

<b>Endura® Centrifugal Pumps</b>	<b>Consolidated Bill of Materials – Group I, MC</b>
----------------------------------	---

				Position 3 - Pump Size			
				1.5x1x6	3x1.5x6	1.5x1x8	
				A	B	C	
Code	Part Description	Ref Item #	Material	Part #			Qty
<b>Position 1 - Pump Type</b>							
<b>MC</b>	<b>Magnetically Coupled</b>						
	Eyebolt	8	CS/Epoxy	2620-050			1
	Nut, Eyebolt	9	18-8SS	2621-060			1
	Mounting Bracket, Standard Group 1	10	Cl/Epoxy	2589-190			1
	Bolt, Bracket/Casing (3/8-16 x 2 SHCS)	61	18-8SS	2773-060	2773-060	X	8
	Bolt, Bracket/Casing Adapter (3/8-24 x 1-3/4 SHCS)	60	18-8SS	X	X	2848-060	8
	Bolt, Casing Adapter/Casing (1/2-13 x 1-1/2 SHCS)	90	18-8SS	X	X	2847-060	8
	Lock-Washer, Casing Adapter/Casing (1/2)	-	18-8SS	X	X	2970-060	8
	Bolt, Bracket/Bearing Housing (3/8-16 x 1-1/4 SHCS)	56	18-8SS	2709-060			2
	Bolt, Bracket/Motor Adapter (3/8-16 x 1-1/4 SHCS)	56	18-8SS	2709-060			4
	Bolt, Hub/Outer Magnet (8-32 x 1/2 SHCS)	55	Carbon Steel	2771-050			8
	Bearing, Thrust	22	Silicon Carbide	2502-110			2
	Bearing, Radial (Stationary)	23	Silicon Carbide	2501-110			2
	Bearing, Sleeve (Rotating)	30	Silicon Carbide	2500-110			2
	Tolerance Ring, Shaft	32	Alloy-C	2532-020			2
	Name Plate	-	304SS	2723-013			1
<b>Position 2 - Temperature</b>							
<b>N</b>	<b>Normal Temperature (-20 to +350°F)</b>						
<b>Position 3 - Pump Size (See Columns)</b>							
—	See Columns A, B, C						

Consolidated Bill of Materials – Group I, MC (Continued)							
Code	Part Description	Ref Item #	Material	1.5x1x6	3x1.5x6	1.5x1x8	Qty
<b>Position 4 - Wet End, Material of Construction</b>							
<b>S</b>	<b>316 Stainless Steel</b>						
	Impeller, Closed	2	316SS	2774-010	2776-010	2775-010	1
	Nut, Impeller, MC	3	316SS	2619-010			1
	Bearing Housing, Standard	5	316SS	2503-010			1
	Shaft	17	316SS	2504-010			1
	Key, Impeller	18	316SS	2612-010			1
	Key, Inner Magnet	19	316SS	2611-010			1
	Drain Plug, 1/2 NPT (1/4 NPT for 3x1.5x6)	20	316SS	2730-010	2793-010	2730-010	1
	Pin, Sleeve/Radial Bearing	25	316SS	2772-010			4
	Pin, Thrust Bearing	31	316SS	2615-010			2
	Spacer (Bearings)	34	316SS	2520-010			1
	Set Screw, Spacer/Shaft (1/4-28 x 1/4 SHSS-HD)	58	316SS	2720-010			1
	Adapter, Casing	46	316SS	X	X	2810-010	1
<b>Position 5 - Casing Flanges</b>							
<b>2</b>	<b>Casing, 150# RF ANSI</b>	1	316SS	3368-010	3370-010	3369-010	1
<b>3</b>	<b>Casing, 300# RF ANSI</b>	1	316SS	3404-010	3405-010	3406-010	1
<b>-</b>	<b>Casing, 300# RF ANSI CL Mount</b>	1	316SS	3095-010	3078-010	3416-010	1
<b>Position 6 - O-Rings</b>							
<b>T</b>	<b>Teflon</b>						
	O-ring, Casing (2-166)	70	Teflon	2661-210			1
	O-ring, Containment Can (2-049)	71	Teflon	2660-210			1
	O-ring, Casing Adapter (2-175)	89	Teflon	X	X	2662-210	1
	O-ring, Bearing Retaining (2-034)	33	Teflon	2675-210			2
<b>K</b>	<b>Kalrez 4079</b>						
	O-ring, Casing (2-166)	70	Kalrez 4079	2661-240			1
	O-ring, Containment Can (2-049)	71	Kalrez 4079	2660-240			1
	O-ring, Casing Adapter (2-175)	89	Kalrez 4079	X	X	2662-240	1
	O-ring, Bearing Retaining (2-034)	33	Kalrez 4079	2675-240			2

