

Inventflow: Grundfos A-partner

Grundfos CRN 95-6 A-F-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/crn/grundfos-crn-95-6-a-f-a-e-hqqe>

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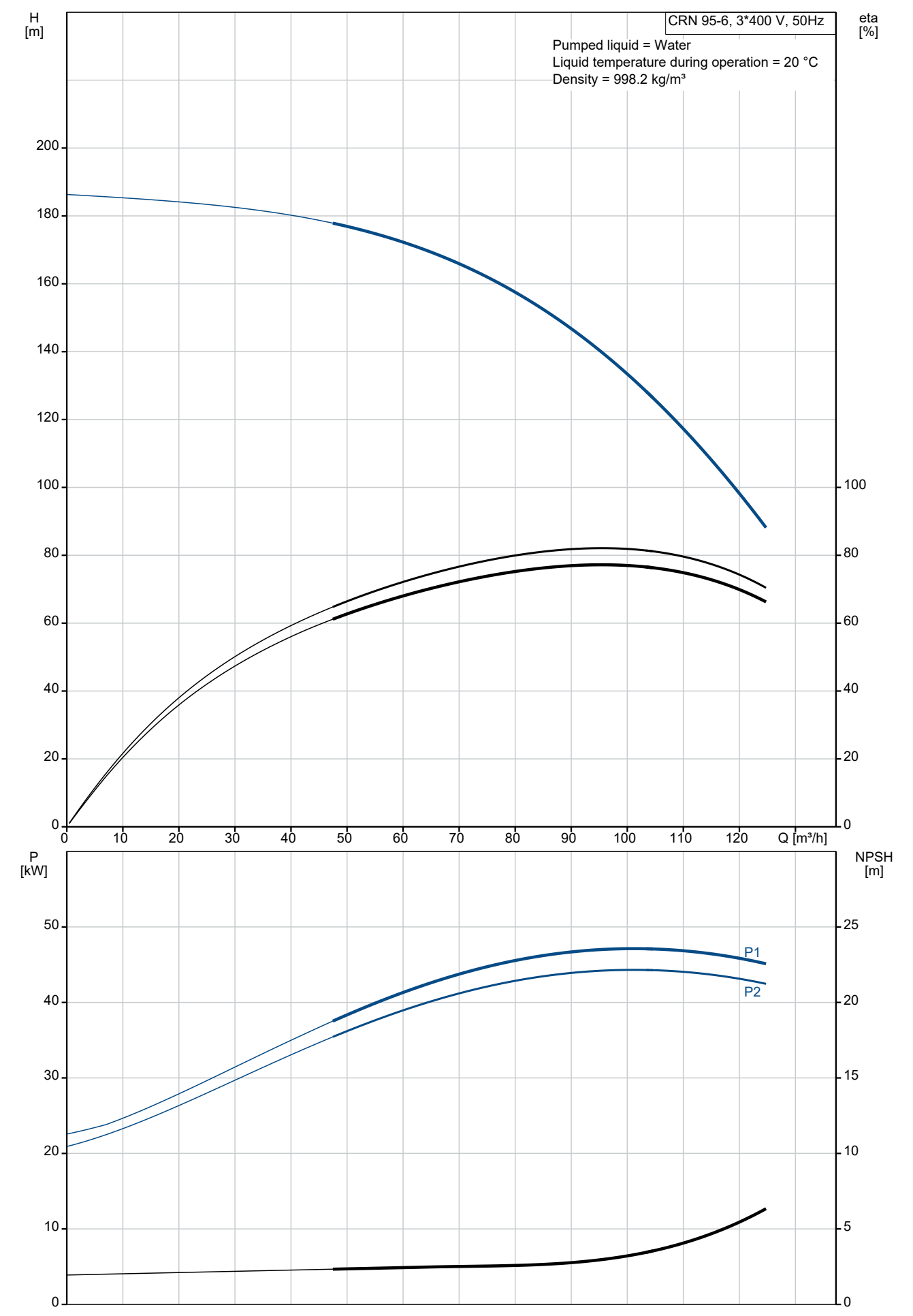
Datasheet



