CRN10-H

Parts List & Kits

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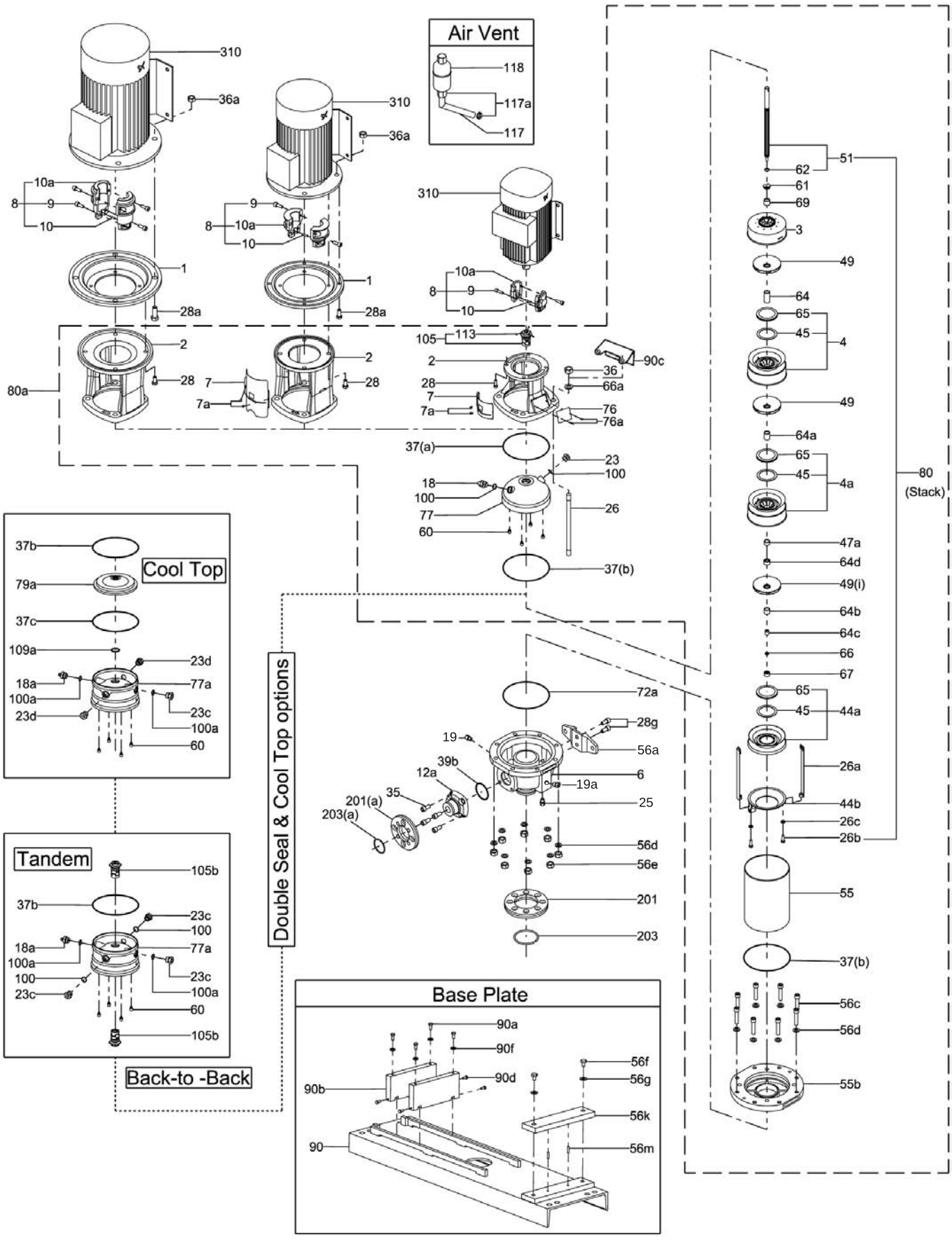
Exploded View **CRN10-H**



TM047922

PARTS LIST

Pos. No.	Part Description	Model	Stages	No. Used	Comments/Dimensions	B.O.M. Ref. No.	Material No.	Included in kits ?
1	Adapter for Motor Stool		7-12	1	For NEMA, 213/215TC, 7.5 - 10HP	96476208		No
			14-18/17	1	For NEMA, F254TC, 15-20HP	96486329		No
2	Motor Stool - Cat. Cast Iron, without insert Pos. 77		2/1-2	1	NEMA, 56C, .75 - 2.0HP	96486290		No
			3-6	1	NEMA, 182TC, 3 - 5Hp (High)	96486314		No
			7-12	1	Add Pos.1 NEMA 213/215TC, 7.5-10HP (High)	96486314		No
			14-18/17	1	Add Pos. 1 for NEMA 254/256TC, 15-20HP	96486314		No
				1	NEMA, 284/286TSC, 25HP	96486296		No
	Motor Stool - Stainless - without Pos. 77	GI	2/1-2	1	NEMA, 56C, .75 - 2.0HP	96505862		No
			3-6	1	NEMA, 182TC, High, 3 - 5Hp (option)	96505860		No
			7-12	1	Add Pos.1 NEMA 213/215TC, 7.5-10HP (High opt.)	96505860		No
			14-18/17	1	Add Pos. 1 for NEMA 254/256TC, 15-20HP	96505860		No
				1	NEMA, 284/286TSC, 25HP	96505864		No
3	Chamber N, Top, Complete with guide vane		2-17	*1	Slotted to accept Strap, pos. 26a	96487784		No
3a	Chamber N, Top, without guide vane		2/1&18/17	*1	Slotted to accept Strap, pos. 26a	96491220		No
3b	Chamber N without guide vane		3-22	*1		420065		No
4	Chamber N complete with Pos. 45 & 65		2/1-22	^^^	PTFE Pos. 45	96487847		No
4a	Chamber N Cpl. w/Pos. 45 & 65 & Bearing		2/1-22	^^^^	Silicon Carbide Brg, PTFE Pos. 45	96747281		YES
	Chamber N Cpl. w/Pos. 45 & 65 & Brg. (option)		2/1-22	^^^^	Graflon Bearing, PTFE Pos. 45	96492496		YES
	Chamber N Cpl. w/Pos. 45 & 65 & Brg. (option)		2/1-22	^^^^	Bronze Bearing, PTFE Pos. 45	96492498		YES
4b	Chamber N Cpl. w/Pos. 45 & 65, (Low NPSH opt.)		3-22	1	PTFE Pos. 45	96505300		No
6	Volute, suction / discharge base		2/1-22	1	GA, 1.5" suction (OD=76mm), 4 hole dis. adapter	95922058		No
			2/1-22	1	G05/G22, 2" suction (OD=90mm) 4 hole dis. adapter	95922057		No
	Volute, option larger suction & discharge		2/1-22	1	GB&C/G10/G50/G60, 3" suc. (OD=120), 6 hole dis. adap.	95922062		No
7	Coupling Guard		2/1-2	2	NEMA-56C	96491002		YES
			3-18/17	2	NEMA, 182-215TC (High),254TC-286TSC	96490656		YES
7a	Screw for Coupling Guard		2/1-22	4	Screw comb. slot torx/straight slot 4 x 8mm	96488481		YES
9	Allen Screw		2/1-2	4	M6 x 20mm, Delta Tone/Seal	00ID7899		YES
			3-18/17	4	M10 x 25mm, Delta Tone/Seal	00ID7901		YES
10	Shaft Pin		2/1-22	1	ø5 x 26mm	310192	95061337	YES
10a	Coupling Half (machined set)		2/1-2	1	NEMA, 56C, 1/3 - 2HP. ø15.9/ ø16mm	96516777		YES
			3-6	1	NEMA, 182/184TC, 3-5HP. ø28.6/ø16mm (High)	96516009		YES
			7-12	1	NEMA, 213TC, 7.5-10HP. ø34.9/ø16mm (High)	96516770		YES
			14-18/17	1	NEMA, 254TC, 15-20HP. ø41.2/ø16mm (High)	96516771		YES
				1	NEMA, 284/286TSC, 25HP. ø41.2/ø16mm	96516771		YES
12a	Discharge Adapter		2/1-22	1	GA, 4 hole flange, OD= 55mm, ID=26mm (1.0"), L= 60mm	95922070		No
			2/1-22	1	G05, 4 hole flange, OD= 55mm, ID=26mm (1.0"), L= 111mm	95922072		No
			2/1-22	1	G22, 4 hole flange, OD= 90mm, ID=50mm (2"), L= 85mm	95922097		No
	Discharge Adp. option larger suc./dis. & press		2/1-22	1	GB, 6 hole flange, OD= 76mm, ID=49mm (1.5"), L=55mm	95922084		No
			2/1-22	1	GC, 6 hole flange, OD= 90mm, ID=49mm (2"), L= 55mm	95922085		No
			2/1-22	1	G50, 6 hole flange, OD= 76mm, ID=41mm (1.5"), L= 106mm	95922087		No
			2/1-22	1	G10, 6 hole flange, OD= 90mm, ID=50mm (2"), L= 110mm	95922089		No
			2/1-22	1	G60, 6 hole flange, OD= 90mm, ID=50mm (2"), L= 132mm	95922091		No
			2/1-22	1	G20, 6 hole flange, OD= 76mm, ID=40mm (1.5"), L= 156mm	95922093		No
			2/1-22	1	G30, 6 hole flange, OD= 90mm, ID=50mm (2"), L= 182mm	95922095		No
			2/1-22	1	G33, 6 hole flg.OD=120mm, ID=80mm (3"), L= 120mm	95922099		No
18(a)	Priming/Vent Plug		2/1-22	*	G 1/2A, NV24 with NV9 x M8 stem	405150	95061351	YES
19	(Suction) Pressure tap plug		2/1-22	1	1/4" NPT,SS SQHD	00ID7216		No
19a	(Discharge) Pressure tap plug		2/1-22	1	1/4" NPT,SS SQHD	00ID7216		No
23, 23c	Plug		2/1-22	*	G 1/2A, NV24, solid	370025	95061733	No
23d	Plug, Vented for Pos. 77a Cool Top® option only		2/1-18/17	2	G 1/2A, NV24, Vented	96510323		No
25	Drain plug		2/1-22	1	1/4" NPT,SS SQHD	00ID7216		No
26	Staybolt		2/1-2	4	M16 x 121mm	97683351		No
			3	4	M16 x 151mm	97683353		No
			4	4	M16 x 181mm	97683354		No
			5	4	M16 x 214mm	97683356		No
			6	4	M16 x 241mm	97683359		No
			7	4	M16 x 271mm	97683360		No
			8	4	M16 x 299mm	97683361		No
			9	4	M16 x 331mm	97683363		No
			10	4	M16 x 361mm	97683364		No
			12	4	M16 x 422mm	290233		No
			14	4	M16 x 478mm	370200		No
			16	4	M16 x 540mm	97683374		No
			18/17	4	M16 x 597mm	380245		No
			20	4	M16 x 661mm, 4 pole & 50 Hz.	97683380		No
			22	4	M16 x 720mm, 4 pole & 50 Hz.	97683381		No
	Staybolt- Back-to-Back, Tandem Seal & Cool Top option		2/1-2	4	M16 x 214mm	97683356		No
			3	4	M16 x 241mm	97683359		No
			4	4	M16 x 271mm	97683360		No
			5	4	M16 x 299mm	97683361		No
			6	4	M16 x 331mm	97683363		No
			7	4	M16 x 361mm	97683364		No
			8	4	M16 x 390mm	350189		No
			9	4	M16 x 417mm	380243		No
			10	4	M16 x 450mm	97683368		No

