Qty. | Description

1 CR 15-4 A-F-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: On request

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.

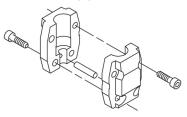
The entire process consists of these elements:

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

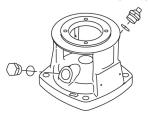
The colour code for the finished product is NCS 9000/RAL 9005.

Pump

A standard split coupling connects the pump and motor shaft. It is enclosed in the pump head/motor stool by means of two coupling guards.



The pump head, pump head cover and flange for motor mounting is made in one piece. The pump head has a combined 1/2" priming plug and vent screw.



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.

Seal faces:

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

Qty. | Description

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 base is made of cast iron. The flanges and base are cast in one piece. The outlet side of the base has a drain plug. The pump is secured to the foundation by four bolts through the base plate.



Motor

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

Motor-mounting designation in accordance with IEC 60034-7: IM B 14 (Code I) / IM 3601 (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

Liquid:

Pumped liquid: Water
Liquid temperature range: -20 .. 120 °C
Selected liquid temperature: 20 °C
Density: 998.2 kg/m³

Technical:

Pump speed on which pump data are based: 2917 rpm

Rated flow: 17 m³/h
Rated head: 44.8 m
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQE

Approvals: CE,EAC,UKCA,SEPRO

Approvals for drinking water: WRAS,ACS
Curve tolerance: ISO9906:2012 3B

Materials:

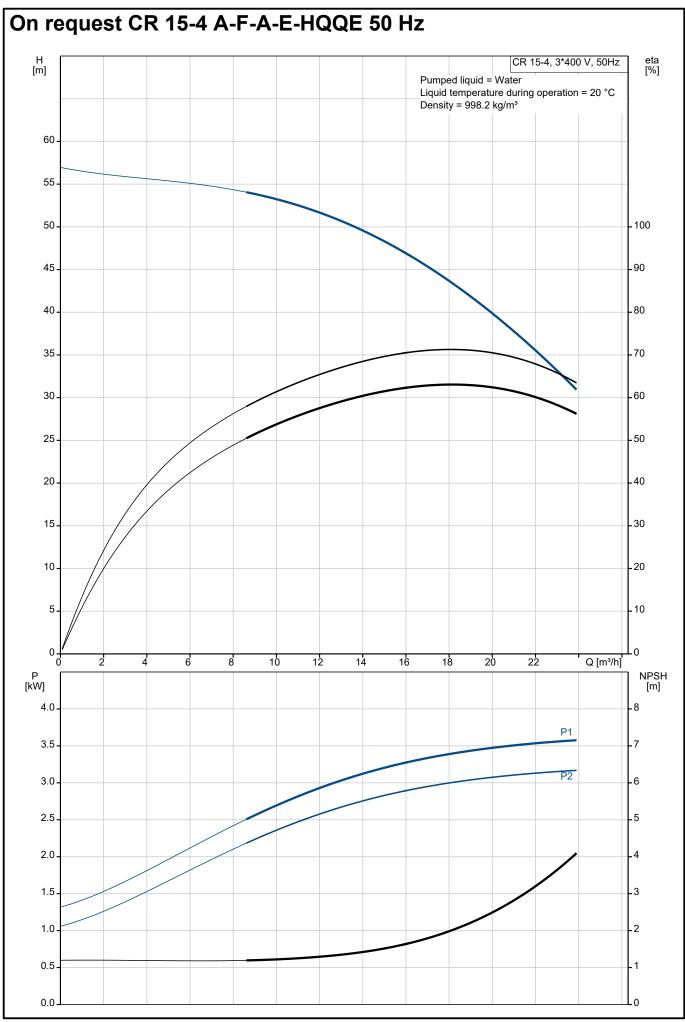
Base: Cast iron

EN 1561 EN-GJL-200 ASTM A48-25B

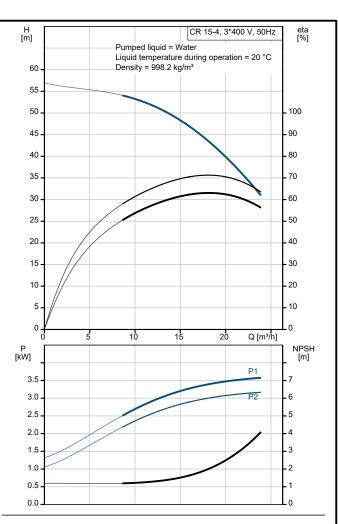
Impeller: Stainless steel

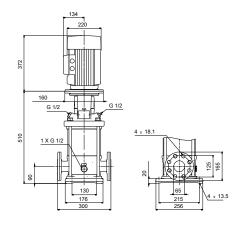
EN 1.4301

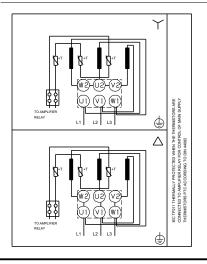
Description Qty. **AISI 304** Bearing: SIC Installation: t max amb: 60 °C 16 bar Maximum operating pressure: 16 bar / 120 °C Max pressure at stated temp: 16 bar / -20 °C Type of connection: DIN DN 50 Size of inlet connection: Size of outlet connection: DN 50 Pressure rating for connection: PN 25 Flange size for motor: FT130 Electrical data: Motor standard: IEC Motor type: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Power (P2) required by pump: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm Efficiency: IE3 88,1% Motor efficiency at full load: 88.1 % Motor efficiency at 3/4 load: 88.6 % Motor efficiency at 1/2 load: 85.2 % Number of poles: Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): Motor No: 85U15413 Controls: Frequency converter: NONE Minimum efficiency index, MEI ≥: 0.70 Net weight: 72 kg Gross weight: 94 kg Shipping volume: 0.234 m³ Danish VVS No.: 385904341 Swedish RSK No.: 5823475 Finnish LVI No.: 4925434



Description	Value
General information:	
Product name:	CR 15-4
1 Toduct Hame.	A-F-A-E-HQQE
Product No:	On request
EAN number:	On request
Price:	
Technical:	
Pump speed on which pump data are	2017 rpm
based:	2917 rpm
Rated flow:	17 m³/h
Rated head:	44.8 m
Maximum head:	56.8 m
Stages:	4
Impellers:	4
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	
	HQQE
Approvals:	CE,EAC,UKCA,SEPRO
Approvals for drinking water:	WRAS,ACS
	ISO9906:2012 3B
Curve tolerance:	
Pump version:	A
Model:	Α
Materials:	
Base:	Cast iron
Base:	EN 1561 EN-GJL-200
Base:	ASTM A48-25B
Impeller:	Stainless steel
Impeller:	EN 1.4301
Impeller:	AISI 304
Material code:	A
Code for rubber:	Е
Bearing:	SIC
Installation:	
t max amb:	60 °C
Maximum operating pressure:	16 bar
Max pressure at stated temp:	16 bar / 120 °C
Max pressure at stated temp:	16 bar / -20 °C
Type of connection:	DIN
Size of inlet connection:	DN 50
Size of outlet connection:	DN 50
Pressure rating for connection:	PN 25
Flange size for motor:	FT130
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-20 120 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³
Electrical data:	556.2 kg/m
Motor standard:	IEC
	112MC
Motor type:	
IE Efficiency class:	IE3
Rated power - P2:	4 kW
Power (P2) required by pump:	4 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415D V
Rated current:	7.9 A
Starting current:	1000-1110 %
Cos phi - power factor:	0.87-0.87
Rated speed:	2920-2940 rpm
Efficiency:	IE3 88,1%
Motor efficiency at full load:	88.1 %

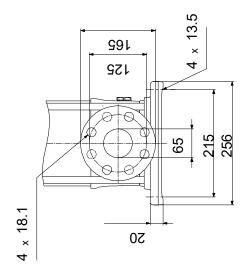


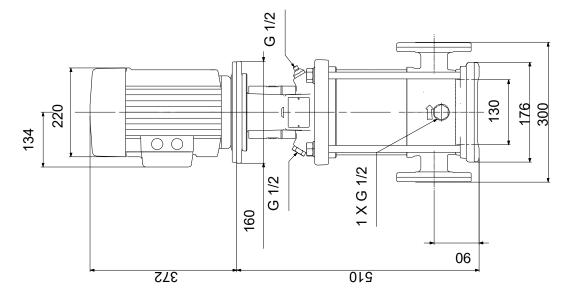




Description	Value
Motor efficiency at 3/4 load:	88.6 %
Motor efficiency at 1/2 load:	85.2 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	85U15413
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	72 kg
Gross weight:	94 kg
Shipping volume:	0.234 m³
Danish VVS No.:	385904341
Swedish RSK No.:	5823475
Finnish LVI No.:	4925434

