

CRE15-04 A-F-A-E-HQQE 3x380-500 60 HZ Grundfos pump 99071862

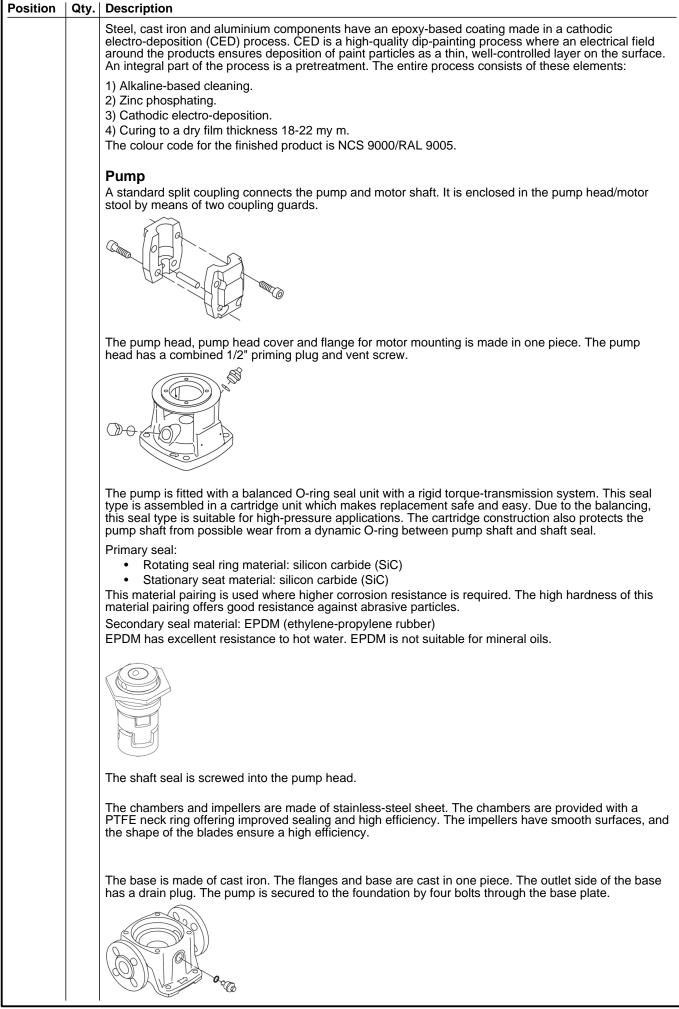


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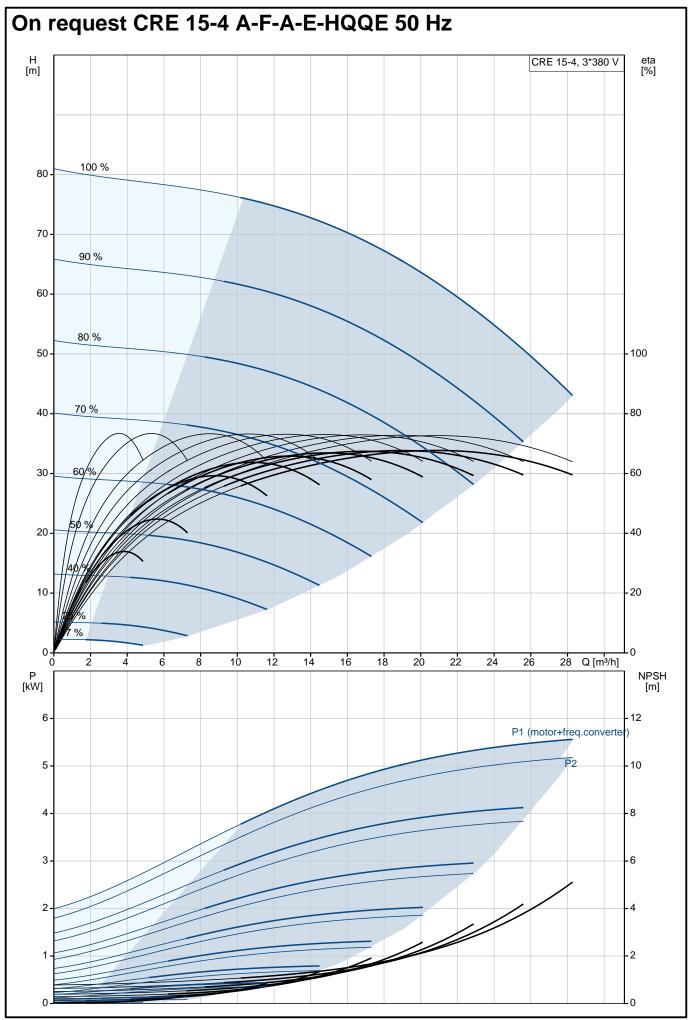
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Position	Qty.	Description
	1	CRE 15-4 A-F-A-E-HQQE
		Product No.: On request
		Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in stainless 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, permanent-magnet, synchronous motor. The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.
		The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable control of the motor speed, which again enables adaptation of the performance to a given requirement. An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The Grundfos Eye indicator on the operating panel provides visual indication of pump status:
		 "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights)
		 "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)
		 "Alarm": Motor has stopped (flashing red indicator lights).
		Communication with the pump is possible by means of Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".
		The terminal box has a number of inputs and outputs enabling the motor to be used in advanced applications where many inputs and outputs are required:
		 two dedicated digital inputs three analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V 5 V voltage supply to potentiometer and sensor
		 one analog output, 0-10 V, 0(4)-20 mA two configurable digital inputs or open-collector outputs
		 two Pt100/Pt1000 inputs
		 LiqTec, dry-running protection sensor input Grundfos Digital Sensor input and output
		 24 V voltage supply for sensors two signal-relay outputs (potential-free contacts)
		GENIbus connection
		 interface for Grundfos CIM fieldbus module.
		Further product details An external sensor can be connected if controlled pump operation based on for example flow,
		differential pressure or temperature is required. An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The Grundfos Eye indicator on the operating panel
		 provides visual indication of pump status: "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights)
		 indicator lights) "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)
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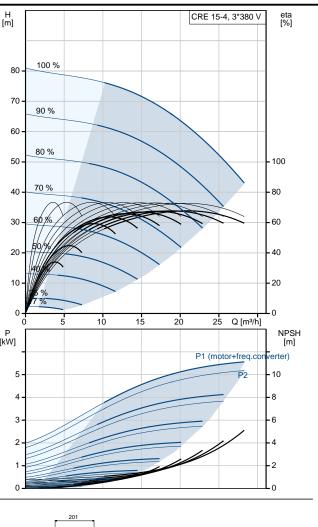