Due to part changes over time, all position numbers (1-203) may not be used.

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Pos. No.	Part Description	Model	Stages	No. Used	Comments/Dimensions	B.O.M. Ref. No.	Material No.	Included in kits ?
26	Staybolt- Back-to-Back, Tandem Seal & Cool Top option (continued)		12	4	M16 x 514mm	97683372		No
			14	4	M16 x 570mm	97683376		No
			16	4	M16 x 632mm	290236		No
			18/17	4	M16 x 689mm	380246		No
			20	4	M16 x 750mm, 4 pole & 50 Hz.	97683383		No
			22	4	M16 x 808mm, 4 pole & 50 Hz.	370204		No
26a	Strap		2/1-2	2	L*= 78.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487758		No
			3	2	L*= 108.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487760		No
			4	2	L*= 138.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487761		No
			5	2	L*= 168.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487762		No
			6	2	L*= 198.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487764		No
			7	2	L*= 228.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487765		No
			8	2	L*= 258.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487766		No
			9	2	L*= 288.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487768		No
			10	2	L*= 318.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487769		No
			12	2	L*= 378.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487771		No
			14	2	L*= 438.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487773		No
			16	2	L*= 498.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487775		No
			18/17	2	L*= 558.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487777		No
			20: 4 pole	2	L*= 618.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487778		No
			22: 4 pole	2	L*= 678.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487781		No
26b	Bolt for Pos. 26a		2/1-22	2	M8 x 25mm, 316 SS w/Delta Tone/Seal	96416603		No
26c	Washer for Pos. 26b		2/1-22	2	A4, ø16.0/ø8.4x1.6mm	00ID3284		No
28	Motor Bolt		2/1-2	4	NEMA, 56C, 1/3 - 2HP, UNC 3/8" x 25mm	00ID1839		No
			3-6	4	NEMA, 182/184TC, 3 - 5HP, UNC1/2" x 25mm	00ID1840		No
			7-12	4	NEMA, 213TC, 7.5 -10HP, JR 1/2" x 1.25" UNC	00ID0185		No
			14-18/17	4	NEMA, 254TC, 15HP, 1/2" x 2.5" UNC	96491112		No
28g	Bolt for Foot 56a & Volute pos. 6 (GA, GB, GC)		2/1-22	2	M12 x 20mm, low hex head, 8.8 - S.S., Delta Tone/Seal	97679673		No
	Bolt - Foot 56a & Volute Pos. 6 (G05, G10, G22, G50, G60)		2/1-22	2	M12 x 20mm, 8.8 - S.S., Delta Tone/Seal	97672732		No
35	Bolt for Discharge Adapter Pos. 12a (GB, GC)		2/1-18/17	6	M12 x 20mm low hex head, 8.8 - S.S., Delta Tone/Seal	97679673		No
	Bolt for Discharge Adapter Pos. 12a (GA, G05)		2/1-18/17	4	M12 x 20mm Hex head, 8.8 - S.S., Delta Tone/Seal	97672732		No
36	Staybolt Nut		2/1-18/17	4	24mm x M16, 316	96550566		No
37(b)	Sleeve O-ring		2/1-22	◆◆	EPDM, ø170.7 x 3.3mm	96483101		YES
			2/1-22	◆◆	FKM, ø170.7 x 3.3mm	96483102		YES
	Sleeve O-ring (option)		2/1-22	2	FXM, ø171.25 x 3.3mm	96483109		YES
	Sleeve O-ring (option)		2/1-22	2	FFKM, ø170.7 x 3.3mm	96483140		YES
37c	Disc plate O-ring (Cool Top option only)		2/1-22	1	EPDM, ø155.0 x 3.0mm	96509703		YES
			2/1-22	1	FKM, ø155.0 x 3.0mm	96480168		YES
39b	O-ring for Discharge Adapter flange Pos. 12a		2/1-17	1	EPDM, Parker 2-238 ø88.5 x 3.5mm	95922035		YES
			2/1-17	1	FKM, Parker 2-238 ø88.5 x 3.5mm	95922036		YES
			2/1-17	1	FXM, Parker 2-238 ø88.5 x 3.5mm	95952037		YES
			2/1-17	1	FFKM, Parker 2-238 ø88.5 x 3.5mm	95131207		YES
44a	Inlet upper N with Pos. 45 & 65		2/1-22	1		96489071		No
44c	Inlet upper N with Pos. 45 & 65 (Low NPSH option)		2/1-22	1		96489039		No
44b	Inlet lower, machined		2/1-22	1		96488000		No
44d	Spacer ring for low NPSH Pos. 44c		2/1-22	1		96505491	97573624	No
45	Neck Ring		2/1-22	# imp.-	ø59.5 x ø44.08 x 1.2mm, PTFE-Acoflon 100	96487401		YES
	Neck Ring (low NPSH option)		2/1-22	1	ø75.8 x ø59.95 x 1.2mm, PTFE-Acoflon 100	96487400		YES
47a	Bearing Ring/Spacer		2/1-22	^^^^	SiC 150, ø23.4 x ø17.6 x ø15.0 x 14mm	96763100		YES
	Brg. Ring/Spacer (option for Graflon / Brz. 4a)		2/1-22	^^^^	TC, ø21.9 x ø17.6 x ø15.0 x 14mm	330085	95061371	YES
49	Impeller N		2/1-22	# stgs-	ø92.9 x ø44.0 x 13.6mm (back-plate 1.0mm)	96487818		No
49i	Impeller N (Low NPSH option)		3-22	1	ø104.8 x ø59.85 x 25.4mm (back-plate 1.5mm)	96476527		No
51	Shaft, Complete		2/1-2	1	ø16 x 179.0mm, 329 SS	96491469		No
			3	1	ø16 x 209.0mm, 329 SS	96491611		No
			4	1	ø16 x 239.0mm, 329 SS	96491613		No
			5	1	ø16 x 269.0mm, 329 SS	96491617		No
			6	1	ø16 x 299.0mm, 329 SS	96491619		No
			7	1	ø16 x 329.0mm, 329 SS	96491621		No
			8	1	ø16 x 359.0mm, 329 SS	96491625		No
			9	1	ø16 x 389.0mm, 329 SS	96491627		No
			10	1	ø16 x 419.0mm, 329 SS	96491629		No
			12	1	ø16 x 479.0mm, 329 SS	96491633		No
			14	1	ø16 x 539.0mm, 329 SS	96491637		No
			16	1	ø16 x 599.0mm, 329 SS	96491641		No
			18/17	1	ø16 x 659.0mm, 329 SS	96491643		No
			20	1	ø16 x 719.0mm, 329 SS, 4 pole & 50 Hz.	96491645		No
			22	1	ø16 x 779.0mm, 329 SS, 4 pole & 50 Hz.	96491649		No
	Shaft, Cpl. (Back-to-Back, Tandem Seal & Cool Top option)		2/1-2	1	ø16 x 269.0mm, 329 SS	96507534		No
			3	1	ø16 x 299.0mm, 329 SS	96507538		No
			4	1	ø16 x 329.0mm, 329 SS	96507539		No
			5	1	ø16 x 359.0mm, 329 SS	96507571		No
			6	1	ø16 x 389.0mm, 329 SS	96507572		No
			7	1	ø16 x 419.0mm, 329 SS	96507573		No
			8	1	ø16 x 449.0mm, 329 SS	96507575		No
			9	1	ø16 x 479.0mm, 329 SS	96507576		No
			10	1	ø16 x 509.0mm, 329 SS	96507577		No