Qty.	Description																																																								
1	CRN 95-6 A-F-A-E-HQQE  Note! Product picture may differ from actual product Product No.: 99141765 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. The Grundfos 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. Liquid: <table> <tr> <td>Pumped liquid:</td><td>Water</td></tr> <tr> <td>Liquid temperature range:</td><td>-40 .. 120 °C</td></tr> <tr> <td>Selected liquid temperature:</td><td>20 °C</td></tr> <tr> <td>Density:</td><td>998.2 kg/m³</td></tr> </table> Technical: <table> <tr> <td>Pump speed on which pump data are based:</td><td>2966 rpm</td></tr> <tr> <td>Rated flow:</td><td>95 m³/h</td></tr> <tr> <td>Rated head:</td><td>140.3 m</td></tr> <tr> <td>Pump orientation:</td><td>Vertical</td></tr> <tr> <td>Shaft seal arrangement:</td><td>Single</td></tr> <tr> <td>Code for shaft seal:</td><td>HQQE</td></tr> <tr> <td>Approvals:</td><td>CE,EAC,UKCA,ACS,WRAS</td></tr> <tr> <td>Curve tolerance:</td><td>ISO9906:2012 3B</td></tr> </table> Materials: <table> <tr> <td>Base:</td><td>Stainless steel EN 1.4408</td></tr> <tr> <td>Impeller:</td><td>Stainless steel EN 1.4401</td></tr> <tr> <td>Bearing:</td><td>WC/WC</td></tr> <tr> <td>Support bearing:</td><td>Graflon</td></tr> <tr> <td>Material certified according to:</td><td>European standards</td></tr> </table> Installation: <table> <tr> <td>Maximum ambient temperature:</td><td>55 °C</td></tr> <tr> <td>Maximum operating pressure:</td><td>25 bar</td></tr> <tr> <td>Max pressure at stated temp:</td><td>25 bar / 120 °C</td></tr> <tr> <td>Type of connection:</td><td>DIN</td></tr> <tr> <td>Size of inlet connection:</td><td>DN 100</td></tr> <tr> <td>Size of outlet connection:</td><td>DN 100</td></tr> <tr> <td>Pressure rating for connection:</td><td>PN 25/40</td></tr> <tr> <td>Flange size for motor:</td><td>FF400</td></tr> </table> Electrical data: <table> <tr> <td>Motor standard:</td><td>IEC</td></tr> <tr> <td>Motor type:</td><td>SIEMENS</td></tr> <tr> <td>IE Efficiency class:</td><td>IE3</td></tr> </table>	Pumped liquid:	Water	Liquid temperature range:	-40 .. 120 °C	Selected liquid temperature:	20 °C	Density:	998.2 kg/m ³	Pump speed on which pump data are based:	2966 rpm	Rated flow:	95 m ³ /h	Rated head:	140.3 m	Pump orientation:	Vertical	Shaft seal arrangement:	Single	Code for shaft seal:	HQQE	Approvals:	CE,EAC,UKCA,ACS,WRAS	Curve tolerance:	ISO9906:2012 3B	Base:	Stainless steel EN 1.4408	Impeller:	Stainless steel EN 1.4401	Bearing:	WC/WC	Support bearing:	Graflon	Material certified according to:	European standards	Maximum ambient temperature:	55 °C	Maximum operating pressure:	25 bar	Max pressure at stated temp:	25 bar / 120 °C	Type of connection:	DIN	Size of inlet connection:	DN 100	Size of outlet connection:	DN 100	Pressure rating for connection:	PN 25/40	Flange size for motor:	FF400	Motor standard:	IEC	Motor type:	SIEMENS	IE Efficiency class:	IE3
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Qty.	Description
	Rated power - P2: 45 kW Power (P2) required by pump: 45 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y V Rated current: 81,0-74,0/47,0-43,0 A Starting current: 690-690 % Cos phi - power factor: 0.89 Rated speed: 2960 rpm Efficiency: IE3 94,0% Motor efficiency at full load: 94.0-94.0 % Motor efficiency at 3/4 load: 94.5-94.5 % Motor efficiency at 1/2 load: 94.4-94.4 % Number of poles: 2 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 81U15336 Controls: Frequency converter: NONE Others: Net weight: 480 kg Gross weight: 626 kg Shipping volume: 2.04 m³ Finnish LVI No.: 4925620 Thrust handling device: N Country of origin: DK Custom tariff no.: 84137075

