



CRN10-H

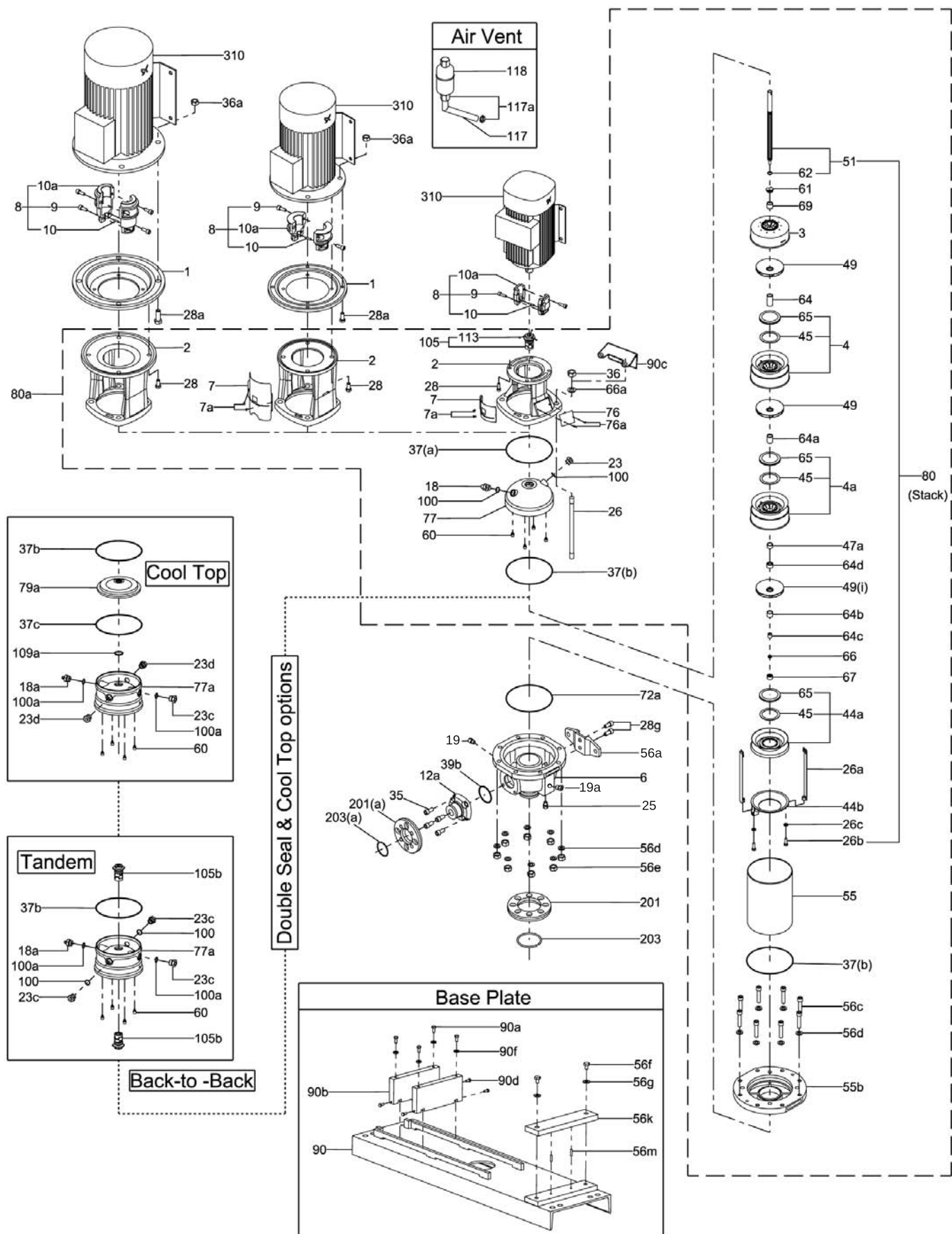
Parts List & Kits

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Exploded View CRN10-H



TM047922

Parts List & Kits CRN10-H

Pos. No.	Part Description	Model	Stages	No. Used	Comments/Dimensions	B.O.M. Ref. No.	Material No.	Included in kits ?
PARTS LIST								
1	Adapter for Motor Stool		7-12	1	For NEMA, 213/215TC, 7.5 - 10HP	96476208		No
2	Motor Stool - Cat. Cast Iron, without insert Pos. 77		14-18/17	1	For NEMA, F254TC, 15-20HP	96486329		No
			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
		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
7a	Screw for Coupling Guard		3-18/17	2	NEMA, 182-215TC (High), 254TC-286TSC	96490656		YES
			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	95061337	YES
			3-18/17	4	M10 x 25mm, Delta Tone/Seal	00ID7901		YES
			2/1-22	1	ø5 x 26mm	310192		YES
10	Shaft Pin		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
10a	Coupling Half (machined set)		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		No
23d	Plug, Vented for Pos. 77a Cool Top® option only		2/1-18/17	2	G 1/2A, NV24, Vented	96510323	95061733	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