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51	Shaft, Cpl. (Back-to-Back, Tandem Seal & Cool Top option) (continued)		12	1	ø16 x 569.0mm, 329 SS	96507579		No
			14	1	ø16 x 629.0mm, 329 SS	96507581		No
			16	1	ø16 x 689.0mm, 329 SS	96507583		No
			18/17	1	ø16 x 749.0mm, 329 SS	96507584		No
			20	1	ø16 x 809.0mm, 329 SS, 4 pole & 50 Hz.	96507585		No
			22	1	ø16 x 869.0mm, 329 SS, 4 pole & 50 Hz.	96507587		No
55	Outer Sleeve		2/1-2	1	ø171.1/ ø170.7 x 74.0mm x 2.0mm, 316 SS	96489818		No
			3	1	ø171.1/ ø170.7 x 104.0mm x 2.0mm, 316 SS	96489819		No
			4	1	ø171.1/ ø170.7 x 134.0mm x 2.0mm, 316 SS	96489820		No
			5	1	ø171.1/ ø170.7 x 164.0mm x 2.0mm, 316 SS	96489822		No
			6	1	ø171.1/ ø170.7 x 194.0mm x 2.0mm, 316 SS	96489823		No
			7	1	ø171.1/ ø170.7 x 224.0mm x 2.0mm, 316 SS	96489855		No
			8	1	ø171.1/ ø170.7 x 254.0mm x 2.0mm, 316 SS	96489825		No
			9	1	ø171.1/ ø170.7 x 284.0mm x 2.0mm, 316 SS	96489826		No
			10	1	ø171.1/ ø170.7 x 314.0mm x 2.0mm, 316 SS	96489827		No
			12	1	ø171.1/ ø170.7 x 374.0mm x 2.0mm, 316 SS	96489829		No
			14	1	ø171.1/ ø170.7 x 434.0mm x 2.0mm, 316 SS	96489830		No
			16	1	ø171.1/ ø170.7 x 494.0mm x 2.0mm, 316 SS	96489832		No
			18/17	1	ø171.1/ ø170.7 x 554.0mm x 2.0mm, 316 SS	96489833		No
			20: 4 pole	1	ø171.1/ ø170.7 x 614.0mm x 2.0mm, 316 SS, 50Hz.	96489834		No
			22: 4 pole	1	ø171.1/ ø170.7 x 674.0mm x 2.0mm, 316 SS, 50Hz.	96489859		No
55b	Sleeve flange		2/1-22	1	CR-H, CRN-H10, 15, 20, 316 SS.	95131164		No
56a	Foot (Cast Iron) for Pos. 6 (GA, GB, GC)		2/1-22	1	H= 21mm, W= 198mm, ø16mm hole CL 142mm, CI.	95922023		No
	Foot (Cast Iron) for Pos. 6 (G05, G10, G22, G50, G60)		2/1-22	1	H= 98mm, W= 300mm, ø16mm hole CL 248mm, CI.	95922024		No
	Foot (Cast Iron) for Pos. 6 (C1, G20, G30)	254TC	2/1-22	1	H= 142mm, W= 300mm, ø16mm hole CL 248mm, CI.	96834143		No
	Foot (Stainless) for Pos. 6 (GA, GB, GC)		2/1-22	1	H= 21mm, W= 198mm, ø16mm hole CL 142mm, SS	95922074		No
	Foot (Stainless) for Pos. 6 (G05, G10, G22, G50, G60)		2/1-22	1	H= 98mm, W= 300mm, ø16mm hole CL 248mm, SS	95922076		No
	Foot (Stainless) for Pos. 6 (C1, G20, G30)	254TC	2/1-22	1	H= 142mm, W= 300mm, ø16mm hole CL 248mm, SS	97655729		No
56b(d)	Washer for bolt Pos. 56c		2/1-22	16	M12, 304 SS	00ID3103		No
56c	Bolt for sleeve flange Pos. 55b		2/1-22	8	M12x1.75 x60mm, 12.9 Alloy Steel, Delta Tone/Seal	97672735		No
56e	Nut for bolt Pos. 56c		2/1-22	8	M12, NV19, 8.8 Steel, Delta Tone/Seal	00ID7917		No
56f	Bolt for Pos. 90 (BP139 w/GA, BP245 G05/22)	56/182T	2/1-6	2	Hex Hd.1/2 -13 UNC x 1" SAE 5, Z.P.			YES
	Bolt for Pos. 90 (BP258 G05/22)	254TC	14-18/17	2	Hex Hd.1/2 -13 UNC x 1" SAE 5, Z.P.			YES
	Bolt for Pos. 90 (BP148 with GA & BP252 G05/22)	213TC	7-12	2	Hex Head 1/2 -13 UNC x 1.25" SAE 5, Zinc plated			YES
	Bolt for Pos. 90 (BP148with GA, pos. 56k & m)	254TC	14-18/17	2	Hex Head 1/2 -13 UNC x 2.25" SAE 5, Zinc plated			YES
56g	Washer for bolt pos.56f		2/1-22	2	1/2" SAE, Zinc plated			YES
56k	Spacer for base Pos. 90	GA	14-18/17	1	148BP 254T, L=200mm x H=25.4mm x W=78.2mm			YES
56m	Alignment pin	GA	14-18/17	2	Slotted Spring Pin, ø3/16" x 1" ASME, Zinc plated			YES
60	Stack Compression Spring		2/1-22	4	ø11.0 x ø7.0 x 15.5mm, EPDM	96503070		YES
			2/1-22	4	ø11.0 x ø7.0 x 15.5mm, FKM	96503072		YES
60a	Stack Compression Spring (option)		2/1-22	4	ø11.0 x ø7.0 x 15.5mm, PTFE	96503071		YES
61	Stop spacer		2/1-22	1	ø29.0 x ø18.4 x ø17.6 x ø15.0 x 9.5 x 2mm	96783511		YES
64	Spacing Pipe		2/1-22	^^^	ø21.5 x ø17.5 x 29.05mm	331404	95061499	No
64a	Spacing Pipe		2/1&18/17	^^^^	ø21.5 x ø17.5 x 9.0mm	96495333		YES
64b	Spacing Pipe (Low NPSH option only)		2/1&18/17	2	ø21.5 x ø17.5 x 10.05mm	331402	95061472	No
64c	Clamp, Splined		2/1-22	1	ø21.5 x ø17.6 x ø15.0 x 12.7mm	96496311		YES
64d	Spacing Pipe		2/1-22	^^^^	ø21.5 x ø17.5 x 6.0mm	331412		No
64e	Spacing Pipe (Low NPSH option only)		2/1-22	1	ø21.5 x ø17.5 x 38.0mm	331406	95061629	No
64g	Spacing Pipe (de-staging 2 impellers option only)		3-22	1 per de-stg	ø21.5 x ø17.5 x 30.0mm (use with 3b only)	331410		No
65	Neck Ring Retainer N		2/1-22	# stgs-	ø61.9 x ø47.2 x 4.7mm	96487285		YES
	Neck Ring Retainer N (Low NPSH option)		2/1-22	1	ø78.8 x ø61.5 x 6.7mm	330059	96547341	No
66	Lock Washer Set for Shaft		2/1-22	1	ø13.5 x ø8.2 x 2.6mm	96417297		YES
66a	Washer for Staybolt		2/1-22	4	DIN 125A, ø30 x ø17 x 2.5mm, 316 SS	00ID3104		No
67	Lock Nut for Shaft		2/1-22	1	13mm x M8	96496488		YES
69	Spacing Pipe		2/1-22	⊖	ø21.5 x ø17.5 x 18.0mm	96491536		No
69a	Spacing Pipe (de-staging 1 impeller option only)		2/1&18/17	1	ø21.5 x ø17.5 x 19.0mm (use with 3a only)	331409	95062143	No
72a	O-ring for Sleeve Flange Pos. 55b		2/1-22	1	EPDM, ø215.5mm	95922038		YES
			2/1-22	1	FKM, ø215.5mm	95922039		YES
			2/1-22	1	FFKM, ø215.5mm	95131208		YES
			2/1-22	1	FXM, ø215.5mm	95922040		YES
76	Nameplate		2/1-22	1	304SS, 60 x 45mm	96563333		No
76a	Rivet for Nameplate		2/1-22	2	304SS, ø3 x 5mm	96022882		No
77	Pump Head Cover for motor stool Pos.2		2/1-22	1	Cast Stainless	96490647		No
77a	Pump Head Cover for Tandem Seal & Cool Top		2/1-22	1	Cast Stainless	96505487		No
	Pump Head Cover for Back-to-Back		2/1-22	1	Cast Stainless	96505488		No
79a	Disc / Plate complete w/79b & c for Cool Top		2/1-22	1	Cast Stainless	96511281		No
79b	Bushing for Disc / Plate 79a		2/1-22	1	Graflon	96505571		No
79c	Retaining Ring for79b		2/1-22	1	Stainless	96510985		No
90	Main Support Baseplate	GA	2/1-5	1	BP. Cpl.139, L=991mm x W=305mm x H=106.5mm	96956336		YES
		GA	7-12	1	BP. Cpl.148, L=1219mm x W=381mm x H=107.9mm	96956346		YES
		G05/22	2/1-6	1	BP. Cpl.245, L=1143mm x W=305mm x H=106.5mm	96956341		YES
		G05/22	7-12	1	BP. Cpl.252, L=1320.8mm x W=381mm x H=107.9mm	96956356		YES
		G05	16	1	BP. Cpl.258, L=1473.2mm x W=457.2mm x H=119.1mm	96956360		YES
		G22	14-18/17	1	BP. Cpl.258, L=1473.2mm x W=457.2mm x H=119.1mm	96956360		YES

Due to part changes over time, all position numbers (1-203) may not be used.

