

Date:

16/02/2019

## Qty. | Description

1

CRN 15-10 A-P-A-E-HQQE



Product No.: 96501955

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in high-grade stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via PJE (Victaulic®) couplings.

The pump is fitted with a 3-phase, fan-cooled asynchronous motor.

### Further product details

Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An integral part of the process is a pretreatment. The entire process consists of these elements:

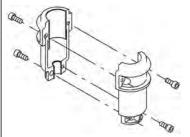
1) Alkaline-based cleaning.

- 2) Zinc phosphating.
- 3) Cathodic electro-deposition.
- 4) Curing to a dry film thickness 18-22 my m.

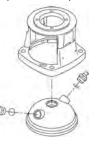
The colour code for the finished product is NCS 9000/RAL 9005.

### Pump

A long split coupling connects the pump and motor shaft. It is enclosed in the motor stool by means of two coupling guards. The long coupling makes it possible to replace the shaft seal without removing the motor from the pump.



The pump head and flange for motor mounting is made in one piece (cast iron). The pump head cover is a separate component (stainless steel). The pump head has a combined 1/2" priming plug and vent screw.





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The pump is fitted with a balanced O-ring seal unit with a rigid torque-transmission system. This seal type is assembled in a cartridge unit which makes replacement safe and easy. Due to the balancing, this seal type is suitable for high-pressure applications. The cartridge construction also protects the pump shaft from possible wear from a dynamic O-ring between pump shaft and shaft seal.

Primary seal:

- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Secondary seal material: EPDM (ethylene-propylene rubber)

EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



The shaft seal is screwed into the pump head.

The chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PTFE neck ring offering improved sealing and high efficiency. The impellers have smooth surfaces, and the shape of the blades ensure a high efficiency.

The pump has a stainless-steel base mounted on a separate base plate. The base and base plate are kept in position by the tension of the staybolts which hold the pump together. The outlet side of the base has a drain plug. The pump is secured to the foundation by four bolts through the base plate. The base is prepared for connection by means of PJE (Victualic®) couplings.



### Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with free-hole flange (FF).

Motor-mounting designation in accordance with IEC 60034-7: IM B 5 (Code I) / IM 3001 (Code II). Electrical tolerances comply with IEC 60034.

The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.

The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations.

The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.

## **Technical data**

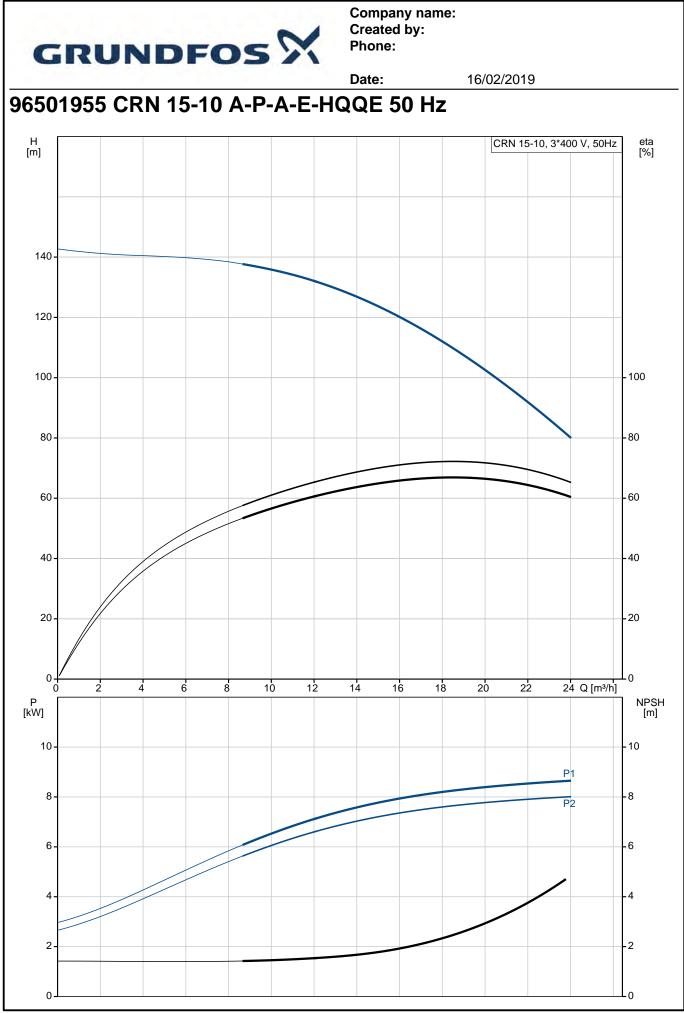
Controls: Frequency converter: NONE



-	Description			
	Liquid:			
	Pumped liquid:	Water		
	Liquid temperature range:	-20 120 °C		
	Liquid temperature during opera			
	Density:	998.2 kg/m <sup>3</sup>		
	201000	0001 <u> </u>		
	Technical:			
	Pump speed on which pump dat	a are based: 2924 i	rpm	
	Rated flow:	17 m³/h		
	Rated head:	113.5 m		
	Pump orientation:	Vertical		
	Shaft seal arrangement:	Single		
	Code for shaft seal:	HQQE		
	Approvals on nameplate:	CE, EAC,ACS		
	Curve tolerance:	ISO9906:2012 3B		
		1000000.2012 00		
	Materials:			
	Base:	Stainless steel		
		EN 1.4408		
		AISI 316		
	Impeller:	Stainless steel		
		EN 1.4401		
		AISI 316		
	Bearing:	SIC		
	Installation:			
	Maximum ambient temperature:			
	Maximum operating pressure:	25 bar		
	Max pressure at stated temp:	25 bar / 120 °C		
		25 bar / -20 °C		
	Type of connection:	PJE		
	Size of inlet connection:	DN 50		
		2 inch		
	Size of outlet connection:	DN 50		
		2 inch		
	Pressure rating for pipe connect			
	Flange size for motor:	FF300		
	Electrical data:			
	Motor standard:	IEC		
	Motor type:	160MB		
	IE Efficiency class:	IE3		
	Rated power - P2:	11 kW		
	Power (P2) required by pump:	11 kW		
	Mains frequency:	50 Hz		
	Rated voltage:	3 x 380-415D/660-6		
	Rated current:	20,8-19,8/12,0-11,8	A	
	Starting current:	660-780 %		
	Cos phi - power factor:	0.88-0.84		
	Rated speed:	2940-2950 rpm		
	Efficiency:	IE3 91,2%		
	Motor efficiency at full load:	91.2-91.2 %		
	Motor efficiency at 3/4 load:	91.8 %		
	Motor efficiency at 1/2 load:	91.3 %		
	Number of poles:	2		
	Enclosure class (IEC 34-5):	55 Dust/Jetting		
		F		
	Insulation class (IEC 85):	1		

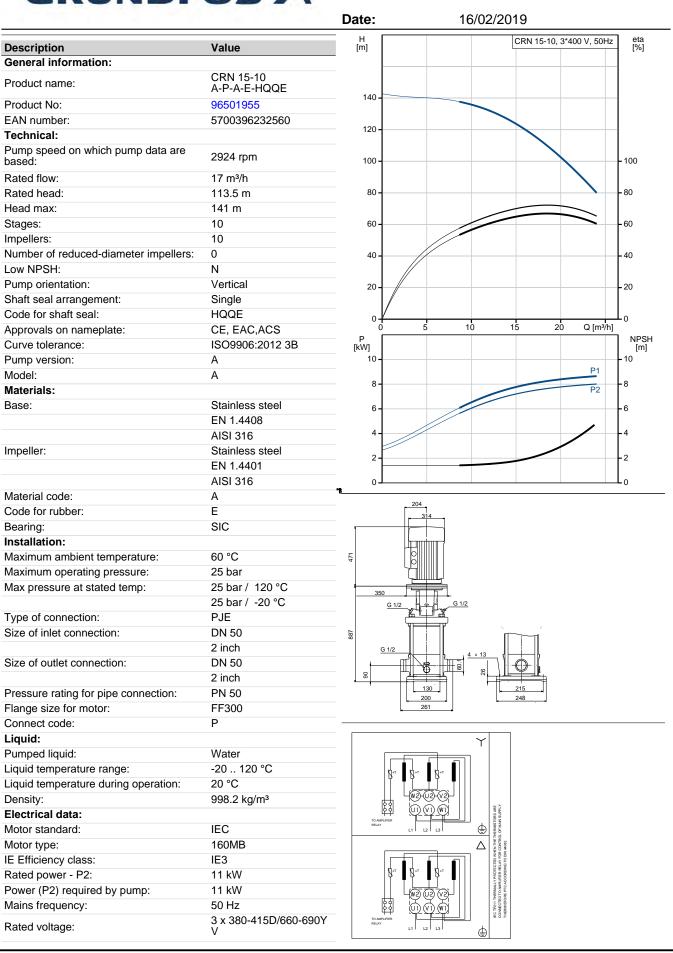


			Date:	16/02/2019	
Qty.	Description				
	Minimum efficiency index	, MEI ≥: 0.70			
	Net weight:	142 kg			
	Gross weight:	170 kg			
	Shipping volume:	0.488 m³			
	Danish VVS No.:	385914100			



