



CR10-H

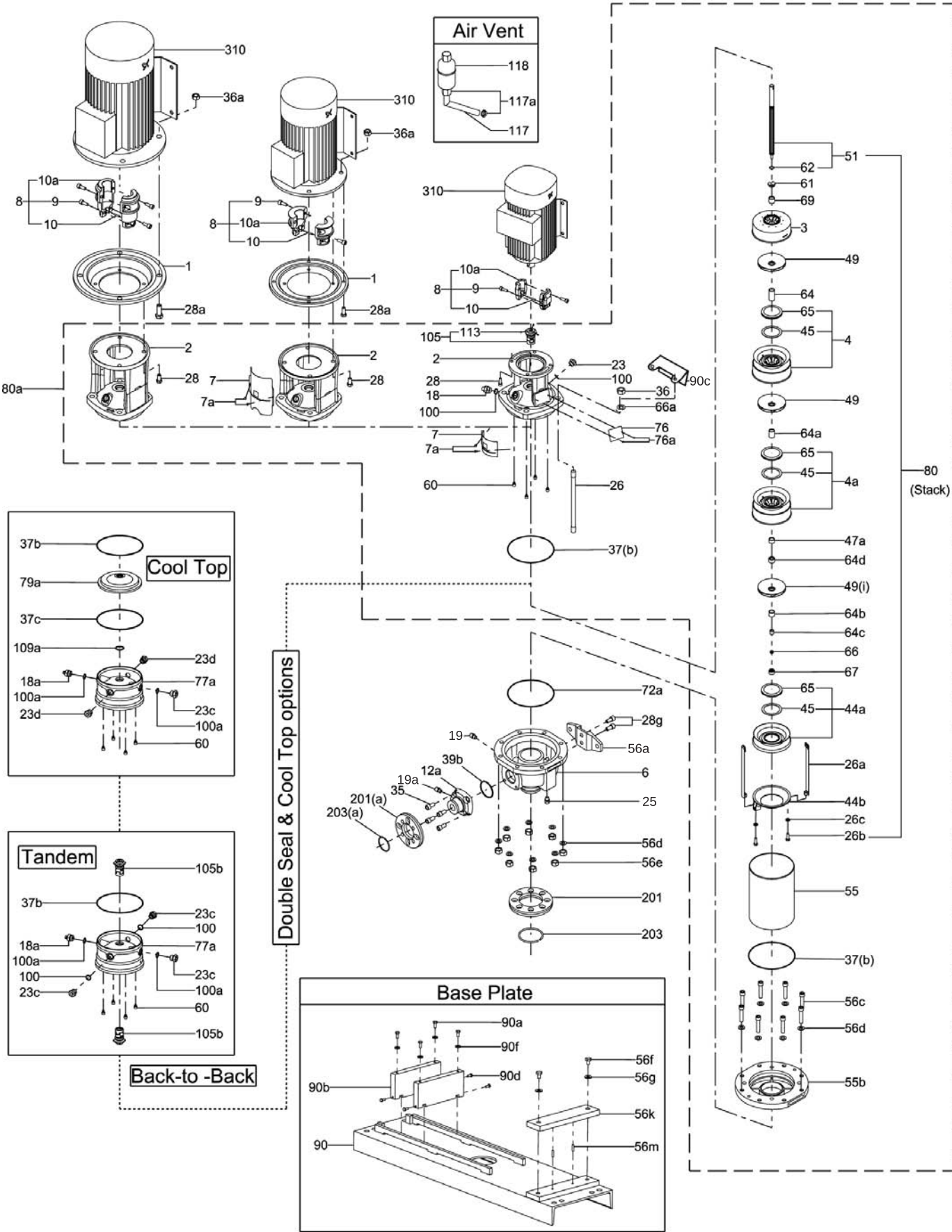
Parts List & Kits

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Exploded View CR10-H



TM047921

Parts List & Kits CR10-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		14-18/17	1	For NEMA, F254TC, 15-20HP	96486329		No
			2/1-2	1	NEMA, 56C, .75 - 2.0HP	96486287		No
			3-6	1	NEMA, 182TC, 3 - 5HP (High)	96486311		No
			7-12	1	Add Pos.1 NEMA 213/215TC, 7.5-10HP (High)	96486311		No
			14-18/17	1	Add Pos. 1 for NEMA 254/256TC, 15-20HP	96486311		No
				1	NEMA, 284/286TSC, 25HP	96486293		No
3	Chamber, Top, Complete with guide vane		2-17	*1	Slotted to accept Strap, pos. 26a	96487783		No
3a	Chamber N, Top, without guide vane		2/1&18/17	*1	Slotted to accept Strap, pos. 26a	96491220		No
3b	Chamber without guide vane		3-22	*1		420015		No
4	Chamber complete with Pos. 45 & 65		2/1-22	^^^	PTFE Pos.45	96487846		No
4a	Chamber Cpl. w/Pos. 45 & 65 & Bearing		2/1-22	^^^^	Silicon Carbide Bearing, PTFE Pos.45	96747280		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.)		3-18/17	1	PTFE Pos.45	96505300		No
6	Volute, suction / discharge base		2/1-22	1	GA, 1.5" suction (OD=76mm) for 4 hole dis. adapter	95922001		No
	Volute, option larger suction & discharge		2/1-22	1	G05/G22, 2" suction (OD=90mm) for 4 hole dis. adapter	95922000		No
			2/1-22	1	G8&C/G10/G50/G60, 3" suc. (OD=120), 6 hole dis. adap.	95922002		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		2/1-18/17	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	001D7899		YES
			3-18/17	4	M10 x 25mm, Delta/Tone Seal	001D7901		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	95922007		No
			2/1-22	1	G05, 4 hole flange, OD=55mm, ID=26mm (1.0"), L=111mm	95922008		No
			2/1-22	1	G22, 4 hole flange, OD=90mm, ID=50mm (2"), L=85mm	95922016		No
	Discharge Adp. option larger suc./dis. & press		2/1-22	1	GB, 6 hole flange, OD=76mm, ID=49mm (1.5"), L=65mm	95922009		No
			2/1-22	1	GC, 6 hole flange, OD=90mm, ID=49mm (2"), L=65mm	95922010		No