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Parts List & Kits **CRN10-H**

Pos. No.	Part Description	Model	Stages	No. Used	Comments/Dimensions	B.O.M. Ref. No.	Material No.	Included in kits ?
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PARTS LIST

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	001D3284		No
28	Motor Bolt		2/1-2	4	NEMA, 56C, 1/3 - 2HP, UNC 3/8" x 25mm	001D1839		No
			3-6	4	NEMA, 182/184TC, 3 - 5HP, UNC1/2" x 25mm	001D1840		No
			7-12	4	NEMA, 213TC, 7.5 -10HP, JR 1/2" x 1.25" UNC	001D0185		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
35	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
			2/1-18/17	6	M12 x 20mm low hex head, 8.8 - S.S., Delta Tone/Seal	97679673		No
			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	FKM, Ø171.25 x 3.3mm	96483109		YES
			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	FKM, 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
			2/1-22	1	Ø75.8 x Ø59.95 x 1.2mm, PTFE-Acoflon 100	96487400		YES
47a	Bearing Ring/Spacer		2/1-22	AAAA	SiC 150, Ø23.4 x Ø17.6 x Ø15.0 x 14mm	96763100		YES
			2/1-22	AAAA	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	96507577		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	96489825		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.	96489835		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, Cl.	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, Cl.	95922024		No
	Foot (Cast Iron) for Pos. 6 (C1, G20, G30)	254TC	2/1-22	1	H= 142mm, W= 300mm, Ø16mm hole CL 248mm, Cl.	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	1	Ø21.5 x Ø17.5 x 29.05mm	331404	95061499	No
64a	Spacing Pipe		2/1&18/17	1	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	1	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	Ø	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 for 79b		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

