



**CONSOLIDATED
BILL OF MATERIALS (BOM)
FOR STANDARD
2-SERIES GEAR PUMPS**



**Models 2R & 2F
Mag-Drive, Close-Coupled**

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Liquiflo
Chemical Processing Pumps™
2-Series Gear Pumps
BOM: MAG-DRIVE, CC Models 2R & 2F

Part Description	Drwg. Item #	316 Stainless Steel Construction			
		Code	Material	2R	2F
Position 3 – Basic Material & Port Type (Housings, Containment Can, Wave Springs, Pins & Hardware)					
Center Housing, 1/4" NPT	2	S	316 SS	200011	200011
Center Housing, 1/4" BSPT	2	X	316 SS	200009	200009
Front Housing	8	S, X	316 SS	200012	200012
Rear Housing (End Cap)	12	S, X	316 SS	212026	212026
Containment Can	11	S, X	316 SS	442001	442001
Wave Spring	17	S, X	316 SS	207028 (2)	207028 (2)
Pin, Housing Alignment	20	S, X	316 SS	207038 (2)	207038 (2)
Bolt, Housing (#10-32 x 2-1/8 SHCS)	7	S, X	18-8 SS	620842 (4)	620842 (4)
Lockwasher, Housing (#10)	21	S, X	18-8 SS	5018 (4)	5018 (4)
Bolt, Front Housing (#10-32 x 5/8 SHCS)	4	S, X	18-8 SS	620840 (4)	620840 (4)
Lockwasher, Front Housing (#10)	22	S, X	18-8 SS	5018 (4)	5018 (4)
Position 4 – Drive Gear (Drive Gear-Shaft Assembly)					
Drive Gear-Shaft, Uncoated	15	1 (Pos. 8 = 0)	Alloy-C – 316 SS	206091	206083
Drive Gear-Shaft, CO-Coated	15	1 (Pos. 8 = 1)	Alloy-C – 316 SS/CO	206094	206086
Drive Gear-Shaft, TC-Coated	15	1 (Pos. 8 = 2)	Alloy-C – 316 SS/TC	206092	206084
Drive Gear-Shaft, Uncoated	15	6 (Pos. 8 = 0)	316 SS – 316 SS	206087	206079
Drive Gear-Shaft, CO-Coated	15	6 (Pos. 8 = 1)	316 SS – 316 SS/CO	206090	206082
Drive Gear-Shaft, TC-Coated	15	6 (Pos. 8 = 2)	316 SS – 316 SS/TC	206088	206080
Drive Gear-Shaft, Uncoated	15	P (Pos. 8 = 0)	PEEK – 316 SS	206103	206100
Drive Gear-Shaft, CO-Coated	15	P (Pos. 8 = 1)	PEEK – 316 SS/CO	X	206102
Drive Gear-Shaft, TC-Coated	15	P (Pos. 8 = 2)	PEEK – 316 SS/TC	206095	206101
Position 5 – Idler Gear (Idler Gear-Shaft Assembly)					
Idler Gear-Shaft, Uncoated	1	1 (Pos. 8 = 0)	Alloy-C – 316 SS	206067	206051
Idler Gear-Shaft, CO-Coated	1	1 (Pos. 8 = 1)	Alloy-C – 316 SS/CO	206070	206054
Idler Gear-Shaft, TC-Coated	1	1 (Pos. 8 = 2)	Alloy-C – 316 SS/TC	206068	206052
Idler Gear-Shaft, Uncoated	1	6 (Pos. 8 = 0)	316 SS – 316 SS	206063	206047
Idler Gear-Shaft, CO-Coated	1	6 (Pos. 8 = 1)	316 SS – 316 SS/CO	206066	206050
Idler Gear-Shaft, TC-Coated	1	6 (Pos. 8 = 2)	316 SS – 316 SS/TC	206064	206048
Idler Gear-Shaft, Uncoated	1	P (Pos. 8 = 0)	PEEK – 316 SS	206071	206055
Idler Gear-Shaft, CO-Coated	1	P (Pos. 8 = 1)	PEEK – 316 SS/CO	206074	206058
Idler Gear-Shaft, TC-Coated	1	P (Pos. 8 = 2)	PEEK – 316 SS/TC	206072	206056
Position 6 – Bearing-Wear Plate Combination					
Bearing-Wear Plate	3	E	Carbon 60	204022 (4)	204020 (4)
Bearing-Wear Plate	3	P	PEEK	204023 (4)	204021 (4)
Position 7 – Outer Magnet Bore / Motor Frame (Mounting Bracket & Hardware)					
Bracket – 1/2" (NEMA 48C)	14	0	304 SS	442200	442200
Bolt, Motor (1/4-20 x 1/2 SHCS)	16	0	18-8 SS	S314008 (4)	S314008 (4)
Lock-washer, Motor (1/4)	23	0	18-8 SS	863701 (4)	863701 (4)
Bracket – 14 mm (IEC 71 - B14 Face)	14	1	304 SS	442201	442201
Bolt, Motor (M6 x 16 mm SHCS)	16	1	18-8 SS	S1015 (4)	S1015 (4)
Lock-washer, Motor (1/4)	23	1	18-8 SS	863701 (4)	863701 (4)
Bracket – 5/8" (NEMA 56C) ¹	14	2	304 SS	442202	442202
Bolt, Motor (3/8-16 x 1 HHCS)	16	2	18-8 SS	620825 (4)	620825 (4)
Lock-washer, Motor (3/8)	23	2	18-8 SS	S1004 (4)	S1004 (4)
Bracket – 5/8" (NEMA 48C) ²	14	2	304 SS	442200	442200
Adapter Plate (NEMA 48C to 56C) ²	–	2	CS/Epoxy	442203	442203
Bolt, Adapter (1/4-20 x 1/2 SHCS) ²	–	2	18-8 SS	S314008 (4)	S314008 (4)
Lock-washer, Adapter (1/4) ²	–	2	18-8 SS	863701 (4)	863701 (4)