			2/1-22	1	G50, 6 hole flange, OD=76mm, ID=41mm (1.5"), L=116mm	95922011		No
			2/1-22	1	G10, 6 hole flange, OD=90mm, ID=50mm (2"), L=110mm	95922012		No
			2/1-22	1	G60, 6 hole flange, OD=90mm, ID=50mm (2"), L=142mm	95922013		No
			2/1-22	1	G20, 6 hole flange, OD=76mm, ID=40mm (1.5"), L=166mm	95922014		No
			2/1-22	1	G30, 6 hole flange, OD=90mm, ID=50mm (2"), L=192mm	95922015		No
			2/1-22	1	G50, 6 hole flange, OD=76mm, ID=47mm (1.5"), L=96mm	96834136		No
			2/1-22	1	G10, 6 hole flange, OD=90mm, ID=56mm (2"), L=90mm	96834137		No
			2/1-22	1	G60, 6 hole, flange, OD=90mm, ID=55mm (2"), L=122mm	96834138		No
			2/1-22	1	G20, 6 hole flange, OD=76mm, ID=46mm (1.5"), L=146mm	96834139		No
			2/1-22	1	G30, 6 hole flange, OD= 90mm, ID= 54mm (2"), L= 72mm	96834140		No
			2/1-22	1	G33, 6 hole flg.OD=120mm, ID= 80mm (3"), L=110mm	95922017		No
18(a)	Priming/Vent Plug		2/1-22	1	G 1/2A, NV24 with NV9 x M8 stem	405150	95061351	No
19	(Suction) Pressure tap plug		2/1-22	1	1/4" NPT,SS SQHD	001D7216		No
19a	(Discharge) Pressure tap plug		2/1-22	1	1/4" NPT,SS SQHD	001D7216		No
23, 23c	Plug		2/1-22	*	G 1/2A, NV24, solid	370025	95061733	No
25	Drain plug		2/1-22	1	1/4" NPT,SS SQHD	001D7216		No
26	Staybolt		2/1-2	4	M16 x 116mm	96922783		No
			3	4	M16 x 150mm	96922785		No
			4	4	M16 x 176mm	96922787		No
			5	4	M16 x 211mm	96922789		No
			6	4	M16 x 241mm	96922792		No
			7	4	M16 x 266mm	96922793		No
			8	4	M16 x 296mm	96922795		No
			9	4	M16 x 327mm	350179		No
			10	4	M16 x 356mm	290248		No
			12	4	M16 x 415mm	370134		No
			14	4	M16 x 481mm	96922805		No
			16	4	M16 x 536mm	380092		No
			18/17	4	M16 x 596mm	96922810		No
			20	4	M16 x 661mm, 4 pole & 50 Hz.	96922813		No
			22	4	M16 x 716mm, 4 pole & 50 Hz.	380094		No
	Staybolt (Back-to-Back & Tandem Seal option)		2/1-2	4	M16 x 211mm	96922789		No
			3	4	M16 x 241mm	96922792		No
			4	4	M16 x 266mm	96922793		No
			5	4	M16 x 296mm	96922795		No
			6	4	M16 x 333mm	370133		No
			7	4	M16 x 356mm	290248		No