99141765 CRN 95-6 A-F-A-E-HQQE 50 Hz



Description	Value
General information:	
Product name:	CRN 95-6 A-F-A-E-HQQE
Product No:	99141765
EAN number:	5712607527730
Technical:	
Pump speed on which pump data are based:	2966 rpm
Rated flow:	95 m³/h
Rated head:	140.3 m
Maximum head:	186.3 m
Stages:	6
Impellers:	6
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals:	CE,EAC,UKCA,ACS,WRAS
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Cooling:	IC 411
Materials:	
Base:	Stainless steel
Base:	EN 1.4408
Impeller:	Stainless steel
Impeller:	EN 1.4401
Material code:	A
Code for rubber:	E
Bearing:	WC/WC
Support bearing:	Graflon
Material certified according to:	European standards
Installation:	
Maximum ambient temperature:	55 °C
Maximum operating pressure:	25 bar
Max pressure at stated temp:	25 bar / 120 °C
Type of connection:	DIN
Size of inlet connection:	DN 100
Size of outlet connection:	DN 100
Pressure rating for connection:	PN 25/40
Flange size for motor:	FF400
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-40 .. 120 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor standard:	IEC
Motor type:	SIEMENS
IE Efficiency class:	IE3
Rated power - P2:	45 kW
Power (P2) required by pump:	45 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420D/660-725Y V
Rated current:	81,0-74,0/47,0-43,0 A
Starting current:	690-690 %
Cos phi - power factor:	0.89
Rated speed:	2960 rpm
Efficiency:	IE3 94,0%
Motor efficiency at full load:	94.0-94.0 %
Motor efficiency at 3/4 load:	94.5-94.5 %
Motor efficiency at 1/2 load:	94.4-94.4 %

CRN 95-6, 3*400 V, 50Hz

Pumped liquid = Water
Liquid temperature during operation = 20 °C
Density = 998.2 kg/m³

H [m]

200

180

160

140

120

100

80

60

40

20

0

Q [m³/h]

0

20

40

60

80

100

120

eta [%]

100

80

60

40

20

0

P [kW]

50

40

30

20

10

0

NPSH [m]