1 - New Bracket for NEMA 56C motors (no Adapter Plate required).

2 - Obsolete parts for NEMA 56C motors.

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Part Description	Drwg. Item #	316 Stainless Steel Construction			
		Code	Material	2R	2F
Position 8 – Shafts					
Shafts, Uncoated	-	0	316 SS	See Positions 4 & 5	
Shafts, CO-Coated	-	1	316 SS/CO	See Positions 4 & 5	
Shafts, TC-Coated	-	2	316 SS/TC	See Positions 4 & 5	
Position 9 – O-Rings					
O-ring, Housing (2-028)	5	0	Teflon	207015 (2)	207015 (2)
O-ring, Containment Can (2-033)	13	0	Teflon	341102	341102
O-ring, Housing (2-028)	5	V	Viton	207016 (2)	207016 (2)
O-ring, Containment Can (2-033)	13	V	Viton	341108	341108
O-ring, Housing (2-028)	5	K	Kalrez	207020 (2)	207020 (2)
O-ring, Containment Can (2-033)	13	K	Kalrez	341109	341109
Position 10 – Magnetic Coupling					
Inner Magnet, MCT – 5/16" Square Bore	10	T	316 SS/SmCo	Obsolete – Use Code "X"	
Outer Magnet, MCT – 1/2" Bore	9	T (Pos. 7 = 0)	CS/SmCo	Obsolete – Use Code "X"	
Outer Magnet, MCT – 14 mm Bore	9	T (Pos. 7 = 1)	CS/SmCo	Obsolete – Use Code "X"	
Outer Magnet, MCT – 5/8" Bore	9	T (Pos. 7 = 2)	CS/SmCo	Obsolete – Use Code "X"	
Inner Magnet, MCX – 5/16" Square Bore	10	X	316 SS/SmCo	208014	208014
Outer Magnet, MCX – 1/2" Bore	9	X (Pos. 7 = 0)	CS/SmCo	SOMCX-4	SOMCX-4
Outer Magnet, MCX – 14 mm Bore	9	X (Pos. 7 = 1)	CS/SmCo	SOMCX-71	SOMCX-71
Outer Magnet, MCX – 5/8" Bore	9	X (Pos. 7 = 2)	CS/SmCo	SOMCX-5	SOMCX-5
Suffix – Trim Option					
Temperature Trim (Gears & Bearings)	-	-8(T) ³	-	Consult Factory	
Viscosity Trim (Gears)	-	-9D, -9T	-		

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

Meaning of Abbreviated Terms:

Term	Meaning	Notes
BSPT	British Standard Pipe Threads	Type of threaded port
CC	Close-Coupled	Method of pump-motor coupling
CO	Chrome Oxide	Shaft coating material
CS	Carbon Steel	Outer magnet and adapter structural material
Drwg.	Drawing (Item #)	See exploded view reference drawing
HHCS	Hex Head Cap Screw	Type of bolt
NPT	National Pipe Threads	Type of threaded port
PEEK	Poly-Ether-Ether-Ketone (plastic)	Bearing Grade PEEK; material option for gears and bearing-wear plates
Pos.	Position (#)	Position number of model code
SHCS	Socket Head Cap Screw	Type of bolt
SmCo	Samarium Cobalt	Inner and outer magnet material
SS	Stainless Steel	e.g., 316 SS, 18-8 SS
TC	Tungsten Carbide	Shaft coating material
X	Not Available	Used in lieu of Part Number
#	Number	e.g., Item #, Position #, Part #, etc.

Exploded View Reference Drawing:

Models 2R & 2F – MAG-DRIVE, Close-Coupled