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PARTS LIST

26	Staybolt (Back-to-Back & Tandem Seal option) (continued)		8	4	M16 x 386mm	97525093		No
			9	4	M16 x 415mm	370134		No
			10	4	M16 x 450mm	97525096		No
			12	4	M16 x 506mm	96922806		No
			14	4	M16 x 566mm	290251		No
			16	4	M16 x 628mm	380093		No
			18/17	4	M16 x 686mm	96922814		No
26a	Strap		20: 4 pole	4	M16 x 745mm	370138		No
			22: 4 pole	4	M16 x 807mm	350185		No
			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, .75 - 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 Alloy Steel, Delta Tone/Seal	95922047		No
35	Bolt for Foot 56a & Volute Pos. 6 (G05, G10, G22, G50, G60)		2/1-22	2	M12 x 20mm, 8.8 Alloy Steel, Delta Tone/Seal	95922048		No
			2/1-18/17	6	M12 x 22mm Socket Head Cap Screw, Delta Tone/Seal	95922049		No
			2/1-18/17	4	M12 x 25mm Socket Head Cap Screw, Delta Tone/Seal	95922050		No
36	Staybolt Nut		2/1-22	4	24mm x M16, Delta Tone/Seal	001D7908		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
			2/1-22	◆◆	FKM, ø171.25 x 3.3mm	96483109		YES
			2/1-22	◆◆	FFKM, ø170.7 x 3.3mm	96483140		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 with Pos. 45 & 65		2/1-22	1		96489070		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 N 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	^^^^	SIC 150, ø23.4 x ø17.6 x ø15.0 x 14mm	96763100		YES
			2/1-22	^^^^	TC, ø21.9 x ø17.6 x ø15.0 x 14mm	330085	95061371	YES
49	Impeller		2/1-22	# stgs-	ø92.9 x ø44.0 x 13.6mm (back-plate 1.0mm)	96487817		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, 431 SS	96489224		No
			3	1	ø16 x 209.0mm, 431 SS	96490794		No
			4	1	ø16 x 239.0mm, 431 SS	96490796		No
			6	1	ø16 x 299.0mm, 431 SS	96490872		No
			7	1	ø16 x 329.0mm, 431 SS	96490874		No
			5	1	ø16 x 269.0mm, 431 SS	96490870		No
			8	1	ø16 x 359.0mm, 431 SS	96490878		No
			9	1	ø16 x 389.0mm, 431 SS	96490880		No
			10	1	ø16 x 419.0mm, 431 SS	96490882		No
			12	1	ø16 x 479.0mm, 431 SS	96490886		No
			14	1	ø16 x 539.0mm, 431 SS	96490890		No
			16	1	ø16 x 599.0mm, 431 SS	96490894		No
			18/17	1	ø16 x 659.0mm, 431 SS	96490896		No
			20	1	ø16 x 719.0mm, 431 SS, 4 pole & 50 Hz.	96490898		No
			22	1	ø16 x 779.0mm, 431 SS, 4 pole & 50 Hz.	96490913		No
			2/1-2	1	ø16 x 269.0mm, 329 SS	96507534		No
51	Shaft, Cpl. (Back-to-Back & Tandem Seal option)		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