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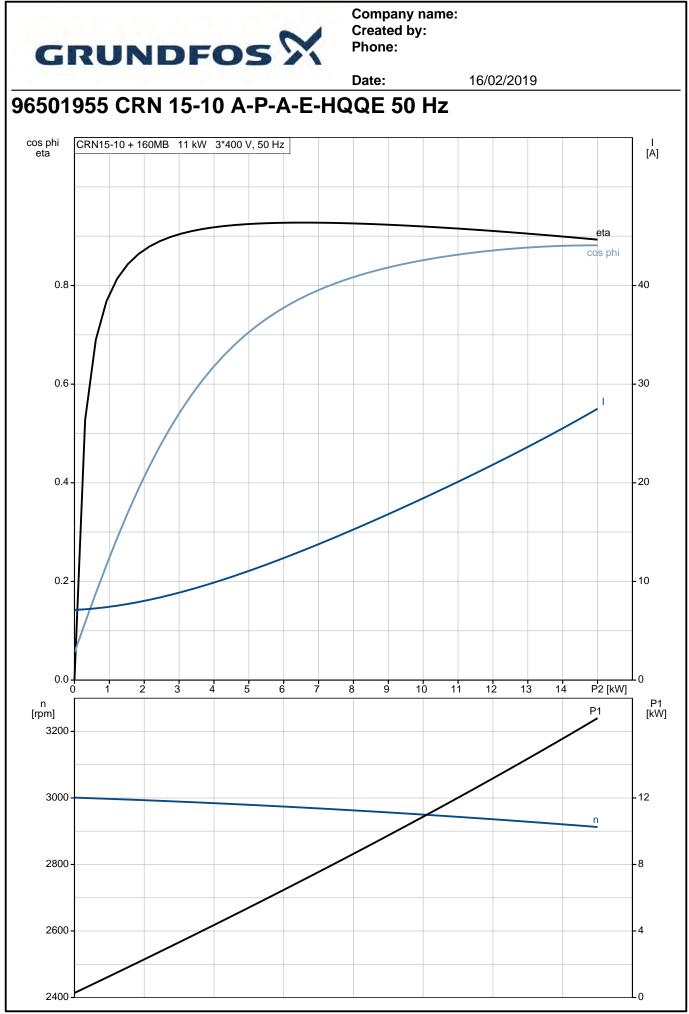


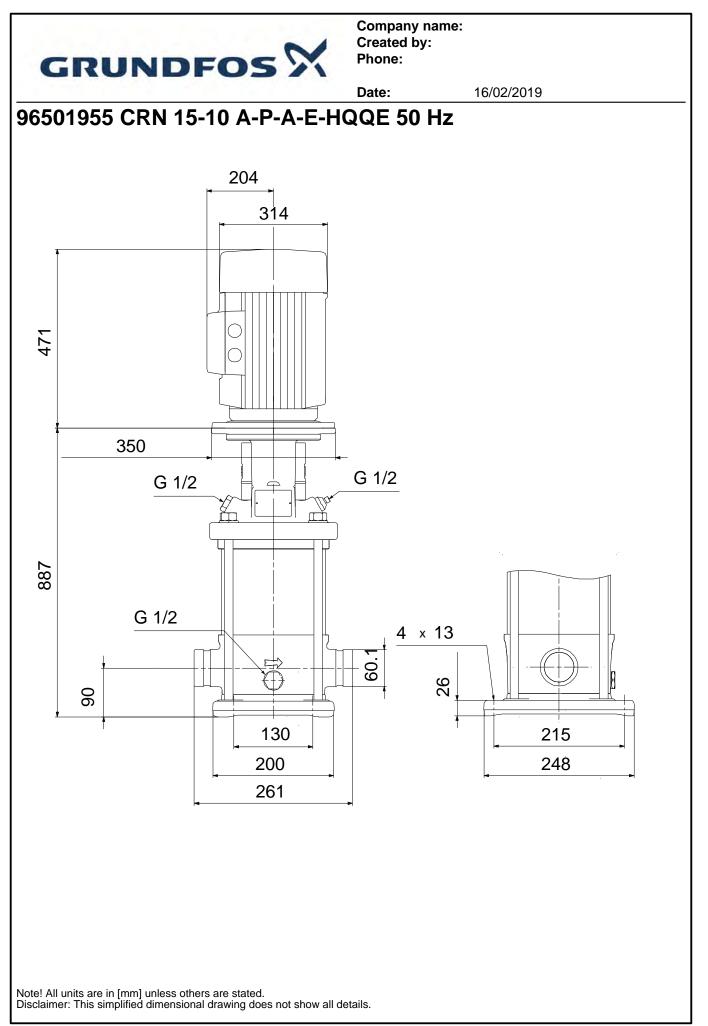


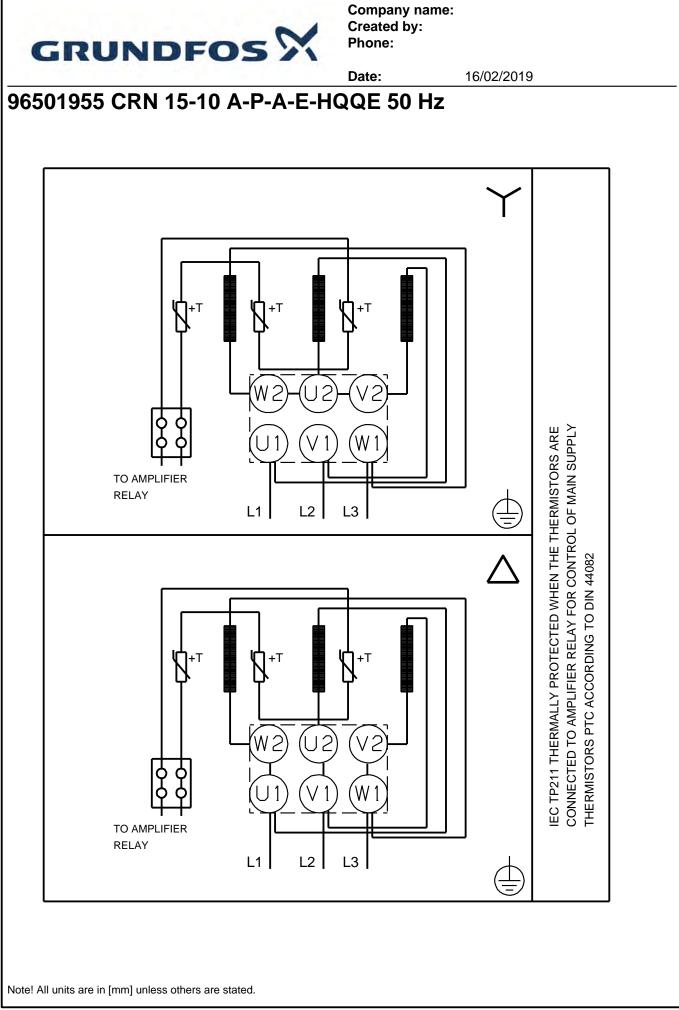
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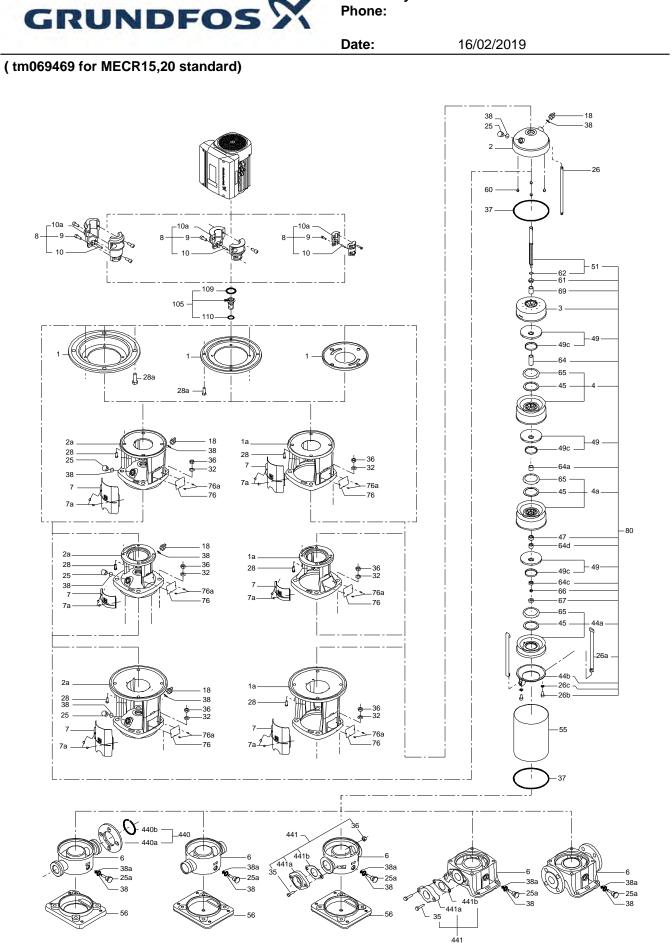
		Date:	16/02/2019
Description	Value		
Rated current:	20,8-19,8/12,0-11,8 A	_	
Starting current:	660-780 %		
Cos phi - power factor:	0.88-0.84		
Rated speed:	2940-2950 rpm		
Efficiency:	IE3 91,2%		
Motor efficiency at full load:	91.2-91.2 %		
Motor efficiency at 3/4 load:	91.8 %		
Motor efficiency at 1/2 load:	91.3 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	55 Dust/Jetting		
Insulation class (IEC 85):	F		
Motor protec:	PTC		
Motor No:	85U17524		
Controls:			
Frequency converter:	NONE		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	142 kg		
Gross weight:	170 kg		
Shipping volume:	0.488 m³		
Danish VVS No.:	385914100		

