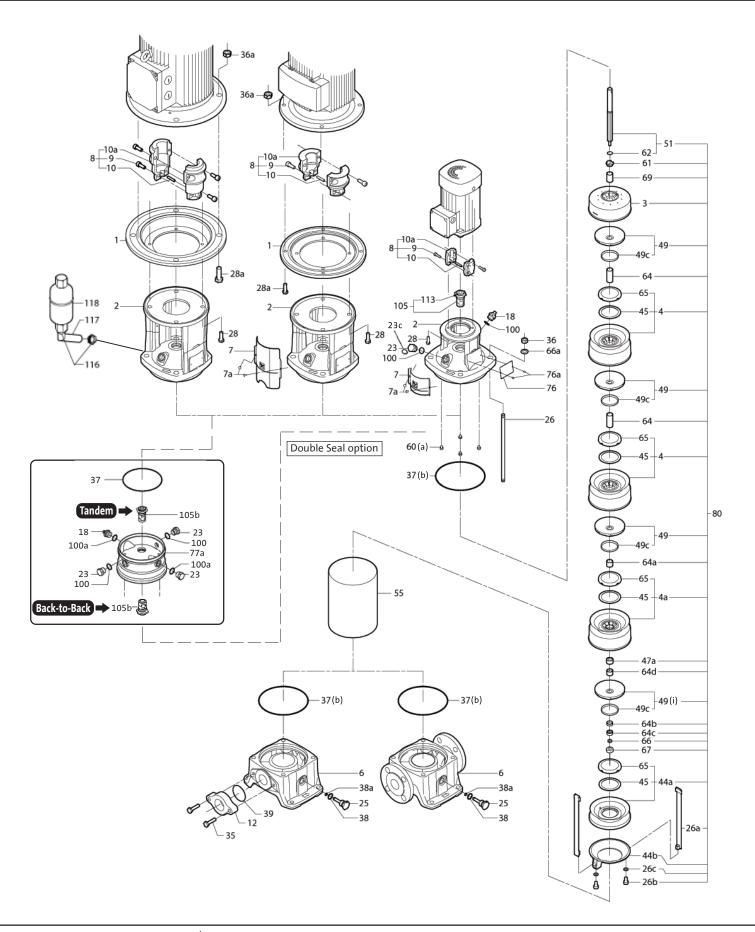


# CR15

**Parts List & Kits** 

## **Contents**

Parts List
Spare Part Kits
Accessories
Special Tools
Standard Tools
Tools for Torques