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PARTS LIST								
51	Shaft, Cpl. (Back-to-Back & Tandem Seal option) (continued)		10	1	Ø16 x 509.0mm, 329 SS	96507577		No
			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 1.5mm, 304 SS	96485420		No
			3	1	Ø171.1/ Ø170.7 x 104.0mm x 1.5mm, 304 SS	96489762		No
			4	1	Ø171.1/ Ø170.7 x 134.0mm x 1.5mm, 304 SS	96489763		No
			5	1	Ø171.1/ Ø170.7 x 164.0mm x 1.5mm, 304 SS	96489765		No
			6	1	Ø171.1/ Ø170.7 x 194.0mm x 1.5mm, 304 SS	96489766		No
			7	1	Ø171.1/ Ø170.7 x 224.0mm x 1.5mm, 304 SS	96489838		No
			8	1	Ø171.1/ Ø170.7 x 254.0mm x 1.5mm, 304 SS	96489768		No
			9	1	Ø171.1/ Ø170.7 x 284.0mm x 1.5mm, 304 SS	96489769		No
			10	1	Ø171.1/ Ø170.7 x 314.0mm x 1.5mm, 304 SS	96489770		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 for Pos. 6 (GA, GB, GC)		2/1-22	1	H= 21mm, W= 198mm, Ø16mm hole CL 142mm	95922023		No
	Foot for Pos. 6 (G05, G10, G22, G50, G60)		2/1-22	1	H= 98mm, W= 300mm, Ø16mm hole CL 248mm	95922024		No
	Foot for Pos. 6 (C1, G20, G30)	254TC	14-18/17	1	H= 142mm, W= 300mm, Ø16mm hole CL 248mm	96834143		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 x65mm, 12.9 Alloy Steel, Delta Tone/Seal	95922053		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	Ø22.0 x Ø17.8 x Ø15.11 x 11.8 x 6.8mm	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		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	2	DIN 125A, Ø30 x Ø17 x 2.5mm, Delta Tone/Seal	96430378		No
67	Lock Nut for Shaft		2/1-22	1	13mm x M8	96496488		YES
69	Spacing Pipe		2/1-22	1	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
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
	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

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

This column indicates which pump model uses the spare part. If blank, the part is used in all models.

B.O.M. Ref. No. is only available if it is not included in a kit or does not have a material number listed. If it is included in a kit (YES), or has a material number, request one of these numbers. If not included in a kit (No), but has a Material Number, use Material Number.

Parts List & Kits CR10-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 (continued)	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	Priming/Vent Plug O-ring		2/1-22	■	EPDM, ø16.3 x 2.4mm	00ID1288		YES
100(a)	Priming/Vent Plug O-ring		2/1-22	■	FKM, ø16.3 x 2.4mm	00ID2231		YES
		Priming/Vent Plug O-ring	2/1-22	■	FFKM, ø16.3 x 2.4mm	96428162	96587720	YES
			2/1-22	■	FKM, 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		2/1-22	*	SiC, SiC, FKM	96484075		YES
	Shaft Seal HQQK		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		2/1-22	*	TC, Carbon with resin-impregnated, FKM	96483966		YES
	Shaft Seal HUBK		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		2/1-22	*	TC, TC, FKM	96484070		YES
Shaft Seal HUUK		2/1-22	*	TC, TC, FFKM	96483969		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		2/1-10	1	1.5" 150#, 4 x 1/2"-13 UNC threaded flange, e-coat	96922828		No
			2/1-10	1	2" 150#, 4 x 5/8"-11 UNC threaded flange, e-coat	96922829		No
			2/1-10	1	3" 150#, 8 x non thread flange, electrocoated	350085		No
			12-22	1	1.5" 300#, 4 x 3/4"-10 UNC threaded flange, e-coat	96956145		No
			12-22	1	2" 300#, 8 x 5/8"-11 UNC threaded flange, e-coat	96956146		No
			12-22	1	3" 300#, 8 x 3/4"-10 UNC threaded flange, e-coat	96956147		No
			12-22	1	1" 150#, 4 x 1/2"-13 UNC threaded flange, e-coat	96922827		No
201a	Flange, Discharge		2/1-10	1	1.5" 150#, 4 x 1/2"-13 UNC threaded flange, e-coat	96922828		No
			2/1-10	1	2" 150#, 4 x 5/8"-11 UNC threaded flange, e-coat	96922829		No
			2/1-10	1	1" 300#, 4 x 5/8"-11 UNC threaded flange, e-coat	96956144		No
			12-22	1	1.5" 300#, 4 x 3/4"-10 UNC threaded flange, e-coat	96956145		No
			12-22	1	2" 300#, 8 x 5/8"-11 UNC threaded flange, e-coat	96956146		No
	12-22	1	3" 300#, 8 x 3/4"-10 UNC threaded flange, e-coat	96956147		No		
203	Retaining ring for 201, 1.0" 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
203a	Retaining ring for 201a, 1.0" flange		2/1-22	1	ø53.6mm x 3.2mm	96439718		No
			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