Consolidated Bill of Materials – Group I, MC (Continued)							
Code	Part Description	Ref Item #	Material	1.5x1x6	3x1.5x6	1.5x1x8	Qty
<b>Position 7 - Containment Can, Material of Construction</b>							
<b>S</b>	<b>316 Stainless Steel</b>						
	Containment Can	6	316SS		2512-010		1
	Bolt, Metal Can (5/16-24 x 3/4 SHCS)	49	18-8SS		2713-060		8
<b>H</b>	<b>Hastelloy C</b>						
	Containment Can	6	Alloy-C		2512-020		1
	Bolt, Metal Can (5/16-24 x 5/8 FH-SHCS)	49	18-8SS		S641109 (See Note below)		8
<b>Z</b>	<b>Zirconia (TTZ)</b>						
	Containment Can	6c	Zirconia (TTZ)		2951-140		1
	Flange, Ceramic Containment Can	6b	303SS		2779-015		1
	O-ring, Flange Bumper, Ceramic Can (2-159)	6a	Teflon		2669-210		1
	Bolt, Ceramic Can (5/16-24 x 1 SHCS)	49	18-8SS		2714-060		8
<b>Position 8 - Magnetic Coupling</b>							
<b>A</b>	<b>NdFeB 1.0" - Metal Can Only</b>						
	Outer Magnet, Less Hub, Metal Can, 1.0"	7	CS/NdFeB		2740-410		1
	Inner Magnet, 1.0"	16	316SS/NdFeB		2627-370		1
<b>B</b>	<b>NdFeB 1.5" - Metal Can Only</b>						
	Outer Magnet, Less Hub, Metal Can, 1.5"	7	CS/NdFeB		2734-410		1
	Inner Magnet, 1.5"	16	316SS/NdFeB		2625-370		1
<b>C</b>	<b>NdFeB 2.0" - Metal Can Only</b>						
	Outer Magnet, Less Hub, Metal Can, 2.0"	7	CS/NdFeB		3138-410		1
	Inner Magnet, 2.0"	16	316SS/NdFeB		2939-370		1
<b>E</b>	<b>SmCo 1.0" - Metal Can Only</b>						
	Outer Magnet, Less Hub, Metal Can, 1.0"	7	CS/SmCo		2740-420		1
	Inner Magnet, 1.0"	16	316SS/SmCo		2627-380		1
<b>F</b>	<b>SmCo 1.5" - Metal Can Only</b>						
	Outer Magnet, Less Hub, Metal Can, 1.5"	7	CS/SmCo		2734-420		1
	Inner Magnet, 1.5"	16	316SS/SmCo		2625-380		1

Note: If **Hastelloy C** Containment Can (2512-020) is ordered as a separate part, the 8 bolts (S641109) will be included.