os. lo.	Part Description	Model	Stages	No. Used	Comments/Dimensions	B.O.M. Ref. No.	Material No.	Includ in kit
RTS	S LIST							
1	Adapter for Motor Stool		4-6	1	For NEMA, 213/215TC, 7.5 - 10HP	96476208		No
	·		7-10	1	For NEMA, F254TC, 15-20HP	96486329		No
			6-7	1	For IEC, F265, MG132, 5.5 - 7.5kW	96486323		No
2	Motor Stool		10-17 2/1	1	For IEC, F300, MG160, 8.0 - 18.5kW NEMA, 56C, .75 - 2.0HP	96486326 96486287		No No
-	Wotor Stool		2-3	1	NEMA, 182TC, Low, 3 -5Hp	96486305		No
			2-3	1	NEMA, 182TC, High, 3 -5Hp (option)	96486311		No
			4-6	1	Add pos. 1 for NEMA 213/215TC, 7.5-10HP	96486305		No
			4-6 7-10	1 1	Add pos. 1 NEMA 213/215TC, 7.5-10HP (High opt.) Add pos. 1 for NEMA 254/256TC, 15-20HP	96486311 96486311		No No
			12	1	NEMA, 284/286TSC, 25HP	96486293		No
				1	IEC, F85, MG 71, .3755kW	96486263		No
			2/1	1	IEC, F100, MG 80, .75 - 1.1kW	96486269		No
			2	1	IEC, F115, MG 90, 1.5 - 2.2kW	96486275		No
			3-5 6-7	1 1	IEC, F130, MG 100/112, 3.0 - 4.0 kW Add pos. 1 for IEC, F265, MG132, 5.5 - 7.5kW	96486281 96486305		No No
			10-17	1	Add pos. 1 for IEC, F300, MG160, 8.0 - 18.5kW	96486311		No
3	Chamber, Top, Complete with guide vane		2-17	*1	Slotted to accept Strap, pos. 26a	96487786		No
a	Chamber N, Top, without guide vane		2/1	*1	Slotted to accept Strap, pos. 26a	96491222		No
b 1	Chamber complete w/guide vane and nos 45 % 6	5	3-17 3-17	*1	PTFE pos. 45	330015		No No
ŧ a	Chamber complete w/guide vane and pos. 45 & 6! Chamber N Cpl. w/pos. 45 & 65 & Bearing	,	3-17 2/1-17	^^^	Silicon Carbide Brg, PTFE pos. 45	96475765 96475768		YES
_	Chamber N Cpl. w/pos. 45 & 65 & Brg. (option)		2/1-17	^^^	Graflon Bearing, PTFE pos. 45	96492510		YES
	Chamber N Cpl. w/pos. 45 & 65 & Brg. (option)		2/1-17	^^^^	Bronze Bearing, PTFE pos. 45	96492512		YES
5	Base		2/1-5	1	Oval 2.5" (max. 232 PSI), 50 Hz. to 7 stage.	96481486		No
7	Coupling Guard		2/1-17 2/1	2	JIS, DIN 50, ANSI (max. 362 PSI) IEC, F85-F100	96481495		No YES
	Coupling dualu		2/1	2	NEMA-56C; IEC-F115,130 3 to 5 stage	96491001		YES
			2-6	2	NEMA, 182-215TC (Low); IEC F115 - 265 to 7 stage	96490657		YES
			2-17	2	NEMA, 182-215TC (High),254TC-286TSC, IEC F300	96490656		YES
a	Screw for Coupling Guard		1-17	4	Screw comb. slot torx/straight slot 4 x 8mm	96488481		YES
)	Allen Screw		2/1 3-5	4	M6 x 20mm, Delta Seal M8 x 25mm, Delta SI. use with pos. 10a-480006 & 8	00ID7899 00ID7900		YES
			3-17	4	M10 x 25mm, Delta Seal	00ID7901		YES
0	Shaft Pin		2/1-17	1	ø5 x 26mm	310192	95061337	YES
)a	Coupling Half (machined set)		2/1	1	NEMA, 56C, 1/3 - 2HP. Ø15.9/ Ø16mm	96516777		YES
			2-3 2-3	1 1	NEMA, 182/184TC, 3-5HP. Ø28.6/Ø16mm (Std-Low) NEMA, 182/184TC, 3-5HP. Ø28.6/Ø16mm (Opt-High)	96516774 96516009		YES
			4-6	1	NEMA, 18271841C, 3-311F. #28.6/#1611111 (Opt-High) NEMA, 213TC, 7.5-10HP. #34.9/#1611111 (Opt-High)	96516775		YES
			4-6	1	NEMA, 213TC, 7.5-10HP. ø34.9/ø16mm (Opt-High)	96516770		YES
			7-10	1	NEMA, 254TC, 15-20HP. ø41.2/ø16mm (High)	96516771		YES
	Carrellin - Half		12	1	NEMA, 284/286TSC, 25HP. ø41.2/ø16mm	96516771		YES
	Coupling Half		2/1	2 2	IEC, F85, MG71, .3755kW. ø14/ø16mm IEC, F100, MG80,.75-1.1kW. ø19/ø16mm	480002 480004		YES
			2	2	IEC, F115, MG 90, 1.5-2.2kW. ¢24/¢16mm	480006		YES
			3-5	2	IEC, F130, MG100/112, 3-4 kW.ø28/ø16mm	480008		YES
	Coupling Half (machined set)		6-7	1	IEC, F265, MG132, 5.5-7.5kW. ø38/ø16mm	96516772		YES
2	Oval Flange		10-17 2/1-5	2	Painted CI, 2.5" -11.5 NPT (max 232 PSI)	96516008		YES No
_	Ovarriange		2/1-5	2	Painted CI, 2.5 -11.5 NPT (Max 252 PSI) Painted CI, 2.0" Option, 11.5 NPT (max 232 PSI)	96493578		No
	Oval Flange, 50 Hz. models		2/1-7	2	Painted CI, RP 2.0" BSP DIN (max 232 PSI)	96493574		No
			2/1-7	2	Painted CI, RP 2.5" Option, BSP DIN (max 232 PSI)	96493572		No
8	Priming/Vent Plug		2/1-17	*	G 1/2A, NV24 with NV9 x M8 stem	405150	95061351	YES
3	Plug Plug (option)		2/1-17 2/1-17	**	G 1/2A, w/1/4" NPT threaded port, NV24 G 1/2A, Solid no port, NV24	91120659 370025	95061733	YES
3c	Pipe Plug for Pos. 23 & 25 with hollow stem		2/1-17	**	1/4" NPT, SS SQHD	00ID7216	75501755	YES
5	Drain Plug without O-rings		2/1-17	1	G 1/2A, NV24 with solid stem	340375	95061431	YES
	Drain/Priming Plug Cpl. w/o-rings, opt. for gauge		2/1-17	1	G 1/2A, NV24 w/NV9 x M8 hollow stem, EPDM	96528436		No
			2/1-17 2/1-17	1 1	G 1/2A, NV24 w/NV9 x M8 hollow stem, FKM G 1/2A, NV24 w/NV9 x M8 hollow stem, FXM	96528437 96528439		No No
			2/1-17	1	G 1/2A, NV24 w/NV9 x M8 hollow stem, FXM	96528439		No.
5	Staybolt		2/1-2	4	M16 x 163mm	96492720		No
			3	4	M16 x 208mm	96492722		No
			4	4	M16 x 253mm	96492724		No
			5 6	4 4	M16 x 298mm M16 x 343mm	96492726 96492728		No No
			7	4	M16 x 388mm	96492728		No
			8	4	M16 x 433mm	96492731		No
			9	4	M16 x 478mm	96492732		No
			10	4	M16 x 523mm	96492734		No
			12 14	4 4	M16 x 613mm M16 x 703mm, 50 Hz.	96492737 96492739		No No
			14 17	4	M16 x 703mm, 50 Hz. M16 x 838mm, 50 Hz.	96492739		No No
					ch pump model uses the spare part.	30132171		140