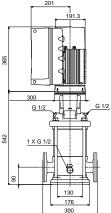
osition	Qty.	Description						
		Motor						
		The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standard. The motor is flange-mounted with free-hole flange (FF).						
		Motor-mounting designation in accordance with IEC 60034-7: IM B 5 (Code I) / IM 3001 (Code II) Electrical tolerances comply with IEC 60034.						
			as IE5 in accordance with IEC 60034-30-2.					
		The motor requires no external n slow- and quick-rising temperatu	notor protection. The motor control unit incorporates protection against res, e.g. constant overload and stalled conditions.					
		The terminal box has a number of inputs and outputs enabling the motor to be used in advanced applications where many inputs and outputs are required:						
		two dedicated digital inputs						
		 three analog inputs, 0(4)-2 5 V voltage supply to pote 	20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V					
		 one analog output, 0-10 V 						
			puts or open-collector outputs					
		two Pt100/Pt1000 inputs						
		LiqTec, dry-running protein						
		 Grundfos Digital Sensor in 24 V voltage supply for set 						
		 two signal-relay outputs () 						
		GENIbus connection						
		 interface for Grundfos CIN 	A fieldbus module.					
		Technical data						
		Controls:	Built-in					
		Frequency converter: Pressure sensor:	N					
		Liquid:						
		Pumped liquid:	Water					
		Liquid temperature range: Liquid temperature during operation	-20 120 °C tion: 20 °C					
		Density:	998.2 kg/m ³					
		Technical:	20.5 m³/h					
		Rated flow: Rated head:	64.5 m					
		Pump orientation:	Vertical					
		Shaft seal arrangement:	Single					
		Code for shaft seal:	HQQE					
		Approvals on nameplate:	CE, EAC,ACS					
		Curve tolerance:	ISO9906:2012 3B					
		Materials:	Castiron					
		Base:	Cast iron EN 1561 EN-GJL-200					
			ASTM A48-25B					
		Impeller:	Stainless steel					
			EN 1.4301					
		Bearing:	AISI 304 SIC					
		Installation:						
		Maximum ambient temperature:						
		Maximum operating pressure:	16 bar					
		Max pressure at stated temp:	16 bar / 120 °C 16 bar / -20 °C					
		Type of connection:	DIN					
		Size of inlet connection:	DN 50					
		Size of outlet connection:	DN 50					
		Pressure rating for pipe connecti Flange rating inlet:	on: PN 25 300 lb					
		Flange size for motor:	FF265					
	1							