Consolidated Bill of Materials – Group I, MC (Continued)							
Code	Part Description	Ref Item #	Material	1.5x1x6	3x1.5x6	1.5x1x8	Qty
<b>Position 8 Continued - Magnetic Coupling</b>							
<b>G</b>	<b>SmCo 2.0" - Metal Can Only</b>						
	Outer Magnet, Less Hub, Metal Can, 2.0"	7	CS/SmCo		3138-420		1
	Inner Magnet, 2.0"	16	316SS/SmCo		2939-380		1
<b>L</b>	<b>NdFeB 1.5" - Ceramic Can Only</b>						
	Outer Magnet, Less Hub, Ceramic Can, 1.5"	7	CS/NdFeB		2752-410		1
	Inner Magnet, 1.5"	16	316SS/NdFeB		2625-370		1
<b>M</b>	<b>NdFeB 2.0" - Ceramic Can Only</b>						
	Outer Magnet, Less Hub, Ceramic Can, 2.0"	7	CS/NdFeB		2913-410		1
	Inner Magnet, 2.0"	16	316SS/NdFeB		2939-370		1
<b>Q</b>	<b>SmCo 1.5" - Ceramic Can Only</b>						
	Outer Magnet, Less Hub, Ceramic Can, 1.5"	7	CS/SmCo		2752-420		1
	Inner Magnet, 1.5"	16	316SS/SmCo		2625-380		1
<b>R</b>	<b>SmCo 2.0" - Ceramic Can Only</b>						
	Outer Magnet, Less Hub, Ceramic Can, 2.0"	7	CS/SmCo		2913-420		1
	Inner Magnet, 2.0"	16	316SS/SmCo		2939-380		1
<b>Position 9 - Mounting</b>							
<b>0</b>	<b>Close Coupled</b> (Select Motor Code in Position 10)						
<b>1</b>	<b>Power Frame</b> (Leave Position 10 blank)						
	Power Frame Assembly - Group I	99	Cl/Epoxy/Misc		2629-190		1
	Hub, Outer Magnet - <b>1-1/8"</b> Bore (Power Frame)	15	Carbon Steel		2524-050		1
	Set Screw, Hub/Shaft (5/16-24 x 3/8 SHSS-CP)	57	18-8SS		2719-060		2
	Bolt, Power Frame/Bracket (3/8-16 x 1-1/4 SHCS)	56	18-8SS		2709-060		4

Consolidated Bill of Materials – Group I, MC (Continued)							
Code	Part Description	Ref Item #	Material	1.5x1x6	3x1.5x6	1.5x1x8	Qty
<b>Position 10 - Motor Frame Size (If Close-Coupled Mounted)</b>							
<b>A</b>	<b>NEMA 56C Motor</b>						
	Hub, Outer Magnet - <b>5/8"</b> Bore	15	Carbon Steel		2607-050		1
	Set Screw, Hub/Motor Shaft (1/4-28 x 1/4 SHSS-CP)	57	316SS		2718-010		2
	Adapter, 56C-286TC, Group I	92	Al, Anodized		2555-070		1
	Bolt, Motor/Adapter (3/8-16 x 1-1/2 SHCS)	96	18-8SS		2818-060		4
<b>B</b>	<b>NEMA 143/145TC Motor</b>						
	Hub, Outer Magnet - <b>7/8"</b> Bore	15	Carbon Steel		2554-050		1
	Set Screw, Hub/Motor Shaft (1/4-28 x 1/4 SHSS-CP)	57	316SS		2718-010		2
	Adapter, 56C-286TC, Group I	92	Al, Anodized		2555-070		1
	Bolt, Motor/Adapter (3/8-16 x 1-1/2 SHCS)	96	18-8SS		2818-060		4
<b>C</b>	<b>NEMA 182/184TC Motor</b>						
	Hub, Outer Magnet - <b>1-1/8"</b> Bore	15	Carbon Steel		2553-050		1
	Set Screw, Hub/Motor Shaft (5/16-24 x 3/8 SHSS-CP)	57	18-8SS		2719-060		2
	Adapter, 56C-286TC, Group I	92	Al, Anodized		2555-070		1
	Bolt, Motor/Adapter (1/2-13 x 1 SHCS)	96	Carbon Steel		2708-050		4
<b>D</b>	<b>NEMA 213/215TC Motor</b>						
	Hub, Outer Magnet - <b>1-3/8"</b> Bore	15	Carbon Steel		2514-050		1
	Set Screw, Hub/Motor Shaft (5/16-24 x 3/8 SHSS-CP)	57	18-8SS		2719-060		2
	Adapter, 56C-286TC, Group I	92	Al, Anodized		2555-070		1
	Bolt, Motor/Adapter (1/2-13 x 1 SHCS)	96	Carbon Steel		2708-050		4
<b>E</b>	<b>NEMA 254/256TC Motor</b>						
	Hub, Outer Magnet - <b>1-5/8"</b> Bore	15	Carbon Steel		2891-050		1
	Set Screw, Hub/Motor Shaft (5/16-24 x 3/8 SHSS-CP)	57	18-8SS		2719-060		2
	Adapter, 56C-286TC, Group I	92	Al, Anodized		2555-070		1
	Adapter, 254/256TC, Group I	91	Al, Anodized		2890-070		1
	Bolt, Motor/Adapters (1/2-13 x 1-3/4 SHCS)	96	18-8SS		2935-060		4
<b>F</b>	<b>NEMA 284/286TC Motor</b>						
	Hub, Outer Magnet - <b>1-7/8"</b> Bore	15	Carbon Steel		2515-050		1
	Set Screw, Hub/Motor Shaft (5/16-24 x 3/8 SHSS-CP)	57	18-8SS		2719-060		2
	Adapter, 56C-286TC, Group I	92	Al, Anodized		2555-070		1
	Adapter, 284/286TC, Group I	91	CS/Epoxy		2896-050		1
	Bolt, Adapter/Adapter (1/2-13 x 1-1/4 SHCS)	96	18-8SS		3153-060		4
	Bolt, Motor/Adapter (1/2-13 x 1-3/4 SHCS)	97	18-8SS		2935-060		4