GRUNDFOS 2

# Parts List & Kits CR15

os. No.	Part Description	Model	Stages	No. Used	Comments/Dimensions	B.O.M. Ref. No.	Material No.	Includ in kit
RT:	S LIST							
26	Staybolt (Back-to-Back & Tandem Seal option)		2/1-2	4	M16 x 253mm	96492724		No
			3	4	M16 x 298mm	96492726		No
			4	4	M16 x 343mm	96492728		No
			5	4	M16 x 388mm	96492730		No
			6	4	M16 x 433mm	96492731		No
			7	4	M16 x 478mm	96492732		No
			8 9	4	M16 x 523mm M16 x 568mm	96492734 96512270		No No
			10	4	M16 x 613mm	96492737		No
			12	4	M16 x 703mm	96492739		No
			14	4	M16 x 793mm, 50 Hz.	96512144		No
			17	4	M16 x 928mm, 50 Hz.	96512147		No
ā	Strap		2/1-2	2	L*= 93.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut1	96487759		No
			3	2	L*= 138.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487761		No
			4	2	L*= 183.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487763		No
			5	2	L*= 228.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487765		No
			6	2	L*= 273.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487767		No
			7	2	L*= 318.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487769		No
			8	2	L*= 363.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487770		No
			9	2	L*= 408.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487772		No No
			10 12	2 2	L*= 453.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut L*= 543.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487774 96487776		No No
			12 14: 50 Hz.	2	L*= 633.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487776		No No
			14: 50 Hz.	2	L*= 768.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut	96487782		No
ib	Bolt for pos. 26a		2/1-17	2	M8 x 25mm, 316 SS w/Delta Seal	96416603		No
5C	Washer for pos. 26b		2/1-17	2	A4, Ø16.0/Ø8.4x1.6mm	00ID3284		No
8	Motor Bolt		2/1	4	NEMA, 56C, 1/3 - 2HP. UNC 3/8" x 25mm	00ID1839		No
_			2-3	4	NEMA, 182/184TC, 3 - 5HP.UNC1/2" x 25mm	00ID1840		No
			4-6	4	NEMA, 213TC, 7.5 -10HP. JR 1/2" x 1.25" UNC	00ID0185		No
			7-10	4	NEMA, 254TC, 15-20HP. 1/2" x 2.5" UNC	96491112		No
			12	4	NEMA, 284TC, 25HP. UNC1/2" x 25mm	00ID1840		No
				4	IEC, F85, MG71, .3755kW. M6 x 20mm	00ID8022		No
			2/1	4	IEC, F100, MG80,.75-1.1kW. M6 x 25mm	00ID8023		No
			2	4	IEC, F115, MG 90, 1.5-2.2kW. M8 x 20mm	00ID8024		No
			3-5	4	IEC, F130, MG100/112, 3-4 kW. M8 x 25mm	00ID8025		No
			6-9	4	IEC, F265, MG132, 5.5-7.5kW. M12 x 25mm	00ID7915		No
			10-17	4	IEC, F300, MG160, 8.0 - 18.5kW. M12 x 25mm	00ID7915		No
3a	Motor Bolt		6-9	4	IEC, F265, MG132, 5.5-7.5kW. M12 x 30mm	00ID7904		No
_	11 15 6 0 15		10-17	4	IEC, F300, MG160, 8.0 - 18.5kW. M16 x 45mm	00ID7905		No
5	Hexagon Head Screw for Oval Flange		2/1-5	4	M16 x 55mm, Delta Seal	96433032		No
6	Staybolt Nut		2/1-17	4	24mm x M16, Delta Seal	00ID7908		No
5a 7	Nut for motor bolt IEC MG 160 models Sleeve O-ring		10-17 2/1-17	<b>4</b>	24mm x M16, Delta Seal EPDM, ø170.7 x 3.3mm	96483101		No YES
′	Sieeve O-IIIIg		2/1-17	**	FKM, Ø170.7 x 3.3mm	96483102		YES
7b	Sleeve O-ring (option)		2/1-17	**	FXM, Ø171.25 x 3.3mm	96483109		YES
	Sleeve O-ring (option)		2/1-17	**	FFKM, Ø170.7 x 3.3mm	96483140		YES
8	Drain Plug O-ring		2/1-17	1	EPDM, Ø16.3 x 2.4mm	00ID1288		YES
	8		2/1-17	1	FKM, Ø16.3 x 2.4mm	00ID2231		YES
	Drain Plug O-ring (option)		2/1-17	1	FXM, Ø16.3 x 2.4mm	96442869		YES
	Drain Plug O-ring (option)		2/1-17	1	FFKM, Ø16.3 x 2.4mm	96428162		YES
3a	Drain Plug O-ring		2/1-17	1	ø5.3 x 2.4mm, EPDM	00ID2142		YES
			2/1-17	1	ø5.3 x 2.4mm, FKM	00ID3945		YES
	Drain Plug O-ring (option)		2/1-17	1	ø5.3 x 2.4mm, FXM, black	96511292		YES
	Drain Plug O-ring (option)		2/1-17	1	ø5.3 x 2.4mm, FFKM	96511293		YES
9	O-ring for Oval Flange		2/1-5	2	ø90 x 3mm, EPDM	96496200		YES
	tulist consecutible and 45.0 cc		2/1-5	2	ø90 x 3mm, FKM	00ID2856		YES
la 16	Inlet upper with pos. 45 & 65		2/1-17	1		96489038		No
lc Ib	Inlet upper with pos. 45 & 65 (low NPSH option)		2-17	1 1		96491227		No No
lb_ 5	Inlet lower, machined Neck Ring		2/1-17 2/1-17		ø75.8 x ø59.95 x 1.5mm, PTFE-Acoflon 100	96496158		No YES
5	Neck Ring (low NPSH option)		2/1-17 2/1-17	# Imp	\$88.0 x \$\phi66.2 x 2.2mm, PTFE-Acoflon 215	96487400 290091		No.
'a			2/1-17	^^^^	SiC 150, \$\phi 23.4 \times \phi 17.6 \times \phi 15.0 \times 14mm	96482117		YES
u	Brg. Ring/Spacer (option for Graflon / Brz. 4a)		2/1-17	^^^	TC, \$\phi 21.9 \times \phi 17.6 \times \phi 15.0 \times 14mm	330085	95061371	YES
9	Impeller		2/1-17	# stgs-	ø104.8 x ø59.85 x 25.4mm (back-plate 1.5mm)	96476399	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	No
)c	Wear Ring N for Impeller 49		2/1-17		Ø59.85 x 7.4mm	330054		YES
c	Wear Ring N for low NPSH Impeller 49i		2/1-17	1	ø66.0 x 8.5mm	290049		No
9i	Impeller N (low NPSH option)		2-17	1	ø118.8 x ø66.0 x 32.2mm	96521444		No
1	Shaft, Complete		2/1-2	1	ø16 x 209.0mm, 431 SS	96490794		No
	·		3	1	ø16 x 249.0mm, 431 SS	96490798		No
			4	1	ø16 x 299.0mm, 431 SS	96490872		No
			5	1	ø16 x 339.0mm, 431 SS	96490876		No
			6	1	ø16 x 389.0mm, 431 SS	96490880		No
			7	1	ø16 x 429.0mm, 431 SS	96490884		No
			8	1	ø16 x 479.0mm, 431 SS	96490886		No
			9	1	ø16 x 519.0mm, 431 SS	96490888		No
			10	1	ø16 x 564.0mm, 431 SS	96490892		No
					ch pump model uses the spare part.	. , , ,		_