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Parts List & Kits **CRN10-H**

PARTS LIST

Pos. No.	Part Description	Model	Stages	No. Used	Comments/Dimensions	B.O.M. Ref. No.	Material No.	Included in kits ?
90	Main Support Baseplate - Longer versions	GA	6	1	XLBP1(139/245), L=1500mm x W=381mm x H=106.5mm	96956376		YES
		GA,G05	14-18/17	1	XLBP2(148/252), L=1777.8mm x W=381mm x H=107.9mm	96956377		YES
		G22	14-18/17	1	XLBP3(258/264), L=2406.4mm x W=457.2mm x H=120mm	96956379		YES
90a	Bolt for motor to slider Pos. 90b	56C	2/1-2	4	Hex Head 5/16 -18 UNC x .75" SAE 5, Zinc plated for GA			YES
		56/182	2/1-6	4	Hex Head 5/16 -18 UNC x .75" SAE 5, Zinc plated for G05/22			YES
		182TC	3-6	4	Hex Head 3/8 -16 UNC x .5" SAE 5, Zinc plated for GA			YES
		213TC	7-12	4	Hex Head 3/8 -16 UNC x 5/8" SAE 5, Zinc plated for GA			YES
		213TC	7-12	4	Hex Head 3/8 -16 UNC x 1" SAE 5, Zinc plated for G05/22			YES
		254TC	14-18/17	4	Hex Head 1/2 -13 UNC x 1.5" SAE 5, Zinc plated for GA			YES
		254TC	14-18/17	4	Hex Head 1/2 -13 UNC x 1.25" SAE 5, Z.P. for G05/22			YES
90b	Motor support / slider	56C	2/1-2	2	GA,GB,GC, BP139, L=204mm x H=45.5mm x W=25.4mm	96956339		YES
		182TC	3-6	2	GA,GB,GC, BP139, L=230mm x H=23mm x W=25.4mm	96956338		YES
		213TC	7-12	2	GA,GB,GC, BP148, L=252mm x H=20mm x W=25.4mm	96956347		YES
		254TC	14-18/17	2	GA,GB,GC, BP148, L=299mm x H=20.3mm x W=25.4mm	96956348		YES
		56C	2/1-2	2	G05, G22, BP245, L=204mm x H=125.5mm x W=25.4mm	96956343		YES
		182TC	3-6	2	G05, G22, BP245, L=230mm x H=100mm x W=25.4mm	96956342		YES
		213TC	7-12	2	G05, G22, BP252, L=252mm x H=96.5mm x W=25.4mm	96956357		YES
		254C	14-18/17	2	G05, G22, BP252, L=354mm x H=67mm x W=25.4mm	96956361		YES
90c	Support Bracket for Pump Cartridge		2/1-22	1	304 SS, H=59mm CL of hole, GA/GB/GC	95131178		No
			2/1-22	1	304 SS, H=136mm CL of hole, G05/G10/G22/G50/G60	95131180		No
			2/1-22	1	304 SS, H=180mm CL of hole, G20/G30	96834148		No
90d	Bolt for motor slider Pos. 90b to base Pos. 90	56C	2/1-2	4	Hex Head 1/4 -20 UNC x 1" SAE 5, Zinc plated			YES
		182/213	3-12	4	Hex Head 1/4 -20 UNC x 1.75" SAE 5, Zinc plated for GA			YES
		213-254	7-18/17	4	Hex Head 1/4 -20 UNC x 1.75" SAE 5, Z.P. for G05/22			YES
		254TC	14-18/17	4	Hex Head 1/4 -20 UNC x 2.5" SAE 5, Zinc plated for GA			YES
		182TC	3-6	4	Hex Head 1/4 -20 UNC x 2.5" SAE 5, Z.P. for G05/22			YES
90f	Washer for motor bolt Pos. 90a to slider Pos. 90b	56C	2/1-2	4	5/16"" SAE, Zinc plated			YES
		182/213	3-6	4	3/8" SAE, Zinc plated			YES
		254TC	14-18/17	4	1/2" SAE, Zinc plated			YES
100(a)	Priming/Vent Plug O-ring		2/1-22	■	EPDM, ø16.3 x 2.4mm	00ID1288		YES
			2/1-22	■	FKM, ø16.3 x 2.4mm	00ID2231		YES
	Priming/Vent Plug O-ring (option)		2/1-22	■	FFKM, ø16.3 x 2.4mm	96428162	96587720	YES
	Priming/Vent Plug O-ring (option)		2/1-22	■	FXM, ø16.3 x 2.4mm	96442869	96587721	YES
105(b)	Shaft Seal HQBE		2/1-22	***	SiC, Carbon with resin-impregnated, EPDM	96484076		YES
	Shaft Seal HQBV		2/1-22	***	SiC, Carbon with resin-impregnated, FKM	96484077		YES
	Shaft Seal HQQE		2/1-22	***	SiC, SiC, EPDM	96484071		YES
	Shaft Seal HQQV		2/1-22	***	SiC, SiC, FKM	96484072		YES
	Shaft Seal HQQF (option)		2/1-22	***	SiC, SiC, FXM	96484075		YES
	Shaft Seal HQQK (option)		2/1-22	***	SiC, SiC, FFKM	96484074		YES
	Shaft Seal HUBE		2/1-22	***	TC, Carbon with resin-impregnated, EPDM	96483952		YES
	Shaft Seal HUBV		2/1-22	***	TC, Carbon with resin-impregnated, FKM	96483964		YES
	Shaft Seal HUBF (option)		2/1-22	***	TC, Carbon with resin-impregnated, FXM	96483966		YES
	Shaft Seal HUBK (option)		2/1-22	***	TC, Carbon with resin-impregnated, FFKM	96483965		YES
	Shaft Seal HUUE		2/1-22	***	TC, TC, EPDM	96483967		YES
	Shaft Seal HUUV		2/1-22	***	TC, TC, FKM	96483968		YES
	Shaft Seal HUUF (option)		2/1-22	***	TC, TC, FXM	96484070		YES
	Shaft Seal HUUK (option)		2/1-22	***	TC, TC, FFKM	96483969		YES
109a	O-ring for Disk Plate 79a (Cool Top option only)		2/1-22	1	ø27.2 x 2.75mm, EPDM	96483103		YES
			2/1-22	1	ø27.2 x 2.75mm, FKM	96483104		YES
			2/1-22	1	ø27.2 x 2.75mm, FXM	96483141		YES
117	Pipe for Air Vent 118		2/1-22	1	G1/2, 316SS	96525189		YES
117a	Counter Nut for Pipe 117		2/1-22	2	NV24, internal G1/2, 316SS	96506709		YES
118	Air Vent		2/1-22	1	Air vent type 1511-AV - 5/6430	96427483		YES
201	Flange, Suction, Cast Iron - 80-55-06(GGG50)		2/1-10	1	1.5" 150#, 4 x 1/2"-13 UNC threaded flge, Cast Iron, e-coat	96922828		No
			2/1-10	1	2" 150#, 4 x 5/8"-11 UNC threaded flange, Cast Iron, e-coat	96922829		No
			2/1-10	1	3" 150#, 8 x non thread flange, Cast Iron, electrocoated	350085		No
			12-22	1	1.5" 300#, 4 x 3/4"-10 UNC threaded flge, Cast Iron, e-coat	96956145		No
			12-22	1	2" 300#, 8 x 5/8"-11 UNC threaded flange, Cast Iron, e-coat	96956146		No
			12-22	1	3" 300#, 8 x 3/4"-10 UNC threaded flge, Cast Iron, e-coat	96956147		No
	Flange, Suction, Stainless Steel - CF8M (1.4408)	GI	2/1-10	1	1.5" 150#, 4 x 1/2"-13 UNC threaded flange, SS	97644306		No
		GI	2/1-10	1	2" 150#, 4 x 5/8"-11 UNC threaded flange, SS	97644309		No
		GI	2/1-10	1	3" 150#, 8 x non thread flange, SS	350022		No
		GI	12-22	1	1.5" 300#, 4 x 3/4"-10 UNC threaded flange, SS	97644307		No
		GI	12-22	1	2" 300#, 8 x 5/8"-11 UNC threaded flange, SS	97644310		No
		GI	12-22	1	3" 300#, 8 x 3/4"-10 UNC threaded flange, SS	97644313		No
201a	Flange, Discharge, Cast Iron - 80-55-06(GGG50)		2/1-10	1	1" 150#, 4 x 1/2"-13 UNC threaded flange, Cast Iron, e-coat	96922827		No
			2/1-10	1	1.5" 150#, 4 x 1/2"-13 UNC threaded flge, Cast Iron, e-coat	96922828		No
			2/1-10	1	2" 150#, 4 x 5/8"-11 UNC threaded flange, Cast Iron, e-coat	96922829		No
			12-22	1	1" 300#, 4 x 5/8"-11 UNC threaded flange, Cast Iron, e-coat	96956144		No
			12-22	1	1.5" 300#, 4 x 3/4"-10 UNC threaded flge, Cast Iron, e-coat	96956145		No
			12-22	1	2" 300#, 8 x 5/8"-11 UNC threaded flange, Cast Iron, e-coat	96956146		No
			12-22	1	3" 300#, 8 x 3/4"-10 UNC threaded flange, Cast Iron, e-coat	96956147		No

Due to part changes over time, all position numbers (1-203) may not be used.