Consolidated Bill of Materials – Group I, MC (Continued)							
Code	Part Description	Ref Item #	Material	1.5x1x6	3x1.5x6	1.5x1x8	Qty
<b>Position 10 Continued - Motor Frame Size (If Close-Coupled Mounted)</b>							
<b>J</b>	<b>NEMA 284/286TSC Motor</b>						
	Hub, Outer Magnet - <b>1-5/8"</b> Bore	15	Carbon Steel		2891-050		1
	Set Screw, Hub/Motor Shaft (5/16-24 x 3/8 SHSS-CP)	57	18-8SS		2719-060		2
	Adapter, 284/286TSC, Group I	92	CS/Epoxy		2897-050		1
	Bolt, Motor/Adapter (1/2-13 x 1 SHCS)	96	Carbon Steel		2708-050		4
<b>Q</b>	<b>IEC 71 Motor</b>						
	Hub, Outer Magnet - <b>14 mm</b> Bore	15	Carbon Steel		CF		1
	Set Screw, Hub/Motor Shaft (1/4-28 x 1/4 SHSS-CP)	57	316SS		2718-010		2
	Adapter, IEC 71, B5, Group I	92	CS/Epoxy		CF		1
	Bolt, Adapter to Motor	96	18-8SS		CF		4
	Nut, Adapter to Motor	102	18-8SS		CF		4
	Lock-Washer, Adapter to Motor	103	18-8SS		CF		4
<b>R</b>	<b>IEC 80 Motor</b>						
	Hub, Outer Magnet - <b>19 mm</b> Bore	15	Carbon Steel		CF		1
	Set Screw, Hub/Motor Shaft (1/4-28 x 1/4 SHSS-CP)	57	316SS		2718-010		2
	Adapter, IEC 80, B5, Group I	92	CS/Epoxy		CF		1
	Bolt, Adapter to Motor	96	18-8SS		CF		4
	Nut, Adapter to Motor	102	18-8SS		CF		4
	Lock-Washer, Adapter to Motor	103	18-8SS		CF		4
<b>S</b>	<b>IEC 90 Motor</b>						
	Hub, Outer Magnet - <b>24 mm</b> Bore	15	Carbon Steel		3296-050		1
	Set Screw, Hub/Motor Shaft (1/4-28 x 1/4 SHSS-CP)	57	316SS		2718-010		2
	Adapter, IEC 90, B5, Group I	92	CS/Epoxy		2590-050		1
	Bolt, Adapter to Motor (7/16-14 x 1 SHCS)	96	18-8SS		2535-060		4
<b>T</b>	<b>IEC 100/112 Motor</b>						
	Hub, Outer Magnet - <b>28 mm</b> Bore	15	Carbon Steel		2552-050		1
	Set Screw, Hub/Motor Shaft (1/4-28 x 1/4 SHSS-CP)	57	316SS		2718-010		2
	Adapter, IEC 100/112, B5, Group I	92	Al, Anodized		2591-070		1
	Bolt, Adapter to Motor (1/2-13 x 1-1/4 SHCS)	96	18-8SS		3153-060		4