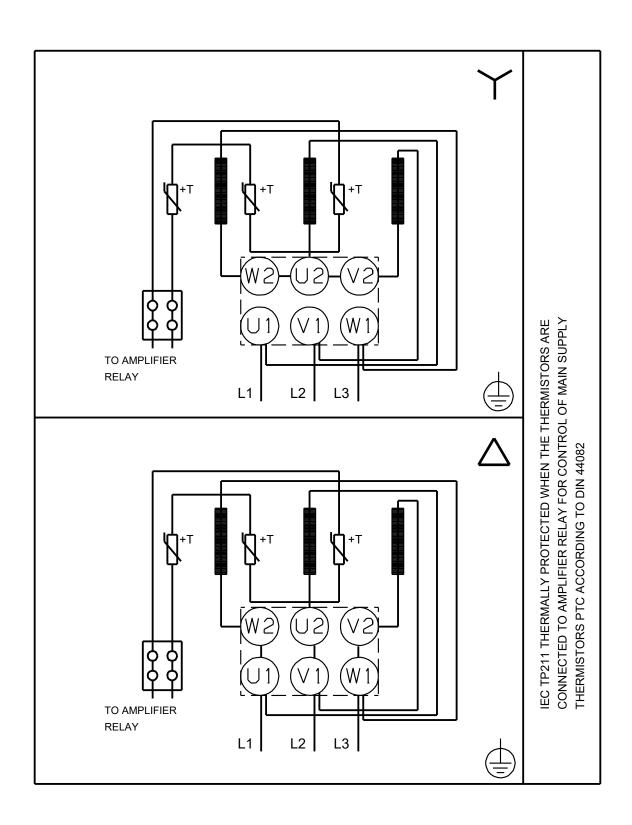
On request CR 15-4 A-F-A-E-HQQE 50 Hz





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

On request CR 15-4 A-F-A-E-HQQE 50 Hz



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

Spare parts CR 15-4, Product No. On request Produced After 1152 (production year and week number)

Pos	Description Wit Chamber steel	Annotation	Classification Data	Part no.	Qty	
00	Kit, Chamber stack			96508456	1	р
80	Chamber stack					1
3	Top intermediate chamber					
	Intermediate chamber					
	Front plate					
	Guide vane					
4a	Intermediate chamber cpl.					
	Bearing plate					
3	Intermediate chamber					
45	Neck ring cpl.					
47	Bearing bush					
65	Retainer for upper seal ring					
4	Intermediate chamber cpl.					
45	Neck ring cpl.					
65	Retainer for upper seal ring					
26a	Strap cpl.					
26.c	Washer		Designation: DIN 125A			
			Thickness: 1,6			
26.b	Hex head screw		,			
44b	Inlet part					
44a	Inlet part cpl.					
-11 a	Sand Lifter					
	Guide cup					
	Inlet part					
45	Neck ring cpl.					
65	Retainer for upper seal ring					
47a	Bearing ring					
49	Impeller cpl.					
	Impeller plate					
	Impeller plate					
	Blade					
49c	Wear ring					
51	Shaft, spline, cpl.					
	Bar					
62	Stop ring					
64d	Spacing bush					
64c	Spacer					
64b	Spacing bush		Length (mm): 5.00			
64a	Spacing pipe		Internal diameter: 17,5			
			Length (mm): 17			
64	Spacing pipe		Length (mm): 43.6			
66	Wedge lock washer					
67	Lock nut		Thread: M8			
			TITEAU. IVIO			
69	Spacing bush			00544050	_	
	Kit, Coupling			96511350	ı	р
	Adjusting fork					1
9	Hex socket head cap screw		Designation: DIN 912			4
			Length (mm): 25			
			Thread: M8			
10a	Coupling half					2
10	Shaft pin		Diameter: 5			1
-			Length (mm): 26			
	Kit, Coupling guard			96509612	1	r
7.				303030 IZ	'	p
7a	Combi Slot Torx screw					4
7	Coupling guard					2
	Kit, Gaskets			96509609	1	р
	Gasket					2
24	O-ring					2
37	O-ring					2

