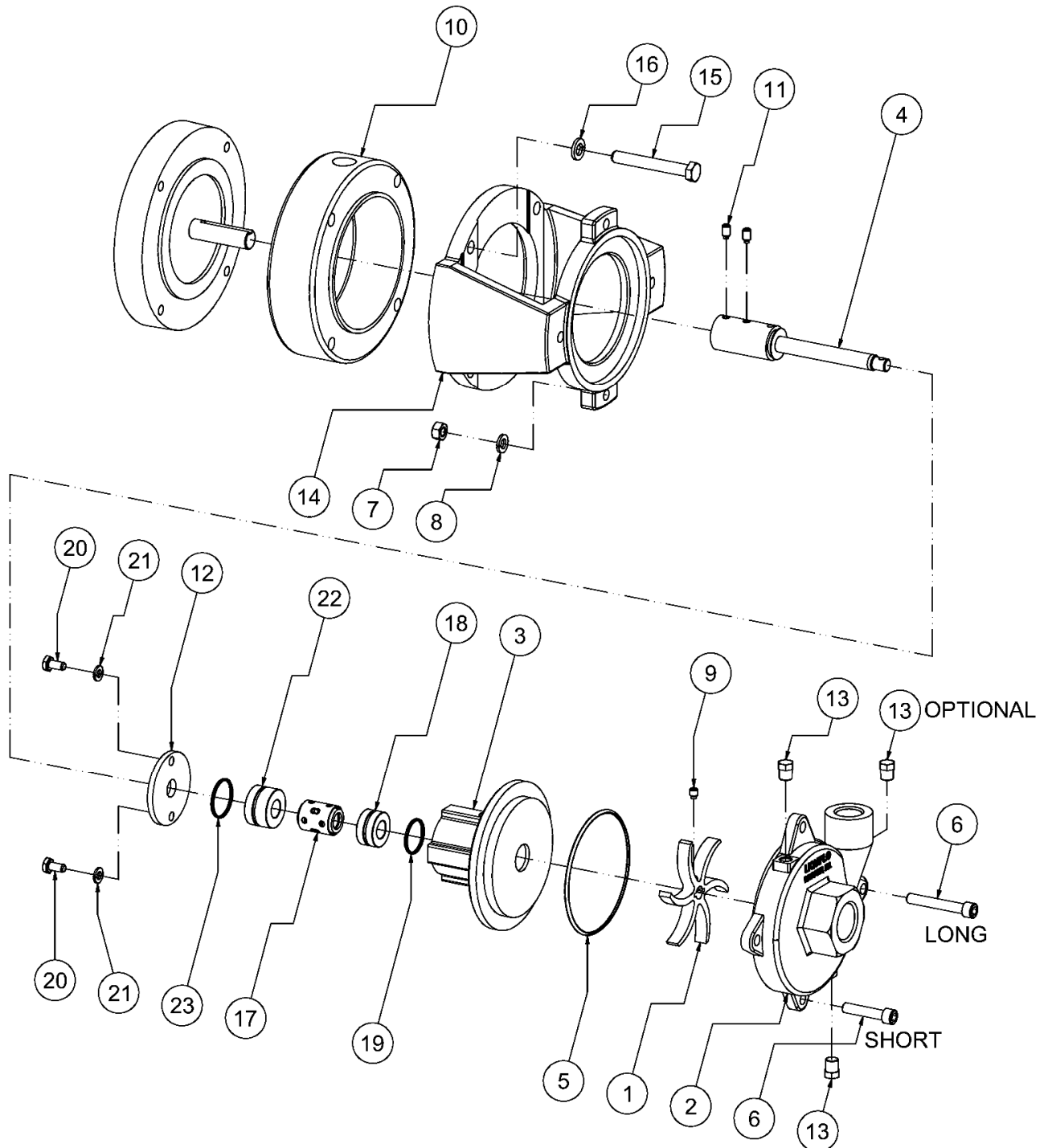
2 – For NEMA motor frames and Power Frame.



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**BOM: SEALED Model 620**  
**with Double Mechanical Seal**

**Centry® Model 620 with Double Mechanical Seal**



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**Centry® Series Centrifugal Pumps**  
BOM: **SEALED Model 620**  
with **Packing Seal**

Part Description	Drwg. Item #	Alloy-C Construction		
		Code	Material	620
Position 2 – Impeller Size				
Impeller, Full Size – 3.75" Diameter	1	F	Alloy-C	620302
Impeller, Reduced Size	1	R	Alloy-C	See Position 7
Position 3 – Basic Material of Construction & Port Type (Volute, Plugs & Hardware)				
Volute, Threaded (NPT)	2	H	Alloy-C	620002
Volute, Flanged (150# ANSI RF)	2	C#	Alloy-C	620006
Plug, 1/8 NPT (Volute) <sup>1</sup>	13	H, C	Alloy-C	362301 (2)
Setscrew, Impeller (1/4-28 x 3/8 SHSS-HD)	9	H, C	Alloy-C/Teflon	S620001
Setscrew, Shaft (1/4-28 x 3/8 SHSS-FD)	11	H, C	18-8 SS	621104 (2)
Bolt, Volute (5/16-18 x 1-3/4 SHCS)	6	H, C	18-8 SS	621101 (3)
Bolt, Volute (5/16-18 x 2-1/4 SHCS)	6	H, C	18-8 SS	621102 (1)
Nut, Volute (5/16-18 Hex)	7	H, C	18-8 SS	621103 (4)
Lockwasher, Volute (5/16)	8	H, C	18-8 SS	3126341 (4)
Bolt, Motor (3/8-16 x 2-1/2 HHCS) <sup>2</sup>	15	H, C	18-8 SS	620831 (4)
Lockwasher, Motor (3/8) <sup>2</sup>	16	H, C	18-8 SS	S1004 (4)
Spacer Plate	10	H, C	CS/Epoxy	620802
Position 4 – Seal Configuration				
Packing Ring	17	5	Teflon	866501 (8)
Packing Ring	17	7	Graphoil	866409 (8)
Lantern Ring	18	5, 7	Teflon	867109
Seal Housing, PS	3	5, 7	Alloy-C	620114
Plug, 1/8 NPT (Seal Housing)	13	5, 7	Alloy-C	362301
Grease Fitting, 1/8 NPT (Seal Housing)	19	5, 7	303 SS	867201
Gland Plate, Split	12	5, 7	Alloy-C	621205 (2)
Screw, Gland Plate (1/4-28 x 1 HHCS)	20	5, 7	18-8 SS	362005 (2)
Lockwasher, Gland Plate (1/4)	21	5, 7	18-8 SS	863701 (2)
Position 5 – Motor Frame (Shaft, Bracket & Power Frame)				
Shaft – 5/8" Bore (NEMA 56C)	4	0, P	Alloy-C/303 SS	620410
Shaft – 7/8" Bore (NEMA 143TC/145TC)	4	1	Alloy-C/303 SS	620430
Bracket, Mounting	14	0, 1, P	CI/Epoxy	620801
Power Frame	–	P	CI/CS/Epoxy	A-620804
Position 6 – O-Rings/Gaskets				
Gasket, Volute	5	0	Teflon	620601
O-ring, Volute (2-154)	5	V	Viton	620621
Gasket, Volute	5	G	Graphoil	620603
Position 7 – Impeller Trim				
Impeller, Full Size	1	0 (Pos. 2 = F)	Alloy-C	See Position 2
Impeller, Reduced – 3.50" Diameter	1	1 (Pos. 2 = R)	Alloy-C	620309
Impeller, Reduced – 3.25" Diameter	1	2 (Pos. 2 = R)	Alloy-C	620310
Impeller, Reduced – 3.00" Diameter	1	3 (Pos. 2 = R)	Alloy-C	620311
Impeller, Reduced – 2.75" Diameter	1	4 (Pos. 2 = R)	Alloy-C	620312