Consolidated Bill of Materials – Group I, MC (Continued)							
Code	Part Description	Ref Item #	Material	1.5x1x6	3x1.5x6	1.5x1x8	Qty
<b>Position 10 Continued - Motor Frame Size (If Close-Coupled Mounted)</b>							
<b>U</b>	<b>IEC 132 Motor</b>						
	Hub, Outer Magnet - <b>38 mm</b> Bore	15	Carbon Steel		3589-050		1
	Set Screw, Hub/Motor Shaft (5/16-24 x 3/8 SHSS-CP)	57	18-8SS		2719-060		2
	Adapter, IEC 132, B5, Group I	92	Al, Anodized		3588-070		1
	Bolt, Adapter to Motor (1/2-13 x 1-1/2 SHCS)	96	18-8SS		2847-060		4
	Nut, Adapter to Motor (1/2-13 Hex)	102	18-8SS		2621-060		4
	Lock-Washer, Adapter to Motor (1/2)	103	18-8SS		2970-060		4
<b>V</b>	<b>IEC 160 Motor</b>						
	Hub, Outer Magnet - <b>42 mm</b> Bore	15	Carbon Steel		3149-050		1
	Set Screw, Hub/Motor Shaft (5/16-24 x 3/8 SHSS-CP)	57	18-8SS		2719-060		2
	Adapter, IEC 160, B5, Group I	91	Al, Anodized		2893-070		1
	Adapter, 56C-286TC, Group I	92	Al, Anodized		2555-070		1
	Bolt, Adapter/Adapter (1/2-13 x 1 SHCS)	96	Carbon Steel		2708-050		4
	Bolt, Adapter to Motor (3/4-10 x 2-3/4 SHCS)	101	18-8SS		5298-060		4
	Nut, Adapter to Motor (3/4-10 Hex)	102	18-8SS		5299-060		4
	Lock-Washer, Adapter to Motor (3/4)	103	18-8SS		5297-060		4
<b>W</b>	<b>IEC 180 Motor</b>						
	Hub, Outer Magnet - <b>48 mm</b> Bore	15	Carbon Steel		3151-050		1
	Set Screw, Hub/Motor Shaft (5/16-24 x 3/8 SHSS-CP)	57	18-8SS		2719-060		2
	Adapter, IEC 180, B5, Group I	92	CS/Epoxy		CF		1
	Bolt, Adapter to Motor	96	18-8SS		CF		4
	Nut, Adapter to Motor	102	18-8SS		CF		4
	Lock-Washer, Adapter to Motor	103	18-8SS		CF		4
<b>Add-Ons</b>							
-	Guard, Coupling, Group I (Motor/Power Frame)	-	304SS		2731-013		1
-	Base Plate #138E (38" x 15" x 3.4" Channel)	-	CS/Epoxy		3519-050		1
-	Base Plate #148 (48" x 15" x 3.4" Channel)	-	CS/Epoxy		3520-050		1
-	Motor Riser	-	CS/Epoxy		CF		2
-	Pump Riser	-	CS/Epoxy		CF		1
-	Power Frame Riser	-	CS/Epoxy		CF		1
-	PMP-25 Motor Load Control	-	Misc		3622-000		1