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PARTS LIST

Pos. No.	Part Description	Model	Stages	No. Used	Comments/Dimensions	B.O.M. Ref. No.	Material No.	Included in kits ?
201a	Flange, Discharge, Stainless Steel-CF8M (1.4408)	GI	2/1-10	1	1" 150#, 4 x 1/2"-13 UNC threaded flange, SS	97644302		No
		GI	2/1-10	1	1.5" 150#, 4 x 1/2"-13 UNC threaded flange, SS	97644306		No
		GI	2/1-10	1	2" 150#, 4 x 5/8"-11 UNC threaded flange, SS	97644309		No
		GI	12-22	1	1" 300#, 4 x 5/8"-11 UNC threaded flange, SS	97644304		No
		GI	12-22	1	1.5" 300#, 4 x 3/4"-10 UNC threaded flange, SS	97644307		No
		GI	12-22	1	2" 300#, 8 x 5/8"-11 UNC threaded flange, SS	97644310		No
		GI	12-22	1	3" 300#, 8 x 3/4"-10 UNC threaded flange, SS	97644313		No
203	Retaining ring for 201, 1.5" flange		2/1-22	1	ø72.6mm x 5mm	96475395	96547671	No
	Retaining ring for 201, 2.0" flange		2/1-22	1	ø86.6mm x 5mm	96475396		No
	Retaining ring for 201, 3.0" flange		2/1-22	1	ø121mm x 6mm	350009		No
203a	Retaining ring for 201a, 1.0" flange		2/1-22	1	ø53.6mm x 3.2mm	96439718		No
	Retaining ring for 201a, 1.5" flange		2/1-22	1	ø72.6mm x 5mm	96475395	96547671	No
	Retaining ring for 201a, 2.0" flange		2/1-22	1	ø86.6mm x 5mm	96475396		No
	Retaining ring for 201a, 3.0" flange		2/1-22	1	ø121mm x 6mm	350009		No

Due to part changes over time, all position numbers (1-203) may not be used.

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NOTES:
The first number is the total number of impellers. There are a few exceptions to this format:

Example: A CRN 10-1 is actually a CRN 10-2/1. It has 2 chambers, 1 impeller (de-staged by 1), and uses a 2 stage shaft.

Example: A CRN10-17 is actually a CRN10-18/17. It has 18 chambers, 17 impellers (de-staged by 1), and uses an 18 stage shaft.

Exception to the above: Low NPSH models:

Low NPSH CRN10 have one less impeller and chamber than what is listed on the nameplate.

Example: An LNPSH CRN10-3 is actually a CRN10-3/2. It has 3 chambers, 2 impellers, and uses a 4 stage shaft.

Example: An LNPSH CRN10-22 is actually a CRN10-21. It has 21 chambers, 21 impellers, and uses a 22 stage shaft.

YES* If the YES is followed by an asterisk, the part in kit is made of upgraded material (example 304 SS changed to 316 SS for Pos. 4a).

* 1 2 to 16 and 18 to 22 stage use Pos. 3
2 /1 and 18/17 stage use Pos. 3a
De-staging by two impellers use one 3a and one 3b

^^^ 2/1 and 2 stage use 0
3 to 8 stage = # of stages less 2
9 to 14 stage = # of stages less 3
16 to 22 stage = # of stages less 4

Exception to the above: Low NPSH models
4/2 and 4/3 stage use 0
5/4 to 8/7 stage = # of stages less 4
9/8 to 16/15 stage = # of stages less 5
18/16 to 22/21 stage = # of stages less 6
De-staging by two impellers use 1 less than stated above.

^^^^ 2/1 to 8 stage = use 1
9 to 14 stage = use 2
16 to 22 stage = use 3

Exception to the above: Low NPSH models
16/15 stage = use 2
18 stage and up = use 3

* Standard use 1. Back-to-Back or Tandem pump version use 5, Cool Top® use 3

* Standard use 1. Back-to-Back or Tandem pump version use 2

** Standard use 1. Back-to-Back or Tandem pump version use 2

*** Standard use 1. Back-to-Back or Tandem pump version use 2

NOTES *(continued)*:

⊖ Standard use 1. CR(I,N)10-2/1 and 10-18/17 replace with Pos. 69a

stgs Use the number of stages in standard models, less one in de-staged and Low NPSH models.

imp. Use the number of stages in standard models, less one in de-staged and Low NPSH models.

◆◆ Standard use 2. Back-to-Back or Tandem pump version use 3, Cool Top use 1 EPDM or FKM and 2 FXM in lower hot section of pump.

■ Standard use 2. Back-to-Back or Tandem pump version use 6

L* Is a tip-to-tip length which includes the bends for slot engagement. Bottom tip to bend is 4.5mm shorter than the tip-to-tip value.

Key to Symbols

KITS ..... Recommended spare part
Ø ..... Diameter
ANSI ..... American National Standards Institute
CPL ..... Complete Assembly – these parts consist of more than one component
EPDM ..... Ethylene Propylene (also known as EPR and EPT) – an elastic substance similar to rubber
FFKM ..... Kalrez Elastomer made by DuPont
FKM ..... Fluoro Elastomer (generic for Viton)
FXM ..... Fluoraz Elastomer made by Greene Tweed
IEC ..... International Electro-technical Commission (European standards)
M ..... International standard thread size designation (thread diameter in mm)
mm ..... Millimeter
MG ..... Identifies Grundfos motor type/size
N ..... Stamp code for 316 SS or similar
NBR ..... Buna - N (also known as Nitrile) – an elastic substance similar to rubber
NEMA ..... National Electrical Manufacturers Association
NPSH ..... Net Positive Suction Head
PTFE ..... Teflon
SiC ..... Silicon Carbide
SS ..... Stainless Steel
TC ..... Tungsten Carbide
UNC ..... Unified National Coarse – a standard for threads on bolts

SPARE PART KITS

Since certain pump parts can be expected to exhibit wear at the same time as related pump parts, they have been grouped into the following kits for your convenience. The numbers indicate the quantity of the part within each kit. Please order these kits using the kit material number at the top of the columns.

CR(I, N)10 SiC Bearing

WEAR PARTS KIT 1-8		**Kit No.**	**96511889**		
WEAR PARTS KIT 9-14		**Kit No.**		**96511922**	
WEAR PARTS KIT 15-22		**Kit No.**			**96511925**
Pos. No.	**Description**	**Material No.**	**Qty. Included in each Kit**		
4a	Chamber N Cpl. w/Pos.45 & 65 & SiC Bearing	96747281	1	2	3
26b	Bolt for strap, M8 x 25mm, 316 SS w/Delta Seal	96416603	2	2	2
26c	Washer for strap, A4, ø16.0/ø8.4x1.6mm	00ID3284	2	2	2
45	Neck Ring, ø59.5 x ø44.08 x 1.2mm, PTFE-Acoflon 100	96487401	7	12	19
47a	Bearing Ring/Spacer, SiC 150, ø23.4 x 14mm	96763100	1	2	3
61	Stop Spacer,ø29.0 x ø18.4 x ø17.6 x ø15.0 x 9.5 x 2mm	330072	1	1	1
62	Stop Ring, ø16.6 x ø15.0 x 1.6mm	330057	1	1	1
64a	Spacing Pipe, ø21.5 x ø17.5 x 9.0mm	96495333	1	2	3
64c	Clamp, Splined, ø21.5 x ø17.6 x ø15.0 x 12.7mm	96496311	1	1	1
64d	Spacing Pipe, ø21.5 x ø17.5 x 6.0mm	331412	1	2	3
65	Neck Ring Retainer, N, ø61.9 x ø47.2 x 4.7mm	96487285	7	12	19
66	Lock Washer Set of 2, ø13.5 x ø8.2 x 2.6mm	96417297	1	1	1
67	Lock Nut, 13mm x M8	96496488	1	1	1

CR(I, N)10 Graflon Bearing

WEAR PARTS KIT 1-8		**Kit No.**	**96511921**		
WEAR PARTS KIT 9-14		**Kit No.**		**96511924**	
WEAR PARTS KIT 15-22		**Kit No.**			**96511927**
Pos. No.	**Description**	**Material No.**	**Qty. Included in each Kit**		
4a	Chamber N Cpl. w/Pos.45 & 65 & Graflon Bearing	96492496	1	2	3
26b	Bolt for strap, M8 x 25mm, 316 SS w/Delta Seal	96416603	2	2	2
26c	Washer for strap, A4, ø16.0/ø8.4x1.6mm	00ID3284	2	2	2
45	Neck Ring, ø59.5 x ø44.08 x 1.2mm, PTFE-Acoflon 100	96487401	7	12	19
47a	Bearing Ring/Spacer, TC 150, ø21.9 x 14mm	330085	1	2	3
61	Stop Spacer,ø29.0 x ø18.4 x ø17.6 x ø15.0 x 9.5 x 2mm	330072	1	1	1
62	Stop Ring, ø16.6 x ø15.0 x 1.6mm	330057	1	1	1
64a	Spacing Pipe, ø21.5 x ø17.5 x 9.0mm	96495333	1	2	3
64c	Clamp, Splined, ø21.5 x ø17.6 x ø15.0 x 12.7mm	96496311	1	1	1
64d	Spacing Pipe, ø21.5 x ø17.5 x 6.0mm	331412	1	2	3
65	Neck Ring Retainer, N, ø61.9 x ø47.2 x 4.7mm	96487285	7	12	19
66	Lock Washer Set of 2, ø13.5 x ø8.2 x 2.6mm	96417297	1	1	1
67	Lock Nut, 13mm x M8	96496488	1	1	1