Pos	Description	Annotation Classification Data Part no. Qt	y. Uı
38	O-ring		1
38	O-ring		1
38	O-ring		2
60	Spring		4
415	Gasket	Internal diameter: 44	2
		Outer diameter: 60	
		Thickness: 2	
4446	Contrat		_
441b	Gasket	Internal diameter: 49	2
		Outer diameter: 92	
		Thickness: 2	
	Kit, Plug	96511311 1	р
18	Air vent screw		1
	Spindle		
	Plug		
25a	Drain plug		1
25	Plug		1
38	O-ring		1
38	O-ring		1
38	O-ring		2
38	O-ring	Diameter: 5,3	1
	-	Material type: FKM	
		Thickness: 2,4	
38	O-ring	Diameter: 16,3	1
50	O-ring		1
		Material type: FKM	
		Thickness: 2,4	
38	O-ring	Diameter: 16,3	2
		Material type: FKM	
		Thickness: 2,4	
	Kit, Shaft seal HQQE	96511844 1	р
105	Shaft seal	Material type: HQQE	1
100			
4.	Kit, Wear parts	96511824 1	po
4a	Intermediate chamber cpl.		1
	Sand Lifter		
	Guide cup		
	Bearing plate		
	Guide vane		
3	Intermediate chamber		
45	Neck ring cpl.		
47	Bearing bush		
65	Retainer		
		D ' ' ' DIN 1071	^
26c	Washer	Designation: DIN 125A	2
		Thickness: 1,6	
26b	Hex head screw		2
45	Neck ring cpl.		5
47a	Bearing ring		1
49c	Wear ring		6
62	Retaining ring		1
64d	Spacing bush		1
64c	Spacer		1
64b	Spacing bush	Length (mm): 5.00	1
64a	Spacing pipe	Internal diameter: 17,5	1
		Length (mm): 17	
65	Retainer	- ,	5
66	Wedge lock washer		1
67	Lock nut	Thread: M8	1
01	Motor		
		85903740 1	po
	Kit, Bearing cpl.	96279802	1
111	Ball bearing	Designation: 6206.2Z.C3.SYN	
153	Angular-contact bearing		
157	O-ring	Diameter: 62	
-	<u> </u>	Material type: NBR	
		Thickness: 3	
	Maria da	THICKIESS. 3	
450			
158	Waved washer Kit, End shield	96279790	

