

Date: 18/02/2019

Qty. | Description

1 | CR 120-3 A-F-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 95922153

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in 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 DIN flanges.

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

Further product details

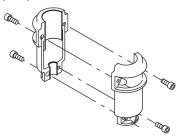
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

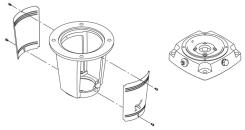
A long split coupling connects the pump and motor shaft. It is enclosed in the motor stool by means of two coupling guards. The long coupling makes it possible to replace the shaft seal without removing the motor from the pump.



The motor stool connects the pump head and motor. 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.

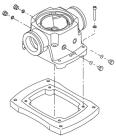




The shaft seal is retained in the pump head by a cover and screws. It can be replaced without removing the motor.

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 base is made of cast iron and mounted on a separate cast-iron base plate. Both the inlet and the outlet side of the base have two pressure gauge tappings. The pump is secured to the foundation by four bolts through the base plate. The flanges are fastened to the base by means of locking rings.



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.



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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

Liquid:

Pumped liquid: Water

Liquid temperature range: -30 .. 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³

Technical:

Pump speed on which pump data are based: 2951 rpm

Rated flow: 120 m³/h
Rated head: 64.4 m
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQE

Approvals on nameplate: CE, EAC,ACS Curve tolerance: ISO9906:2012 3B

Materials:

Base: Cast iron

EN 1563 EN-GJS-500-7 ASTM A536 80-55-06

Impeller: Stainless steel

EN 1.4301 AISI 304 SIC

Bearing: SIC Support bearing: Graflon

Installation:

Maximum ambient temperature: 55 °C Maximum operating pressure: 30 bar

Max pressure at stated temp: 30 bar / 120 °C

30 bar / -30 °C

Type of connection: DIN
Size of inlet connection: DN 125
Size of outlet connection: DN 125
Pressure rating for pipe connection: PN 40
Flange size for motor: FF350

Electrical data:

Motor standard: IEC
Motor type: SIEMENS
IE Efficiency class: IE3
Rated power - P2: 30 kW
Power (P2) required by pump: 30 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-420D/660-725Y V Rated current: 56,0-51,0/32,0-29,5 A

Starting current: 660-660 %

Cos phi - power factor: 0.87



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Qty. | Description

Rated speed: 2955 rpm
Efficiency: IE3 93,3%
Motor efficiency at full load: 93.3-93.3 %
Motor efficiency at 3/4 load: 93.6-93.6 %
Motor efficiency at 1/2 load: 93.4-93.4 %

Number of poles: 2

Enclosure class (IEC 34-5): 55 Dust/Jetting

Insulation class (IEC 85): F

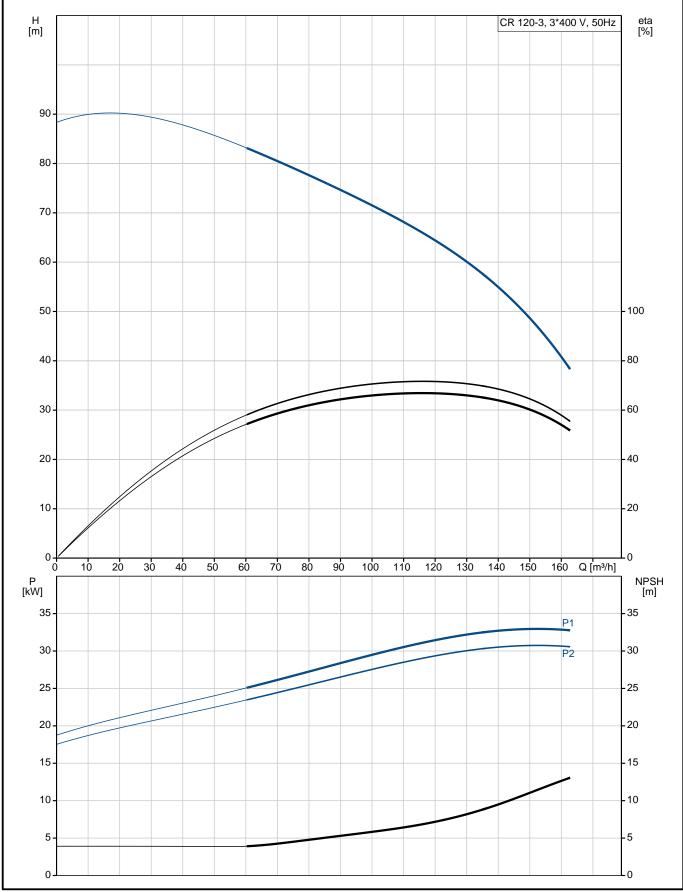
Others:

Minimum efficiency index, MEI ≥: 0.70
Net weight: 368 kg
Gross weight: 429 kg
Shipping volume: 1.02 m³



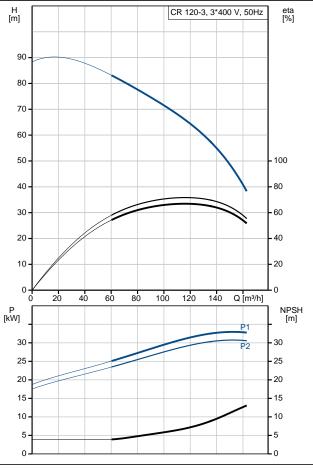
Date: 18/02/2019

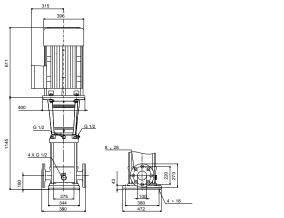
95922153 CR 120-3 A-F-A-E-HQQE 50 Hz

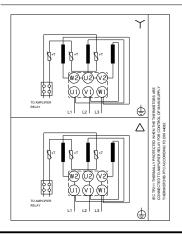




Description	Value
General information:	
Product name:	CR 120-3 A-F-A-E-HQQE
Product No:	95922153
EAN number:	5700838933628
Technical:	3700030933020
Pump speed on which pump data are	
based:	2951 rpm
Rated flow:	120 m³/h
Rated head:	64.4 m
Head max:	88 m
Stages:	3
Impellers:	3
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals on nameplate:	CE, EAC,ACS
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	Α
Materials:	
Base:	Cast iron
	EN 1563 EN-GJS-500-7
	AOTM A 500 00 55 00
	ASTM A536 80-55-06
Impeller:	Stainless steel
	EN 1.4301 AISI 304
Material code:	A A A
Code for rubber:	E
Bearing:	SIC
Support bearing:	Graflon
Installation:	Granon
Maximum ambient temperature:	55 °C
	00 0
Maximum operating pressure:	30 bar
Maximum operating pressure: Max pressure at stated temp:	30 bar 30 bar / 120 °C
Maximum operating pressure: Max pressure at stated temp:	30 bar / 120 °C
Max pressure at stated temp:	
	30 bar / 120 °C 30 bar / -30 °C DIN
Max pressure at stated temp: Type of connection:	30 bar / 120 °C 30 bar / -30 °C
Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection:	30 bar / 120 °C 30 bar / -30 °C DIN DN 125
Max pressure at stated temp: Type of connection: Size of inlet connection:	30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125
Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection:	30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40
Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor:	30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350
Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code:	30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350
Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid:	30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F
Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid:	30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F
Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range:	30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F Water -30 120 °C
Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation:	30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F Water -30 120 °C 20 °C
Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density:	30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F Water -30 120 °C 20 °C
Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data:	30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F Water -30 120 °C 20 °C 998.2 kg/m³
Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard:	30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F Water -30 120 °C 20 °C 998.2 kg/m³
Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2:	30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F Water -30 120 °C 20 °C 998.2 kg/m³ IEC SIEMENS
Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class:	30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F Water -30 120 °C 20 °C 998.2 kg/m³ IEC SIEMENS IE3
Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2:	30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F Water -30 120 °C 20 °C 998.2 kg/m³ IEC SIEMENS IE3 30 kW
Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump:	30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F Water -30 120 °C 20 °C 998.2 kg/m³ IEC SIEMENS IE3 30 kW 30 kW