CR(I)10 Bronze Bearing

WEAR PARTS KIT 1-8		**Kit No.**	**96511920**		
WEAR PARTS KIT 9-14		**Kit No.**		**96511923**	
WEAR PARTS KIT 15-22		**Kit No.**			**96511926**
Pos. No.	**Description**	**Material No.**	**Qty. Included in each Kit**		
4a	Chamber N Cpl. w/Pos.45 & 65 & Bronze Bearing	96492498	1	2	3
26b	Bolt for strap, M8 x 25mm, 316 SS w/Delta Seal	96416603	2	2	2
26c	Washer for strap, A4, ø16.0/ø8.4x1.6mm	00ID3284	2	2	2
45	Neck Ring, ø59.5 x ø44.08 x 1.2mm, PTFE-Acoflon 100	96487401	7	12	19
47a	Bearing Ring/Spacer, TC 150, ø21.9 x 14mm	330085	1	2	3
61	Stop Spacer,ø29.0 x ø18.4 x ø17.6 x ø15.0 x 9.5 x 2mm	330072	1	1	1
62	Stop Ring, ø16.6 x ø15.0 x 1.6mm	330057	1	1	1
64a	Spacing Pipe, ø21.5 x ø17.5 x 9.0mm	96495333	1	2	3
64c	Clamp, Splined, ø21.5 x ø17.6 x ø15.0 x 12.7mm	96496311	1	1	1
64d	Spacing Pipe, ø21.5 x ø17.5 x 6.0mm	331412	1	2	3
65	Neck Ring Retainer, N, ø61.9 x ø47.2 x 4.7mm	96487285	7	12	19
66	Lock Washer Set of 2, ø13.5 x ø8.2 x 2.6mm	96417297	1	1	1
67	Lock Nut, 13mm x M8	96496488	1	1	1

HQxx SHAFT SEAL KIT, BALANCED CARTRIDGE		**Kit No.**	**96511848**					
(Maximum allowed working PSI is 435)		**Kit No.**		**96511849**				
(Tandem Seal option Pumps require 2 of each Seal Kit)		**Kit No.**			**96511844**			
		Kit No.				**96511847**		
		Kit No.					**96511846**	
		Kit No.						**96511845**
Pos. No.	**Description**	**Material No.**	**Qty. Included in each Kit**					
105	HQBE	96484076*	1					
	HQBV	96484077*		1				
	HQQE	96484071*			1			
	HQQF	96484075*				1		
	HQQK	96484074*					1	
	HQQV	96484072*						1
N/A	Grinding Device Tool for Emery Cloth	370711	1	1	1	1	1	1
N/A	Emery Cloth	370712	1	1	1	1	1	1

* Seal material number includes the Adjusting fork 96483950.

STACK KITS (SiC) Pos.80	
Model	**Material No.**
CRN10-2/1	96491720
CRN10-2	96491721
CRN10-3	96491722
CRN10-4	96491723
CRN10-5	96491724
CRN10-6	96491725
CRN10-7	96491726
CRN10-8	96491727
CRN10-9	96491728
CRN10-10	96491729
CRN10-12	96491730
CRN10-14	96491731
CRN10-16	96491732
CRN10-18/1	96529405
*** CRN10-18	96491733
*** CRN10-20	96491734
*** CRN10-22	96491735

***For 4 pole & 50 Hz. operation only.

SPARE PART KITS *(Continued)*

HUxx SHAFT SEAL KIT, BALANCED CARTRIDGE	Kit No.	96511836
(Maximum allowed working PSI is 435)	Kit No.	96511839
(Tandem Seal option Pumps require 2 of each Seal Kit)	Kit No.	96511838
	Kit No.	96511837
	Kit No.	96511840
	Kit No.	96511843
	Kit No.	96511842
	Kit No.	96511841

Pos. No.	Description	Material No.	Qty. Included in each Kit							
105	HUBE	96483952*	1							
	HUBF	96483966*		1						
	HUBK	96483965*			1					
	HUBV	96483964*				1				
	HUUE	96483967*					1			
	HUUF	96484070*						1		
	HUUK	96483969*							1	
	HUUV	96483968*								1
N/A	Grinding Device Tool for Emery Cloth	370711	1	1	1	1	1	1	1	1
N/A	Emery Cloth	370712	1	1	1	1	1	1	1	1

* Seal material number includes the Adjusting fork 96483950.

Standard CR Gasket Kits

GASKET KIT (EPDM)	Kit No.	96509609
GASKET KIT (FKM)	Kit No.	96509610
GASKET KIT (FXM)	Kit No.	96534871
GASKET KIT (FFKM)	Kit No.	96533374
GASKET KIT (EPDM)-Double Seal option.	Kit No.	96525433
GASKET KIT (FKM)-Double Seal option.	Kit No.	96525434
GASKET KIT (FFKM/EPDM)-Double Seal option.	Kit No.	96525435
GASKET KIT (FFKM/FKM)-Double Seal option.	Kit No.	96525436
GASKET KIT (FXM/EPDM)-Cool Top option.	Kit No.	96525432

Pos. No.	Description		Qty. Included in each Kit								
37	Sleeve O-ring, EPDM (WRC NSF), ø170.7 x 3.3mm	96483101	2				3		1		1
	Sleeve O-ring, FKM, ø170.7 x 3.3mm	96483102		2				3		1	
37b	Sleeve O-ring, FXM, ø171.25 x 3.3mm	96483109			2						2
	Sleeve O-ring, FFKM, ø170.7 x 3.3mm	96483140				2			2	2	
37c	Disc Plate O-ring, EPDM, ø155.0 x 3.0mm	96509703									1
	Disc Plate O-ring, FKM, ø155.0 x 3.0mm	96480168									
38, 100(a,b)	Drain Plug O-ring, EPDM, Ø16.3 x 2.4mm	00ID1288	3				7		4		1
	Drain Plug O-ring, FKM, Ø16.3 x 2.4mm	00ID2231		3				7		4	
	Drain Plug O-ring, FXM, ø16.3 x 2.4mm	96442869			3						3
	Drain Plug O-ring, FFKM, ø16.3 x 2.4mm	96428162				3			3	3	
38a	Drain Plug O-ring, EPDM, ø5.3 x 2.4mm	00ID2142	1				1				
	Drain Plug O-ring, FKM, ø5.3 x 2.4mm	00ID3945						1			
	Drain Plug O-ring, FXM, ø5.3 x 2.4mm	96511292			1						1
	Drain Plug O-ring, FFKM, ø5.3 x 2.4mm	96511293				1			1	1	
39	Flange O-ring, EPDM, ø90 x 3mm	96496200	2				2				
	Flange O-ring, FKM, ø90 x 3mm	00ID2856		2				2			
	Flange gasket, Fiber, 122mm x ø60 x ø44 x 2mm	420039	2	2	2	2	2	2	2	2	2
	Flange gasket, Fiber, ø102 x ø65 x 2mm	330035	2	2	2	2	2	2	2	2	2
	Flange gasket, Fiber, ø92 x ø49 x 2mm	00ID2582	2	2	2	2	2	2	2	2	2
60(a)	Stack Compression Spring, EPDM, ø11.0xø7.0x15.5mm	96503070	4				4				4
	Stack Compression Spring, FKM, ø11.0xø7.0x15.5mm	96503072		4				4			
	Stack Compression Spring, PTFE, ø11.0xø7.0x15.5mm	96503071			4	4			4	4	4
109a	Disc Plate O-ring, EPDM, ø27.5.0 x 2.75mm	96483103									
	Disc Plate O-ring, FKM, ø27.5 x 2.75mm	96483104									
	Disc Plate O-ring, FXM, ø27.5 x 2.75mm	96483141									1

Add to above standard gaskets to complete desired CRH, CRNH model

Kit, O-ring EPDM CR-H, CRN-H10/15/20/32 GA/G05/G22	Kit No.	96922800
Kit, O-ring FKM CR-H, CRN-H10/15/20/32 GA/G05/G22	Kit No.	96922802
Kit, O-ring FXM CR-H, CRN-H10/15/20/32 GA/G05/G22	Kit No.	96922816
Kit, O-ring FFKM CR-H, CRN-H10/15/20/32 GA/G05/G22	Kit No.	96922822
Kit, O-ring EPDM CR-H, CRN-H10/15/20/32 GB-G60	Kit No.	96956134
Kit, O-ring FKM CR-H, CRN-H10/15/20/32 GB-G60	Kit No.	96956135
Kit, O-ring FXM CR-H, CRN-H10/15/20/32 GB-G60	Kit No.	96923565
Kit, O-ring FFKM CR-H, CRN-H10/15/20/32 GB-G60	Kit No.	96923571