Pos. No.	Part Description	Model	Stages	No. Used	Comments/Dimensions	B.O.M. Ref. No.	Material No.	Included in kits ?
PARTS LIST								
90	Main Support Baseplate - Longer versions	GA GA,G05 G22	6 14-18/17 14-18/17	1 1 1	XLBP1(139/245), L=1500mm x W=381mm x H=106.5mm XLBP2(148/252), L=1777.8mm x W=381mm x H=107.9mm XLBP3(258/264), L=2406.4mm x W=457.2mm x H=120mm	96956376 96956377 96956379		YES YES YES
90a	Bolt for motor to slider Pos. 90b	56C 56/182 182TC 213TC 213TC 254TC 254TC	2/1-2 2/1-6 3-6 7-12 7-12 14-18/17 14-18/17	4 4 4 4 4 4 4	Hex Head 5/16 -18 UNC x .75" SAE 5, Zinc plated for GA Hex Head 5/16 -18 UNC x .75" SAE 5, Zinc plated for G05/22 Hex Head 3/8 -16 UNC x .5" SAE 5, Zinc plated for GA Hex Head 3/8 -16 UNC x 5/8" SAE 5, Zinc plated for GA Hex Head 3/8 -16 UNC x 1" SAE 5, Zinc plated for G05/22 Hex Head 1/2 -13 UNC x 1.5" SAE 5, Zinc plated for GA Hex Head 1/2 -13 UNC x 1.25" SAE 5, Z.P. for G05/22			YES YES YES YES YES YES YES
90b	Motor support / slider	56C 182TC 213TC 254TC 56C 182TC 213TC 254C	2/1-2 3-6 7-12 14-18/17 2/1-2 3-6 7-12 14-18/17	2 2 2 2 2 2 2 2	GA,GB,GC, BP139, L=204mm x H=45.5mm x W=25.4mm GA,GB,GC, BP139, L=230mm x H=23mm x W=25.4mm GA,GB,GC, BP148, L=252mm x H=20mm x W=25.4mm GA,GB,GC, BP148, L=299mm x H=20.3mm x W=25.4mm G05, G22, BP245, L=204mm x H=125.5mm x W=25.4mm G05, G22, BP245, L=230mm x H=100mm x W=25.4mm G05, G22, BP252, L=252mm x H=96.5mm x W=25.4mm G05, G22, BP252, L=354mm x H=67mm x W=25.4mm	96956339 96956338 96956347 96956348 96956343 96956342 96956357 96956361		YES YES YES YES YES YES YES YES
90c	Support Bracket for Pump Cartridge		2/1-22 2/1-22 2/1-22	1 1 1	304 SS, H=59mm CL of hole, GA/GB/GC 304 SS, H=136mm CL of hole, G05/G10/G22/G50/G60 304 SS, H=180mm CL of hole, G20/G30	95131178 95131180 96834148		No No No
90d	Bolt for motor slider Pos. 90b to base Pos. 90	56C 182/213 213-254 254TC 182TC	2/1-2 3-12 7-18/17 14-18/17 3-6	4 4 4 4 4	Hex Head 1/4 -20 UNC x 1" SAE 5, Zinc plated Hex Head 1/4 -20 UNC x 1.75" SAE 5, Zinc plated for GA Hex Head 1/4 -20 UNC x 1.75" SAE 5, Z.P. for G05/22 Hex Head 1/4 -20 UNC x 2.5" SAE 5, Zinc plated for GA Hex Head 1/4 -20 UNC x 2.5" SAE 5, Z.P. for G05/22			YES YES YES YES YES
90f	Washer for motor bolt Pos. 90a to slider Pos. 90b	56C 182/213 254TC	2/1-2 3-6 14-18/17	4 4 4	5/16" SAE, Zinc plated 3/8" SAE, Zinc plated 1/2" SAE, Zinc plated			YES YES YES
100(a)	Priming/Vent Plug O-ring		2/1-22 2/1-22 2/1-22 2/1-22	■ ■ ■ ■	EPDM, Ø16.3 x 2.4mm FKM, Ø16.3 x 2.4mm FFKM, Ø16.3 x 2.4mm FXM, Ø16.3 x 2.4mm	00ID1288 00ID2231 96428162 96442869	96587720 96587721	YES YES YES YES
105(b)	Shaft Seal HQBE Shaft Seal HQBV Shaft Seal HQQE Shaft Seal HQQV Shaft Seal HQQF (option) Shaft Seal HQQK (option) Shaft Seal HUBE Shaft Seal HUBV Shaft Seal HUBF (option) Shaft Seal HUBK (option) Shaft Seal HUUE Shaft Seal HUUV Shaft Seal HUUF (option) Shaft Seal HUUK (option)		2/1-22 2/1-22 2/1-22 2/1-22 2/1-22 2/1-22 2/1-22 2/1-22 2/1-22 2/1-22 2/1-22 2/1-22 2/1-22 2/1-22	*** *** *** *** *** *** *** *** *** *** *** *** *** ***	SiC, Carbon with resin-impregnated, EPDM SiC, Carbon with resin-impregnated, FKM SiC, SiC, EPDM SiC, SiC, FKM SiC, SiC, FXM SiC, SiC, FFKM TC, Carbon with resin-impregnated, EPDM TC, Carbon with resin-impregnated, FKM TC, Carbon with resin-impregnated, FXM TC, Carbon with resin-impregnated, FFKM TC, TC, EPDM TC, TC, FKM TC, TC, FXM TC, TC, FFKM	96484076 96484077 96484071 96484072 96484075 96484074 96483952 96483964 96483966 96483965 96483967 96483968 96484070 96483969		YES YES YES YES YES YES YES YES YES YES YES YES YES YES
109a	O-ring for Disk Plate 79a (Cool Top option only)		2/1-22 2/1-22 2/1-22	1 1 1	Ø27.2 x 2.75mm, EPDM Ø27.2 x 2.75mm, FKM Ø27.2 x 2.75mm, FXM	96483103 96483104 96483141		YES YES 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 2/1-10 2/1-10 12-22 12-22 12-22	1 1 1 1 1 1	1.5" 150#, 4 x 1/2"-13 UNC threaded flange, Cast Iron, e-coat 2" 150#, 4 x 5/8"-11 UNC threaded flange, Cast Iron, e-coat 3" 150#, 8 x non thread flange, Cast Iron, electrocoated 1.5" 300#, 4 x 3/4"-10 UNC threaded flange, Cast Iron, e-coat 2" 300#, 8 x 5/8"-11 UNC threaded flange, Cast Iron, e-coat 3" 300#, 8 x 3/4"-10 UNC threaded flange, Cast Iron, e-coat	96922828 96922829 350085 96956145 96956146 96956147		No No No No No No
	Flange, Suction, Stainless Steel - CF8M (1.4408)	GI GI GI GI GI GI	2/1-10 2/1-10 2/1-10 12-22 12-22 12-22	1 1 1 1 1 1	1.5" 150#, 4 x 1/2"-13 UNC threaded flange, SS 2" 150#, 4 x 5/8"-11 UNC threaded flange, SS 3" 150#, 8 x non thread flange, SS 1.5" 300#, 4 x 3/4"-10 UNC threaded flange, SS 2" 300#, 8 x 5/8"-11 UNC threaded flange, SS 3" 300#, 8 x 3/4"-10 UNC threaded flange, SS	97644306 97644309 350022 97644307 97644310 97644313		No No No No No No
201a	Flange, Discharge, Cast Iron - 80-55-06(GGG50)		2/1-10 2/1-10 2/1-10 12-22 12-22 12-22 12-22	1 1 1 1 1 1 1	1" 150#, 4 x 1/2"-13 UNC threaded flange, Cast Iron, e-coat 1.5" 150#, 4 x 1/2"-13 UNC threaded flange, Cast Iron, e-coat 2" 150#, 4 x 5/8"-11 UNC threaded flange, Cast Iron, e-coat 1" 300#, 4 x 5/8"-11 UNC threaded flange, Cast Iron, e-coat 1.5" 300#, 4 x 3/4"-10 UNC threaded flange, Cast Iron, e-coat 2" 300#, 8 x 5/8"-11 UNC threaded flange, Cast Iron, e-coat 3" 300#, 8 x 3/4"-10 UNC threaded flange, Cast Iron, e-coat	96922827 96922828 96922829 96956144 96956145 96956146 96956147		No No No No No No No