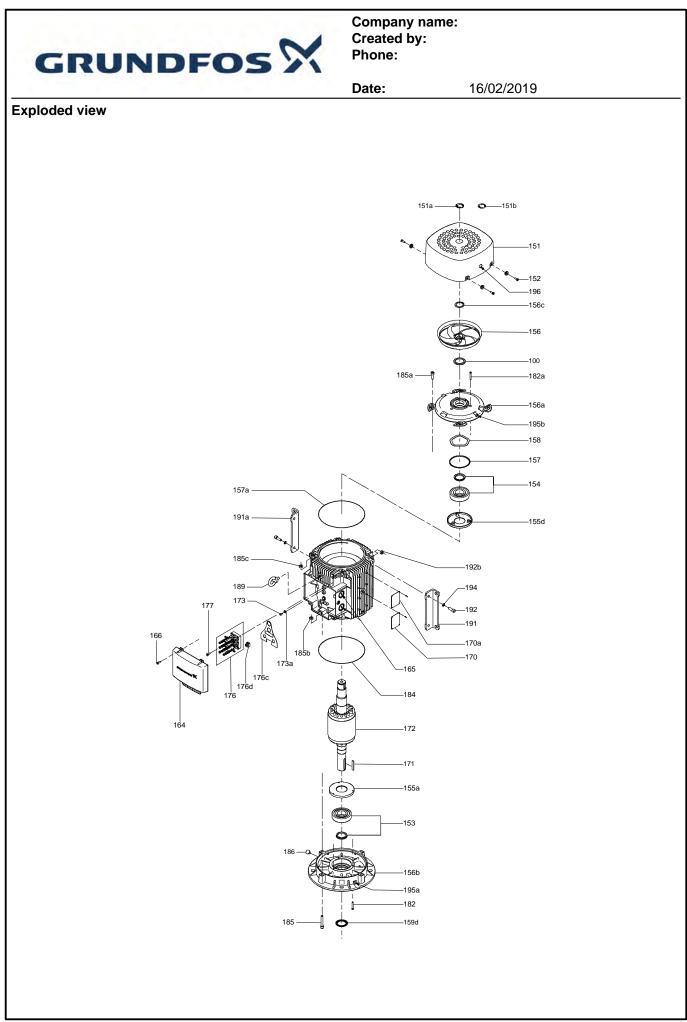




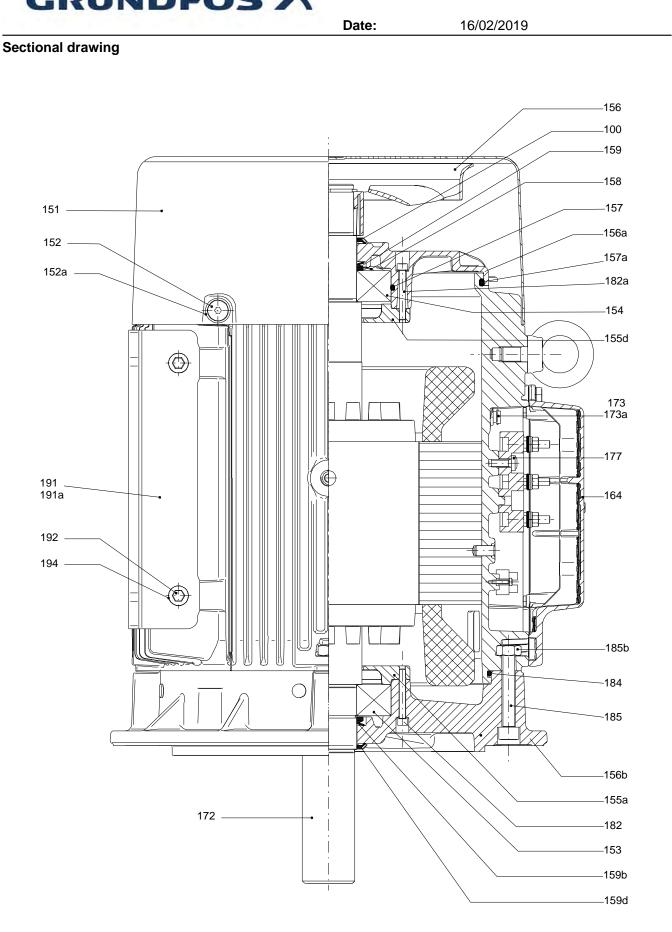


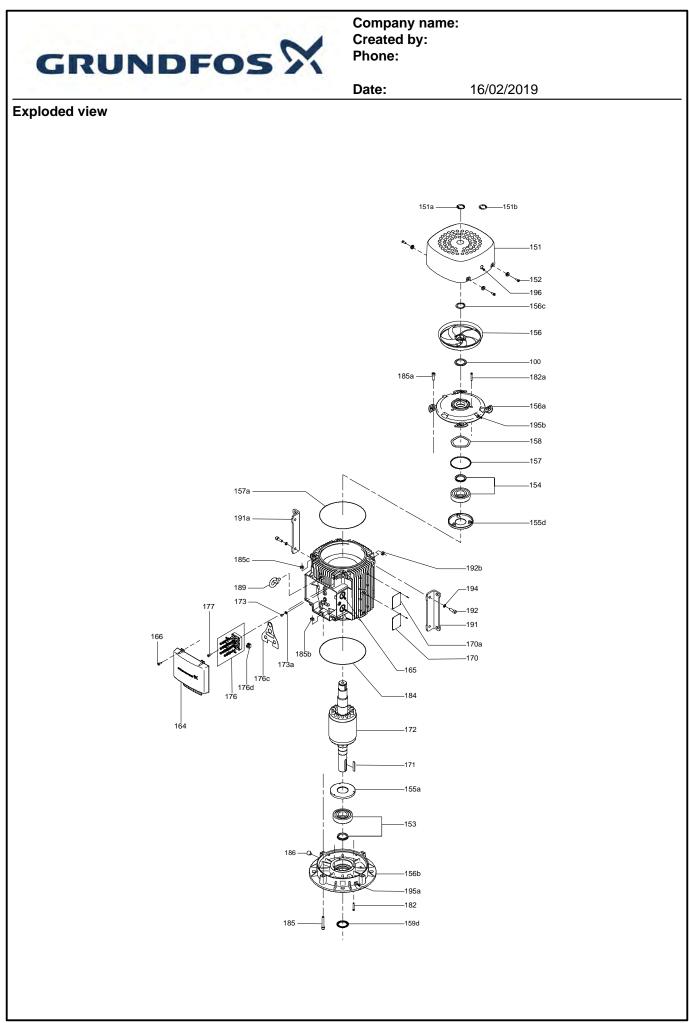




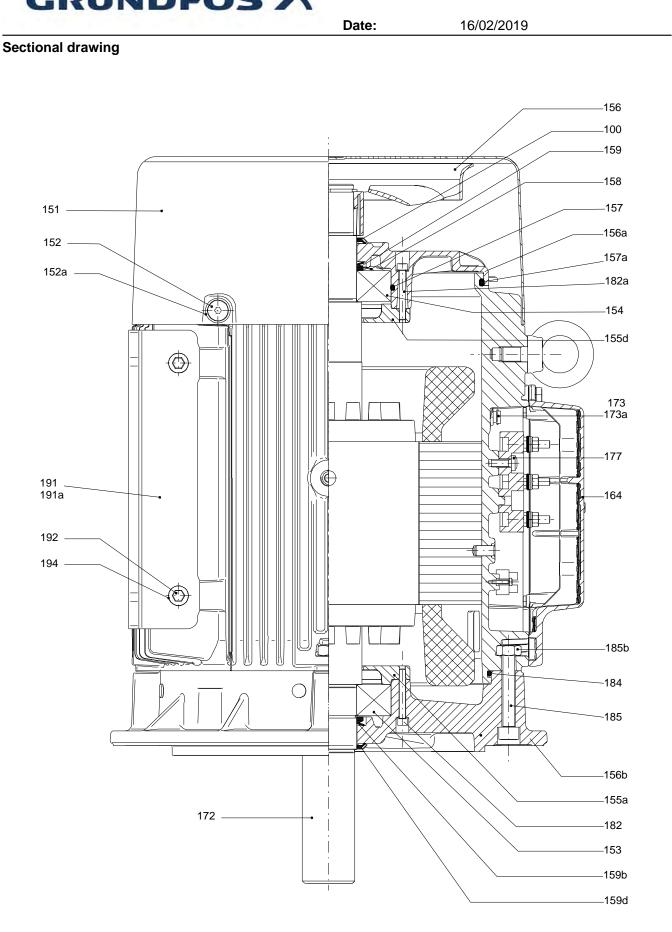














16/02/2019

# Spare parts CRN 15-10, Product No. 96501955 Valid from 1.1.2011 (1152)

Pos	Description	Annotation	Classification Data	Part no.	Qty	. Uni
	Kit, chamber stack			96491768	1	pcs
80	Chamber stack					1
3	Top intermediate chamber					
	Guide vane					
	Cover plate					
3	Intermediate chamber					
4a	Intermediate chamber cpl.					
	Sand Lifter					
	Guide cup					
	Bearing plate					
	Guide vane					
3	Intermediate chamber					
45a	Neck ring cpl.					
47	Bearing bush					
65	Retainer					
4	Intermediate chamber cpl.					
3	Intermediate chamber opi					
45a	Neck ring cpl.					
45a 65	Retainer					
26a			Length (mm): 4	1401414		
20a 26.c	Strap cpl. Washer		Designation: D			
20.0	washer		•	IN 125A		
00 h			Thickness: 1,6			
26.b	Hex head screw					
44b	Inlet part					
44a	Inlet part cpl.					
45a	Neck ring cpl.					
65	Retainer					
47	Bearing ring					
49	Impeller cpl.					
49c	Wear ring					
49	Impeller					
51	Shaft, spline, cpl.					
	Bar					
62	Stop ring					
64d	Spacing bush					
64c	Spacing pipe		Length (mm): 7			
64a	Spacing pipe		Internal diamet	ter: 17,5		
			Length (mm): 17			
64	Spacing pipe		Length (mm): 4	43.6		
66	Wedge lock washer					
67	Lock nut		Thread: M8			
69	Spacing bush					
	Kit, coupling			96511352	1	pcs
	Adjusting fork					1
8	Coupling					1
9	Hex socket head cap screw		Designation: D	IN 912		
	· · · ·		Length (mm): 25			
			Thread: M10			
10a	Coupling half		-			
10	Shaft pin		Diameter: 5			
-			Length (mm): 26			
	Kit, coupling guard			96509614	1	pcs
7.a	Combi Slot Torx screw			0000014	•	4



Pos	Description	Annotation Classification Data	Part no.	Qty	/. Unit
7	Coupling guard				2
	Kit, gaskets		96509609	1	pcs
	Gasket				2
24	O-ring				2
37	O-ring				2
38a	O-ring	Diameter: 5,3			1
		Material type: EPDM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			1
		Material type: EPDM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			2
		Material type: EPDM			
		Thickness: 2,4			
60	Spring				4
415	Gasket				2
441b	Gasket	Internal diameter: 4	19		2
		Outer diameter: 92			
		Thickness: 2			
	Kit, plug		96511312	1	pcs
18	Air vent screw				1
	Spindle				
	Plug				
25a	Drain plug				1
25	Plug				1
38a	O-ring	Diameter: 5,3			1
		Material type: FKM			
		Thickness: 2,4			
38a	O-ring	Diameter: 5,3			1