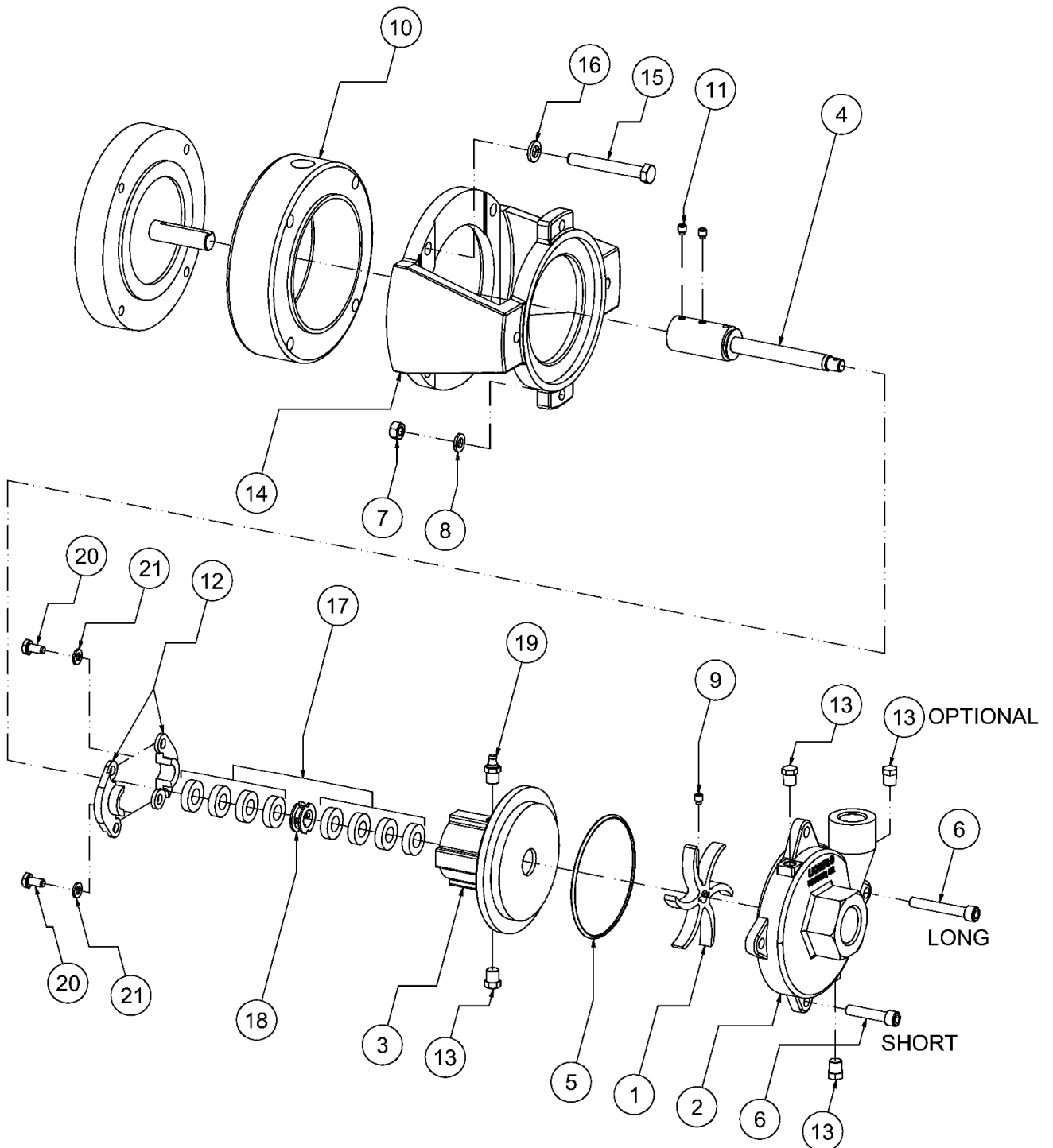
1 – Volute may contain an additional plug on the outlet port (see reference drawing on next page).

2 – For NEMA motor frames and Power Frame.

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**Centry® Series Centrifugal Pumps**  
**BOM: SEALED Model 620**  
**with Packing Seal**

**Centry® Model 620 with Packing Seal**



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**Centry® Series Centrifugal Pumps**  
**BOM: SEALED Model 620**  
with **Single Internal Mechanical Seal**

Part Description	Drwg. Item #	Alloy-C Construction		
		Code	Material	620
Position 2 – Impeller Size				
Impeller, Full Size – 3.75" Diameter	1	F	Alloy-C	620302
Impeller, Reduced Size	1	R	Alloy-C	See Position 7
Position 3 – Basic Material of Construction & Port Type (Volute, Plugs & Hardware)				
Volute, Threaded (NPT)	2	H	Alloy-C	620002
Volute, Flanged (150# ANSI RF)	2	C#	Alloy-C	620006
Plug, 1/8 NPT (Volute) <sup>1</sup>	13	H, C	Alloy-C	362301 (2)
Lock Collar, Impeller	10	H, C	Alloy-C	620502
Screw, Impeller (1/4-20 x 7/16 HHCS)	9	H, C	Alloy-C	620521
Setscrew, Shaft (1/4-28 x 3/8 SHSS-FD)	11	H, C	18-8 SS	621104 (2)
Bolt, Volute (5/16-18 x 1-3/4 SHCS)	6	H, C	18-8 SS	621101 (3)
Bolt, Volute (5/16-18 x 2-1/4 SHCS)	6	H, C	18-8 SS	621102 (1)
Nut, Volute (5/16-18 Hex)	7	H, C	18-8 SS	621103 (4)
Lockwasher, Volute (5/16)	8	H, C	18-8 SS	3126341 (4)
Bolt, Motor (3/8-16 x 1 HHCS) <sup>2</sup>	15	H, C	18-8 SS	620825 (4)
Lockwasher, Motor (3/8) <sup>2</sup>	16	H, C	18-8 SS	S1004 (4)
Position 4 – Seal Configuration				
Single Mechanical Seal (Type 9A)	17	2	Alloy-C/Carbon	A-867008
Single Mechanical Seal (Type 9A)	17	3	Alloy-C/Teflon	A-867077
Seal Seat	18	2, 3	SiC	621006
Seal Housing, SMS	3	2, 3	Alloy-C	620110
Plug, 1/8 NPT (Seal Housing)	13	2, 3	Alloy-C	362301
Wiper, Shaft	12	2, 3	Teflon	620701
Position 5 – Motor Frame (Shaft, Bracket & Power Frame)				
Shaft – 5/8" Bore (NEMA 56C)	4	0, P	Alloy-C/303 SS	620402
Shaft – 7/8" Bore (NEMA 143TC/145TC)	4	1	Alloy-C/303 SS	620422
Bracket, Mounting	14	0, 1, P	Cl/Epoxy	620801
Power Frame	–	P	Cl/CS/Epoxy	A-620804
Position 6 – O-Rings/Gaskets				
Gasket, Volute	5	0	Teflon	620601
O-ring, Volute (2-154)	5	V	Viton	620621
Gasket, Volute	5	G	Graphoil	620603
O-ring, Seal Seat (.397" ID x .070" CSD)	19	0, G	Teflon	620610
O-ring, Seal Seat (.397" ID x .070" CSD)	19	V	Viton	620623
Position 7 – Impeller Trim				
Impeller, Full Size	1	0 (Pos. 2 = F)	Alloy-C	See Position 2
Impeller, Reduced – 3.50" Diameter	1	1 (Pos. 2 = R)	Alloy-C	620309
Impeller, Reduced – 3.25" Diameter	1	2 (Pos. 2 = R)	Alloy-C	620310
Impeller, Reduced – 3.00" Diameter	1	3 (Pos. 2 = R)	Alloy-C	620311
Impeller, Reduced – 2.75" Diameter	1	4 (Pos. 2 = R)	Alloy-C	620312

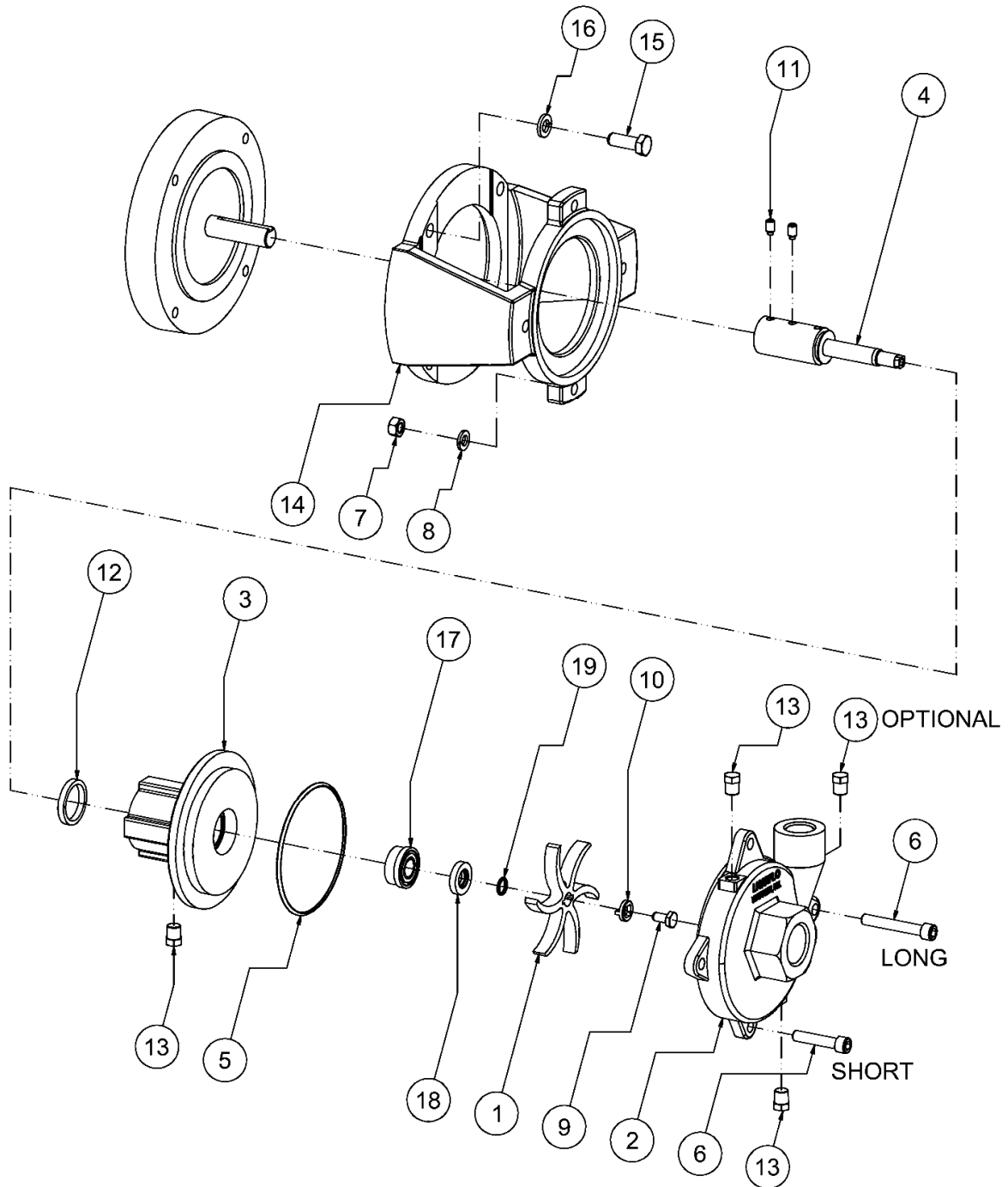
1 – Volute may contain an additional plug on the outlet port (see reference drawing on next page).