NOTES:

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

Example: A CR10-1 is actually a CR10-2/1. It has 2 chambers, 1 impeller (de-staged by 1), and uses a 2 stage shaft.

Example: A CR10-17 is actually a CR10-18/17. 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 CR10s have one less impeller and chamber than what is listed on the nameplate.

Example: An LNPSH CR10-3 is actually a CR10-3/2. It has 3 chambers, 2 impellers, and uses a 4 stage shaft.

Example: An LNPSH CR10-22 is actually a CR10-21. 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 2
** Standard use 1. Back-to-Back or Tandem pump version use 4

⊖ 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.

L* 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 CR10-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, $\phi 16.0/\phi 8.4 \times 1.6$ mm	00ID3284	2	2	2
45	Neck Ring, $\phi 59.5 \times \phi 44.08 \times 1.2$ mm, PTFE-Acoflon 100	96487401	7	12	19
47a	Bearing Ring/Spacer, SiC 150, $\phi 23.4 \times 14$ mm	96763100	1	2	3
61	Stop Spacer, $\phi 29.0 \times \phi 18.4 \times \phi 17.6 \times \phi 15.0 \times 9.5 \times 2$ mm	330072	1	1	1
62	Stop Ring, $\phi 16.6 \times \phi 15.0 \times 1.6$ mm	330057	1	1	1
64a	Spacing Pipe, $\phi 21.5 \times \phi 17.5 \times 9.0$ mm	96495333	1	2	3
64c	Clamp, Splined, $\phi 21.5 \times \phi 17.6 \times \phi 15.0 \times 12.7$ mm	96496311	1	1	1
64d	Spacing Pipe, $\phi 21.5 \times \phi 17.5 \times 6.0$ mm	331412	1	2	3
65	Neck Ring Retainer, N, $\phi 61.9 \times \phi 47.2 \times 4.7$ mm	96487285	7	12	19
66	Lock Washer Set of 2, $\phi 13.5 \times \phi 8.2 \times 2.6$ mm	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, $\phi 16.0/\phi 8.4 \times 1.6$ mm	00ID3284	2	2	2
45	Neck Ring, $\phi 59.5 \times \phi 44.08 \times 1.2$ mm, PTFE-Acoflon 100	96487401	7	12	19
47a	Bearing Ring/Spacer, TC 150, $\phi 21.9 \times 14$ mm	330085	1	2	3
61	Stop Spacer, $\phi 29.0 \times \phi 18.4 \times \phi 17.6 \times \phi 15.0 \times 9.5 \times 2$ mm	330072	1	1	1
62	Stop Ring, $\phi 16.6 \times \phi 15.0 \times 1.6$ mm	330057	1	1	1
64a	Spacing Pipe, $\phi 21.5 \times \phi 17.5 \times 9.0$ mm	96495333	1	2	3
64c	Clamp, Splined, $\phi 21.5 \times \phi 17.6 \times \phi 15.0 \times 12.7$ mm	96496311	1	1	1
64d	Spacing Pipe, $\phi 21.5 \times \phi 17.5 \times 6.0$ mm	331412	1	2	3
65	Neck Ring Retainer, N, $\phi 61.9 \times \phi 47.2 \times 4.7$ mm	96487285	7	12	19
66	Lock Washer Set of 2, $\phi 13.5 \times \phi 8.2 \times 2.6$ mm	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, $\phi 16.0/\phi 8.4 \times 1.6$ mm	00ID3284	2	2	2
45	Neck Ring, $\phi 59.5 \times \phi 44.08 \times 1.2$ mm, PTFE-Acoflon 100	96487401	7	12	19
47a	Bearing Ring/Spacer, TC 150, $\phi 21.9 \times 14$ mm	330085	1	2	3
61	Stop Spacer, $\phi 29.0 \times \phi 18.4 \times \phi 17.6 \times \phi 15.0 \times 9.5 \times 2$ mm	330072	1	1	1
62	Stop Ring, $\phi 16.6 \times \phi 15.0 \times 1.6$ mm	330057	1	1	1
64a	Spacing Pipe, $\phi 21.5 \times \phi 17.5 \times 9.0$ mm	96495333	1	2	3
64c	Clamp, Splined, $\phi 21.5 \times \phi 17.6 \times \phi 15.0 \times 12.7$ mm	96496311	1	1	1
64d	Spacing Pipe, $\phi 21.5 \times \phi 17.5 \times 6.0$ mm	331412	1	2	3
65	Neck Ring Retainer, N, $\phi 61.9 \times \phi 47.2 \times 4.7$ mm	96487285	7	12	19
66	Lock Washer Set of 2, $\phi 13.5 \times \phi 8.2 \times 2.6$ mm	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	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.
CR10-2/1	96491694
CR10-2	96491695
CR10-3	96491696
CR10-4	96491697
CR10-5	96491698
CR10-6	96491699
CR10-7	96491700
CR10-8	96491701
CR10-9	96491702
CR10-10	96491703
CR10-12	96491704
CR10-14	96491705
CR10-16	96491706
CR10-18/17	96529404
CR10-18	96491707
CR10-20	96491708
CR10-22	96491709