		Material type: EPDM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			1
	- 5	Material type: FKM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			2
	<b>cg</b>	Material type: FKM			_
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			1
	- ····9	Material type: EPDM			•
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			2
50	- mg	Material type: EPDM			-
		Thickness: 2,4			
	Kit, shaft seal HQQE	1110010000.2,4	96511844	1	pcs
	Emery cloth		00011044		1
	Grinding device				1
105	Shaft seal	Material type: HQC	)E		1
100	Kit, wear parts		96511827	1	pcs
4a	Intermediate chamber cpl.		30311027	I	2
-td	Sand Lifter				2
	Guide cup Boaring plate				
	Bearing plate Guide vane				
2					
3	Intermediate chamber				
45a	Neck ring cpl.				
47	Bearing bush				
65	Retainer		054		•
26.c	Washer	Designation: DIN 1	25A		2
		Thickness: 1,6			



Pos E	Description	Annotation Classification Data	Part no.	Qty. Unit
26.b	Hex head screw	Annotation GlassinGation Data	rait 110.	2 2
45a	Neck ring cpl.			8
43a 47	Bearing ring			2
47 49c	Wear ring			10
490 62	Retaining ring			10
				2
64d	Spacing bush	Longth (mm): 10.7		
64c	Spacing pipe	Length (mm): 12.7		1
64b	Spacing bush	Length (mm): 5.00		1
64a	Spacing pipe	Internal diameter: 1	7,5	2
		Length (mm): 17		
65	Retainer			8
66	Wedge lock washer			1
67	Lock nut	Thread: M8		1
Ν	Aotor		85904227	1 pcs
	Kit, bearing cpl.		967966	76 1
	Kit, bearing plate		967966	64 1
155.a	Bearing cover			
208a	Gasket			
208	Hex socket head cap screw	Designation: DI	N912	
	•	Length (mm): 40		
		Thread: M5		
	Kit, eyebolt		967967	12 1
189	Eyebolt		001001	·- ·
100	Kit, fan		967966	54 1
156.c			907900	
156.C	Retaining ring Fan			
100			007000	47 4
454	Kit, fan cover		967966	4/ 1
151	Fan cover			
152.a	Rubber bush			
152	Hex head cap screw			
196	Diaphragm			
	Kit, flange		967966	62 1
156.b	Flange			
159.b	Seal ring			
185.b	Nut			
185	Hex socket head cap screw			
186	Drain plug			
195.a	Grease nipple			
	Kit, gaskets		967985	08 1
184	O-ring	Diameter: 235		
	Kit, lubrication nipple	Diamoton 200	967966	71 1
195.b	Grease nipple		007000	
195.a	Grease nipple			
195.a	Kit, ND-end shield cpl.		967966	60 1
206	Waved washer		901900	
32b				
156.a	End shield NDE			
157	O-ring			
159	V-ring			
185.c	Nut			
185.a	Hex socket head cap screw			
195.b	Grease nipple			
	Kit, shaft seal		968434	59 1
159.b	V-ring			
159	V-ring			
	Kit, terminal board		967966	57 1
	Terminal connection			
	Washer			
36	Washer Hex nut			