2 – For NEMA motor frames and Power Frame.

**Liquiflo**  
**Chemical Processing Pumps™**

**Centry® Series Centrifugal Pumps**  
**BOM: SEALED Model 620**  
**with Single Internal Mechanical Seal**

**Centry® Model 620 with Single Internal Mechanical Seal**



**Liquiflo**  
**Chemical Processing Pumps™**

**Centry® Series Centrifugal Pumps**  
**BOM: SEALED Model 620**  
**with Double Mechanical Seal**

Part Description	Drwg. Item #	Alloy-C Construction		
		Code	Material	620
Position 2 – Impeller Size				
Impeller, Full Size – 3.75" Diameter	1	F	Alloy-C	620302
Impeller, Reduced Size	1	R	Alloy-C	See Position 7
Position 3 – Basic Material of Construction & Port Type (Volute, Plugs & Hardware)				
Volute, Threaded (NPT)	2	H	Alloy-C	620002
Volute, Flanged (150# ANSI RF)	2	C	Alloy-C	620006
Plug, 1/8 NPT (Volute) <sup>1</sup>	13	H, C	Alloy-C	362301 (2)
Setscrew, Impeller (1/4-28 x 3/8 SHSS-HD)	9	H, C	Alloy-C/Teflon	S620001
Setscrew, Shaft (1/4-28 x 3/8 SHSS-FD)	11	H, C	18-8 SS	621104 (2)
Bolt, Volute (5/16-18 x 1-3/4 SHCS)	6	H, C	18-8 SS	621101 (3)
Bolt, Volute (5/16-18 x 2-1/4 SHCS)	6	H, C	18-8 SS	621102 (1)
Nut, Volute (5/16-18 Hex)	7	H, C	18-8 SS	621103 (4)
Lockwasher, Volute (5/16)	8	H, C	18-8 SS	3126341 (4)
Bolt, Motor (3/8-16 x 2-1/2 HHCS) <sup>2</sup>	15	H, C	18-8 SS	620831 (4)
Lockwasher, Motor (3/8) <sup>2</sup>	16	H, C	18-8 SS	S1004 (4)
Spacer Plate	10	H, C	CS/Epoxy	620802
Position 4 – Seal Configuration				
Double Mechanical Seal (Type 9T)	17	4	316 SS/Carbon	A-867031
Seal Seat, Inner	18	4	SiC	621016
Seal Seat, Outer	22	4	SiC	621018
Seal Housing, DMS	3	4	Alloy-C	620118
Gland Plate	12	4	316 SS	621209
Screw, Gland Plate (1/4-28 x 5/8 HHCS)	20	4	18-8 SS	S620013 (2)
Lockwasher, Gland Plate (1/4)	21	4	18-8 SS	863701 (2)
Position 5 – Motor Frame (Shaft, Bracket & Power Frame)				
Shaft – 5/8" Bore (NEMA 56C)	4	0, P	Alloy-C/303 SS	620410
Shaft – 7/8" Bore (NEMA 143TC/145TC)	4	1	Alloy-C/303 SS	620430
Bracket, Mounting	14	0, 1, P	Cl/Epoxy	620801
Power Frame	–	P	Cl/CS/Epoxy	A-620804
Position 6 – O-Rings/Gaskets				
Gasket, Volute	5	0	Teflon	620601
O-ring, Volute (2-154)	5	V	Viton	620621
Gasket, Volute	5	G	Graphoil	620603
O-ring, Seal Seat, Inner (2-022)	19	0, V, G	Viton	620613
O-ring, Seal Seat, Outer (2-024)	23	0, V, G	Viton	620614
Position 7 – Impeller Trim				
Impeller, Full Size	1	0 (Pos. 2 = F)	Alloy-C	See Position 2
Impeller, Reduced – 3.50" Diameter	1	1 (Pos. 2 = R)	Alloy-C	620309
Impeller, Reduced – 3.25" Diameter	1	2 (Pos. 2 = R)	Alloy-C	620310
Impeller, Reduced – 3.00" Diameter	1	3 (Pos. 2 = R)	Alloy-C	620311
Impeller, Reduced – 2.75" Diameter	1	4 (Pos. 2 = R)	Alloy-C	620312

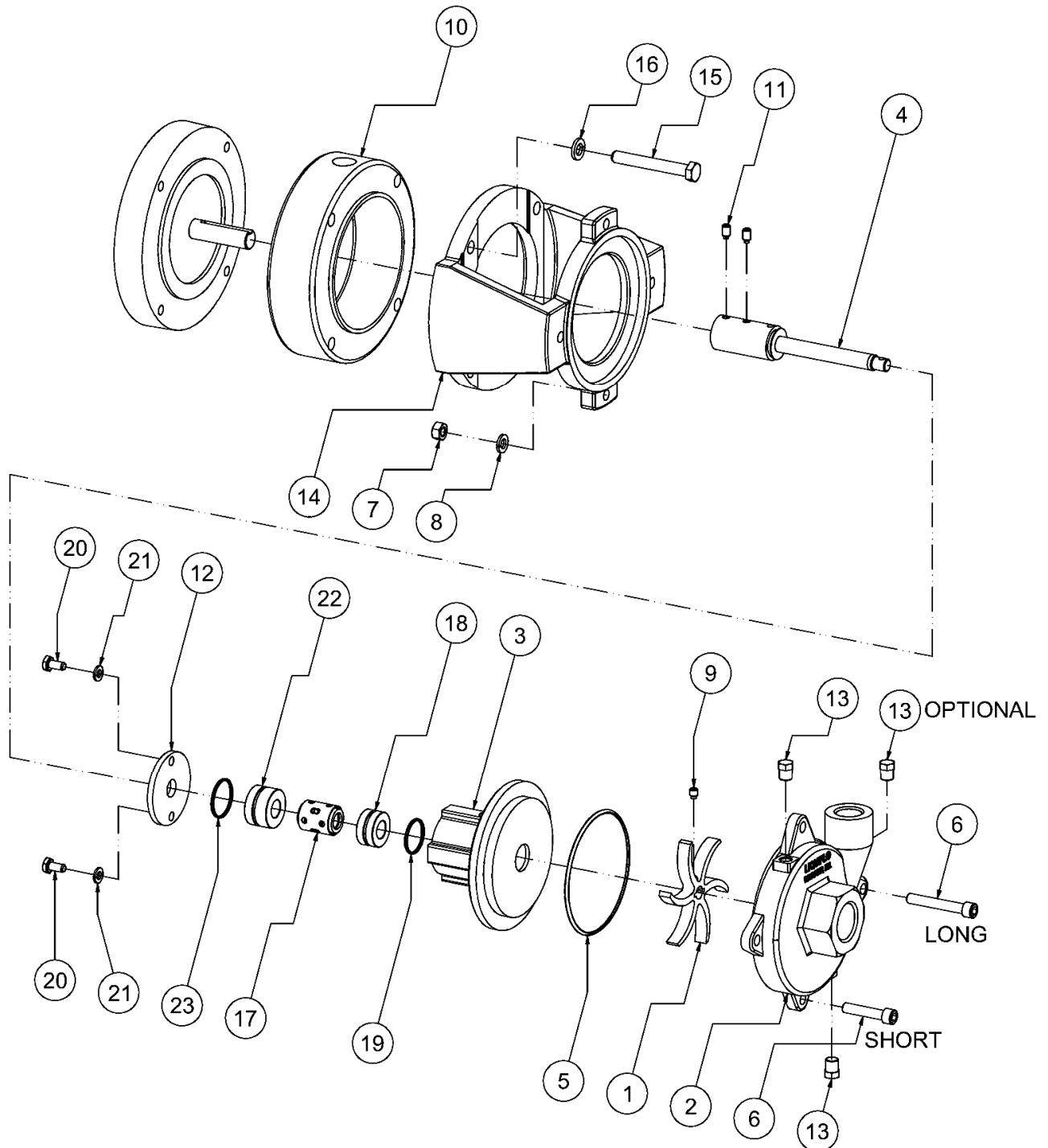
1 – Volute may contain an additional plug on the outlet port (see reference drawing on next page).

2 – For NEMA motor frames and Power Frame.