## Parts List & Kits CR15

os. No.	Part Description	Model	Stages	No. Used	Comments/Dimensions	B.O.M. Ref. No.	Material No.	in kits
ART:	S LIST							
51	Shaft, Cpl. (continued)		12	1	ø16 x 659.0mm, 431 SS	96490896		No
			14	1	ø16 x 744.0mm, 431 SS, 50 Hz.	96490910		No
			17	1	ø16 x 879.0mm, 431 SS, 50 Hz.	96490915		No
	Shaft, Cpl. (Back-to-Back & Tandem Seal option)		2/1-2 3	1 1	ø16 x 299.0mm, 329 SS	96507538		No
			4	1	ø16 x 339.0mm, 329 SS ø16 x 389.0mm, 329 SS	96507570		No No
			5	1	ø16 x 429.0mm, 329 SS	96507574		No
			6	1	ø16 x 479.0mm, 329 SS	96507576		No
			7	1	ø16 x 519.0mm, 329 SS	96507578		No
			8	1	ø16 x 569.0mm, 329 SS	96507579		No
			9 10	1 1	ø16 x 609.0mm, 329 SS ø16 x 654.0mm, 329 SS	96507580 96507582		No No
			12	1	ø16 x 749.0mm, 329 SS	96507584		No
			12	1	ø16 x 777.0mm, 329 SS (low NPSH option)	96551867		No
			14	1	ø16 x 834.0mm, 329 SS, 50 Hz.	96507586		No
			17	1	ø16 x 969.0mm, 329 SS, 50Hz.	96507588		No
			17	1	ø16 x 1014.0mm, 329SS (low NPSH option), 50 Hz.	96529710		No
55	Outer Sleeve		2/1-2	1	ø171.1/ ø170.7 x 104.0mm x 1.5mm, 304 SS	96489762		No
			3 4	1	ø171.1/ ø170.7 x 149.0mm x 1.5mm, 304 SS	96489764		No No
			5	1 1	ø171.1/ ø170.7 x 194.0mm x 1.5mm, 304 SS ø171.1/ ø170.7 x 239.0mm x 1.5mm, 304 SS	96489766		No No
			6	1	ø171.1/ ø170.7 x 284.0mm x 1.5mm, 304 SS	96489769		No
			7	1	ø171.1/ ø170.7 x 329.0mm x 1.5mm, 304 SS	96489771		No
			8	1	ø171.1/ ø170.7 x 374.0mm x 1.5mm, 304 SS	96489772		No
			9	1	ø171.1/ ø170.7 x 419.0mm x 2.0mm, 316 SS	96489857		No
			10	1	ø171.1/ ø170.7 x 464.0mm x 2.0mm, 316 SS	96489831		No
			12 14	1	ø171.1/ ø170.7 x 554.0mm x 2.0mm, 316 SS	96489833		No
			14 17	1 1	ø171.1/ ø170.7 x 644.0mm x 2.0mm,316SS, 50 Hz. ø171.1/ ø170.7 x 779.0mm x 2.0mm,316SS, 50 Hz.	96489835		No No
60	Stack Compression Spring		2/1-17	4	Ø11.0 x Ø7.0 x 15.5mm, EPDM	96503070		YES
00	stack compression spring		2/1-17	4	ø11.0 x ø7.0 x 15.5mm, FKM	96503072		YES
50a	Stack Compression Spring (option)		2/1-17	4	ø11.0 x ø7.0 x 15.5mm, PTFE	96503071		YES
61	Stop spacer		2/1-17	1	ø29.0 x ø18.4 x ø17.6 x ø15.0 x 9.5 x 2mm	330072	95061584	YES
62	Stop ring		2/1-17	1	Ø16.6 x Ø15.0 x 1.6mm	330057		YES
64	Spacing Pipe		3-17	^^^	ø21.5 x ø17.5 x 43.6mm	331407		No
54a	Spacing Pipe		2-17	^^^^	ø21.5 x ø17.5 x 17.0mm	331416		YES YES
54b 54c	Spacing Pipe Clamp, Splined		2-17 2/1-17	1	ø21.5 x ø17.5 x 5.0mm ø21.5 x ø17.6 x ø15.0 x 12.7mm	331401 96496311		YES
54d	Spacing Pipe		2/1-17	^^^^	Ø21.5 x Ø17.5 x 12.6mm	96491535		YES
54e	Spacing Pipe (low NPSH option only)		2-17	^ +	φ21.5 x φ17.5 x 8.0mm	331411		No
54f	Spacing Pipe (low NPSH option only)		2/1	^ _	ø21.5 x ø17.5 x 18.0mm	96491536		No
54g	Spacing Pipe (de-staging 2 impellers option only)		3-17	1 per	ø21.5 x ø17.5 x 45.0mm (use with 3b only)	331408		No
<b>.</b>	N. J. Div D. t- iv		2/1 17	de-stg.	470.0 461.5 6.7	220050		VEC
65	Neck Ring Retainer Neck Ring Retainer (low NPSH option)		2/1-17 2-17	# stgs-	ø78.8 x ø61.5 x 6.7mm ø84.5 x ø67.8 x 4.6mm	330059 290059		YES YES
66	Lock Washer Set for Shaft		2/1-17	1	Ø13.5 x Ø8.2 x 2.6mm	96417297		YES
66a	Washer for Staybolt		2/1-17	4	DIN 125A, ø30 x ø17 x 2.5mm, Delta Seal	96430378		No