Pos. No.	Description	Included in each Kit							
72a	O-ring, 2-268 EPDM ø215.5 x 3.5mm	95922038	1				1			
	O-ring, 2-268 Viton ø215.5 x 3.5mm	95922039		1				1		
	O-ring, 2-268 Fluoraz ø215.5 x 3.5mm	95922040			1				1	
	O-ring, 2-268 FFKM ø215.5 x 3.5mm	95131208				1				1
39b	O-ring, 2-230 EPDM ø63.1 x 3.5mm	95922032	1							
	O-ring, 2-230 Viton ø63.1 x 3.5mm	95922033		1						
	O-ring, 2-230 Fluoraz ø63.1 x 3.5mm	95922034			1					
	O-ring, 2-230 FFKM ø63.1 x 3.5mm	95131189				1				
	O-ring, Parker 2-238 EPDM ø88.5 x 3.5mm	95922035					1			
	O-ring, 2-238 Viton ø88.5 x 3.5mm	95922036						1		
	O-ring, 2-238 Fluoraz ø88.5 x 3.5mm	95952037							1	
	O-ring, 2-238 FFKM ø88.5 x 3.5mm	95131207								1

NEMA COUPLING KIT	ø15.9/ø16	Kit No.	96511353
	ø28.6/ø16 (Option- High)	Kit No.	96753660
	ø34.9/ø16 (Option- High)	Kit No.	96753661
	ø41.3/ø16	Kit No.	96511356

Pos. No.	Description	Material No.	Qty. Included in each Kit			
9	Allen Screw, M6 x 20mm, Delta Seal	00ID7899	4			
	Allen Screw, M10 x 25mm, Delta Seal	00ID7901		4	4	4
10	Shaft Pin, ø5 x 26mm, Stainless	310192	1	1	1	1
10a	Coupling. Half set, 56C, 1/3 - 2HP. ø15.8 / ø16	96516777	1			
	Cplg. Half set, 182/184TC, 3-5HP, High, ø28.5/ø16	96516009		1		
	Cplg. Half set, 213TC, 7.5-10HP, High, ø34.9/ø16	96516770			1	
	Cplg. Half set, 254TC-284/286TSC,15-25HP. ø41.2/ø16	96516771				1
N/A	Adjusting Fork	96483950	1			1

SPARE PART KITS *(Continued)*

COUPLING GUARD KIT				
NEMA 56C, 1/3-2HP		Kit No.	96509612	
NEMA 182-215TC (High) & 254TC-286TSC, 3 -25HP		Kit No.		96509614
Pos. No.	Description	Material No.	Qty. Included in each Kit	
7	Coupling Guard, W=127mm x H=90.5mm	96491002	2	
	Coupling Guard, W=157mm x H=171mm	96490656		2
7a	Screw comb.slot torx/straight slot 4 x 8mm	96488481	4	4

Air Vent Kit - Horizontal Units			
CR-H, CRN-H1S to 20		Kit No.	91136720
Pos. No.	Description	Material No.	Qty. Included in each Kit
117	Air Vent Pipe, short for 118, G1/2 , 60x43	96525189	1
117a	Counter Nut for Pipe 117, G1/2	96506709	2
118	Air vent type 1511-AV - 5/6430	96427483	1

ACCESSORIES

ANSI COMPANION FLANGES FOR MEDIUM CR-H, CRN-H					
Kit No. 97698645	1.5" x 1" 316SS for GA 150#	1.5"		1"	
Pos. No.	Description	Material No.	Qty.	Material No.	Qty.
N/A	Bolts	97743748	4	97743748	4
N/A	Flanges	96983498	1	96983497	1
N/A	Gasket	97694409	1	97692916	1
Kit No. 97698646	1.5" x 1" 316SS for GA 300#	1.5"		1"	
Pos. No.	Description	Material No.	Qty.	Material No.	Qty.
N/A	Bolts	91143035	8	91143029	4
N/A	Flanges	96983496	1	96983495	1
N/A	Gasket	97694408	1	97694407	1
Kit No. 97698647	2" x 1" 316SS for G05 150#	2"		1"	
Pos. No.	Description	Material No.	Qty.	Material No.	Qty.
N/A	Bolts	91143029	4	97743748	4
N/A	Flanges	96983499	1	96983497	1
N/A	Gasket	97692909	1	97692916	1
Kit No. 97698648	2" x 1" 316SS for G05 300#	2"		1"	
Pos. No.	Description	Material No.	Qty.	Material No.	Qty.
N/A	Bolts	97743741	8	91143029	4
N/A	Flanges	00ID7240	1	96983495	1
N/A	Gasket	00ID2747	1	97694407	1
Kit No. 97698649	3" x 1.5" 316SS for GB, G50 and G20 150#	3"		1.5"	
Pos. No.	Description	Material No.	Qty.	Material No.	Qty.
N/A	Nuts	91143011	4	none	0
N/A	Bolts	91143031	4	97743748	4
N/A	Flanges	91121944	1	96983498	1
N/A	Gasket	560185	1	97694409	1
Kit No. 97698650	3" x 1.5" 316SS for GB, G50 and G20 300#	3"		1.5"	
Pos. No.	Description	Material No.	Qty.	Material No.	Qty.
N/A	Bolts	91143038	8	91143035	4
N/A	Flanges	91121945	1	96983496	1
N/A	Gasket	91122339	1	97694408	1
Kit No. 97698651	3" x 2" 316SS for GC, G10, G60 and G30 150#	3"		2"	
Pos. No.	Description	Material No.	Qty.	Material No.	Qty.
N/A	Nuts	91143011	4	none	0
N/A	Bolts	91143031	4	91143029	4
N/A	Flanges	91121944	1	96983499	1
N/A	Gasket	560185	1	97692909	1
Kit No. 97698652	3" x 2" 316SS for GC, G10, G60 and G30 300#	3"		2"	
Pos. No.	Description	Material No.	Qty.	Material No.	Qty.
N/A	Bolts	91143038	8	97743741	8
N/A	Flanges	91121945	1	00ID7240	1
N/A	Gasket	91122339	1	00ID2747	1
Kit No. 97743809	2" x 2" 316SS for G22 150#	2"		2"	
Pos. No.	Description	Material No.	Qty.	Material No.	Qty.
N/A	Bolts	91143029	4	91143029	4
N/A	Flanges	96983499	1	96983499	1
N/A	Gasket	97692909	1	97692909	1
Kit No. 97743810	2" x 2" 316SS for G22 300#	2"		2"	
Pos. No.	Description	Material No.	Qty.	Material No.	Qty.
N/A	Bolts	97743741	8	97743741	8
N/A	Flanges	00ID7240	1	00ID7240	1
N/A	Gasket	00ID2747	1	00ID2747	1

ACCESSORIES *(Continued)*

Baseplate Kit						
139	56C for GA/B/C	Kit No.	97534517			
	182TC for GA/B/C	Kit No.		97534518		
XLBP1	56C for GA/B/C	Kit No.			97534573	
	182TC for GA/B/C	Kit No.				97534574

Pos. No.	Description	Material No.	Qty. Included in each Kit			
90	Baseplate Cpl. 139, L=991* x W=305* x H=106.4768*	96956336	1	1		
	Baseplate Cpl. XLBP1, L=1500* x W=305* x H=106.4768*	96956376			1	1
N/A	Slider & fastners for 56C(consists of slider & hardware)	96983855	1		1	
N/A	Slider & fastner for 182TC (consists of slider & hardware)	96983858		1		1
N/A	Hardware Kit -96983855/68/78(cont. pos.56f, g, 90a,d& f)**	97501470	1		1	
N/A	Hardware Kit -96983858 (cont. pos.56f & g, 90a, d & f)**	97501481		1		1
56f	Bolt, Hex Head 1/2 -13 UNC x 1" SAE 5, Zinc plated	N/A	2	2	2	2
56g	Washer, 1/2" SAE, Zinc plated	N/A	2	2	2	2
90a	Bolt, Hex Head 5/16 -18 UNC x .75" SAE 5, Zinc plated	N/A	4		4	
	Bolt, Hex Head 3/8 -16 UNC x .5" SAE 5, Zinc plated	N/A		4		4
90b	Slider, GA/B/C 56C/139BP, L=204* x H=45.5* x W=25.4*	96956339	2		2	
	Slider, GA/B/C 182TC/139 BP, L=230* x H=23* x W=25.4*	96956338		2		2
90d	Bolt, Hex Head 1/4 -20 UNC x 1" SAE 5, Zinc plated	N/A	4		4	
	Bolt, Hex Head 1/4 -20 UNC x 1.75" SAE 5, Zinc plated	N/A		4		4
90f	Washer, 5/16" SAE, Zinc plated	N/A	4		4	
	Washer, 3/8" SAE, Zinc plated	N/A		4		4

* Values in mm, Length (L) is +/- 2mm, Height (H) is +/- 1mm, Width (W). ** Hardware kits 97501470 and 81 are also available for sale.