76.0     Terminal board     77     Torx Screw     96796659     1       78.1     terminal box cover     96796659     1     6       77     Torx Screw     96796659     1     6       73.2     Pan head thread forming screw     96796664     1     96796664     1       75.3     Bearing pole     96796664     1     96796664     1       75.3     Bearing pole     96796664     1     96796664     1       75.3     Bearing pole     Designation: DIN912     1     1     1       75.4     Gasket     Designation: DIN912     1     1     1       75.5     Kit, seebolt     96796664     1     1     1       76.5     Fan     1					Date:	16/02/2019	)
76.0     Terminal board     77     Torx Screw     96796659     1       78.1     terminal box cover     96796659     1     6       77.1     Torx Screw     96796659     1     6       73.2     Pan head thread forming screw     96796664     1     96796664     1       75.3     Bearing cover     96796664     1     96796664     1       75.3     Bearing plate     96796664     1     96796664     1       75.4     Bearing cover     Designation: DIN912     1     1     1       75.5     Bearing cover     Designation: DIN912     1	Pos	Descrip	otion	Annotation	Classification Data	Part no. Q	ty. Unit
76   Terminal board     77   Torx Screw   96796659   1     78   Pan head thread forming screw   85904022   1     78   Pan head thread forming screw   85904022   1     78   Pan head thread forming screw   85904022   1     64   Terminal box cover   96796666   1     78   Pan head thread cap screw   Designation: DIN912   5     78   Pan head thread cap screw   Designation: DIN912   1     78   Pan kead thread cap screw   Designation: DIN912   1     78   Rik (syebolt   967967671   1     79   Eyebolt   Thread: M5   1     76   Fan   1   1     76   Fan cover   967967674   1     71   Fan cover   96796662   1     72   Han kead cap screw   96796662   1     73   Pan cover   96796662   1     74   Fan cover   96796662   1     75.   Fange   1   1     76   Fange   1 <td< td=""><td>176.d</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	176.d						
77     Torx Screw     96796659     1       64     Terminal box cover     96796657     1       73a     Pan head thread forming screw     953904022     1     96796676     1       73a     Pan head thread forming screw     953904022     1     96796676     1       75a     Bearing plate     96796674     1     96796676     1       55.a     Bearing plate     96796674     1     1     1       56.a     Bearing plate     96796674     1     1     1       56.a     Retaining ring     96796674     1     1     1       56.b     Fan     96796684     1     1     1       51.c     Retaining ring     96796684     1     1     1       52.a     Rubber bush     1     1     1     1     1       52.a     Rubber bush     1     1     1     1     1       53.b     Grease nipple     1     1     1     1     1       54.d	176		Terminal board				
Kit, terminal box cover     96796659     1       64     Terminal box cover     95904022     1     pc       Motor     953904022     1     pc       Kit, bearing path     96796676     1       55.a     Bearing cover     96796676     1       08a     Gasket     Designation: DIN912     1       08a     Gasket     96796674     1       08a     Diaphragm     1     52.       Kit, fan cover     967966	177						
64   Terminal box cover   85904022   1   pc     73a   Pan head thread forming screw   85904022   1   pc     Kit, bearing pate   96796676   1     55.a   Bearing cover   96796676   1     08a   Gasket   967966712   1     55.a   Bearing cover   Length (mm): 40   1     08a   Hex socket head cap screw   Designation: DIN912   1     19a   Eyebolt   1   1     65a   Retaining ring   96796654   1     56a   Retaining ring   967966647   1     56a   Fan cover   967966647   1     51a   Fan cover   967966647   1     52a   Rubber bush   1   1     52a   Rubber bush   1   1     52a   Rubber bush   1   1     52b   Flange   1   1     54b   Flange   96796662   1     55b   Seal ring   96796662   1     55b   Grease nipple   1   1		Kit,	terminal box cover			96796659	1
Pan head thread forming screw     8594022     1     pc       Kit, bearing cpl.     96796676     1     1       Kit, bearing cpl.     96796664     1       08a     Gasket     96796674     1       08a     Gasket     96796674     1       08a     Gasket     96796712     1       08a     Egebolt     96796712     1       189     Eyebolt     96796674     1       180     Eyebolt     96796674     1       180     Eyebolt     96796674     1       171     Fan cover     96796674     1       181     Fan cover     96796664     1       182     Hak head cap screw     96796664     1       182     Hak head cap screw     96796667     1       182     Hak nover     96796667     1       183     Grease nipple     96796667     1       184     Oring Dug     96796667     1       195.     Grease nipple     96796667     1 <tr< td=""><td>164</td><td> ,</td><td></td><td></td><td></td><td></td><td></td></tr<>	164	,					
Motor     85904022     1     pc       Kit, bearing plate     96796676     1       55.a     Bearing cover     1       08a     Gasket     1       08b     Hex socket head cap screw     Designation: DIN912     1       08a     Hex socket head cap screw     Designation: DIN912     1       08a     Fex socket head cap screw     Designation: DIN912     1       08a     Fex socket head cap screw     967966712     1       05c     Fan     967966647     1       05c     Fan     967966647     1       05c     Ran     967966647     1       05c     Ran     967966647     1       05c     Ran     967966647     1       05c     Ran     967966677     1       05c     Ran     967966647     1       05c     Range     967966627     1       05c     Range     967966671     1       05c     Nut     967966628     1       05c     R							
Kit, bearing cpl.     96796676     1       Kit, bearing plate     96796676     1       Sta     Bearing cover     1       08a     Gasket     Designation: DIN912     1       08b     Hex socket head cap screw     Designation: DIN912     1       1     Length (mm): 40     Thread: M5     96796712     1       89     Eyebolt     96796674     1     5       65     Falan     96796674     1       56     Retaining ring     96796674     1       56     Falan cover     96796674     1       51     Fan cover     96796674     1       52     Hex head cap screw     96     1       52     Hex head cap screw     96     1       54     Hex socket head cap screw     1     1       55     Nut     2     Hex socket head cap screw     1       56     Falange     96796671     1       57     Otameter: 235     1     1       56     Carease nipple <t< td=""><td>215a</td><td>Motor</td><td>Fair field tiffead forming screw</td><td></td><td></td><td>95004022 1</td><td>000</td></t<>	215a	Motor	Fair field tiffead forming screw			95004022 1	000
Kit, bearing plate96796664155.aBearing cover			h a a sin a sant				
55.a     Bearing cover       08a     Gasket       09a     Gasket       09b     Hex socket head cap screw     Designation: DIN912       Interact: M5     96796712     1       89     Eyebolt     967966712     1       80     Eyebolt     967966671     1       61.     Fan     967966677     1       52.     Retaining ring     1     1       54.     Fan cover     967966677     1       52.     Hex head cap screw     96796662     1       54.     Flange     96796662     1       55.     Must     96796662     1       56.     Flange     96796662     1       55.     Must     96796662     1       56.     Flange     96796662     1       57.     Grease nipple     96796662     1       58.     Nut     96796669     1       59.     Orain plug     96796669     1       59.     Grease nipple     96796669 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
08a     Gaskef       08     Hex socket head cap screw     Designation: DIN912       1     Length (mm): 40       Thread: M5     1       89     Eyebolt     1       89     Eyebolt     96796712     1       80     Eyebolt     967967654     1       80     Eyebolt     967967674     1       81     Fan     967967677     1       52     Ratbaining ring     5     1     5       52.a     Rubber bush     5     1     5       52.b     Seal ring     1     5     5       54.b     Flange     96796602     1       55.b     Nut     9     9     9       64     Orring     1     9       95.b     Greasen ipple     1     1		Kit,	• •			96796664	• 1
D8Hex socket head cap screwDesignation: DIN912Length (rmm): 40Thread: M5Kit, eyebolt96796712189Eyebolt156.Retaining ring96796654156.Retaining ring967966647157Fan96796662158Mubber bush1152.Hex head cap screw96796662156.Flange96796662157.Grapang1158.Nut96796662159.Seal ring96796662159.Seal ring96796662159.Grease nipple96796671159.Grease nipple96796669159.Grease nipple96796669159.Grease nipple96796669159.Grease nipple1159.Grease nipple1159.Grease nipple1150.Grease nipple1151.Grease nipple1152.Maved washer1153.Grease nipple1154.Hex socket head cap screw96796669155.Grease nipple1156.Frease nipple1157.O-ring1159.V-ring1159.V-ring1159.Grease nipple1 <td>155.a</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>	155.a		-				
Length (mm): 40       Thread: M5     96796712     1       89     Eyebolt     1       65c     Retaining ring     1       56c     Retaining ring     1       56     Fan     96796647     1       56     Fan     96796647     1       56     Fan cover     96796662     1       52     Hex head cap screw     96796662     1       56.b     Flange     96796662     1       56.b     Flange     96796662     1       56.b     Flange     96796662     1       56.b     Flange     96796662     1       57.b     Seal ring     95     5     1       58.b     Nut     96796508     1       59.b     Seal ring     96796508     1       50     Grease nipple     96796669     1       54.d     O-ring     96796671     1       55.d     Grease nipple     1     1       56.a     Grease nipple <td< td=""><td>208a</td><td></td><td>Gasket</td><td></td><td></td><td></td><td></td></td<>	208a		Gasket				