67	Lock Nut for Shaft		2/1-17	1	13mm x M8	96496488		YES
69	Spacing Pipe		2-17	$\Theta$	ø27.5 x ø17.5 x 27.5mm	96491537		No
59a	Spacing Pipe (de-staging option only)		2/1	1	ø21.5 x ø17.5 x 29.05mm (use with 3a only)	331404	95061499	No
76	Nameplate  Rivet for Nameplate		2/1-17 2/1-17	1 2	30455, 60 x 45mm	96563333 96022882		No
76a 77a	Rivet for Nameplate Pump Head Cover for Tandem Seal		2/1-17	1	304SS, ø3 x 5mm Cast Stainless	96505487		No No
ı a	Pump Head Cover for Back-to-Back		2/1-17	1	Cast Stainless	96505488		No No
.00	Priming/Vent Plug O-ring		2/1-17	•	EPDM, Ø16.3 x 2.4mm	00ID1288		YES
			2/1-17		FKM, ø16.3 x 2.4mm	00ID2231		YES
00a	Priming/Vent Plug O-ring (option)		2/1-17		FFKM, Ø16.3 x 2.4mm	96428162		YES
-/1.\	Priming/Vent Plug O-ring (option)		2/1-17	***	FXM, Ø16.3 x 2.4mm	96442869		YES
5(b)	Shaft Seal HQBE Shaft Seal HQBV		2/1-17 2/1-17	***	SiC, Carbon with resin-impregnated, EPDM SiC, Carbon with resin-impregnated, FKM	96484076 96484077		YES YES
	Shaft Seal HQQE		2/1-17	***	SiC, SiC, EPDM	96484071		YES
	Shaft Seal HQQV		2/1-17	***	SiC, SiC, FKM	96484072		YES
	Shaft Seal HOOF (option)		2/1-17	***	SiC, SiC, FXM	96484075		YES
	Shaft Seal HQQK (option)		2/1-17	***	SiC, SiC, FFKM	96484074		YES
	Shaft Seal HUBE		2/1-17	***	TC, Carbon with resin-impregnated, EPDM	96483952		YES
	Shaft Seal HUBF (antion)		2/1-17	***	TC, Carbon with resin-impregnated, FKM	96483964		YES
	Shaft Seal HUBF (option) Shaft Seal HUBK (option)		2/1-17 2/1-17	***	TC, Carbon with resin-impregnated, FXM TC, Carbon with resin-impregnated, FFKM	96483966 96483965		YES YES
	Shaft Seal HUUE		2/1-17	***	TC, TC, EPDM	96483967		YES
	Shaft Seal HUUV		2/1-17	***	TC, TC, FKM	96483968		YES
	Shaft Seal HUUF (option)		2/1-17	***	TC, TC, FXM	96484070		YES
	Shaft Seal HUUK (option)		2/1-17	***	TC, TC, FFKM	96483969		YES
.16	Counter Nut for Pipe 117		2/1-17	2	NV24, internal G1/2, 316SS	96506709		YES
L17	Air Vent Pipe for 118		2/1-6	1	G1/2, 316SS, 56C-213TC .33-10HP; .37 to 7.5 kW	330272		YES
110	AtaMant		7-12	1	G1/2, 254TC - 286TSC 15-25HP., 11.0 to 18.5kW	96521537		YES
10	Air Vent		2/1-17	1	Air vent type 1511-AV - 5/6430	96427483		YES

## Parts List & Kits CR15

#### **NOTES:**

The first number is total number of stages.
The second number behind the slash (/) equals the number of impellers

#### Example: a CR15-2/1 has 2 chambers and 1 impeller (de-staged by 1).

\* 1 2 to 17 stage use position 3 2 /1 stage use position 3a

De-staging by two impellers use one 3a and one 3b

^^^ 2/1 and 2 stage = use 0 3 to 6 stage = # of stages less 2 7 to 10 stage = # of stages less 3 12 to 17 stage = # of stages less 4

De-staging by two impellers use 1 less than stated above

^^^^ 2/1 to 6 stage = use 1 7 to 10 stage = use 2 12 to 17 stage = use 3

^^^^ 2/1-2, 4, 6, 8, and 12 stage = use 1

Exception to the above: low NPSH models
2, 4, 6, 8, 9 to 17 stage = use 1
3, 5 and 7 stage = use 2

^^^^^ 2/1 to 6 stage = use 1
7 to 10 stage = use 2
12 to 17 stage = use 3
Exception to the above: low NPSH models
2 to 6 stage = use 0
7 to 10 stage = use 1
12 to 17 stage = use 2