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

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Parts List & Kits CRN10-H

Pos. No.	Part Description	Model	Stages	No. Used	Comments/Dimensions	B.O.M. Ref. No.	Material No.	Included in kits ?
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PARTS LIST

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
203	Retaining ring for 201, 1.5" flange		2/1-22	1	Ø72.6mm x 5mm	96475395	96547671	No
			2/1-22	1	Ø86.6mm x 5mm	96475396		No
			2/1-22	1	Ø121mm x 6mm	350009		No
			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	96547671	No
			2/1-22	1	Ø72.6mm x 5mm	96475395		No
			2/1-22	1	Ø86.6mm x 5mm	96475396		No
			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 FKM 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 CRN10-H

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 Grafion 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 & Grafion 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					
(Maximum allowed working PSI is 435)		Kit No. 96511848			
(Tandem Seal option Pumps require 2 of each Seal Kit)		Kit No. 96511849			
		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
N/A	Emery Cloth	370712	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 (Maximum allowed working PSI is 435) (Tandem Seal option Pumps require 2 of each Seal Kit)		Kit No.	96511836							
		Kit No.		96511839						
		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 (FKM)		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/FFKM)-Double Seal option.		Kit No.								96525436
GASKET KIT (FKM/EPDM)-Cool Top option.		Kit No.								96525432
Pos. No.	Description	Material No.	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, FKM, ø171.25 x 3.3mm	96483109			2					2
	Sleeve O-ring, FFKM, ø170.7 x 3.3mm	96483140				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, FKM, ø16.3 x 2.4mm	96442869			3					3
	Drain Plug O-ring, FFKM, ø16.3 x 2.4mm	96428162				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, FKM, 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
	Flange gasket, Fiber, ø102 x ø65 x 2mm	330035	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
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
109a	Disc Plate O-ring, EPDM, ø27.5 x 2.75mm	96483103								
	Disc Plate O-ring, FKM, ø27.5 x 2.75mm	96483104								
	Disc Plate O-ring, FFKM, 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 FKM 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 FFKM 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	Material No.	Qty. 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				
	Shaft Pin, ø5 x 26mm, Stainless	310192	1	1		1				
10a	Coupling Half set, 56C, 1/3 - 2HP, ø15.8 / ø16	96516777	1							
	Cplg. Half set, 182/184TC, 3-SHP, 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, 1.5-25HP, ø41.2/ø16	96516771							1	
N/A	Adjusting Fork	96483950	1							1

Spare Part Kits CRN10-H

SPARE PART KITS (Continued)

COUPLING GUARD KIT		Kit No.	96509612
NEMA 56C, 1/3-2HP		Kit No.	96509614
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

Air Vent Kit - Horizontal Units		Kit No.	91136720
CR-H, CRN-H15 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		1.5" x 1" 316SS for GA 150#		1.5"	
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
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
56g	Washer, 1/2" SAE, Zinc plated	N/A	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		Kit No.				
148	213TC for GA/B/C	97534520				
	254TC for GA/B/C	97534531				
XLBP2	213TC for GA/B/C	97573875				
	254TC for GA/B/C	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		Kit No.				
245	56C for G05/10/50/60/70/22/33/44	97534535				
	182TC for G05/10/50/60/70/22/33/44		97534536			
XLBP1	56C for G05/10/50/60/70/22/33/44		97534575			
	182TC for G05/10/50/60/70/22/33/44		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.