Pos	Description	Annotation Classification Data Part no. Qty	/. U
156a	End shield		
157	O-ring	Diameter: 62	
	•	Material type: NBR	
		Thickness: 3	
150	Mayadwaahar	THICKIESS. 3	
158	Waved washer		
159a	Seal ring		
	Kit, Eyebolt	96279825	1
189	Eyebolt		
	Kit, Fan	96279758	1
156	Fan	00210100	•
159c	Seal ring		
159a	Seal ring		
	Kit, Fan cover	96279756	1
151b	Label		
151	Fan cover		
152	Pan head thread forming screv	AI	
132	-		,
	Kit, Flange	96279779	1
156b	Flange		
159.c	Seal ring		
186	Drain plug		
	Kit, Shaft seal	96279763	1
159c	Seal ring	33213100	•
	<u> </u>		
159a	Seal ring		
	Kit, Staybolts	96279793	1
181	Pan head staybolt		
	Kit, Terminal board	96279769	1
	Bracket cpl.		
163	Hex socket head screw		
173a	Base		
173	Pan head thread forming screv	N Designation: COMBI TORX T25	
176	Slot cheese head screw	Designation: COMBI TORX T25	
		Length (mm): 10	
		Thread: M5	
170	Townships	HIIIGAU. IVIJ	
176	Terminal		
176	Connecting piece		
176	Wire clamp		
176	Terminal board		
177	Pan head screw		
177			
		06070770	4
40.	Kit, Terminal box	96279772	1
164	Kit, Terminal box Terminal box cover w/gasket		1
164 166	Kit, Terminal box		1
	Kit, Terminal box Terminal box cover w/gasket		1 p
166 2a	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screw Pump head	N 98785091 1	p
166 2a 3	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screv Pump head Top intermediate chamber	w 98785091 1 96538971 1	p p
166 2a 3 3	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screv Pump head Top intermediate chamber Top intermediate chamber	98785091 1 96538971 1 98371105 1	p p
166 2a 3 3 4a	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screw Pump head Top intermediate chamber Top intermediate chamber Intermediate chamber cpl.	98785091 1 96538971 1 98371105 1 98371109 1	p p p
166 2a 3 3	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screv Pump head Top intermediate chamber Top intermediate chamber	98785091 1 96538971 1 98371105 1	p p
166 2a 3 3 4a	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screw Pump head Top intermediate chamber Top intermediate chamber Intermediate chamber cpl.	98785091 1 96538971 1 98371105 1 98371109 1 96535086	р р р
166 2a 3 3 4a 3 4a	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screv Pump head Top intermediate chamber Top intermediate chamber Intermediate chamber cpl. Intermediate chamber Intermediate chamber cpl.	98785091 1 96538971 1 98371105 1 98371109 1 96535086 96538842 1	p p p
166 2a 3 3 4a 3 4a 4a 4a	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screv Pump head Top intermediate chamber Top intermediate chamber Intermediate chamber cpl.	98785091 1 96538971 1 98371105 1 98371109 1 96535086 96538842 1 98371108 1	p p p p
166 2a 3 3 4a 3 4a 4a 4a 4	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screv Pump head Top intermediate chamber Top intermediate chamber Intermediate chamber cpl.	98785091 1 96538971 1 98371105 1 98371109 1 96535086 96538842 1 98371108 1 98371107 2	p p p p
166 2a 3 3 4a 3 4a 4a 4a	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screv Pump head Top intermediate chamber Top intermediate chamber Intermediate chamber cpl.	98785091 1 96538971 1 98371105 1 98371109 1 96535086 96538842 1 98371108 1 98371107 2	p p p p
166 2a 3 3 4a 3 4a 4a 4a 4	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screv Pump head Top intermediate chamber Top intermediate chamber Intermediate chamber cpl.	98785091 1 96538971 1 98371105 1 98371109 1 96535086 96538842 1 98371108 1 98371107 2 97699527	p p p p
166 2a 3 3 4a 3 4a 4a 4 65 65	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screv Pump head Top intermediate chamber Top intermediate chamber Intermediate chamber cpl. Retainer for upper seal ring Retainer for upper seal ring	98785091 1 96538971 1 98371105 1 98371109 1 96535086 96538842 1 98371108 1 98371107 2 97699527 96587913	p p p 1 p p
166 2a 3 3 4a 3 4a 4a 4 65 65	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screv Pump head Top intermediate chamber Top intermediate chamber Intermediate chamber cpl. Intermediate chamber Intermediate chamber cpl. Intermediate chamber cpl. Intermediate chamber cpl. Retainer for upper seal ring Retainer for upper seal ring Intermediate chamber cpl.	98785091 1 96538971 1 98371105 1 98371109 1 96535086 96538842 1 98371108 1 98371107 2 97699527 96587913 96538817 2	P P P P P P P P P P P P P P P P P P P
166 2a 3 3 4a 3 4a 4a 4 65 65 4	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screv Pump head Top intermediate chamber Top intermediate chamber Intermediate chamber cpl. Intermediate chamber Intermediate chamber cpl. Retainer for upper seal ring Retainer for upper seal ring Intermediate chamber cpl. Intermediate chamber cpl. Intermediate chamber cpl.	98785091 1 96538971 1 98371105 1 98371109 1 96535086 96538842 1 98371108 1 98371107 2 97699527 96587913 96538817 2 98371106 2	p p p p p 1 1 1 p p p
166 2a 3 4a 3 4a 4a 4 65 65 4 4	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screv Pump head Top intermediate chamber Top intermediate chamber Intermediate chamber cpl. Base	98785091 1 96538971 1 98371105 1 98371109 1 96535086 96538842 1 98371108 1 98371107 2 97699527 96587913 96538817 2 98371106 2 98681111 1	p p p p 1 1 1 p p p p
166 2a 3 3 4a 3 4a 4a 4 65 65 4	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screv Pump head Top intermediate chamber Top intermediate chamber Intermediate chamber cpl. Intermediate chamber Intermediate chamber cpl. Retainer for upper seal ring Retainer for upper seal ring Intermediate chamber cpl. Intermediate chamber cpl. Intermediate chamber cpl.	98785091 1 96538971 1 98371105 1 98371109 1 96535086 96538842 1 98371108 1 98371107 2 97699527 96587913 96538817 2 98371106 2	p p p p p 1 1 1 p p p