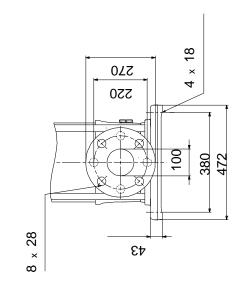


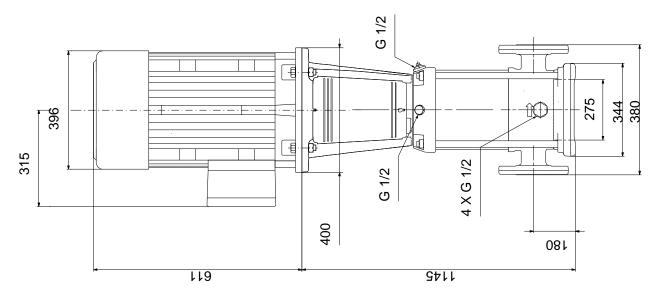
Description	Value
Rated current:	56,0-51,0/32,0-29,5 A
Starting current:	660-660 %
Cos phi - power factor:	0.87
Rated speed:	2955 rpm
Efficiency:	IE3 93,3%
Motor efficiency at full load:	93.3-93.3 %
Motor efficiency at 3/4 load:	93.6-93.6 %
Motor efficiency at 1/2 load:	93.4-93.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	81U15332
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	368 kg
Gross weight:	429 kg
Shipping volume:	1.02 m ³



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95922153 CR 120-3 A-F-A-E-HQQE 50 Hz



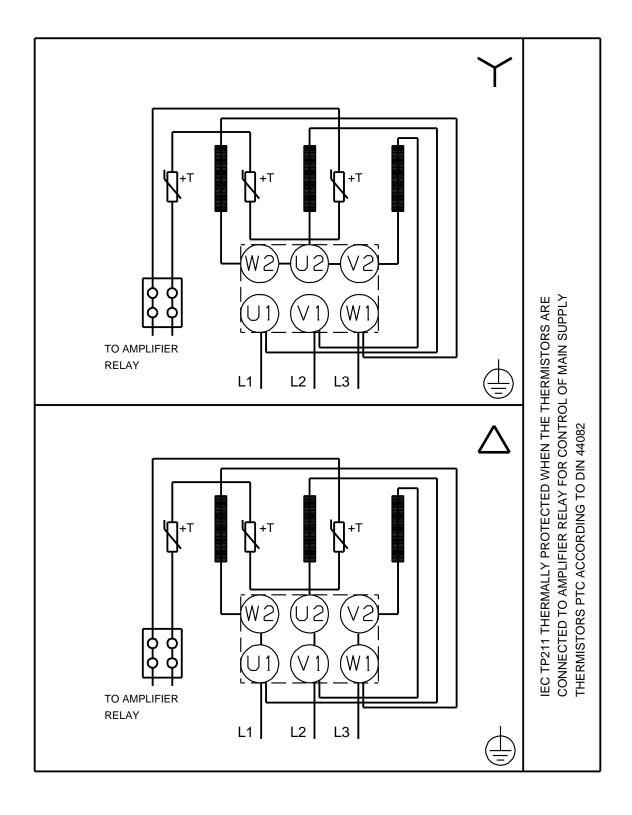


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



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95922153 CR 120-3 A-F-A-E-HQQE 50 Hz



Note! All units are in [mm] unless others are stated.



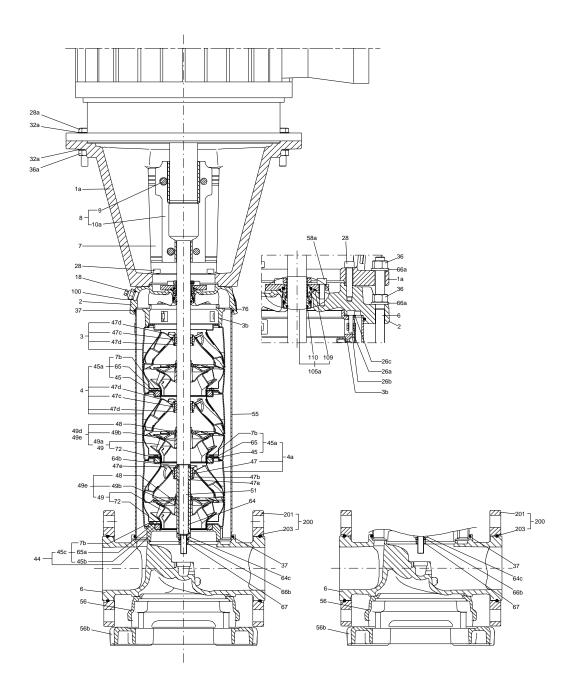
Date: 18/02/2019

(TM065565 XLCR) -26b -26c 47d -47c -47d -65 -47c -47d 66a 58a 58 36 66a -23 -100 -60 -47e -47b -64