Spare Part Kits **CRN10-H**

ACCESSORIES (Continued)

Baseplate Kit		Kit No.	
252	213TC for G05/10/50/60/70/22/33/44	97534539	
XLBP2		Kit No.	
213TC for G05/10/50/60/70/22/33/44		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
N/A	Hardware Kit -96983870/80 (cont. of pos. 56f, g, 90a, d & f)**	97501489	1
56f	Bolt, Hex Head 1/2 -13 UNC x 1.25" SAE 5, Zinc plated	N/A	2
56g	Washer, 1/2" SAE, Zinc plated	N/A	2
90a	Bolt, Hex Head 3/8 -16 UNC x 1" SAE 5, Zinc plated	N/A	4
90b	Slider, G05/22, 213TC/252BP, L=252* x H=96.5* x W=25.4*	96956357	2
90d	Bolt, Hex Head 1/4 -20 UNC x 1.75" SAE 5, Zinc plated	N/A	4
90f	Washer, 3/8" SAE, Zinc plated	N/A	4

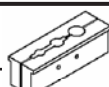
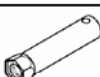
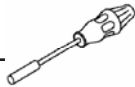
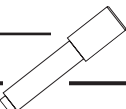
* Values in mm, Length (L) is +/- 2mm, Height (H) is +/- 1mm, Width (W). ** Hardware kit 97501489 is also available for sale.

Baseplate Kit		Kit No.	
258	254TC for G05/10/50/60/70/22/33/44	97534543	
XLBP3		Kit No.	
254TC for G05/10/50/60/70/22/33/44		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
N/A	Hardware Kit -96983871 (cont. of pos. 56f & g, 90a, d & f)**	97501493	1
56f	Bolt, Hex Head 1/2 -13 UNC x 1" SAE 5, Zinc plated	N/A	2
56g	Washer, 1/2" SAE, Zinc plated	N/A	2
90a	Bolt, Hex Head 1/2 -13 UNC x 1.25" SAE 5, Zinc plated	N/A	4
90b	Slider, G05/22, 254TC/258BP, L=354* x H=67* x W=25.4*	96956361	2
90d	Bolt, Hex Head 1/4 -20 UNC x 1.75" SAE 5, Zinc plated	N/A	4
90f	Washer, 1/2" SAE, Zinc plated	N/A	4

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

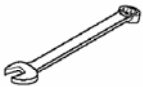
SPECIAL TOOLS

Tools not generally available from normal sources.

Mat. No.	Description and Use	
005V0040	Shaft Holder for Dismantling/Assembly Used to hold and protect the shaft during dismantling and assembly.	
005V2107	Tubular Box Spanner for Shaft Seal 41.0 mm Used to install and remove the shaft seal. Fits a 1/2" drive ratchet.	
005V2101	Ring Insert Tool for Shaft Seal + Square 41 mm x 1/2" drive	
005V0239	Puller for Neck Ring Used to remove the Neck Ring from Chamber.	
005V2011	Bit Holder Used with Bits Kit, 1/4"	
005V2010	Bits Kit NV 5 mm for M6, 1/4" NV 6 mm for M8, 1/4" NV 8 mm for M10, 1/4"	
005V2012	Hexagon Socket Bit Used for Shaft Seal NV 2.5 mm for M5, 1/4"	
005V2127	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	
005V0083 005V0055 005V0054 005V0122	Wrenches Used to tighten various nuts. NV 10 mm for M6 NV 13 mm for M8 NV 19 mm for M12 NV 24 mm for M16	
005V0292 005V0269 005V0400	Torque Wrench Used to torque various screws. 4-20 Nm, 9 x 12 20-100 Nm, 9 x 12 40-200 Nm, 14x18	
005V0438	Torque Screwdriver Used to tighten various nuts. 1-6 Nm, 1/4"	
005V0295 005V0401	Ratchet Spanner for all Adapters 9 mm x 12 mm, 1/2" 14 mm x 18 mm, 1/2"	
005V0296 005V0297 005V0298	Socket Spanner with Inside Hex NV 5 mm for M6, 1/2" x 1/2" NV 6 mm for M8, 1/2" x 1/2" NV 8 mm for M10, 1/2" x 1/2"	
005V0310 005V0294 005V0271 005V0524	Ring Spanner NV 10 mm, 9 x 12, for M6 NV 13 mm, 9 x 12, for M8 NV 19 mm, 9 x 12, for M12 NV 24 mm, 14 x 18, for M16	
005V2013 005V0267	Socket Spanner NV 13 mm for M8, 1/2" drv. 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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