Thread: M5     Picture       Kit, eyebolt     96796712     1       Kit, fan     96796654     1       56.     Retaining ring     1       56.     Retaining ring     1       56.     Retaining ring     1       57.     Pan     96796647     1       58.     Rubber bush     1     1       52.     Hex head cap screw     96796662     1       56.     Flange     1     1       56.     Flange     1     1       56.     Flange     1     1       57.     Mex kaoket head cap screw     96796650     1       58.     Nut     1     1       59.     Nets     1     1       84     Oring     96796508     1       59.     Grease nipple     1     1       95.     Grease nipple     1     1       95.     Grease nipple     1     1       95.     Grease nipple     1     1  <	208		Hex socket head cap screw		Designation: D	DIN912	
Kit, eyebolt     96796712     1       89     Eyebolt     1       Kit, fan     96796654     1       56.     Retaining ring     1       56.     Fan     96796647     1       51.     Fan cover     96796647     1       52.     Rubber bush     52     Hex head cap screw     1       52.     Rubber bush     52     1       52.     Hex head cap screw     96796662     1       56.     Flange     96796662     1       56.b     Flange     96796663     1       56.b     Flange     96796663     1       56.b     Flange     96796663     1       56.b     Flange     96796663     1       56.b     Grease nipple     96796669     1       57.     Oring     96796669     1       58.a     Hex socket head cap screw     96796669     1       59.b     Grease nipple     96796669     1       52.b     V-ring     96796669					Length (mm): 40		
89     Eyebolt     V       Kit, fan     96796654     1       56:     Retaining ring     V       56     Fan     V       51     Fan cover     V       52.a     Rubber bush     V       52.a     Rubber bush     V     V       52.a     Hex haad cap screw     96796662     1       56.b     Flange     V     V     V       50.b     Seal ring     V     V     V       85.b     Nut     V     V     V     V       86     Drain plug     V     V     V     V       87.a     Grease nipple     V     V     V       87.a     Grease nipple     V     V     V       87.a     Grease nipple     V     V     V     V     V     V <td< td=""><td></td><td></td><td></td><td></td><td>Thread: M5</td><td></td><td></td></td<>					Thread: M5		
89     Eyebolt     V       Kit, fan     96796654     1       56:     Retaining ring     V       56     Fan     V       51     Fan cover     V       52.a     Rubber bush     V       52.a     Rubber bush     V     V       52.a     Hex haad cap screw     96796662     1       56.b     Flange     V     V     V       50.b     Seal ring     V     V     V       85.b     Nut     V     V     V     V       86     Drain plug     V     V     V     V       87.a     Grease nipple     V     V     V       87.a     Grease nipple     V     V     V       87.a     Grease nipple     V     V     V     V     V     V <td< td=""><td></td><td>Kit,</td><td>eyebolt</td><td></td><td></td><td>96796712</td><td>1</td></td<>		Kit,	eyebolt			96796712	1
Kit, fan     96796654     1       56. Retaining ring     56.     Retaining ring     56.       56. Fan     96796647     1       51. Fan cover     96796647     1       51. Fan cover     96796647     1       52. Rubber bush     52.     Hex head cap screw     96796662     1       52. Hex head cap screw     96796662     1     1       56. Flange     96796662     1       56. Seal ring     96796662     1       56. Seal ring     96796663     1       56. Mut     96796678     1       56. Grease nipple     96796678     1       57. Grease nipple     96796669     1       56. Grease nipple     96796669     1       57. Orring     96796669     1       56. Rut shield opl.     96796669     1       57. Orring     96796669     1       58. Grease nipple     1     1       59. Vring     96796669     1       59. Vring     96796657     1       59. Vring	189						
56.c   Retaining ring     56   Fan     51   Fan cover   96796647   1     51   Fan cover   96796647   1     52.a   Rubber bush		Kit				96796654	. 1
6   Fan   96796647   1     51   Fan cover   96796647   1     51   Fan cover   -   -     52.a   Rubber bush   -   -     52.a   Hex head cap screw   96796662   1     66.b   Flange   96796662   1     58.b   Nut   -   -     85.b   Nut   -   -     85.b   Nut   -   -     85.b   Nut   -   -     85.b   Nut   -   -   -     85.b   Nut   -   -   -     86.   Drain plug   -   -   -     95.a   Grease nipple   -   -   -     84   O-ring   96796670   1   1     95.b   Grease nipple   -   -   -     95.c   Nut   -   -   -   -     95.b   V-ring   -   -   -   -     95.b   Grease nipple   -   -   -	156.c	,				00.00004	•
Kit, fan cover   96796647   1     51   Fan cover   5     52.a   Rubber bush   5     52.a   Rubber bush   5     52.a   Hex head cap screw   96796662   1     56.b   Flange   96796662   1     56.b   Flange   96796662   1     58.b   Nut   5   1     85.   Hex socket head cap screw   5   1     86.   Drain plug   5   1     95.a   Grease nipple   5   1     95.b   Grease nipple   5   5   1     95.b   Grease nipple   5   5   1     95.b   Grease nipple   5   5   1 <tr< td=""><td>156.0</td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>	156.0						
51   Fan cover     52.a   Rubber bush     52.a   Rubber bush     52.a   Hex head cap screw     96   Diaphragm     1   56.b     Flange   96796662     50.b   Seal ring     85.b   Nut     86   Hex socket head cap screw     86   Drain plug     95.a   Grease nipple     Kit, gaskets   96798508     95.b   Grease nipple     Kit, lubrication nipple   96798667     95.b   Grease nipple     Kit, ND-end shield pl.   96796669     95.b   Grease nipple     Kit, ND-end shield pl.   96796669     95.b   Grease nipple     57   O-ring     58.a   End shield NDE     57   O-ring     58.a   Hex socket head cap screw     95.b   Grease nipple     Kit, shaft seal   96843459     95.b   V-ring     58.a   Hex socket head cap screw     95.b   Grease nipple     Kit, terminal board	100	IX:+				06706647	· 1
52.a   Rubber bush     52   Hex head cap screw     96   Diaphragm     56.b   Flange     57.0   Seal ring     58.b   Nut     85.b   Nut     86.   Drain plug     95.a   Grease nipple     Kit, tasket   96798508   1     84   O-ring   Diameter: 235     Kit, tubrication nipple   96798671   1     95.b   Grease nipple   1     95.c   Grease nipple   96798669   1     95.b   Grease nipple   96798669   1     95.b   Grease nipple   96796669   1     95.a   Grease nipple   96796669   1     95.b   Grease nipple   1   1     95.c   Nut   1   1     95.b   Grease nipple   1   1     95.c   Nut   1   1     95.b   Grease nipple   1   1     95.b   Grease nipple   1   1     95.b   Grease nipple   1	. = .	Kit,				96796647	1
52   Hex head cap screw     96   Diaphragm     Kit, flange   96796662   1     56.b   Flange   1     58.b   Nut   1     85.b   Nut   1     85.b   Nut   1     86.b   Drain plug   1     95.a   Grease nipple   96798508   1     84   O-ring   96798607   1     95.a   Grease nipple   96796671   1     95.a   Grease nipple   96796669   1     95.b   Grease nipple   96796669   1     95.b   Grease nipple   96796669   1     95.a   Grease nipple   1   1     95.b   Grease nipple   1   1     95.b   Grease nipple   1   1     95.b   Waved washer   1   1     95.b   Grease nipple   1 </td <td>151</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	151						
96     Diaphragm     96796662     1       56.b     Flange     96796662     1       56.b     Flange     1       56.b     Reage     1       56.b     Reage     1       85.b     Nut     1       85.b     Nut     1       86     Drain plug     1       95.a     Grease nipple     1       84     O-ring     Diameter: 235     1       84     O-ring     96798508     1       95.a     Grease nipple     1     1       95.b     Grease nipple     1     1       95.a     Grease nipple     1     1       95.b     Grease nipple     1     1       95.a     Grease nipple     1     1       95.b     Waved washer     1     1       95.a     End shield NDE     1     1       95.b     Grease nipple     1     1       95.b     Grease nipple     1     1       95	152.a						
Kit, flange   96796662   1     56.b   Flange	152		•				
56.b   Flange     59.b   Seal ring     85.b   Nut     85.b   Nut     86.b   Drain plug     95.a   Grease nipple     Kit, gaskets   96798508   1     84   O-ring   Diameter: 235     Kit, lubrication nipple   96796671   1     95.b   Grease nipple   1     95.c   Grease nipple   1     95.a   Grease nipple   1     95.b   Grease nipple   1     95.c   Grease nipple   1     95.a   Grease nipple   1     95.b   Grease nipple   1     95.b </td <td>196</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	196						
56.b   Flange     59.b   Seal ring     85.b   Nut     85.b   Nut     86.b   Drain plug     95.a   Grease nipple     Kit, gaskets   96798508   1     84   O-ring   Diameter: 235     Kit, lubrication nipple   96796671   1     95.b   Grease nipple   1     95.c   Grease nipple   1     95.a   Grease nipple   1     95.b   Grease nipple   1     95.c   Grease nipple   1     95.a   Grease nipple   1     95.b   Grease nipple   1     95.b </td <td></td> <td>Kit,</td> <td>flange</td> <td></td> <td></td> <td>96796662</td> <td>: 1</td>		Kit,	flange			96796662	: 1
59.b   Seal ring	156.b						
85.b   Nut     85   Hex socket head cap screw     86   Drain plug     95.a   Grease nipple     Kit, gaskets   96798508   1     84   O-ring   Diameter: 235   1     85.b   Grease nipple   96796671   1     95.b   Grease nipple   1   1     95.a   Brease nipple   1   1     95.b   Waved washer   1   1     95.a   End shield NDE   1   1     95.a   Hex socket head cap screw   1   1     95.b   Grease nipple   1   1     15.c   Nut   1   1     95.b   Grease nipple   1   1     16.t	159.b						
85   Hex socket head cap screw     86   Drain plug     95.a   Grease nipple     Kit, gaskets   96798508   1     84   O-ring   Diameter: 235   1     85.b   Grease nipple   96796671   1     95.b   Grease nipple   96796669   1     95.a   Grease nipple   96796669   1     95.a   Grease nipple   96796669   1     95.a   Grease nipple   96796669   1     95.b   Grease nipple   96796669   1     95.b   Waved washer   57   96796669   1     56.a   End shield NDE   57   57   96796659   1     57   O-ring   57 <td< td=""><td>185.b</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	185.b						