166 2a 3 3 4a 3 4a 4a 4 65 65 4 4	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screv Pump head Top intermediate chamber Top intermediate chamber Intermediate chamber cpl. Base	98785091 1 96538971 1 98371105 1 98371109 1 96535086 96538842 1 98371108 1 98371107 2 97699527 96587913 96538817 2 98371106 2 98681111 1	p p p p 1 1 1 p p p p
166 2a 3 3 4a 3 4a 4a 4 65 65 4 4 6 7.a	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screv Pump head Top intermediate chamber Top intermediate chamber Intermediate chamber cpl. Retainer for upper seal ring Retainer for upper seal ring Intermediate chamber cpl. Intermediate chamber cpl. Base Combi Slot Torx screw	98785091 1 96538971 1 98371105 1 98371109 1 96535086 96538842 1 98371108 1 98371107 2 97699527 96587913 96538817 2 98371106 2 98681111 1 96886324 4 Diameter: 5	P P P P P P P P P P P P P P P P P P P
166 2a 3 3 4a 3 4a 4a 4 65 65 4 4 6 7.a 10	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screv Pump head Top intermediate chamber Top intermediate chamber Intermediate chamber cpl. Retainer for upper seal ring Retainer for upper seal ring Intermediate chamber cpl. Intermediate chamber cpl. Intermediate chamber cpl. Base Combi Slot Torx screw Shaft pin	98785091 1 96538971 1 98371105 1 98371109 1 96535086 96538842 1 98371108 1 98371107 2 97699527 96587913 96538817 2 98371106 2 98681111 1 96886324 4 Diameter: 5 96536473 1 Length (mm): 26	p p p p p 1 1 1 p p p p p p p p p p p p
166 2a 3 4a 3 4a 4a 4 65 65 4 4 6 7.a	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screv Pump head Top intermediate chamber Top intermediate chamber Intermediate chamber cpl. Retainer for upper seal ring Retainer for upper seal ring Intermediate chamber cpl. Intermediate chamber cpl. Base Combi Slot Torx screw	98785091 1 96538971 1 98371105 1 98371109 1 96535086 96538842 1 98371108 1 98371107 2 97699527 96587913 96538817 2 98371106 2 98681111 1 96886324 4 Diameter: 5 96586473 1 Length (mm): 26 Diameter: 5 96587588 1	P P P P P P P P P P P P
166 2a 3 3 4a 3 4a 4a 4 65 65 4 4 6 7.a 10	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screv Pump head Top intermediate chamber Top intermediate chamber Intermediate chamber cpl. Retainer for upper seal ring Retainer for upper seal ring Intermediate chamber cpl. Intermediate chamber cpl. Intermediate chamber cpl. Base Combi Slot Torx screw Shaft pin	98785091 1 96538971 1 98371105 1 98371109 1 96535086 96538842 1 98371108 1 98371107 2 97699527 96587913 96538817 2 98371106 2 98681111 1 96886324 4 Diameter: 5 96536473 1 Length (mm): 26	p p p p p 1 1 1 p p p p p p p p p p p p
166 2a 3 3 4a 3 4a 4a 4 65 65 4 4 6 7.a 10	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screv Pump head Top intermediate chamber Top intermediate chamber Intermediate chamber cpl. Retainer for upper seal ring Retainer for upper seal ring Intermediate chamber cpl. Intermediate chamber cpl. Intermediate chamber cpl. Base Combi Slot Torx screw Shaft pin	98785091 1 96538971 1 98371105 1 98371109 1 96535086 96538842 1 98371108 1 98371107 2 97699527 96587913 96538817 2 98371106 2 98681111 1 96886324 4 Diameter: 5 96586473 1 Length (mm): 26 Diameter: 5 96587588 1	p p p p p 1 1 1 p p p p p p p p p p p p
166 2a 3 3 4a 3 4a 4 65 65 4 4 6 7.a 10	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screv Pump head Top intermediate chamber Top intermediate chamber Intermediate chamber cpl. Retainer for upper seal ring Retainer for upper seal ring Intermediate chamber cpl. Intermediate chamber cpl. Intermediate chamber cpl. Shaft pin Shaft pin Air vent screw	98785091 1 96538971 1 98371105 1 98371109 1 96535086 96538842 1 98371108 1 98371107 2 97699527 96587913 96538817 2 98371106 2 98681111 1 96886324 4 Diameter: 5 96536473 1 Length (mm): 26 Diameter: 5 96587588 1 Length (mm): 26	p p p p p p 1 1 p p p p p p p p p p p p
166 2a 3 3 4a 3 4a 4 65 65 4 4 6 7.a 10	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screv Pump head Top intermediate chamber Top intermediate chamber Intermediate chamber cpl. Retainer for upper seal ring Retainer for upper seal ring Intermediate chamber cpl. Intermediate chamber cpl. Intermediate chamber cpl. Sase Combi Slot Torx screw Shaft pin Air vent screw Air vent screw	98785091 1 96538971 1 98371105 1 98371109 1 96535086 96538842 1 98371108 1 98371107 2 97699527 96587913 96538817 2 98371106 2 98681111 1 96886324 4 Diameter: 5 96536473 1 Length (mm): 26 Diameter: 5 96587588 1 Length (mm): 26	p p p p p p p p p p p p p p p p p p p
166 2a 3 3 4a 4a 4 65 65 4 4 6 7.a 10	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screv Pump head Top intermediate chamber Top intermediate chamber Intermediate chamber cpl. Retainer for upper seal ring Retainer for upper seal ring Intermediate chamber cpl. Intermediate chamber cpl. Intermediate chamber cpl. Sase Combi Slot Torx screw Shaft pin Air vent screw Plug	98785091 1 96538971 1 98371105 1 98371109 1 96535086 96538842 1 98371108 1 98371107 2 97699527 96587913 96538817 2 98371106 2 98681111 1 96886324 4 Diameter: 5 96536473 1 Length (mm): 26 Diameter: 5 96587588 1 Length (mm): 26	p p p p p p p p p p p p p p p p p p p
166 2a 3 3 4a 3 4a 4 65 65 4 4 6 7.a 10	Kit, Terminal box Terminal box cover w/gasket Pan head thread forming screv Pump head Top intermediate chamber Top intermediate chamber Intermediate chamber cpl. Retainer for upper seal ring Retainer for upper seal ring Intermediate chamber cpl. Intermediate chamber cpl. Intermediate chamber cpl. Sase Combi Slot Torx screw Shaft pin Air vent screw Air vent screw	98785091 1 96538971 1 98371105 1 98371109 1 96535086 96538842 1 98371108 1 98371107 2 97699527 96587913 96538817 2 98371106 2 98681111 1 96886324 4 Diameter: 5 96536473 1 Length (mm): 26 Diameter: 5 96587588 1 Length (mm): 26	p p p p p p p p p p p p p p p p p p p