+ NPSH Models only

3, 6, 8, 9, & 17 stage = use 1 2, 4, 6, 10, 12 & 14 stage = use 2

^ - NPSH Models only

3, 6, 8, 9, & 17 stage = use 1

- \* 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
- ⊖ Standard use 1. CR(I,N)15-2/1 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,
- 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

...... Diameter

ANSI ...... American National Standards Institute

CPL ...... Complete Assembly – these parts consist of more than one component

**EPDM** ...... Ethylene Propylene (also known as EPR and EPT) – an elastic

substance similar to rubber

FFKM ...... Kalrez Elastomer made by DuPont
FKM ...... Fluoro Elastomer (generic for Viton)
FXM ...... Fluoraz Elastomer made by Greene Tweed

IEC ...... International Electro-technical Commission (European standards)

M ...... International standard thread size designation (thread diameter in mm)

mm ...... Millimeter

MG ...... Identifies Grundfos motor type/size
N Stamp code for 316 SS or similar

NBR ...... Buna - N (also known as Nitrile) – an elastic substance similar to rubber

NEMA ...... National Electrical Manufacturers Association

NPSH ...... Net Positive Suction Head

PTFE ...... Teflon
SiC ...... Silicon Carbide
SS ...... Stainless Steel
TC ...... Tungsten Carbide

**UNC** ...... Unified National Coarse – a standard for threads on bolts

#### SPARE PART KITS

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

CR(I, N)15 SiC	Bearing			_	
WEAR PARTS	KIT 1-6	Kit No.	96511824		
WEAR PARTS	KIT 7-10	Kit No.		96511827	
WEAR PARTS	KIT 12-17	Kit No.			96511830
Pos. No.	Description	Material No.	Qty. Ir	nduded in eac	h Kit
4a	Chamber N Cpl. w/Pos.45 & 65 & SiC Bearing	96475768	1	2	3
26b	Bolt for strap, M8 x 25mm, 316 SSw/Delta Seal	96416603	2	2	2
26c	Washer for strap, A4, ø16.0/ø8.4x1.6mm	00ID3284	2	2	2
45	Neck Ring, ø75.8 x ø59.95 x 1.5mm, PTFE-Acoflon 100	96487400	5	8	14
47a	Bearing Ring/Spacer, SiC 150, ø23.4 x 14mm	96482117	1	2	3
49c	Wear Ring, N, ø59.85 x 7.4mm	330054	6	10	17
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 17.0mm	331416	1	2	3
64b	Clamp, Splined, ø21.5 x ø17.6 x ø15.0 x 5.0mm	331401	1	1	1
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 12.6mm	96491535	1	2	3
65	Neck Ring Retainer, N, ø78.8 x ø61.5 x 6.7mm	330059	5	8	14
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

STAC	KKITS (SiC) Pos.80
Model	Material No.
CR15-2/1	96508453
CR15-2	96508454
CR15-3	96508455
CR15-4	96508456
CR15-5	96508457
CR15-6	96508458
CR15-7	96508459
CR15-8	96508490
CR15-9	96508491
CR15-10	96508492
CR15-12	96508493
* CR15-14	96508494
* CR15-17	96508495
***For 50 Hz	peration only.

CR(I, N)15 Gra	aflon Bearing				
WEAR PARTS	KIT1-6	Kit No.	96511826	l	
WEAR PARTS	KIT 7-10	Kit No.		96511829	
WEAR PARTS	KIT 12-17	Kit No.			96511832
Pos. No.	Description	Material No.	Qty. In	nduded in ead	h Kit
4a	Chamber N Cpl. w/Pos.45 & 65 & Graflon Bearing	96492510	1	2	3
26b	Bolt for strap, M8 x 25mm, 316 SSw/Delta Seal	96416603	2	2	2
26c	Washer for strap, A4, ø16.0/ø8.4x1.6mm	00ID3284	2	2	2
45	Neck Ring, ø75.8 x ø59.95 x 1.5mm, PTFE-Acoflon 100	96487400	5	8	14
47a	Bearing Ring/Spacer, TC, ø21.9 x ø17.6 x ø15.0 x 14mm	330085	1	2	3
49c	Wear Ring, N, ø59.85 x 7.4mm	330054	6	10	17
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 17.0mm	331416	1	2	3
64b	Clamp, Splined, ø21.5 x ø17.6 x ø15.0 x 5.0mm	331401	1	1	1
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 12.6mm	96491535	1	2	3
65	Neck Ring Retainer, N, ø78.8 x ø61.5 x 6.7mm	330059	5	8	14
66	Lock Washer Set of 2, ø13.5 x ø8.2 x 2.6mm	96417297	1	1	1
67	Lock Nut 13mm v M8	06/06/88	1 1	-1	1

CR(I, N)15 Br	onze Bearing				
WEAR PARTS	SKIT 1-6	Kit No.	96511825		
WEAR PARTS	SKIT 7-10	Kit No.	96511828		
WEAR PARTS	SKIT 12-17	Kit No.			96511831
Pos. No.	Description	Material No.	Qty. Ir	ncluded in eac	h Kit
4a	Chamber N Cpl. w/Pos.45 & 65 & Bronze Bearing	96492512	1	2	3
26b	Bolt for strap, M8 x 25mm, 316 SSw/Delta Seal	96416603	2	2	2
26c	Washer for strap, A4, ø16.0/ø8.4x1.6mm	00ID3284	2	2	2
45	Neck Ring, ø75.8 x ø59.95 x 1.5mm, PTFE-Acoflon 100	96487400	5	8	14
47a	Bearing Ring/Spacer, TC, ø21.9 x ø17.6 x ø15.0 x 14mm	330085	1	2	3
49c	Wear Ring, N, ø59.85 x 7.4mm	330054	6	10	17
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 17.0mm	331416	1	2	3
64b	Clamp, Splined, ø21.5 x ø17.6 x ø15.0 x 5.0mm	331401	1	1	1
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 12.6mm	96491535	1	2	3
65	Neck Ring Retainer, N, ø78.8 x ø61.5 x 6.7mm	330059	5	8	14
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