Baseplate Kit						
148	213TC for GA/B/C	Kit No.	97534520			
	254TC for GA/B/C	Kit No.		97534531		
XLBP2	213TC for GA/B/C	Kit No.			97573875	
	254TC for GA/B/C	Kit No.				97534579

Pos. No.	Description	Material No.	Qty. Included in each Kit			
90	Baseplate Cpl. 148, L=1219* x W=381* x H=107.9*	96956346	1	1		
	Baseplate Cpl. XLBP2, L=1777.8* x W=381* x H=107.9*	96956377			1	1
N/A	Slider & fastners for 213TC(consists of slider & hardware)	96983859	1		1	
N/A	Slider & fastner 254TC (cont. of 56k , slider & hardware)	96983862		1		1
N/A	Hardware Kit -96983859(consists of pos.56f, g, 90a,d& f)**	97501482	1		1	
N/A	Hardware Kit -96983862 (cont. pos.56f, g & m, 90a, d & f)**	97501483		1		1
56f	Bolt, Hex Head 1/2 -13 UNC x 1.25" SAE 5, Zinc plated	N/A	2		2	
	Bolt, Hex Head 1/2 -13 UNC x 2.25" SAE 5, Zinc plated	N/A		2		2
56g	Washer, 1/2" SAE, Zinc plated	N/A	2	2	2	2
56k	Volute Spacer, 148 BP 254T, L=200* x H=25.4* x W=78.2	96956349		1		1
56m	Slotted Spring Pin ø3/16" x 1" Zinc Plated	N/A		2		2
90a	Bolt, Hex Head 3/8 -16 UNC x 5/8" SAE 5, Zinc plated	N/A	4		4	
	Bolt, Hex Head 1/2 -13 UNC x 1.5" SAE 5, Zinc plated	N/A		4		4
90b	Slider, GA/B/C 213TC/148BP, L=252* x H=20* x W=25.4*	96956347	2		2	
	Slider, GA/B/C 254TC/148BP, L=299* x H=20.3* x W=38.1*	96956348		2		2
90d	Bolt, Hex Head 1/4 -20 UNC x 1.75" SAE 5, Zinc plated	N/A	4		4	
	Bolt, Hex Head 1/4 -20 UNC x 2.5" SAE 5, Zinc plated	N/A		4		4
90f	Washer, 3/8" SAE, Zinc plated	N/A	4		4	
	Washer, 1/2" SAE, Zinc plated	N/A		4		4

* Values in mm, Length (L) is +/- 2mm, Height (H) is +/- 1mm, Width (W). ** Hardware kits 97501482 and 83 are also available for sale.

Baseplate Kit						
245	56C for G05/10/50/60/70/22/33/44	Kit No.	97534535			
	182TC for G05/10/50/60/70/22/33/44	Kit No.		97534536		
XLBP1	56C for G05/10/50/60/70/22/33/44	Kit No.			97534575	
	182TC for G05/10/50/60/70/22/33/44	Kit No.				97534576

Pos. No.	Description	Material No.	Qty. Included in each Kit			
90	Baseplate Cpl. 245, L=1143* x W=305* x H=106.4768*	96956341	1	1		
	Baseplate Cpl. XLBP1, L=1500* x W=305* x H=106.4768*	96956376			1	1
N/A	Slider & fastners for 56C(consists of slider & hardware)	96983868	1		1	
N/A	Slider & fastner for 182TC (consists of slider & hardware)	96983869		1		1
N/A	Hardware Kit -96983855/68/78(cont. pos.56f, g, 90a,d& f)**	97501470	1		1	
N/A	Hardware Kit -96983869/79 (cont. pos.56f & g, 90a, d & f)**	97501488		1		1
56f	Bolt, Hex Head 1/2 -13 UNC x 1" SAE 5, Zinc plated	N/A	2	2	2	2
56g	Washer, 1/2" SAE, Zinc plated	N/A	2	2	2	2
90a	Bolt, Hex Head 5/16 -18 UNC x .75" SAE 5, Zinc plated	N/A	4	4	4	4
90b	Slider, G05/22 - 56C/245BP, L=204* x H=125.5* x W=25.4*	96956343	2		2	
	Slider, G05/22 - 182T/245 BP, L=230* x H=100* x W=25.4*	96956342		2		2
90d	Bolt, Hex Head 1/4 -20 UNC x 1" SAE 5, Zinc plated	N/A	4		4	
	Bolt, Hex Head 1/4 -20 UNC x 2.5" SAE 5, Zinc plated	N/A		4		4
90f	Washer, 5/16" SAE, Zinc plated	N/A	4	4		4

* Values in mm, Length (L) is +/- 2mm, Height (H) is +/- 1mm, Width (W). ** Hardware kits 97501470 and 88 are also available for sale.

ACCESSORIES *(Continued)*

Baseplate Kit				
252	213TC for G05/10/50/60/70/22/33/44	Kit No.	97534539	
XLBP2	213TC for G05/10/50/60/70/22/33/44	Kit No.		97573873
Pos. No.	**Description**	**Material No.**	**Qty. Included in each Kit**	
90	Baseplate Cpl. 252, L=1321* x W=381* x H=107.9*	96956356	1	
	Baseplate Cpl. XLBP2, L=1777.8* x W=381* x H=107.9*	96956377		1
N/A	Slider & fastners for 213TC(consists of slider & hardware)	96983870	1	1
N/A	Hardware Kit -96983870/80(cont. of pos.56f, g, 90a,d & f)**	97501489	1	1
56f	Bolt, Hex Head 1/2 -13 UNC x 1.25" SAE 5, Zinc plated	N/A	2	2
56g	Washer, 1/2" SAE, Zinc plated	N/A	2	2
90a	Bolt, Hex Head 3/8 -16 UNC x 1" SAE 5, Zinc plated	N/A	4	4
90b	Slider, G05/22, 213TC/252BP,L=252*x H=96.5*x W=25.4*	96956357	2	2
90d	Bolt, Hex Head 1/4 -20 UNC x 1.75" SAE 5, Zinc plated	N/A	4	4
90f	Washer, 3/8" SAE, Zinc plated	N/A	4	4

* Values in mm, Length (L) is +/- 2mm, Height (H) is +/- 1mm, Width (W). ** Hardware kit 97501489 is also available for sale.

Baseplate Kit				
258	254TC for G05/10/50/60/70/22/33/44	Kit No.	97534543	
XLBP3	254TC for G05/10/50/60/70/22/33/44	Kit No.		97573876
Pos. No.	**Description**	**Material No.**	**Qty. Included in each Kit**	
90	Baseplate Cpl. 258, L=1473.2* x W=457.2* x H=119.1*	96956360	1	
	Baseplate Cpl. XLBP3, L=2406.4* x W=457.2* x H=119.1*	96956379		1
N/A	Slider & fastners for 254TC(consists of slider & hardware)	96983871	1	1
N/A	Hardware Kit -96983871(cont. of pos.56f & g, 90a,d & f)**	97501493	1	1
56f	Bolt, Hex Head 1/2 -13 UNC x 1" SAE 5, Zinc plated	N/A	2	2
56g	Washer, 1/2" SAE, Zinc plated	N/A	2	2
90a	Bolt, Hex Head 1/2 -13 UNC x 1.25" SAE 5, Zinc plated	N/A	4	4
90b	Slider, G05/22, 254TC/258BP, L=354* x H=67* x W=25.4*	96956361	2	2
90d	Bolt, Hex Head 1/4 -20 UNC x 1.75" SAE 5, Zinc plated	N/A	4	4
90f	Washer, 1/2" SAE, Zinc plated	N/A	4	4

* Values in mm, Length (L) is +/- 2mm, Height (H) is +/- 1mm, Width (W). ** Hardware kit 97501493 is also available for sale.

SPECIAL TOOLS

Tools not generally available from normal sources.

Mat. No.	Description and Use
00SV0040	**Shaft Holder for Dismantling/Assembly** Used to hold and protect the shaft during dismantling and assembly.
00SV2107	**Tubular Box Spanner for Shaft Seal 41.0 mm** Used to install and remove the shaft seal. Fits a 1/2" drive ratchet.
00SV2101	**Ring Insert Tool for Shaft Seal + Square** 41 mm x 1/2" drive
00SV0239	**Puller for Neck Ring** Used to remove the Neck Ring from Chamber.
00SV2011	**Bit Holder** Used with Bits Kit, 1/4"
00SV2010	**Bits Kit** NV 5 mm for M6, 1/4" NV 6 mm for M8, 1/4" NV 8 mm for M10, 1/4"
00SV2012	**Hexagon Socket Bit** Used for Shaft Seal NV 2.5 mm for M5, 1/4"
00SV2127	**Bearing Removal Punch**

STANDARD TOOLS

In addition to being available from Grundfos, comparable tools can be purchased through normal sources.

Mat. No.	Description and Use
	Wrenches Used to tighten various nuts.
00SV0083	NV 10 mm for M6
00SV0055	NV 13 mm for M8
00SV0054	NV 19 mm for M12
00SV0122	NV 24 mm for M16
	Torque Wrench Used to torque various screws.
00SV0292	4-20 Nm, 9 x 12
00SV0269	20-100 Nm, 9 x 12
00SV0400	40-200 Nm, 14x18
	Torque Screwdriver Used to tighten various nuts.
00SV0438	1-6 Nm, 1/4"
	Ratchet Spanner for all Adapters
00SV0295	9 mm x 12 mm, 1/2"
00SV0401	14 mm x 18 mm, 1/2"
	Socket Spanner with Inside Hex
00SV0296	NV 5 mm for M6, 1/2" x 1/2"
00SV0297	NV 6 mm for M8, 1/2" x 1/2"
00SV0298	NV 8 mm for M10, 1/2" x 1/2"
	Ring Spanner
00SV0310	NV 10 mm, 9 x 12, for M6
00SV0294	NV 13 mm, 9 x 12, for M8
00SV0271	NV 19 mm, 9 x 12, for M12
00SV0524	NV 24 mm, 14 x 18, for M16
	Socket Spanner
00SV2013	NV 13 mm for M8, 1/2" drv.
00SV0267	NV 19 mm for M12, 1/2" drv.

BE > THINK > INNOVATE >

Being responsible is our foundation
Thinking ahead makes it possible
Innovation is the essence

L-CR-SM-051 11/11 US

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Subject to alterations.

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