Date: 18/02/2019

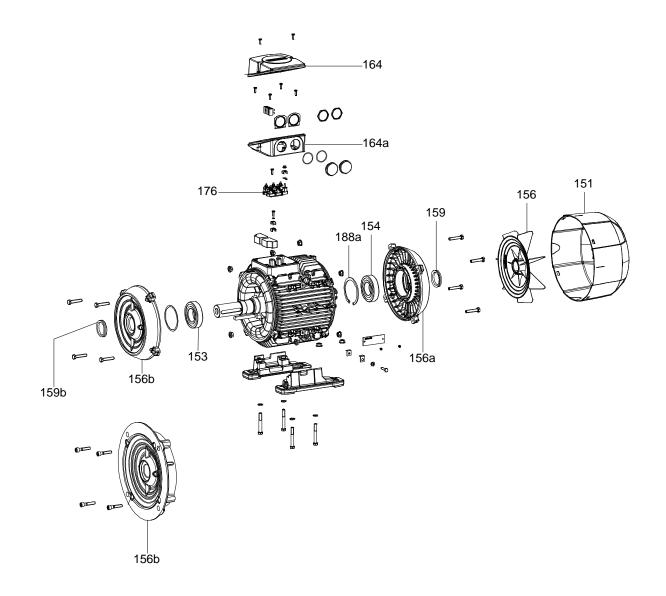
(TM065579 XLCR)





Date: 18/02/2019

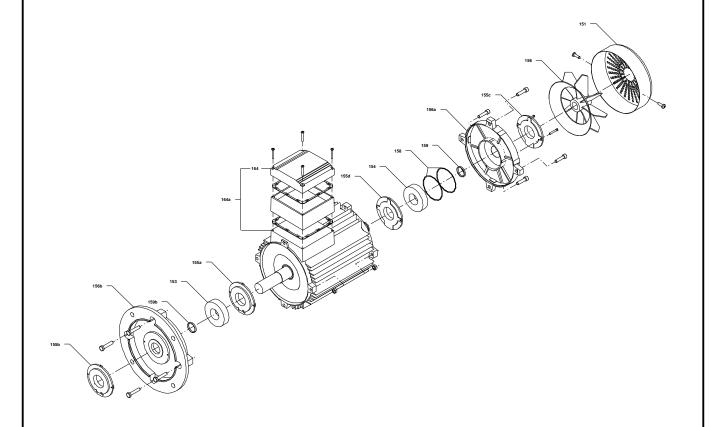
(TM058162)





Date: 18/02/2019

(tm019382 3200)



TM019382



Date: 18/02/2019

Spare parts CR 120-3, Product No. 95922153 Valid from 31.3.2011 (1113)

	os	Description	Annotation	Classification Data	Part no.		. Uni
+		Base			98807603 96752215	1	pcs
•		Kit, bearing			96752215	1	pcs
		Adjusting fork					1
	_	Adjusting fork					1
4	7e	Washer		Internal diameter: Da	22		2
				Outer diameter: D32			
4	7b	Bearing ring, rotating					1
-		Kit, chamber stack			95059821	1	pcs
- 8	0	Chamber stack					1
•		Shaft cpl.		Diameter: D22			
				Length (mm): 731,5			
4	7e	Washer		Internal dian	neter: D22		
				Outer diameter: D32			
4	7b	Bearing ring, rotating					
5	1	Pump shaft					
6	4c	Spacer ring					
6	4b	Wedge lock washer					
6	4b	Lock washer					
6	4	Spacing bush					
6	7	Hex nut		Thread: M14	1		
. 3		Chamber cpl.					
	7d	Locking ring					
	7c	Bush					
4		Chamber cpl.					
7		Cross recess Pan head screw					
4		Neck ring					
4		Bearing ring					
6		Retainer					
- 4		Chamber cpl.					
7:		Cross recess Pan head screw					
4:		Neck ring					
	7d	Locking ring					
	7c	Bush					
6		Retainer					
7:		Cross recess Pan head screw					
	а 6с	Washer		Decignation: DIN	1 125 /		
	.00	vvasilei		Designation: DIN	N 123A		
2	6b	Hex socket head cap screw		Thickness: 1,6			
				Longth (man) C-4	6.5		
	6a	Strap cpl.		Length (mm): 51	0,0		
	4a	Discharge part					
- 4	4	Inlet part					
	-	Inlet part					
	5b	Seal ring					
	9e	Impeller cpl.					
4		Split cone nut					
	9b	Split cone					
- 4		Impeller					
	9c	Wear ring					
6	5a	Retainer					
		Kit, chambers			96751982	1	pcs
		Adjusting fork					1
		Adjusting fork					1
- 4	а	Chamber cpl.					1