Pos		nnotation	Classification Data	Part no.	Qty.	Unit
26.c	Washer		Designation: DIN 125A	99262704	2	pcs
			Thickness: 1,6			
26.c	Washer		Designation: DIN 125A	99886930	2	pcs
			Thickness: 1,6			
26	Staybolt			98982842	4	pcs
28	Hex head screw		Length (mm): 25	99335941	4	pcs
			Thread: M8			
32	Washer		Designation: DIN 125 A	98923051	4	pcs
			Internal diameter: 17			
			Outer diameter: 30			
			Thickness: 3			
36	Hex nut		Thread: M16	96620480	4	pcs
37	O-ring			96538857	2	pcs
38	O-ring			99198791	1	pcs
38	O-ring			99198815	2	pcs
38	O-ring			99412727	2	pcs
44b	Inlet part			98814595	1	pcs
+ 44a	Inlet part cpl.			98818924	1	pcs
47a	Bearing ring			96538795	1	pcs
- 49	Impeller cpl.			98394448	4	pcs
49c	Wear ring			965473	340 1	
+ 51	Shaft, spline, cpl.			98368609	1	pcs
55	Outer sleeve			98812623	1	pcs
60	Spring			96538963	4	pcs
64d	Spacing bush			96538947	1	pcs
64c	Spacer			97980241	1	pcs
64b	Spacing bush		Length (mm): 5.00	96535098	1	pcs
64a	Spacing pipe		Internal diameter: 17,5	98417487	1	pcs
			Length (mm): 17			
64	Spacing pipe		Length (mm): 43.6	96535107	2	pcs
66	Wedge lock washer			96536157	1	pcs
66	Wedge lock washer			92575609	1	pcs
67	Lock nut		Thread: M8	98277008	1	pcs
69	Spacing bush			96538949	1	pcs
76a	Rivet			96620489	1	pcs
105	Shaft seal		Material type: HQQE	96538914	1	pcs