86   Drain plug     95.a   Grease nipple     Kit, gaskets   96798508   1     84   O-ring   Diameter: 235     Kit, lubrication nipple   96796671   1     95.b   Grease nipple   96796671   1     95.b   Grease nipple   96796669   1     95.a   Grease nipple   96796669   1     92.b   Waved washer   96796669   1     92.b   Waved washer   96796669   1     92.b   Waved washer   96796669   1     93.a   End shield NDE   57   0-ring   57     95.b   Grease nipple   57   57   57     95.b   V-ring   57   57   57     95.b   V-ring   57   57   57   57	185						
95.a   Grease nipple   96798508   1     84   O-ring   Diameter: 235   1     84   O-ring   96796671   1     95.b   Grease nipple   96796671   1     95.a   Grease nipple   96796669   1     95.a   Grease nipple   96796669   1     95.a   Grease nipple   96796669   1     2b   Waved washer   96796669   1     52.b   Waved washer   96796669   1     55.a   End shield NDE	186						
Kit, gaskets     96798508     1       84     O-ring     Diameter: 235     1       84     O-ring     96796671     1       95.b     Grease nipple     1     1       95.a     Grease nipple     1     1       95.b     Waved washer     1     1       56.a     End shield NDE     1     1       57     O-ring     1     1       59     V-ring     1     1       85.a     Hex socket head cap screw     96843459     1       95.b     Grease nipple     1     1       59     V-ring     1     1       59     V-ring     1     1       59     V-ring     1     1       7     Terminal board     96796657     1							
84     O-ring     Diameter: 235       Kit, lubrication nipple     96796671     1       95.b     Grease nipple     -       95.a     Grease nipple     -       Kit, ND-end shield cpl.     96796669     1       2b     Waved washer     -     -       56.a     End shield NDE     -     -       57     O-ring     -     -       59     V-ring     -     -       85.c     Nut     -     -       85.a     Hex socket head cap screw     -     -       95.b     Grease nipple     -     -       Kit, shaft seal     96843459     1       95.b     V-ring     -     -       59     V-ring     -     -       59     V-ring     -     -       64     Hex nut     -     -       73     Torx Screw     -     -       76.d     Terminal board     -     -       76.d     Terminal board     -	195.a	121				00700500	
Kit, lubrication nipple   96796671   1     95.b   Grease nipple   -     95.a   Grease nipple   -     %Kit, ND-end shield cpl.   96796669   1     2b   Waved washer   -     56.a   End shield NDE   -   -     57   O-ring   -   -   -     59   V-ring   -   -   -     85.c   Nut   -   -   -     85.a   Hex socket head cap screw   96843459   1     95.b   Grease nipple   -   -   -     85.c   Nut   96843459   1   -     95.b   Grease nipple   -   -   -     \$5.v   V-ring   -   -   -     59   V-ring   -   -   -   -     59   V-ring   -   -   -   -   -     59   V-ring   -   -   -   -   -   -   -   -   -   -   -   -   -   -		Kit,			<b>D</b> 1 ( 007		1
95.b   Grease nipple     95.a   Grease nipple     Kit, ND-end shield cpl.   96796669   1     12b   Waved washer   1     56.a   End shield NDE   1     57   O-ring   1     59   V-ring   1     85.c   Nut   1     85.a   Hex socket head cap screw   95.b     95.b   Grease nipple   1     59   V-ring   1     51.a   Hex socket head cap screw   96843459   1     95.b   Grease nipple   1   1     59   V-ring   1   1     59.b   V-ring   1   1     59.b   V-ring   1   1     59.b   V-ring   1   1     60   Hex nut   96796657   1     73   Torx Screw   1   1     76.d   Terminal board   1   1     76   Terminal board   1   1     76   Terminal board   1   1     76   T	184		•		Diameter: 235		
95.a   Grease nipple     Kit, ND-end shield cpl.   96796669   1     12b   Waved washer   -     56.a   End shield NDE   -     57   O-ring   -   -     59   V-ring   -   -     85.c   Nut   -   -     85.a   Hex socket head cap screw   -   -     95.b   Grease nipple   -   -     59   V-ring   96843459   1     59.b   V-ring   -   -     59.b   V-ring   -   -     59   V-ring   -   -     59   V-ring   -   -     60   Hex nut   96796657   1     73   Torx Screw   -   -     76.d   Terminal board   -   -     76   Terminal board   -   -     76   Terminal board   -   -     76   Terminal board   -   -     77   Torx Screw   -   -     64		Kit,				96796671	1
Kit, ND-end shield cpl.   96796669   1     2b   Waved washer   -     56.a   End shield NDE   -     57   O-ring   -   -     59   V-ring   -   -     85.c   Nut   -   -     85.a   Hex socket head cap screw   -   -     95.b   Grease nipple   -   -     Kit, shaft seal   96843459   1     59.b   V-ring   -   -     59.b   V-ring   -   -     59.b   V-ring   -   -     59.b   V-ring   -   -   -     59.b   V-ring   -   -   -     59.b   V-ring   -   -   -     60   Hex nut   96796657   1   -     73.a   Torx Screw   -   -   -     76.d   Terminal board   -   -   -     76.d   Terminal board   -   -   -     76.d   Terminal board   -   -	195.b						
2b   Waved washer     56.a   End shield NDE     57   O-ring     59   V-ring     85.c   Nut     85.a   Hex socket head cap screw     95.b   Grease nipple     Kit, shaft seal   96843459   1     59.b   V-ring   1     60   Hex nut   96796657   1     73.   Torx Screw   1     76.d   Terminal board   1   1     76.d   Terminal board   1   1     76.d   Terminal board   1   1     77.   Torx Screw   1   1     76.d   Terminal board   1   1     76.d   Terminal board   1   1     76.d   Terminal board   1   1     77.   Torx Screw   1   1     64.   Terminal box cover   96796659   1 </td <td>195.a</td> <td></td> <td>Grease nipple</td> <td></td> <td></td> <td></td> <td></td>	195.a		Grease nipple				
56.a   End shield NDE     57   O-ring     59   V-ring     85.c   Nut     85.a   Hex socket head cap screw     95.b   Grease nipple     Kit, shaft seal   96843459   1     59.b   V-ring   96796657   1     59.b   V-ring   96796657   1     59.b   V-ring   96796657   1     64   Hex nut   96796657   1     73   Torx Screw		Kit,	ND-end shield cpl.			96796669	1
57O-ring59V-ring85.cNut85.aHex socket head cap screw95.bGrease nippleKit, shaft seal9684345999684345959.bV-ring59V-ring59V-ring60Hex nut73Torx Screw76.dTerminal board77Torx Screw76.dTerminal board77Torx Screw64Terminal box cover73aPan head thread forming screw	32b		Waved washer				
57O-ring59V-ring85.cNut85.aHex socket head cap screw95.bGrease nippleKit, shaft seal9684345999684345959.bV-ring59V-ring59V-ring60Hex nut73Torx Screw76.dTerminal board77Torx Screw76.dTerminal board77Torx Screw64Terminal box cover73aPan head thread forming screw	156.a		End shield NDE				
59V-ring85.cNut85.aHex socket head cap screw95.bGrease nippleKit, shaft seal9684345959.bV-ring59V-ring59V-ring60Hex nut73Torx Screw76.dTerminal board76Terminal board77Torx Screw76Terminal board76Terminal board77Torx ScrewKit, terminal box cover9679665964Terminal box cover73Pan head thread forming screw	157						
85.cNut85.aHex socket head cap screw95.bGrease nippleKit, shaft seal9684345959.bV-ring59V-ringKit, terminal board967966577Terminal connectionWasher6Hex nut73Torx Screw76.dTerminal board76Terminal board77Torx Screw64Terminal box cover63Pan head thread forming screw	159		-				
85.aHex socket head cap screw95.bGrease nippleKit, shaft seal96843459159.bV-ring96796657159V-ring967966571Terminal board967966571Terminal connection967966571Washer961173Torx Screw176.dTerminal board176Terminal board177Torx Screw96796659164Terminal box cover96796659173aPan head thread forming screw11			-				
95.bGrease nippleKit, shaft seal96843459159.bV-ring559V-ring1Terminal board967966571Terminal connection5Washer56Hex nut573Torx Screw576.dTerminal board576Terminal board577Torx Screw564Terminal box cover573aPan head thread forming screw5							
Kit, shaft seal96843459159.bV-ring59V-ring59595950			-				
59.bV-ring59V-ring60Ferminal connectionWasher9679665776Hex nut73Torx Screw76.dTerminal board76Terminal board77Torx Screw64Terminal box cover73aPan head thread forming screw	195.0	121				000 10 /=-	
59V-ring59V-ringKit, terminal board96796657Terminal connectionWasher6Hex nut73Torx Screw76.dTerminal board76Terminal board77Torx Screw64Terminal box cover73aPan head thread forming screw						96843459	1
Kit, terminal board967966571Terminal connectionWasherWasherWasher6Hex nut73Torx Screw76.dTerminal board76Terminal board77Torx ScrewKit, terminal box cover9679665964Terminal box cover73aPan head thread forming screw	159.b						
Terminal connectionWasher6Hex nut73Torx Screw76.dTerminal board76Terminal board77Torx Screw64Terminal box cover73aPan head thread forming screw	159		-				
Washer6Hex nut73Torx Screw76.dTerminal board76Terminal board77Torx ScrewKit, terminal box cover64Terminal box cover73aPan head thread forming screw		Kit,	terminal board			96796657	· 1
6   Hex nut     73   Torx Screw     76.d   Terminal board     76   Terminal board     77   Torx Screw     Kit, terminal box cover     64   Terminal box cover     73a   Pan head thread forming screw			Terminal connection				
6   Hex nut     73   Torx Screw     76.d   Terminal board     76   Terminal board     77   Torx Screw     Kit, terminal box cover     64   Terminal box cover     73a   Pan head thread forming screw			Washer				
73   Torx Screw     76.d   Terminal board     76   Terminal board     77   Torx Screw     Kit, terminal box cover   96796659     64   Terminal box cover     73a   Pan head thread forming screw	36		Hex nut				
76.d   Terminal board     76   Terminal board     77   Torx Screw     Kit, terminal box cover   96796659     64   Terminal box cover     73a   Pan head thread forming screw	173						
76   Terminal board     77   Torx Screw     Kit, terminal box cover     64   Terminal box cover     73a   Pan head thread forming screw							
77   Torx Screw     Kit, terminal box cover   96796659     64   Terminal box cover     73a   Pan head thread forming screw							
Kit, terminal box cover96796659164Terminal box cover73aPan head thread forming screw							
64 Terminal box cover   73a Pan head thread forming screw	177						
73a Pan head thread forming screw		Kit,				96796659	1
	164						
a Pump head 08008053 1 pc	273a		-				
a i anp iload	1a	Pump h	nead			98998053 1	pcs



	Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
	1	Flange	Annotation	Classification Data	98913788		pcs
	2	Pump cover			98481138		pcs
+	3	Bulk, Top intermediate chamber (3 pcs)			98371113		pcs
+	3	Top intermediate chamber			98734577		pcs
+	4a	Bulk, Intermediate chamber cpl. (10 pcs)			96538853		pcs
+	4a 4a	Intermediate chamber cpl. (10 pcs)			98371117		•
Ŧ	4a 4	•			96538840		pcs
-		Bulk, Intermediate chamber cpl. (10 pcs) Intermediate chamber					pcs
	3				983711		
	65	Retainer			965473		
+	4	Intermediate chamber cpl.			98371115		pcs
	6	Base			98654159		pcs
	10	Bulk, Shaft pin (10 pcs)		Diameter: 5	96536473	1	pcs
				Length (mm): 26			
+	18	Bulk, Air vent screw (5 pcs)			96547461		pcs
+	18	Air vent screw			95061351	1	pcs
	25	Bulk, Plug (10 pcs)			96536013	1	pcs
	26a	Strap cpl.		Length (mm): 449MM	98984432		pcs
	26.c	Bulk, Washer (4 pcs)		Designation: DIN 125A	99262704	2	pcs
				Thickness: 1,6			
	26.c	Washer		Designation: DIN 125A	96586880	2	pcs
				Thickness: 1,6			
	26	Staybolt			98982885	4	pcs
	28	Hex head screw		Length (mm): 25	99522923	4	pcs
				Thread: M12			
	36	Bulk, Hex nut (20 pcs)		Thread: M16	96620480	4	pcs
	37.a	Bulk, O-ring (20 pcs)			96538857	1	pcs
	38a	Bulk, O-ring (10 pcs)		Diameter: 5,3	99198791	1	pcs
				Material type: EPDM			
				Thickness: 2,4			
	38	Bulk, O-ring (10 pcs)		Diameter: 16,3	99198815	2	pcs
				Material type: EPDM			
				Thickness: 2,4			
	38	Bulk, O-ring (50 pcs)		Diameter: 16,3	99412727	2	pcs
				Material type: EPDM			•
				Thickness: 2,4			
	44b	Inlet part		,	98814593	1	pcs
+	44a	Inlet part cpl.			98818922		pcs
	47	Bulk, Bearing ring (10 pcs)			96538795		pcs
-	49	Bulk, Impeller cpl. (5 pcs)			98394288		pcs
	49c	Bulk, Wear ring (10 pcs)			965473		•
+	49	Impeller cpl.			98394449		pcs
+	43 51	Shaft, spline, cpl.			98368640		pcs
•	55	Outer sleeve			98812644		pcs
	55 56	Base plate			98481136		•
	56 60	Bulk, Spring (20 pcs)			96538963		pcs
							pcs
	64d	Bulk, Spacing bush (20 pcs)		Longth () 40.7	96538947		pcs
	64c	Bulk, Spacing pipe (5 pcs)		Length (mm): 12.7	97980241		pcs
	64a	Bulk, Spacing pipe (10 pcs)		Internal diameter: 17,5	98417487	2	pcs
	0.4			Length (mm): 17	00505105	7	
	64	Bulk, Spacing pipe (20 pcs)		Length (mm): 43.6	96535107		pcs
	66	Bulk, Wedge lock washer (10 pcs)			96536157		pcs
	67	Bulk, Lock nut (10 pcs)		Thread: M8	98277008		pcs
	69	Bulk, Spacing bush (20 pcs)			96538949		pcs
	76a	Bulk, Rivet (100 pcs)			96620489		pcs
	105	Bulk, Shaft seal (11 pcs)		Material type: HQQE	96538914		pcs