Pos	Description	Annotation Classification Data	Part no.	Qty	. Un
7a	Cross recess Pan head screw				
45	Neck ring				
47	Bearing ring				
65	Retainer				
	Kit, coupling		96416594	1	pcs
	Adjusting fork				1
8	Coupling cpl.	Dimension: 22/55			1
9	Hex socket head cap screw	Designation: D	IN 912		
		Length (mm): 25			
		Thread: M10			
10a	Coupling half				
	Kit, coupling guard		96505135		pc
7a	Socket button head screw				4
7	Coupling guard				2
	Kit, cover		98832448	1	pc
	Kit, gaskets		95059804	1	pc
	Adjusting fork				1
	Adjusting fork				1
37	O-ring				2
38	O-ring	Diameter: 16,3			4
	-	Material type: EPDM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			2
	•	Material type: EPDM			
		Thickness: 2,4			
60	Spring	,			4
109	O-ring				1
109	O-ring	Material type: EPD	М		1
110	O-ring				1
110	O-ring	Diameter: 21,5			1
	<u> </u>	Material type: EPDM			
		Thickness: 4,25			
	Kit, plug	, .	96505136	1	pcs
18	Air vent screw			-	1
	Spindle				
	Plug				
25	Plug				4
25	Plug				1
38	O-ring	Diameter: 16,3			2
00	5 mig	Material type: FKM			_
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			4
	- ·····9	Material type: FKM			•
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			6
50	~ ·····9	Material type: FKM			_
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			2
00	→ mig	Material type: EPDM			_
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			4
50	O-Tillig	Material type: EPDM			7
	Kit shoft	Thickness: 2,4	00000044	4	
	Kit, shaft	Diameter: D00	98368844	1	pc:
	Shaft cpl.	Diameter: D22			1
4-	NA/a a la a	Length (mm): 731,5	D00		
47e	Washer	Internal diamet	er: D22		
		Outer diameter: D32			



Pos	Description	Annotation Classification Data	Part no.	æίy.	. Un
47b	Bearing ring, rotating				
51	Pump shaft				
64c	Spacer ring				
64b	Wedge lock washer				
64b	Lock washer				
64	Spacing bush				
67	Hex nut	Thread: M14			
47e	Washer	Internal diameter: D22	2		2
		Outer diameter: D32			
47b	Bearing ring, rotating				1
51	Pump shaft				1
64c	Spacer ring				1
64b	Wedge lock washer				1
64b	Lock washer				1
64	Spacing bush				1
67	Hex nut	Thread: M14			1
07	Kit, shaft seal HQQE		96525458		•
			JUJZJ450		pc 1
105	Grinding device	Material transcriber			1
105	Shaft seal	Material type: HQQE			1
	Adjusting fork				
109	O-ring				
110	O-ring	Diameter: 21,5			
		Material type: EPDM			
		Thickness: 4,25			
	Kit, wear parts		95059807	1	рс
	Adjusting fork				1
	Adjusting fork				1
7a	Cross recess Pan head screw				12
45b	Seal ring				1
45	Neck ring				3
47e	Washer	Internal diameter: D22	2		2
		Outer diameter: D32			
47d	Locking ring				6
47c	Bush				3
47b	Bearing ring, rotating				1
49c	Wear ring				4
	Retainer				
65a					1
65	Retainer		00450755		3
	Bulk, Gasket (10 pcs)		99158755		рс
	Motor			1	рс
156	Kit, fan		980622		
151	Kit, fan cover		980622		
156b	Kit, flange		980622		
	Kit, lubrication nipple		980625	31	1
156a	Kit, ND-end shield cpl.		980625	17	1
159b	Kit, seal ring		980625	51	1
176	Kit, terminal board		980622	36	1
164a	Kit, terminal box		980622		
	Motor			1	рс
153	Angular-contact bearing	Designation: 7312B	00ID03		1
155b	Bearing cover	Doorgination. 1012D	964749		
155d	Bearing cover		964749		
158	Corrugated spring		964749		
156a	End shield		986781		
156b	End shield		964749		
156	Fan		964749		
151	Fan cover		966096	59	1
176	Terminal board cpl.		964764	40	4