***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	1
N/A	Emery Cloth	370712	1	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), $\phi 170.7 \times 3.3$ mm	96483101	2				3		1		1
	Sleeve O-ring, FKM, $\phi 170.7 \times 3.3$ mm	96483102		2				3		1	
37b	Sleeve O-ring, FKM, $\phi 171.25 \times 3.3$ mm	96483109			2						2
	Sleeve O-ring, FFKM, $\phi 170.7 \times 3.3$ mm	96483140				2			2	2	
37c	Disc Plate O-ring, EPDM, $\phi 155.0 \times 3.0$ mm	96509703									1
	Disc Plate O-ring, FKM, $\phi 155.0 \times 3.0$ mm	96480168									
38, 100(a,b)	Drain Plug O-ring, EPDM, $\phi 16.3 \times 2.4$ mm	00ID1288	3				7		4		1
	Drain Plug O-ring, FKM, $\phi 16.3 \times 2.4$ mm	00ID2231		3				7		4	
	Drain Plug O-ring, FKM, $\phi 16.3 \times 2.4$ mm	96442869			3						3
	Drain Plug O-ring, FFKM, $\phi 16.3 \times 2.4$ mm	96428162				3			3	3	
38a	Drain Plug O-ring, EPDM, $\phi 5.3 \times 2.4$ mm	00ID2142	1				1				
	Drain Plug O-ring, FKM, $\phi 5.3 \times 2.4$ mm	00ID3945						1			
	Drain Plug O-ring, FKM, $\phi 5.3 \times 2.4$ mm	96511292			1						1
	Drain Plug O-ring, FFKM, $\phi 5.3 \times 2.4$ mm	96511293				1			1	1	
39	Flange O-ring, EPDM, $\phi 90 \times 3$ mm	96496200	2				2				
	Flange O-ring, FKM, $\phi 90 \times 3$ mm	00ID2856		2				2			
	Flange gasket, Fiber, 122mm x $\phi 60 \times \phi 44 \times 2$ mm	420039	2	2	2	2	2	2	2	2	2
	Flange gasket, Fiber, $\phi 102 \times \phi 65 \times 2$ mm	330035	2	2	2	2	2	2	2	2	2
	Flange gasket, Fiber, $\phi 92 \times \phi 49 \times 2$ mm	00ID2582	2	2	2	2	2	2	2	2	2
60(a)	Stack Compression Spring, EPDM, $\phi 11.0 \times \phi 7.0 \times 15.5$ mm	96503070	4				4				4
	Stack Compression Spring, FKM, $\phi 11.0 \times \phi 7.0 \times 15.5$ mm	96503072		4				4			
	Stack Compression Spring, PTFE, $\phi 11.0 \times \phi 7.0 \times 15.5$ mm	96503071			4	4			4	4	4
109a	Disc Plate O-ring, EPDM, $\phi 27.5 \times 2.75$ mm	96483103									
	Disc Plate O-ring, FKM, $\phi 27.5 \times 2.75$ mm	96483104									
	Disc Plate O-ring, FFKM, $\phi 27.5 \times 2.75$ mm	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 FFKM CR-H, CRN-H10/15/20/32 GA/G05/G22		Kit No.			96922816						
Kit, O-ring EPDM CR-H, CRN-H10/15/20/32 GB-G60		Kit No.				96922822					
Kit, O-ring FKM CR-H, CRN-H10/15/20/32 GB-G60		Kit No.					96956134				
Kit, O-ring FFKM CR-H, CRN-H10/15/20/32 GB-G60		Kit No.						96956135			
Kit, O-ring EPDM 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.	Included in each Kit								
72a	O-ring, 2-268 EPDM $\phi 215.5 \times 3.5$ mm	95922038	1				1				
	O-ring, 2-268 Viton $\phi 215.5 \times 3.5$ mm	95922039		1				1			
	O-ring, 2-268 Fluoraz $\phi 215.5 \times 3.5$ mm	95922040			1				1		
	O-ring, 2-268 FFKM $\phi 215.5 \times 3.5$ mm	95131208				1					1
39b	O-ring, 2-230 EPDM $\phi 63.1 \times 3.5$ mm	95922032	1								
	O-ring, 2-230 Viton $\phi 63.1 \times 3.5$ mm	95922033		1							
	O-ring, 2-230 Fluoraz $\phi 63.1 \times 3.5$ mm	95922034			1						
	O-ring, 2-230 FFKM $\phi 63.1 \times 3.5$ mm	95131189				1					
	O-ring, Parker 2-238 EPDM $\phi 88.5 \times 3.5$ mm	95922035					1				
	O-ring, 2-238 Viton $\phi 88.5 \times 3.5$ mm	95922036						1			
	O-ring, 2-238 Fluoraz $\phi 88.5 \times 3.5$ mm	95952037							1		
	O-ring, 2-238 FFKM $\phi 88.5 \times 3.5$ mm	95131207									1