**Liquiflo**  
**Chemical Processing Pumps™**

**Centry® Series Centrifugal Pumps**  
**BOM: SEALED Model 620**  
**with Double Mechanical Seal**

**Centry® Model 620 with Double Mechanical Seal**





**Liquiflo**  
**Chemical Processing Pumps™**
**Centry® Series Centrifugal Pumps**  
**BOM: MAG-DRIVE Model 620-MC**

Part Description	Drwg. Item #	316 Stainless Steel Construction		
		Code	Material	620
Position 2 – Impeller Size				
Impeller, Full Size – 3.75" Diameter	1	F	316 SS	620301
Impeller, Reduced Size	1	R	316 SS	See Position 10
Position 3 – Basic Material & Port Type (Volute, Bearing Holder, Plugs, C. Can, Pins & Hardware)				
Volute, Threaded (NPT)	2	S	316 SS	620003
Volute, Flanged (150# ANSI RF)	2	L	316 SS	620005
Front Bearing Holder	3	S, L	316 SS	S620020
Plug, 1/8 NPT (Volute & Bearing Holder) <sup>1</sup>	15	S, L	316 SS	362304 (3)
Containment Can	12	S, L	316 SS	S620010
Pin, Thrust Washer	19	S, L	316 SS	360801 (2)
Setscrew, Impeller (1/4-28 x 3/8 SHSS-HD)	8	S, L	316 SS/Teflon	S620000
Bolt, Containment Can (1/4-28 x 1/2 HHCS)	13	S, L	18-8 SS	S620012 (6)
Bolt, Volute (5/16-18 x 1-3/4 SHCS)	6	S, L	18-8 SS	621101 (3)
Bolt, Volute (5/16-18 x 2-1/4 SHCS)	6	S, L	18-8 SS	621102 (1)
Lockwasher, Volute (5/16)	7	S, L	18-8 SS	3126341 (4)
Bolt, Motor (3/8-16 x 1 HHCS) <sup>2</sup>	10	S, L	18-8 SS	620825 (4)
Lockwasher, Motor (3/8) <sup>2</sup>	11	S, L	18-8 SS	S1004 (4)
Position 4 – Bearings				
Bearing	17	3	Teflon	S620025 (2)
Bearing	17	B	SiC	S620029 (2)
Bearing	17	E	Carbon 60	S620032 (2)
Position 5 – Thrust Washers				
Thrust Washer	18	3	Teflon	S620720 (2)
Thrust Washer	18	B	SiC	S620726 (2)
Thrust Washer	18	E	Carbon 60	S620723 (2)
Position 6 – Motor Frame (Pedestal)				
Pedestal – NEMA 56C thru 145TC	16	0, 1	Cl/Epoxy	SP000
Pedestal – IEC 71 - B5 Flange	16	2	Cl/Epoxy	SP001
Pedestal – IEC 80 & 90 - B5 Flange	16	3, 4	Cl/Epoxy	SP002
Position 7 – Shaft				
Shaft, CO-Coated	4	1	316 SS/CO	S620401-CO
Shaft, TC-Coated	4	2	316 SS/TC	S620401-TC
Position 8 – O-Rings/Gaskets				
Gasket, Volute	5	0	Teflon	620601
O-ring, Volute (2-154)	5	V	Viton	620621
Gasket, Volute	5	G	Graphoil	620603
O-ring, Containment Can (2-042)	14	0	Teflon	S4000
O-ring, Containment Can (2-042)	14	V	Viton	S4002
Gasket, Containment Can	14	G	Graphoil	S4005
Position 9 – Magnetic Coupling				
Inner Magnet, MCD (33 in-lbs) – 1/2" Bore	20	D	316SS/Ceramic	SIMCD-04
Inner Magnet, MCE (120 in-lbs) – 1/2" Bore	20	F	316SS/SmCo	SIMCE-04
Setscrew, Inner Magnet (1/4-28 x 3/8 SHSS-HD) <sup>3</sup>	9	D, F	316 SS/Teflon	S620000
Outer Magnet, MCD (33 in-lbs) – 5/8" Bore	21	D (Pos. 6 = 0)	CS/Ceramic	SOMCD-5
Outer Magnet, MCD (33 in-lbs) – 7/8" Bore	21	D (Pos. 6 = 1)	CS/Ceramic	SOMCD-7
Outer Magnet, MCD (33 in-lbs) – 14mm Bore	21	D (Pos. 6 = 2)	CS/Ceramic	SOMCD-71
Outer Magnet, MCD (33 in-lbs) – 19mm Bore	21	D (Pos. 6 = 3)	CS/Ceramic	SOMCD-80
Outer Magnet, MCD (33 in-lbs) – 24mm Bore	21	D (Pos. 6 = 4)	CS/Ceramic	SOMCD-90
Outer Magnet, MCF (120 in-lbs) – 5/8" Bore	21	F (Pos. 6 = 0)	CS/SmCo	SOMCF-5
Outer Magnet, MCF (120 in-lbs) – 7/8" Bore	21	F (Pos. 6 = 1)	CS/SmCo	SOMCF-7
Outer Magnet, MCF (120 in-lbs) – 14mm Bore	21	F (Pos. 6 = 2)	CS/SmCo	SOMCF-71
Outer Magnet, MCF (120 in-lbs) – 19mm Bore	21	F (Pos. 6 = 3)	CS/SmCo	SOMCF-80
Outer Magnet, MCF (120 in-lbs) – 24mm Bore	21	F (Pos. 6 = 4)	CS/SmCo	SOMCF-90
Setscrew, Outer Magnet (1/4-28 x 3/8 SHSS-CP) <sup>3</sup>	22	D, F	CS	421104 (2)

1 – Volute may contain an additional plug on the outlet port (see reference drawing on next page).

2 – For NEMA motor frames and Power Frame.

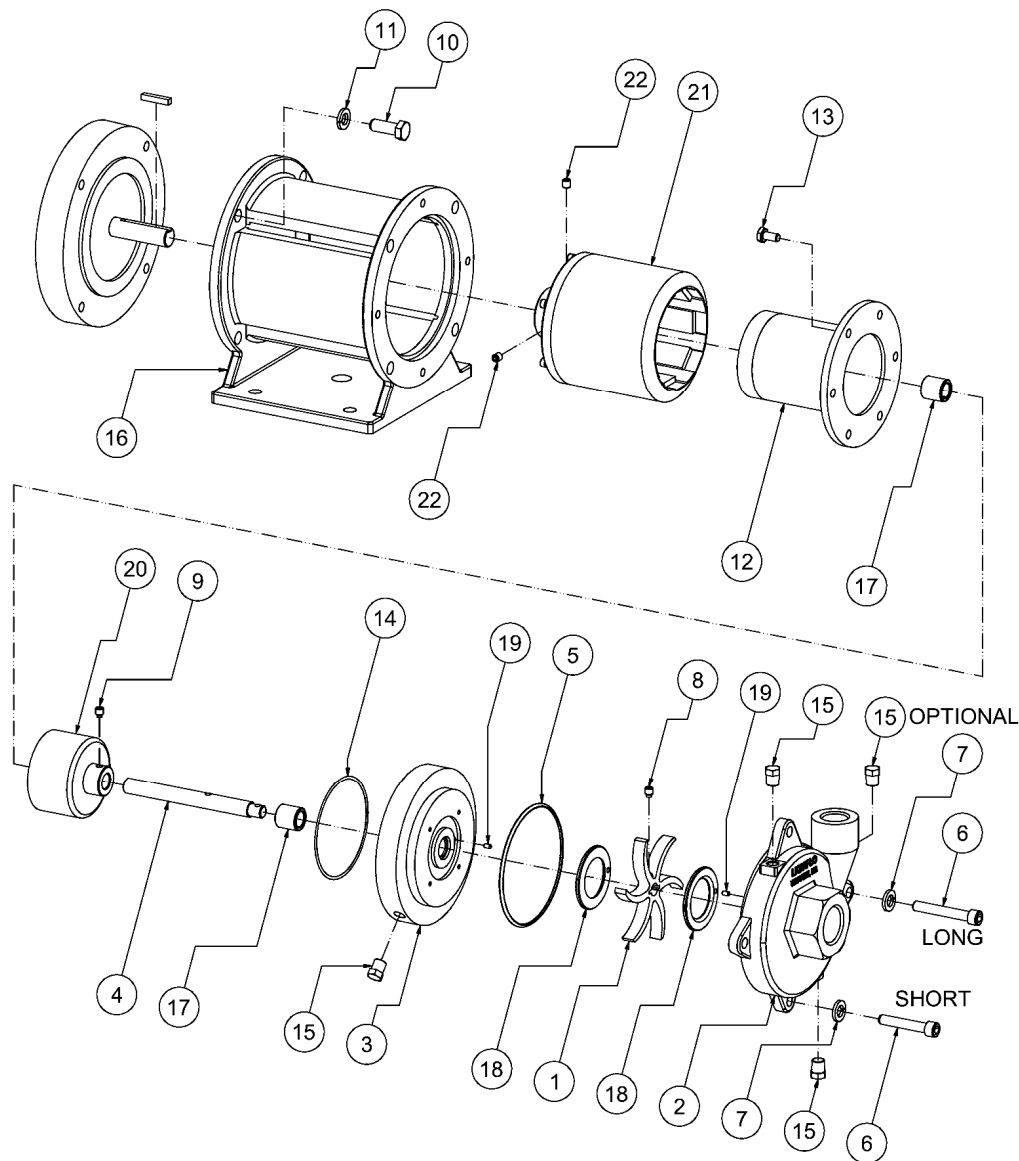
3 – Setscrew included with magnet assembly.