Pos	Description	Annotation	Classification Data	Part no.	Qty.	
164	Terminal box cover			986427		
164a	· · · · · · · · · · · · · · · · · · ·			986427		
159	V-ring			964749		
154	Ball bearing		Designation: 6312.C	3 984661	29 1	
1a	Motor stool			98967671	1	pcs
2	Pump head			98593647	1	pcs
+ 3	Chamber cpl.			98371385	1	pcs
+ 4a	Bulk, Chamber cpl. (3 pcs)			98371389	1	pcs
+ 4a	Chamber cpl.			98371394	1	pcs
+ 4	Chamber cpl.			98371387	1	pcs
6	Base			99321771	1	pcs
7a	Bulk, Socket button head screw (10 pcs)			96549696	4	pcs
7	Bulk, Coupling guard (10 pcs)			96603279	2	pcs
+ 18	Bulk, Air vent screw (5 pcs)			96547461	1	pcs
+ 18	Air vent screw			95061351	1	pcs
25	Bulk, Plug (10 pcs)			96536013	1	pcs
26c	Bulk, Washer (4 pcs)		Designation: DIN 125A	99262704		pcs
	, · · (· / · / · / · / · / · / · / · / · / · / ·		Thickness: 1,6		-	F
26c	Washer		Designation: DIN 125A	96586880	4	pcs
			Thickness: 1,6		-	F
26b	Bulk, Hex socket head cap screw (10 pcs)		77110141000. 1,0	98931380	4	pcs
26a	Strap cpl.		Length (mm): 516,5	98984445		pcs
26	Staybolt		Length (mm): 684,5	98976625		pcs
20	Staybolt		Thread: M16	90970023	4	pus
28	Bulk, Hex socket head cap screw (10 pcs)		Designation: DIN 912	96536147	1	ncc
20	bulk, Hex socket flead cap sciew (10 pcs)		Length (mm): 50	90330147	4	pcs
			Thread: M10			
20	Dulle Hay band carey (20 mas)			07500040	4	
28	Bulk, Hex head screw (20 pcs)		Length (mm): 60	97506949	4	pcs
00	D. II. Mashan (400 mas)		Thread: M16	00000054	_	
32	Bulk, Washer (100 pcs)		Designation: DIN 125 A	98923051	8	pcs
			Internal diameter: 17			
			Outer diameter: 30			
	D. II. 11 (00)		Thickness: 3			
36	Bulk, Hex nut (20 pcs)		Thread: M16	96620480		pcs
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			
44a	Discharge part			99052574	1	pcs
+ 44	Inlet part			99106112	1	pcs
49e	Impeller cpl.			97506694	3	pcs
48	Bulk, Split cone nut (10 pcs)			965513	33 1	
49	Bulk, Impeller (10 pcs)			965377	45 1	
49c	Bulk, Wear ring (2 pcs)			965	3535)
55	Outer sleeve		Outer diameter: 225	98676211	1	pcs
			Length (mm): 540			•
56b	Base plate		5 ()	99048161	1	pcs
58	Cover			98893158		pcs
60	Bulk, Spring (20 pcs)			96536032		pcs
65a	Retainer			98461640		pcs
105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984086		pcs
100	Adjusting fork		material type. Hook	965878		•
109	Bulk, O-ring (10 pcs)			965475		
			Motorial type: HOOF			
105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984070		pcs
440k	Bulk, Lock ring (4 pcs)			96547435	7	pcs