GASKET KIT (	EPDM)	Kit No.	96509609		_					
GASKET KIT (	FKM)	Kit No.		96509610		_				
GASKET KIT (		Kit No.			96534871		_			
GASKET KIT (	FFKM)	Kit No.				96533374		_		
GASKET KIT (	EPDM)-Double Seal option.	Kit No.					96525433			
GASKET KIT (	FKM)-Double Seal option.	Kit No.						96525434		_
GASKET KIT (	FFKM/EPDM)-Double Seal option.	Kit No.							96525435	
GASKET KIT (	FFKM/FKM)-Double Seal option.	Kit No.								96525436
Pos. No.	Description	Material No.				Qty. Included	l in each Kit			
37	Sleeve O-ring, EPDM (WRC NSF), ø170.7 x 3.3mm	96483101	2				3		1	
	Sleeve O-ring, FKM, ø170.7 x 3.3mm	96483102		2				3		1
37b	Seeve O-ring, FXM, ø171.25 x 3.3mm	96483109			2					
l	Sleeve O-ring, FFKM, ø170.7 x 3.3mm	96483140	L			2			2	2
38, 100(a,b)	Drain Plug O-ring, EPDM, Ø16.3 x 2.4mm	00ID1288	3				7		4	
	Drain Plug O-ring, FKM, Ø16.3 x 2.4mm	00ID2231		3				7		4
	Drain Plug O-ring, FXM, ø16.3 x 2.4mm	96442869			3					
	Drain Plug O-ring, FFKM, ø16.3 x 2.4mm	96428162	L			3			3	3
38a	Drain Plug O-ring, EPDM, ø5.3 x 2.4mm	00ID2142	1				1			
	Drain Plug O-ring, FKM, ø5.3 x 2.4mm	00ID3945						1		
	Drain Plug O-ring, FXM, ø5.3 x 2.4mm	96511292			1					
L	Drain Plug O-ring, FFKM, ø5.3 x 2.4mm	96511293	L			1			1	1
39	Hange O-ring, EPDM, ø90 x 3mm	96496200	2				2			
	Flange O-ring, FKM, ø90 x 3mm	00ID2856		2				2		
	Flange gasket, Fiber, 122mm x ø60 x ø44 x 2mm	420039	2	2	2	2	2	2	2	2
	Flange gasket, Fiber, ø102 x ø65 x 2mm	330035	2	2	2	2	2	2	2	2
l	Flange gasket, Fiber, ø92 x ø49 x 2mm	00ID2582	2	2	2	2	2	2	2	2
60	Stack Compression Spring, EPDM, ø11.0xø7.0x15.5mm	96503070	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

# Spare Part Kits **CR15**

#### **SPARE PART KITS** (Continued)

(Maximum a	SEAL KIT, BALANCED CARTRIDGE illowed working PSI is 435) al option Pumps require 2 of each Seal Kit)	Kit No. Kit No. Kit No. Kit No. Kit No. Kit No.	96511848	96511849	96511844	96511847	96511846	96511845
Pos. No.	Description	Material No.			Qty. Included	l in each Kit		
105	HQBE	96484076*	1					
	HQBV	96484077*		1				
	HQQE	96484071*			1			
	HQQF	96484075*				1		
	HQQK	96484074*					1	
	HQQV	96484072*		L	<u> </u>	<u> </u>		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

<sup>\*</sup> Seal material number includes the Adjusting fork 96483950.

	SEAL KIT, BALANCED CARTRIDGE wed working PSI is 435) I option Pumps require 2 of each Seal Kit)	Kit No.							96511842	96511841
Pos. No.	Description	Material No.				Qty. Included	l in each Kit			30311041
105	HUBE	96483952*	1							
	HUBF	96483966*		1						
	HUBK	96483965*			1					
	HUBV	96483964*			L	1				
	HUUE	96483967*					1			
	HUUF	96484070*						1		
	HUUK	96483969*							1	
	HUUV	96483968*	l		L	<u> </u>		l	<b></b>	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

<sup>\*</sup> Seal material number includes the Adjusting fork 96483950.

IEC COUPLING	ЭИТ			-				
	ø14/ø16	Kit No.	96511315		-			
	ø19/ø16	Kit No.		96511317				
	ø24/ø16	Kit No.			96511319			
	ø28/ø16	Kit No.				96511350		
	ø38/ø16	Kit No.					96511351	
	ø42/ø16	Kit No.						96511352
Pos. No.	Description	Material No.			Qty. Included	l in each Kit		
9	Allen Screw, M6 x 20mm, Delta Seal	00ID7899	4	4				
	Allen Screw, M8 x 25mm, Delta Seal	00ID7900			4	4		
	Allen Screw, M10 x 25mm, Delta Seal	00ID7901	l				4	4
10	Shaft Pin, ø5 x 26mm, Stainless	310192	1	1	1	1	1	1
10a	Coupling Half, F85, MG71, .3755kW. ø14/ø16	480002	2					
	Coupling Half, F100, MG80,.75-1.1kW. ø19/ø16	480004		2				
	Coupling Half, F115, MG 90, 1.5-2.2kW. ø24/ø16	480006			2			
	Coupling Half, F130, MG100/112, 3.0-4.0 kW.ø28/ø16	480008				2		
I	Coupling mach. set, F265, MG132, 5.5-7.5kW. ø38/ø16	96516772					1	
	Coupling mach.set, F300 MG160, 11.0-18.5kW.ø42/ø16	96516008						1
N/A	Adjusting Fork	96483950	1	1	1	1	1	1