## Liquiflo Chemical Processing Pumps™

## Centry® Series Centrifugal Pumps

Part Description	Drwg. Item #	316 Stainless Steel Construction		
		Code	Material	620
Position 10 – Impeller Trim				
Impeller, Full Size	1	0 (Pos. 2 = F)	316 SS	See Position 2
Impeller, Reduced – 3.50" Diameter	1	1 (Pos. 2 = R)	316 SS	620305
Impeller, Reduced – 3.25" Diameter	1	2 (Pos. 2 = R)	316 SS	620306
Impeller, Reduced – 3.00" Diameter	1	3 (Pos. 2 = R)	316 SS	620307
Impeller, Reduced – 2.75" Diameter	1	4 (Pos. 2 = R)	316 SS	620308
Ancillary Options				
Power Frame	–	–	CI/CS/Epoxy	A-620804
S-Adapter	–	–	CS/Epoxy	SADAPT
Bolt, S-Adapter (3/8-16 x 1-1/4 HHCS)	–	–	18-8 SS	S1000 (4)
Nut, S-Adapter (3/8-16 Hex)	–	–	18-8 SS	S1003 (4)
Lockwasher, S-Adapter (3/8)	–	–	18-8 SS	S1004 (4)

# Centry® MAG-DRIVE Model 620-MC



<b>Liquiflo</b> <b>Chemical Processing Pumps™</b>	<b>Centry® Series Centrifugal Pumps</b> <b>BOM: MAG-DRIVE Model 620-MC</b>
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Part Description	Drwg. Item #	Alloy-C Construction		
		Code	Material	620
Position 2 – Impeller Size				
Impeller, Full Size – 3.75" Diameter	1	F	Alloy-C	620302
Impeller, Reduced Size	1	R	Alloy-C	See Position 10
Position 3 – Basic Material & Port Type (Volute, Bearing Holder, Plugs, C. Can, Pins & Hardware)				
Volute, Threaded (NPT)	2	H	Alloy-C	620002
Volute, Flanged (150# ANSI RF)	2	C	Alloy-C	620006
Front Bearing Holder	3	H, C	Alloy-C	S620021
Plug, 1/8 NPT (Volute & Bearing Holder) <sup>1</sup>	15	H, C	Alloy-C	362301 (3)
Containment Can	12	H, C	Alloy-C	S620011
Pin, Thrust Washer	19	H, C	Alloy-C	360804 (2)
Setscrew, Impeller (1/4-28 x 3/8 SHSS-HD)	8	H, C	Alloy-C/Teflon	S620001
Bolt, Containment Can (1/4-28 x 1/2 HHCS)	13	H, C	18-8 SS	S620012 (6)
Bolt, Volute (5/16-18 x 1-3/4 SHCS)	6	H, C	18-8 SS	621101 (3)
Bolt, Volute (5/16-18 x 2-1/4 SHCS)	6	H, C	18-8 SS	621102 (1)
Lockwasher, Volute (5/16)	7	H, C	18-8 SS	3126341 (4)
Bolt, Motor (3/8-16 x 1 HHCS) <sup>2</sup>	10	H, C	18-8 SS	620825 (4)
Lockwasher, Motor (3/8) <sup>2</sup>	11	H, C	18-8 SS	S1004 (4)
Position 4 – Bearings				
Bearing	17	3	Teflon	S620025 (2)
Bearing	17	B	SiC	S620029 (2)
Bearing	17	E	Carbon 60	S620032 (2)
Position 5 – Thrust Washers				
Thrust Washer	18	3	Teflon	S620720 (2)
Thrust Washer	18	B	SiC	S620726 (2)
Thrust Washer	18	E	Carbon 60	S620723 (2)
Position 6 – Motor Frame (Pedestal)				
Pedestal – NEMA 56C thru 145TC	16	0, 1	Cl/Epoxy	SP000
Pedestal – IEC 71 - B5 Flange	16	2	Cl/Epoxy	SP001
Pedestal – IEC 80 & 90 - B5 Flange	16	3, 4	Cl/Epoxy	SP002
Position 7 – Shaft				
Shaft, CO-Coated	4	1	Alloy-C/CO	S620402-CO
Shaft, TC-Coated	4	2	Alloy-C/TC	S620402-TC
Position 8 – O-Rings/Gaskets				
Gasket, Volute	5	0	Teflon	620601
O-ring, Volute (2-154)	5	V	Viton	620621
Gasket, Volute	5	G	Graphoil	620603
O-ring, Containment Can (2-042)	14	0	Teflon	S4000
O-ring, Containment Can (2-042)	14	V	Viton	S4002
Gasket, Containment Can	14	G	Graphoil	S4005
Position 9 – Magnetic Coupling				
Inner Magnet, MCD (33 in-lbs) – 1/2" Bore	20	D	Alloy-C/Ceramic	SIMCD-14
Inner Magnet, MCE (120 in-lbs) – 1/2" Bore	20	F	Alloy-C/SmCo	SIMCE-14
Setscrew, Inner Magnet (1/4-28 x 3/8 SHSS-HD) <sup>3</sup>	9	D, F	Alloy-C/Teflon	S620001
Outer Magnet, MCD (33 in-lbs) – 5/8" Bore	21	D (Pos. 6 = 0)	CS/Ceramic	SOMCD-5
Outer Magnet, MCD (33 in-lbs) – 7/8" Bore	21	D (Pos. 6 = 1)	CS/Ceramic	SOMCD-7
Outer Magnet, MCD (33 in-lbs) – 14mm Bore	21	D (Pos. 6 = 2)	CS/Ceramic	SOMCD-71
Outer Magnet, MCD (33 in-lbs) – 19mm Bore	21	D (Pos. 6 = 3)	CS/Ceramic	SOMCD-80
Outer Magnet, MCD (33 in-lbs) – 24mm Bore	21	D (Pos. 6 = 4)	CS/Ceramic	SOMCD-90
Outer Magnet, MCF (120 in-lbs) – 5/8" Bore	21	F (Pos. 6 = 0)	CS/SmCo	SOMCF-5
Outer Magnet, MCF (120 in-lbs) – 7/8" Bore	21	F (Pos. 6 = 1)	CS/SmCo	SOMCF-7
Outer Magnet, MCF (120 in-lbs) – 14mm Bore	21	F (Pos. 6 = 2)	CS/SmCo	SOMCF-71
Outer Magnet, MCF (120 in-lbs) – 19mm Bore	21	F (Pos. 6 = 3)	CS/SmCo	SOMCF-80
Outer Magnet, MCF (120 in-lbs) – 24mm Bore	21	F (Pos. 6 = 4)	CS/SmCo	SOMCF-90
Setscrew, Outer Magnet (1/4-28 x 3/8 SHSS-CP) <sup>3</sup>	22	D, F	CS	421104 (2)

1 – Volute may contain an additional plug on the outlet port (see reference drawing on next page).

2 – For NEMA motor frames and Power Frame.

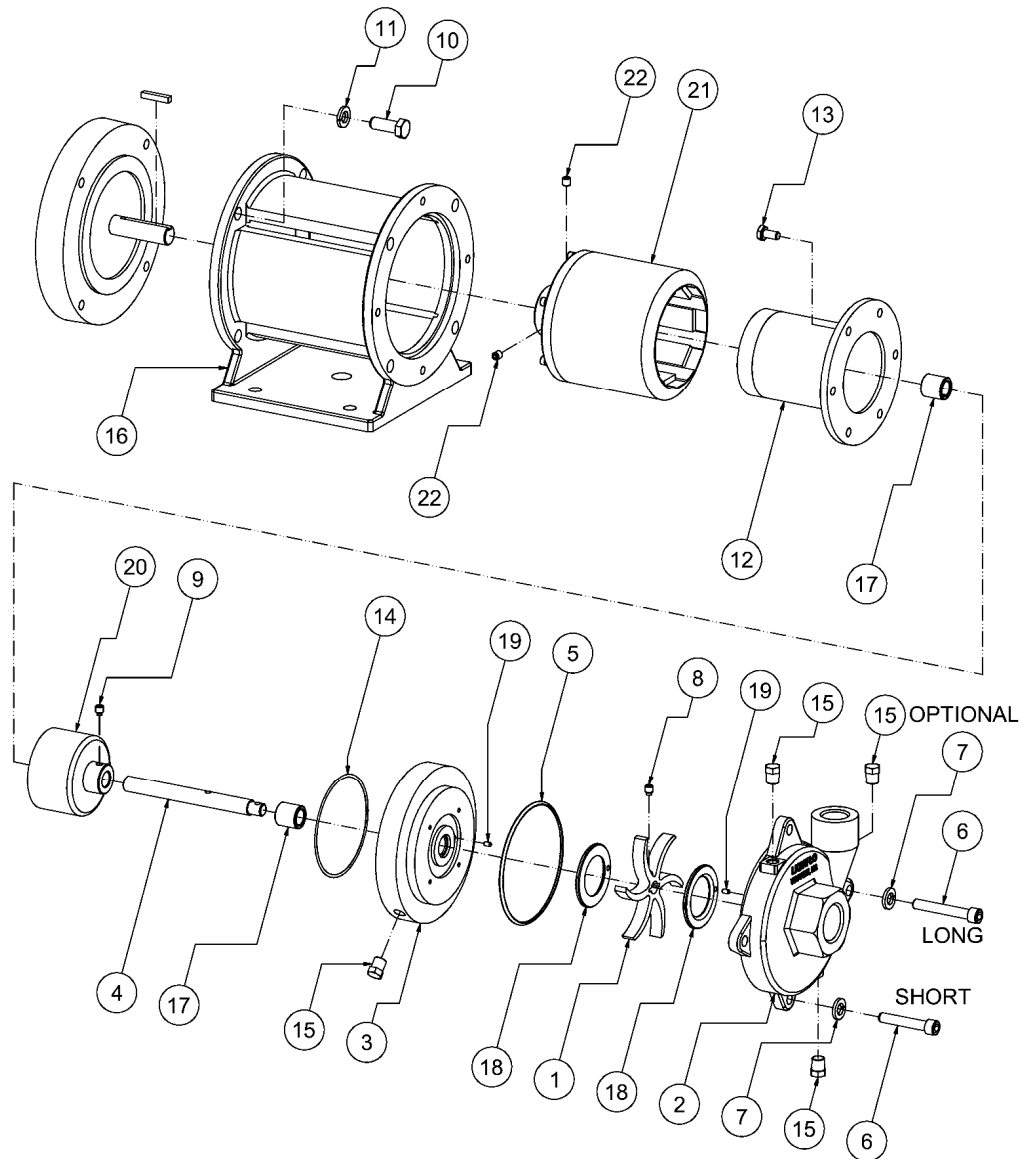
3 – Setscrew included with magnet assembly.