25

20

15

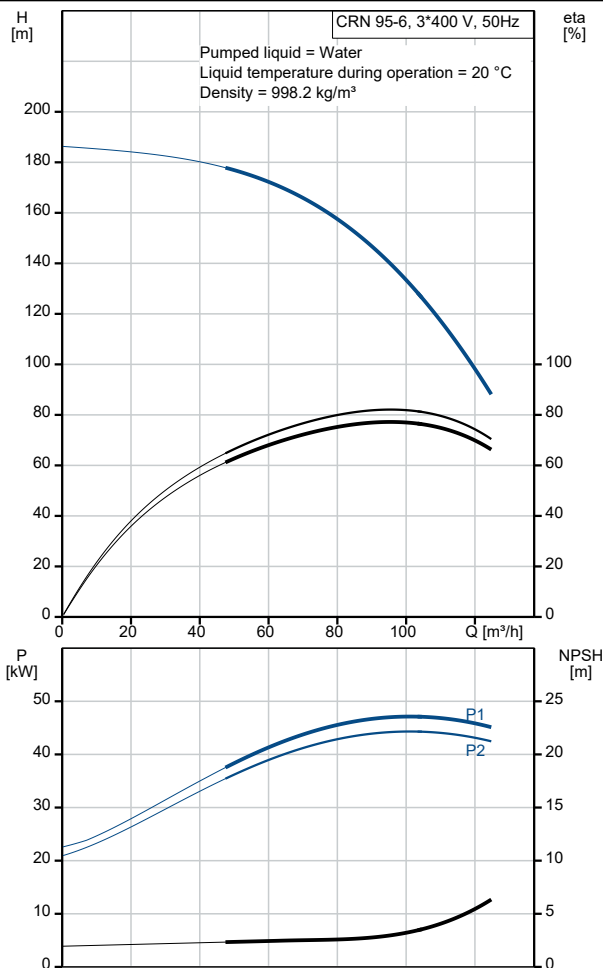
10

5

0

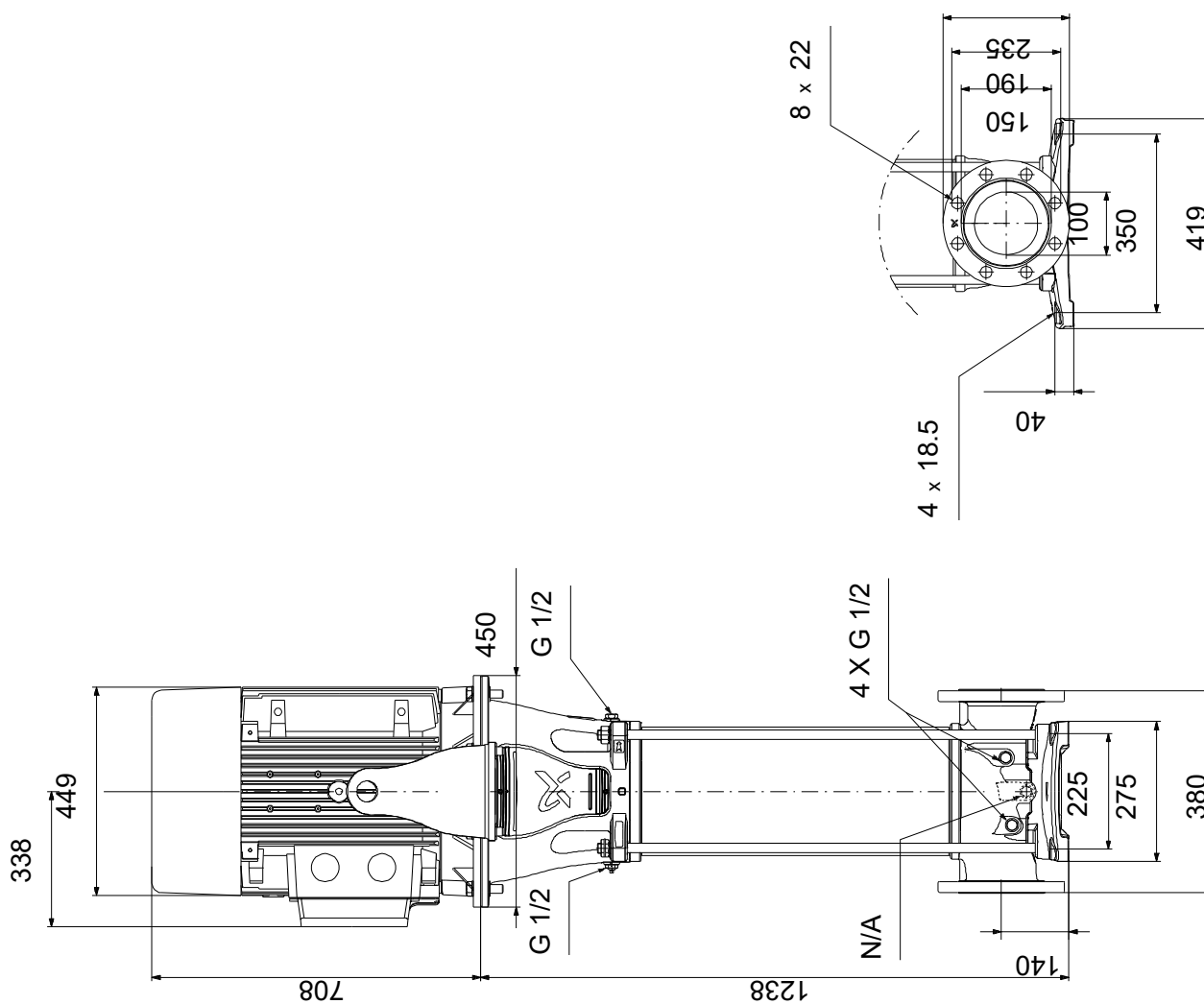
P1

P2



Description	Value
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	81U15336
Controls:	
Frequency converter:	NONE
Others:	
Net weight:	480 kg
Gross weight:	626 kg
Shipping volume:	2.04 m ³
Finnish LVI No.:	4925620
Thrust handling device:	N
Country of origin:	DK
Custom tariff no.:	84137075