NEMA COUPLING KIT

$\phi 15.9/\phi 16$		Kit No.	96511353								
$\phi 28.5/\phi 16$ (High)		Kit No.		96753660							
$\phi 34.9/\phi 16$ (High)		Kit No.			96753661						
$\phi 41.3/\phi 16$		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					
10	Shaft Pin, $\phi 5 \times 26$ mm, Stainless	310192	1	1		1			1		
10a	Coupling, Half set, 56C, 1/3 - 2HP, $\phi 15.8 / \phi 16$	96516777	1								
	Cplg. Half set, 182/184TC, 3-SHP, High, $\phi 28.5/\phi 16$	96516009		1							
	Cplg. Half set, 213TC, 7.5-10HP, High, $\phi 34.9/\phi 16$	96516770				1					
	Cplg. Half set, 254TC-284/286TSC, 15-25HP, $\phi 41.2/\phi 16$	96516771								1	
N/A	Adjusting Fork	96483950	1							1	

Spare Part Kits CR10-H

SPARE PART KITS (Continued)

COUPLING GUARD KIT		Kit No.	96509612	
NEMA 56C, 1/3-2HP		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		Kit No.	91136720
CR-H, CRN-H1S to 20			
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		1.5"		1"	
Kit No. 97642565 1.5" x 1" CI BLACK for GA 125#		Material No.	Qty.	Material No.	Qty.
Pos. No.	Description				
N/A	Bolts	97693886	4	97693886	4
N/A	Flanges	91123167	1	96983489	1
N/A	Gasket	91123168	1	97692916	1
Kit No. 96967594 1.5" x 1" CI BLACK for GA 250#		1.5"		1"	
Pos. No.	Description	Material No.	Qty.	Material No.	Qty.
N/A	Bolts	91137423	4	91130816	4
N/A	Flanges	96983494	1	96983493	1
N/A	Gasket	97694408	1	97694407	1
Kit No. 97642567 2" x 1" CI BLACK for G05 125#		2"		1"	
Pos. No.	Description	Material No.	Qty.	Material No.	Qty.
N/A	Bolts	91130816	4	97526838	4
N/A	Flanges	96983491	1	96983489	1
N/A	Gasket	97692909	1	97692916	1
Kit No. 96967595 2" x 1" CI BLACK for G05 250#		2"		1"	
Pos. No.	Description	Material No.	Qty.	Material No.	Qty.
N/A	Bolts	91120660	8	91130816	4
N/A	Flanges	00ID2743	1	96983493	1
N/A	Gasket	00ID2747	1	97694407	1
Kit No. 97642571 3" x 1.5" CI BLACK for GB, G50 and G20 125#		3"		1.5"	
Pos. No.	Description	Material No.	Qty.	Material No.	Qty.
N/A	Nuts	00ID1510	4	none	0
N/A	Bolts	00ID1921	4	97693886	4
N/A	Flanges	00ID1925	1	91123167	1
N/A	Gasket	560185	1	91123168	1
Kit No. 97658571 3" x 1.5" CI BLACK for GB, G50 and G20 250#		3"		1.5"	
Pos. No.	Description	Material No.	Qty.	Material No.	Qty.
N/A	Bolts	91120662	8	91137423	4
N/A	Flanges	91121943	1	96983494	1
N/A	Gasket	91122339	1	97694408	1
Kit No. 97642574 3" x 2" CI BLACK for GC, G10, G60 and G30 125#		3"		2"	
Pos. No.	Description	Material No.	Qty.	Material No.	Qty.
N/A	Nuts	00ID1510	4	none	0
N/A	Bolts	00ID1921	4	91130816	4