**Liquiflo**  
Chemical Processing Pumps™

**Centry® Series Centrifugal Pumps**  
BOM: **MAG-DRIVE Model 620-MC**

Part Description	Drwg. Item #	Alloy-C Construction		
		Code	Material	620
Position 10 – Impeller Trim				
Impeller, Full Size	1	0 (Pos. 2 = F)	Alloy-C	See Position 2
Impeller, Reduced – 3.50" Diameter	1	1 (Pos. 2 = R)	Alloy-C	620309
Impeller, Reduced – 3.25" Diameter	1	2 (Pos. 2 = R)	Alloy-C	620310
Impeller, Reduced – 3.00" Diameter	1	3 (Pos. 2 = R)	Alloy-C	620311
Impeller, Reduced – 2.75" Diameter	1	4 (Pos. 2 = R)	Alloy-C	620312
Ancillary Options				
Power Frame	–	–	CI/CS/Epoxy	A-620804
S-Adapter	–	–	CS/Epoxy	SADAPT
Bolt, S-Adapter (3/8-16 x 1-1/4 HHCS)	–	–	18-8 SS	S1000 (4)
Nut, S-Adapter (3/8-16 Hex)	–	–	18-8 SS	S1003 (4)
Lockwasher, S-Adapter (3/8)	–	–	18-8 SS	S1004 (4)

**Centry® MAG-DRIVE Model 620-MC**



**Liquiflo**  
**Chemical Processing Pumps™**

**Centry® Series Centrifugal Pumps**  
**BOM: SEALED Models 621 & 622**  
**with Single Internal Mechanical Seal**

Part Description	Drwg. Item #	316 Stainless Steel Construction			
		Code	Material	621	622
Position 2 – Impeller Size					
Impeller, Full Size – 5.0" Diameter	1	F	316 SS	622700	622701
Impeller, Reduced Size	1	R	316 SS	See Position 7	
Position 3 – Basic Material of Construction & Port Type (Volute, Plugs & Hardware)					
Volute, Threaded (NPT)	2	S	316 SS	622100	622101
Volute, Flanged (150# ANSI RF)	2	L	316 SS	622110	622111
Plug, 1/8 NPT (Volute)	18	S, L	316 SS	362304 (2)	362304 (2)
Setscrew, Shaft (1/4-28 x 3/8 SHSS-FD)	14	S, L	18-8 SS	621104 (2)	621104 (2)
Bolt, Volute (1/4-28 x 1/2 HHCS)	6	S, L	18-8 SS	S620012 (8)	S620012 (8)
Key, Impeller	10	S, L	316 SS	621900	621900
Washer, Impeller	7	S, L	316 SS	622500	622500
Screw, Impeller (1/4-28 x 1 HHCS) <sup>1</sup>	8	S, L	316 SS/Teflon	S620033	S620033
Lockwasher, Impeller (1/4)	9	S, L	18-8 SS	863701	863701
Bolt, Motor (3/8-16 x 1 HHCS) <sup>2</sup>	15	S, L	18-8 SS	620825 (4)	620825 (4)
Lockwasher, Motor (3/8) <sup>2</sup>	16	S, L	18-8 SS	S1004 (4)	S1004 (4)
Impeller Positioning Device (NPT) <sup>3</sup>	–	S	Aluminum	621700	621701
Impeller Positioning Device (Flanged) <sup>3</sup>	–	L	Aluminum	621702	621703
Position 4 – Seal Configuration					
Single Mechanical Seal (Type 21)	11	2	18-8 SS/Carbon	A-627011	A-627011
Seal Seat	12	2	Ceramic	781546	781546
Position 5 – Motor Frame (Shaft, Bracket, Adapter & Power Frame)					
Shaft – 5/8" Bore (NEMA 56C)	4	0	316 SS	622300	622300
Shaft – 7/8" Bore (NEMA 143TC/145TC)	4	1	316 SS	622301	622301
Shaft – 1-1/8" Bore (NEMA 182TC/184TC)	4	5	316 SS	622302	622302
Bracket, Mounting	3	0, 1, 5	316 SS	622200	622200
Adapter Plate (NEMA 182TC/184TC)	–	5	CS/Epoxy	SP0046	SP0046
Bolt, Adapter Plate (1/2-13 x 1 SHCS)	–	5	18-8 SS	641105 (4)	641105 (4)
Position 6 – O-Rings/Gaskets					
O-ring, Volute (2-049)	5	0	Teflon	3121103	3121103
O-ring, Volute (2-049)	5	V	Viton	3121119	3121119
Gasket, Volute	5	G	Graphoil	622603	622603
O-ring, Seal Seat (2-216)	13	0, V, G	Viton	781691	781691
Position 7 – Impeller Trim					
Impeller, Full Size	1	0 (Pos. 2 = F)	316 SS	See Position 2	
Impeller, Reduced – 4.5" Diameter	1	1 (Pos. 2 = R)	316 SS	622702	622706
Impeller, Reduced – 4.0" Diameter	1	2 (Pos. 2 = R)	316 SS	622703	622707
Impeller, Reduced – 3.5" Diameter	1	3 (Pos. 2 = R)	316 SS	622704	622708
Impeller, Reduced – 3.0" Diameter	1	4 (Pos. 2 = R)	316 SS	622705	622709

1 – Part # S620033 replaces Part # S620012 for impeller screw only.

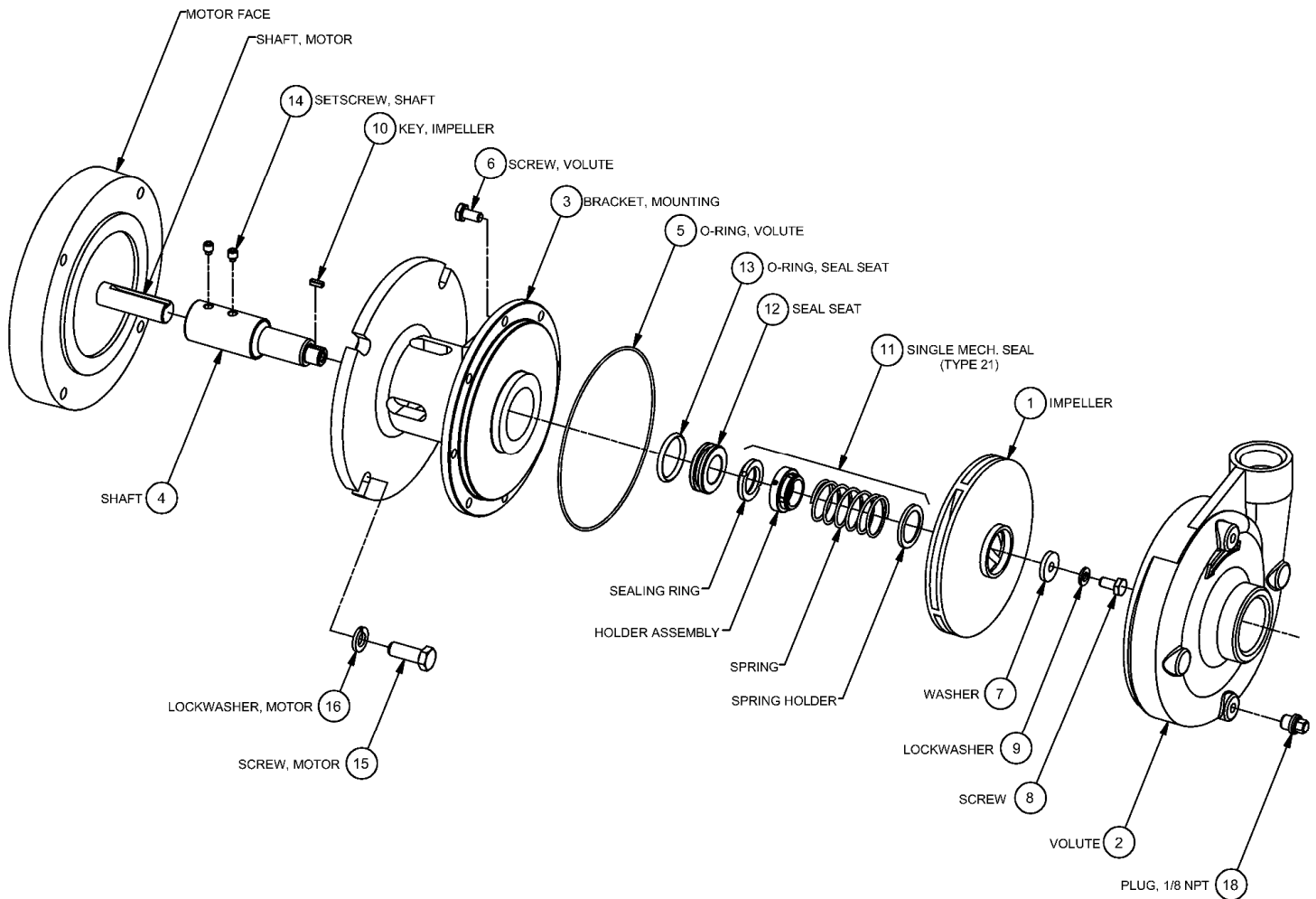
2 – For NEMA motor frames.

3 – Delivered with new pump not attached to motor. The device is to be removed after pump is installed on motor.