99141765 CRN 95-6 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.

Spare parts CRN 95-6, Product No. 99141765
Produced After 1827 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, bearing			99415825	1	pcs
- 47a	Bearing cpl.				2	
	Driver				1	
	Retainer				1	
-	Kit, coupling			99190039	1	pcs
- 8	Coupling cpl.				1	
10a	Coupling				2	
9	Hex socket head cap screw		Designation: DIN 912		4	
			Length (mm): 25			
			Thread: M10			
10	Parallel pin				1	
-	Kit, coupling guard			99196381	2	pcs
7b	Lock washer				2	
7a	Screw				2	
7	Coupling guard				1	
-	Kit, flange			99432755	1	pcs
440b	Lock ring				1	
440a	Flange		Diameter: DN 100		1	
			Pressure: PN 40			
-	Kit, impeller			99124955	6	pcs
48	Nut				1	
49b	Split cone				1	
49	Impeller				1	
-	Kit, O-rings			99262378	1	pcs
37	O-ring				2	
38	O-ring				8	
109	O-ring				1	
110	O-ring		Diameter: 21,5		1	
			Material type: EPDM			
			Thickness: 4,25			
-	Kit, plug			99262366	1	pcs
-	Plug cpl.				5	
25	Plug				1	
38	O-ring				1	
-	Air vent screw				1	
- 18	Air vent screw				1	
	Spindle					
	Plug					
38	O-ring				1	
-	Kit, shaft seal HQQE			99262346	1	pcs
	Grinding device				1	
105	Shaft seal				1	
-	Kit, staybolts			99190083	4	pcs
26	Staybolt				1	
36	Nut				1	
66a	Washer				1	
-	Kit, strap			99190051	2	pcs
26c	Washer		Designation: DIN 125A		1	
			Thickness: 1,6			
26b	Hex head screw				1	
26a	Strap				1	
-	Kit, wear parts			99262424	1	pcs
	Adjusting fork				1	
45	Neck ring				8	
47d	Lock ring				6	
47c	Bush				6	
65	Neck ring retainer				8	
-	Motor			99759458	1	pcs
156	Kit, fan			98671984	1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
151	Kit, fan cover			98062276	1	
156b	Kit, flange			98062292	1	
	Kit, lubrication nipple			98062533	1	
156a	Kit, ND-end shield cpl.			98062518	1	
159b	Kit, seal ring			98062552	1	
176	Kit, terminal board			98062237	1	
164a	Kit, terminal box			98062263	1	
2	Cover			99196494	1	pcs
+ 3	Chamber			99262581	1	pcs
- 3	Chamber			99262629	1	pcs
47c	Bush			99321194	1	
+ 3	Chamber			99196631	1	pcs
+ 4a	Chamber			99446222	2	pcs
+ 4a	Chamber			99446253	2	pcs
+ 4a	Chamber			99415871	2	pcs
+ 4	Chamber			99262577	3	pcs
+ 4	Chamber			99262625	3	pcs
+ 4	Chamber			99196627	3	pcs
6	Base			99196467	1	pcs
26c	Washer	Designation: DIN 125A		99262704	2	pcs
		Thickness: 1,6				
26c	Washer	Designation: DIN 125A		99886930	2	pcs
		Thickness: 1,6				
28	Hex head screw			99869043	4	pcs
28	Hex head screw	Length (mm): 60		97506949	4	pcs
		Thread: M16				
32	Washer	Designation: DIN 125 A		98923051	16	pcs
		Internal diameter: 17				
		Outer diameter: 30				
		Thickness: 3				
36	Nut			99262692	4	pcs
+ 44	Suction part			99196613	1	pcs
44a	Discharge part			99196621	1	pcs
48	Nut			99262680	6	pcs
48	Nut			99262683	6	pcs
48	Nut			96536016	6	pcs
49	Impeller			99721389	6	pcs
49b	Split cone			99262686	6	pcs
49b	Split cone			99262689	6	pcs
51	Shaft			99196541	1	pcs
55	Sleeve			99196424	1	pcs
56	Base plate			99196483	1	pcs
66a	Washer			99262699	4	pcs