N/A	Flanges	00ID1925	1	96983491	1
N/A	Gasket	560185	1	97692909	1
Kit No. 97658572 3" x 2" CI BLACK for GC, G10, G60 and G30 250#		3"		2"	
Pos. No.	Description	Material No.	Qty.	Material No.	Qty.
N/A	Bolts	91120662	8	91120660	8
N/A	Flanges	91121943	1	00ID2743	1
N/A	Gasket	91122339	1	00ID2747	1
Kit No. 97642568 2" x 2" CI BLACK for G22 125#		2"		2"	
Pos. No.	Description	Material No.	Qty.	Material No.	Qty.
N/A	Bolts	91130816	4	91130816	4
N/A	Flanges	96983491	1	96983491	1
N/A	Gasket	97692909	1	97692909	1
Kit No. 97757976 2" x 2" CI BLACK for G22 250#		2"		2"	
Pos. No.	Description	Material No.	Qty.	Material No.	Qty.
N/A	Bolts	91120660	8	91120660	8
N/A	Flanges	00ID2743	1	00ID2743	1
N/A	Gasket	00ID2747	1	00ID2747	1

ACCESSORIES (Continued)

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

Spare Part Kits CR10-H

ACCESSORIES (Continued)

Baseplate Kit		Kit No.		97534517		
139	56C for GA/B/C	Kit No.	97534518			
	182TC for GA/B/C	Kit No.	97534573			
XLBP1	56C for GA/B/C	Kit No.	97534574			
	182TC for GA/B/C	Kit No.				
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		Kit No.		97534520		
148	213TC for GA/B/C	Kit No.	97534531			
XLBP2	254TC for GA/B/C	Kit No.	9753875			
	213TC for GA/B/C	Kit No.	97534579			
	254TC for GA/B/C	Kit No.				
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	
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.		97534535		
245	56C for G05/10/50/60/70/22/33/44	Kit No.	97534536			
XLBP1	182TC for G05/10/50/60/70/22/33/44	Kit No.	97534575			
	56C for G05/10/50/60/70/22/33/44	Kit No.	97534576			
	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.

Spare Part Kits • Special Tools **CR10-H**

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	
00SV0083 00SV0055 00SV0054 00SV0122	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	
00SV0292 00SV0269 00SV0400	Torque Wrench Used to torque various screws. 4-20 Nm, 9 x 12 20-100 Nm, 9 x 12 40-200 Nm, 14x18	
00SV0438	Torque Screwdriver Used to tighten various nuts. 1-6 Nm, 1/4"	
00SV0295 00SV0401	Ratchet Spanner for all Adapters 9 mm x 12 mm, 1/2" 14 mm x 18 mm, 1/2"	
00SV0296 00SV0297 00SV0298	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"	
00SV0310 00SV0294 00SV0271 00SV0524	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	
00SV2013 00SV0267	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-050 11/11 US

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Subject to alterations.

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