**Liquiflo**  
**Chemical Processing Pumps™**

**Centry® Series Centrifugal Pumps**  
**BOM: SEALED Models 621 & 622**  
**with Single Internal Mechanical Seal**

**Centry® SEALED Models 621 & 622**





<b>Liquiflo</b> <b>Chemical Processing Pumps™</b>	<b>Centry® Series Centrifugal Pumps</b> <b>BOM: MAG-DRIVE Models 621-MC &amp; 622-MC</b>
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Part Description	Drwg. Item #	316 Stainless Steel Construction			
		Code	Material	621	622
Position 2 – Impeller Size					
Impeller, Full Size – 5.0" Diameter	1	F	316 SS	622700	622701
Impeller, Reduced Size	1	R	316 SS	See Position 10	
Position 3 – Basic Material & Port Type (Volute, Plugs, Bearing Housing, C. Can, Pins & Hardware)					
Volute, Threaded (NPT)	2	S	316 SS	622100	622101
Volute, Flanged (150# ANSI RF)	2	L	316 SS	622110	622111
Plug, 1/8 NPT (Volute)	24	S, L	316 SS	362304 (2)	362304 (2)
Bearing Housing	3	S, L	316 SS	622800	622800
Containment Can	15	S, L	316 SS	740913	740913
Pin, Bearing Lock	25	S, L	Teflon	361801 (2)	361801 (2)
Pin, Thrust Washer	18	S, L	316 SS	622750 (2)	622750 (2)
Key, Impeller	10	S, L	316 SS	621900	621900
Washer, Shaft	7	S, L	316 SS	622500 (2)	622500 (2)
Screw, Shaft (1/4-28 x 1 HHCS) <sup>1</sup>	8	S, L	316 SS/Teflon	S620033 (2)	S620033 (2)
Lockwasher, Shaft (1/4)	9	S, L	18-8 SS	863701 (2)	863701 (2)
Bolt, Bearing Housing (5/16-18 x 3/4 SHCS)	21	S, L	18-8 SS	641101 (4)	641101 (4)
Bolt, Containment Can (5/16-24 x 1/2 SHCS)	17	S, L	18-8 SS	864007 (6)	864007 (6)
Bolt, Volute (1/4-28 x 1 SHCS)	6	S, L	18-8 SS	S622005 (8)	S622005 (8)
Bolt, Motor (3/8-16 x 1 HHCS) <sup>2</sup>	22	S, L	18-8 SS	620825 (4)	620825 (4)
Lockwasher, Motor (3/8) <sup>2</sup>	23	S, L	18-8 SS	S1004 (4)	S1004 (4)
Position 4 – Bearings					
Bearing	12	B	SiC	622901 (2)	622901 (2)
Bearing	12	E	Carbon 60	622902 (2)	622902 (2)
Position 5 – Thrust Washers					
Thrust Washer	13	B	SiC	622905 (2)	622905 (2)
Position 6 – Motor Frame (Pedestal & Adapter)					
Pedestal – NEMA 56C thru 145TC	20	0, 1, 5	CI/Epoxy	SP003	SP003
Pedestal – IEC 71 - B5 Flange	20	2	CI/Epoxy	SP004	SP004
Pedestal – IEC 80 & 90 - B5 Flange	20	3, 4	CI/Epoxy	SP005	SP005
Adapter Plate (NEMA 182TC/184TC)	–	5	CS/Epoxy	SP0046	SP0046
Bolt, Adapter Plate (1/2-13 x 1 SHCS)	–	5	18-8 SS	641105 (4)	641105 (4)
Position 7 – Shaft					
Shaft, CO-Coated	4	1	316 SS/CO	S622302-CO	S622302-CO
Shaft, TC-Coated	4	2	316 SS/TC	S622302-TC	S622302-TC
Position 8 – O-Rings/Gaskets					
O-ring, Volute (2-049)	5	0	Teflon	3121103	3121103
O-ring, Volute (2-049)	5	V	Viton	3121119	3121119
Gasket, Volute	5	G	Graphoil	622603	622603
O-ring, Containment Can (2-042)	16	0	Teflon	S4000	S4000
O-ring, Containment Can (2-042)	16	V	Viton	S4002	S4002
Gasket, Containment Can	16	G	Graphoil	S4005	S4005
Position 9 – Magnetic Coupling					
Inner Magnet, MCE (120 in-lbs) – 5/8" Bore	14	F	316SS/SmCo	SIMCE-05	SIMCE-05
Inner Magnet, MCW (200 in-lbs) – 5/8" Bore	14	W	316SS/SmCo	SIMCW-05	SIMCW-05
Key, Inner Magnet	11	F, W	316 SS	S622901	S622901
Outer Magnet, MCB (120 in-lbs) – 5/8" Bore	19	F (Pos. 6 = 0)	CS/SmCo	SOMCB-5	SOMCB-5
Outer Magnet, MCB (120 in-lbs) – 7/8" Bore	19	F (Pos. 6 = 1)	CS/SmCo	SOMCB-7	SOMCB-7
Outer Magnet, MCB (120 in-lbs) – 14mm Bore	19	F (Pos. 6 = 2)	CS/SmCo	SOMCB-71	SOMCB-71
Outer Magnet, MCB (120 in-lbs) – 19mm Bore	19	F (Pos. 6 = 3)	CS/SmCo	SOMCB-80	SOMCB-80
Outer Magnet, MCB (120 in-lbs) – 24mm Bore	19	F (Pos. 6 = 4)	CS/SmCo	SOMCB-90	SOMCB-90
Outer Magnet, MCB (120 in-lbs) – 1-1/8" Bore	19	F (Pos. 6 = 5)	CS/SmCo	SOMCB-9	SOMCB-9
Outer Magnet, MCV (200 in-lbs) – 5/8" Bore	19	W (Pos. 6 = 0)	CS/SmCo	SOMCV-5	SOMCV-5
Outer Magnet, MCV (200 in-lbs) – 7/8" Bore	19	W (Pos. 6 = 1)	CS/SmCo	SOMCV-7	SOMCV-7
Outer Magnet, MCV (200 in-lbs) – 14mm Bore	19	W (Pos. 6 = 2)	CS/SmCo	SOMCV-71	SOMCV-71
Outer Magnet, MCV (200 in-lbs) – 19mm Bore	19	W (Pos. 6 = 3)	CS/SmCo	SOMCV-80	SOMCV-80
Outer Magnet, MCV (200 in-lbs) – 24mm Bore	19	W (Pos. 6 = 4)	CS/SmCo	SOMCV-90	SOMCV-90
Outer Magnet, MCV (200 in-lbs) – 1-1/8" Bore	19	W (Pos. 6 = 5)	CS/SmCo	SOMCV-9	SOMCV-9



**Liquiflo**  
Chemical Processing Pumps™

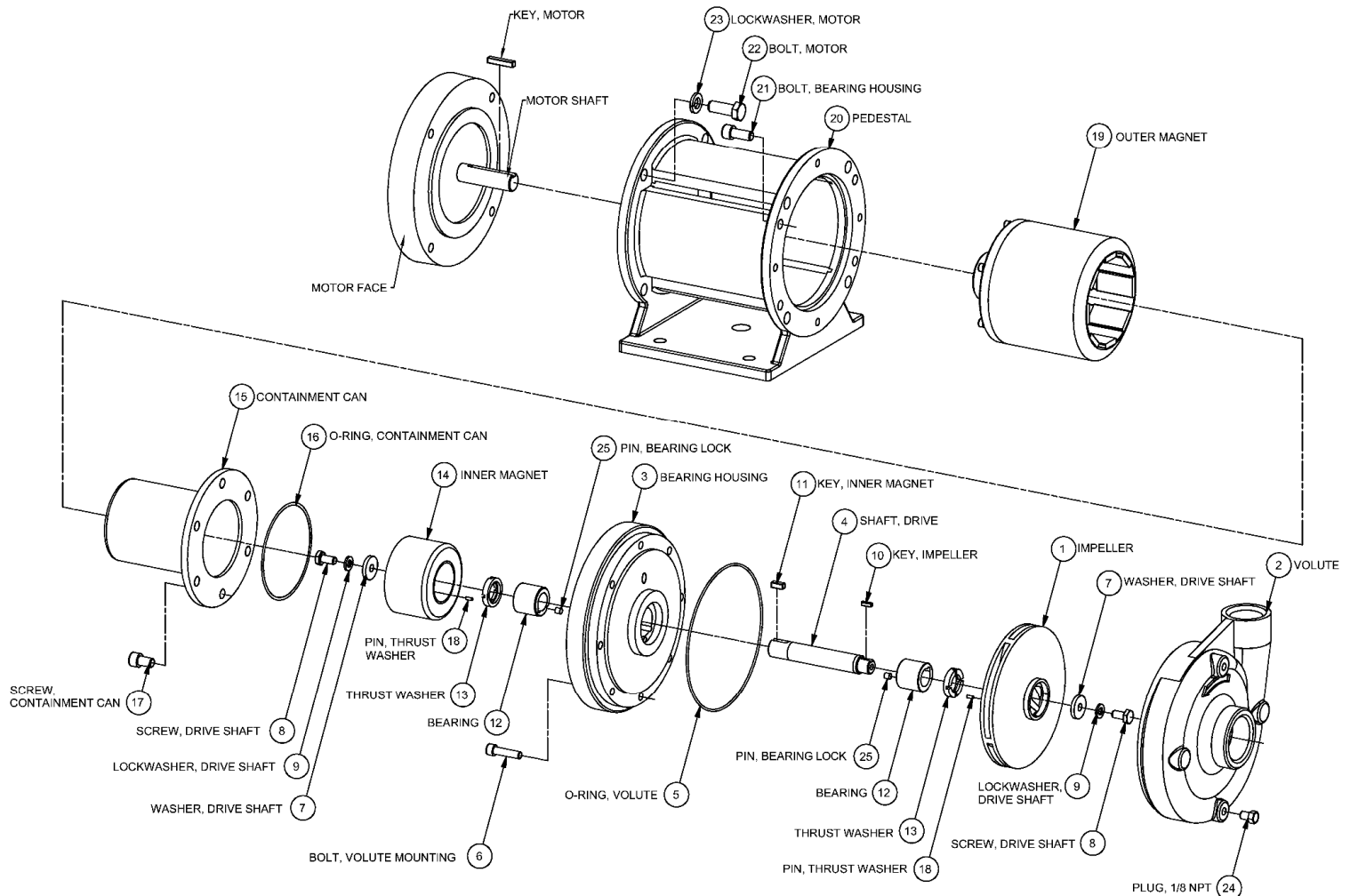
**Centry® Series Centrifugal Pumps**  
BOM: **MAG-DRIVE** Models **621-MC & 622-MC**