NEMA COUP	LING KIT							
	ø15.9/ø16	Kit No.	96511353		-			
	ø28.6/ø16 (Standard- Low)	Kit No.		96511354		-		
	ø28.6/ø16 (Option- High)	Kit No.			96753660			
	ø34.9/ø16 (Standard-Low)	Kit No.				96511355		•
	ø34.9/ø16 (Option- High)	Kit No.					96753661	
	ø41.3/ø16	Kit No.						96511356
Pos. No.	Description	Material No.			Qty. Included	l in each Kit		
9	Allen Screw, M6 x 20mm, Delta Seal	00ID7899	4					
	Allen Screw, M10 x 25mm, Delta Seal	00ID7901		4	4	4	4	4
10	Shaft Pin, ø5 x 26mm, Stainless	310192	1	1	1	1	1	1
10a	Coupling. Half set, 56C, 1/3 - 2HP. ø15.8 / ø16	96516777	1					
	Cplg. Half set, 182/184TC, 3-5HP, stdlow, ø28.5/ø16	96516774		1				
	Cplg. Half set, 182/184TC, 3-5HP, opthigh, ø28.5/ø16	96516009			1			
	Oplg. Half set, 213TC, 7.5-10HP, std.low, ø34.9/ø16	96472175				1		
	Cplg. Half set, 213TC, 7.5-10HP, opthigh, ø34.9/ø16	96516770					1	
	Colg. Half set, 254TC-284/286TSC,15-25HP. ø41.2/ø16	96516771			<u> </u>	<u> </u>		1
N/A	Adjusting Fork	96483950	1	1		1		1

COUPLING GL	JARD KIT					1		
IEC, F85-F100	, .37 to 1.1 kW			Kit No.	96509611		_	
NEMA 56C, 1/	3-2HP; IEC-F115-130, 1.5-4	4.0kW		Kit No.		96509612		_
NEM A 182-215TC (Low)3-10HP; IEC F115 - 265, 1.5-4.0kW				Kit No.			96509613	
NEMA 182-21	5TC (High) & 254TC-286TS	SC, 3 -25HP. IEC F300, 11-18.5kW		Kit No.				96509614
Pos. No.		Description		Material No.	Qty. Included in each Kit			
7	Coupling Guard, W=127m	ım x H=70mm		96491001	2			
	Coupling Guard, W=127m	ım x H=90.5mm		96491002		2		
	Coupling Guard, W=157m	ım x H=125mm		96490657			2	
	Coupling Guard, W=157m	m x H=171mm		96490656				2
	Screw comb.slot torx/stra			96488481	4	4	4	4
		·	· ·					

## SPARE PART KITS (Continued)

		Kit No.	96511313
Pos. No.	Description	Material No.	Qty. Included in each Kit
18	Priming/Vent Plug, G 1/2A, NV24 with NV9 x M8 stem	405150	1
23	G 1/2A, w/1/4" NPT threaded port, NV24	91120659	1
23c	1/4" NPT,SS SQHD	00ID7216	1
25	Drain Plug-solid stem, without O-rings, G 1/2A, NV24	340375	1
38	O-ring, EPDM, Ø16.3 x 2.4mm	00ID1288	1
	O-ring, FKM, Ø16.3 x 2.4mm	00ID2231	1
38a	Drain Plug O-ring, EPDM, ø5.3 x 2.4mm	00ID2142	1
	Drain Plug O-ring, FKM, ø5.3 x 2.4mm	00ID3945	1
100	O-ring, EPDM, Ø16.3 x 2.4mm	00ID1288	2
	O-ring, FKM, Ø16.3 x 2.4mm	00ID2231	2

Air Vent Kit				_
56Cto 213TC	.33-10HP; .37 to 7.5 kW	Kit No.	91136564	
254TCto 286	TSC15-25HP; 11.0 to 18.5kW	Kit No.		91136565
Pos. No.	Description	Material No.	Qty. Included in each Kit	
116	Counter Nut for Pipe 117, G1/2	96506709	2	2
117	Air Vent Pipe for 118, G1/2, 150x90	330272	1	
	Air Vent Pipe for 118, G1/2, 185x90	96521537		1
118	Air vent type 1511-AV - 5/6430	96427483	1	1

## **ACCESSORIES**

ANSI COM PA	ANION FLANGES FOR MEDIUM CR		
2" Threaded Cast Iron, 250 Lb. Class		Kit No.	335021
Pos. No. Description		Material No.	Qty. Included in each Kit
N/A	Nut, HEX 5/8"-11 UNC, Grade 2	00ID1510	16
N/A	Plain Bolt, 5/8" -11 x 3", Grade 2	00ID1921	16
N/A	Flange, Cast Iron, 2" NPT	00ID2743	2
N/A	Gasket - Flange, 2", 250#, Cut Ring	00ID2747	2

# Spare Part Kits • Special Tools **CR15**

#### **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	<b>Torque Wrench</b> Used to torque various screws. 4-20 Nm, 9 x 12 20-100 Nm, 9 x 12 40-200 Nm, 14x18	
00SV0438	<b>Torque Screwdriver</b> 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.	





www.grundfos.com

Subject to alterations.

GRUNDFOS X