Part Description	Drwg. Item #	316 Stainless Steel Construction			
		Code	Material	621	622
Position 10 – Impeller Trim					
Impeller, Full Size	1	0 (Pos. 2 = F)	316 SS	See Position 2	
Impeller, Reduced – 4.5" Diameter	1	1 (Pos. 2 = R)	316 SS	622702	622706
Impeller, Reduced – 4.0" Diameter	1	2 (Pos. 2 = R)	316 SS	622703	622707
Impeller, Reduced – 3.5" Diameter	1	3 (Pos. 2 = R)	316 SS	622704	622708
Impeller, Reduced – 3.0" Diameter	1	4 (Pos. 2 = R)	316 SS	622705	622709
Ancillary Options					
Power Frame	–	–	CI/CS/Epoxy	A-620804	A-620804
S-Adapter	–	–	CS/Epoxy	SADAPT	SADAPT
Bolt, S-Adapter (3/8-16 x 1-1/4 HHCS)	–	–	18-8 SS	S1000 (4)	S1000 (4)
Nut, S-Adapter (3/8-16 Hex)	–	–	18-8 SS	S1003 (4)	S1003 (4)
Lockwasher, S-Adapter (3/8)	–	–	18-8 SS	S1004 (4)	S1004 (4)

1 – Part # S620033 replaces Part # S620012.

2 – For NEMA motor frames and Power Frame.

**Centry® MAG-DRIVE Models 621-MC & 622-MC**



## Appendix: Model Coding

## Model 620 - Sealed

Position #	Description	Code	Selection
1	Pump Model	620	Model 620
2	Impeller Size	F	Full Size – 3.75" Diameter ( <b>Position 7 = 0</b> )
		R	Reduced Size ( <b>Position 7 = 1, 2, 3 or 4</b> )
3	Basic Material of Construction & Port Type	S	316 SS – NPT
		H	Alloy-C – NPT
		L	316 SS – ANSI 150# RF Flanges
		C	Alloy-C – ANSI 150# RF Flanges
4	Seal Configuration	2	Single Internal Mechanical – Carbon/SiC
		3	Single Internal Mechanical – Teflon/SiC
		4	Double Mechanical – Carbon/SiC
		5	Lantern Ring – Teflon Packing
		7	Lantern Ring – Graphoil Packing
5	Motor Frame (or Power Frame)	0	Close-Coupled – NEMA 56C <sup>1</sup>
		1	Close-Coupled – NEMA 143TC/145TC <sup>1</sup>
		P	Pedestal Mount – Power Frame
6	O-Rings/Gaskets	0	Teflon <sup>2</sup>
		V	Viton
		G	Graphoil <sup>2, 3</sup>
7	Impeller Trim (Standard)	0	No Trim ( <b>Position 2 = F</b> )
		1	3.50" Diameter ( <b>Position 2 = R</b> )
		2	3.25" Diameter ( <b>Position 2 = R</b> )
		3	3.00" Diameter ( <b>Position 2 = R</b> )
		4	2.75" Diameter ( <b>Position 2 = R</b> )

<sup>1</sup> – Pump and bracket are supported by motor; use motor with base.

<sup>2</sup> – Seal seats for double mechanical seal use Viton O-rings.

<sup>3</sup> – Seal seat for single internal mechanical seal uses Teflon O-ring.

## Appendix: Model Coding (Continued)

## Model 620-MC

Position #	Description	Code	Selection
1	Pump Model	620	Model 620-MC
2	Impeller Size	F	Full Size – 3.75" Diameter ( <b>Position 10 = 0</b> )
		R	Reduced Size ( <b>Position 10 = 1, 2, 3 or 4</b> )
3	Basic Material of Construction & Port Type	S	316 SS – NPT
		H	Alloy-C – NPT
		L	316 SS – ANSI 150# RF Flanges
		C	Alloy-C – ANSI 150# RF Flanges
4	Bearings	2	Carbon (Obsolete – Use Code E)
		3	Teflon
		B	Silicon Carbide
		E	Carbon-60
5	Thrust Washers	2	Carbon (Obsolete – Use Code E)
		3	Teflon
		B	Silicon Carbide
		E	Carbon-60
6	Motor Frame (Outer Magnet Bore)	0	NEMA 56C (5/8 in.)
		1	NEMA 143TC/145TC (7/8 in.)
		2	IEC 71 – B5 (14 mm)
		3	IEC 80 – B5 (19 mm)
		4	IEC 90 – B5 (24 mm)
7	Shaft Coating	1	Chrome Oxide
		2	Tungsten Carbide
8	O-Rings/Gaskets	0	Teflon
		V	Viton
		G	Graphoil
9	Magnetic Coupling	D	MCD – 33 in-lbs
		F	MCF – 120 in-lbs
10	Impeller Trim (Standard)	0	No Trim ( <b>Position 2 = F</b> )
		1	3.50" Diameter ( <b>Position 2 = R</b> )
		2	3.25" Diameter ( <b>Position 2 = R</b> )
		3	3.00" Diameter ( <b>Position 2 = R</b> )
		4	2.75" Diameter ( <b>Position 2 = R</b> )

## Appendix: Model Coding (Continued)

## Models 621 &amp; 622 - Sealed

Position #	Description	Code	Selection
1	Pump Model	621	Model 621
		622	Model 622
2	Impeller Size	F	Full Size – 5.0" Diameter ( <b>Position 7 = 0</b> )
		R	Reduced Size ( <b>Position 7 = 1, 2, 3 or 4</b> )
3	Basic Material of Construction & Port Type	S	316 SS – NPT
		L	316 SS – ANSI 150# RF Flanges
4	Seal Configuration	2	Single Internal Mechanical – Carbon/SiC
5	Motor Frame	0	Close-Coupled – NEMA 56C <sup>1</sup>
		1	Close-Coupled – NEMA 143TC/145TC <sup>1</sup>
		5	Close-Coupled – NEMA 182TC/184TC <sup>1</sup>
6	O-Rings/Gaskets	0	Teflon <sup>2</sup>
		V	Viton
		G	Graphoil <sup>2</sup>
7	Impeller Trim (Standard)	0	No Trim ( <b>Position 2 = F</b> )
		1	4.5" Diameter ( <b>Position 2 = R</b> )
		2	4.0" Diameter ( <b>Position 2 = R</b> )
		3	3.5" Diameter ( <b>Position 2 = R</b> )
		4	3.0" Diameter ( <b>Position 2 = R</b> )

<sup>1</sup> – Pump and bracket are supported by motor; use motor with base.

<sup>2</sup> – Seal seat for single internal mechanical seal uses Viton O-ring.

## Appendix: Model Coding (Continued)

## Models 621 &amp; 622 - MC

Position #	Description	Code	Selection
1	Pump Model	621	Model 621-MC
		622	Model 622-MC
2	Impeller Size	F	Full Size – 5.0" Diameter ( <b>Position 10 = 0</b> )
		R	Reduced Size ( <b>Position 10 = 1, 2, 3 or 4</b> )
3	Basic Material of Construction & Port Type	S	316 SS – NPT
		L	316 SS – ANSI 150# RF Flanges
4	Bearings	2	Carbon (Obsolete – Use Code E)
		3	Teflon (Consult Factory)
		B	Silicon Carbide
		E	Carbon-60
5	Thrust Washers	2	Carbon (Obsolete – Use Code B)
		3	Teflon (Consult Factory)
		B	Silicon Carbide
6	Motor Frame (Outer Magnet Bore)	0	NEMA 56C (5/8 in.)
		1	NEMA 143TC/145TC (7/8 in.)
		2	IEC 71 – B5 (14 mm)
		3	IEC 80 – B5 (19 mm)
		4	IEC 90 – B5 (24 mm)
		5	NEMA 182TC/184TC (1-1/8 in.)
7	Shaft Coating	1	Chrome Oxide
		2	Tungsten Carbide
8	O-Rings/Gaskets	0	Teflon
		V	Viton
		G	Graphoil
9	Magnetic Coupling	F	MCF – 120 in-lbs
		W	MCW – 200 in-lbs
10	Impeller Trim (Standard)	0	No Trim ( <b>Position 2 = F</b> )
		1	4.5" Diameter ( <b>Position 2 = R</b> )
		2	4.0" Diameter ( <b>Position 2 = R</b> )
		3	3.5" Diameter ( <b>Position 2 = R</b> )
		4	3.0" Diameter ( <b>Position 2 = R</b> )