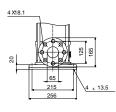
Position	Qty.	Description	
		Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Enclosure class (IEC 34-5): Insulation class (IEC 85):	IEC 132SE IE5 5.5 kW 50 Hz 3 x 380-500 V 10.3-8.20 A 0.92-0.88 360-4000 rpm 92.7% 92.7 % IP55 F
		Others: Minimum efficiency index, MEI Net weight: Gross weight: Shipping volume: Danish VVS No.:	
		os Product Contro (2018 06 002)	ΛΙΆ

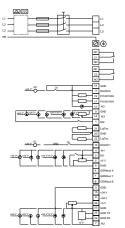


echnical: lated flow: lated head: tages: npellers: lumber of reduced-diameter impellers: ow NPSH: ump orientation:	CRE 15-4 A-F-A-E-HQQE On request 20.5 m ³ /h 64.5 m 4 4 0 N
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lumber of reduced-diameter impellers: ow NPSH: ump orientation:	N
ump orientation:	
ump orientation:	
	Vertical
	Single
-	HQQE
	CE, EAC,ACS
	ISO9906:2012 3B
	A
lodel: laterials:	Α
	Cast iron
ase:	easthen
	EN 1561 EN-GJL-200
	ASTM A48-25B
npeller:	Stainless steel
	EN 1.4301
	AISI 304
	A
code for rubber:	E
earing:	SIC
nstallation:	
laximum ambient temperature:	50 °C
laximum operating pressure:	16 bar
lax pressure at stated temp:	16 bar / 120 °C
	16 bar / -20 °C
ype of connection:	DIN
ize of inlet connection:	DN 50
ize of outlet connection:	DN 50
ressure rating for pipe connection:	PN 25
lange rating inlet:	300 lb
lange size for motor:	FF265
connect code:	F
iquid:	
umped liquid:	Water
	-20 120 °C
iquid temperature during operation:	20 °C
	998.2 kg/m ³
lectrical data:	
lotor standard:	IEC
lotor type:	132SE
E Efficiency class:	IE5
	5.5 kW
•	5.5 kW
	50 Hz
	3 x 380-500 V
ated current:	10.3-8.20 A
	0.92-0.88
the second secon	
•	360-4000 rpm
	92.7%
lotor efficiency at full load:	92.7 %
nclosure class (IEC 34-5):	IP55
	F
1	YES
lotor No:	98971051

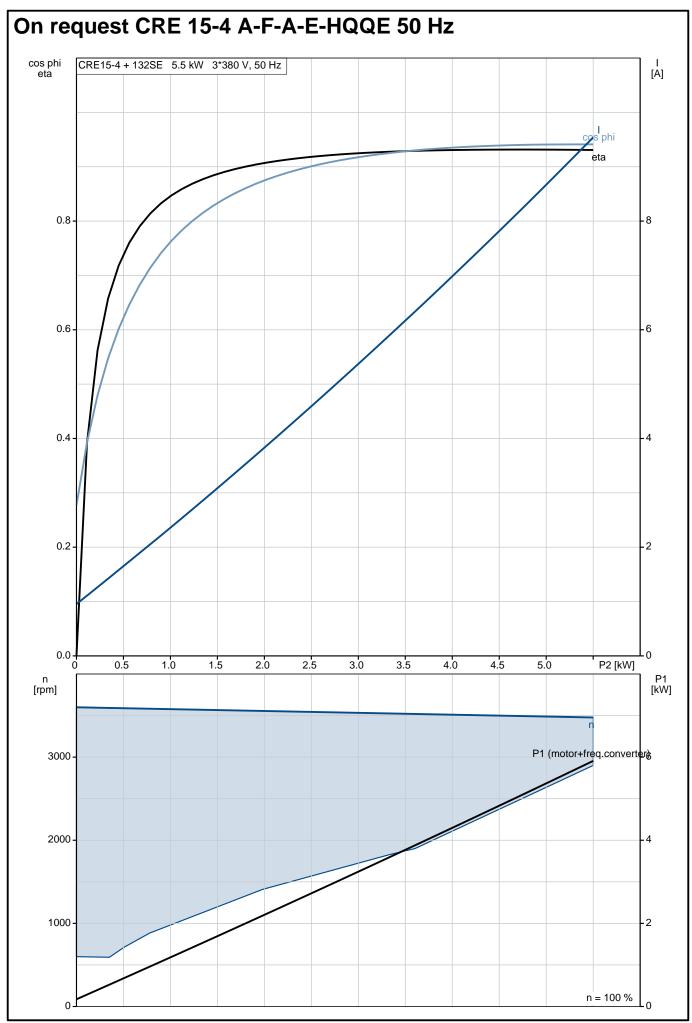


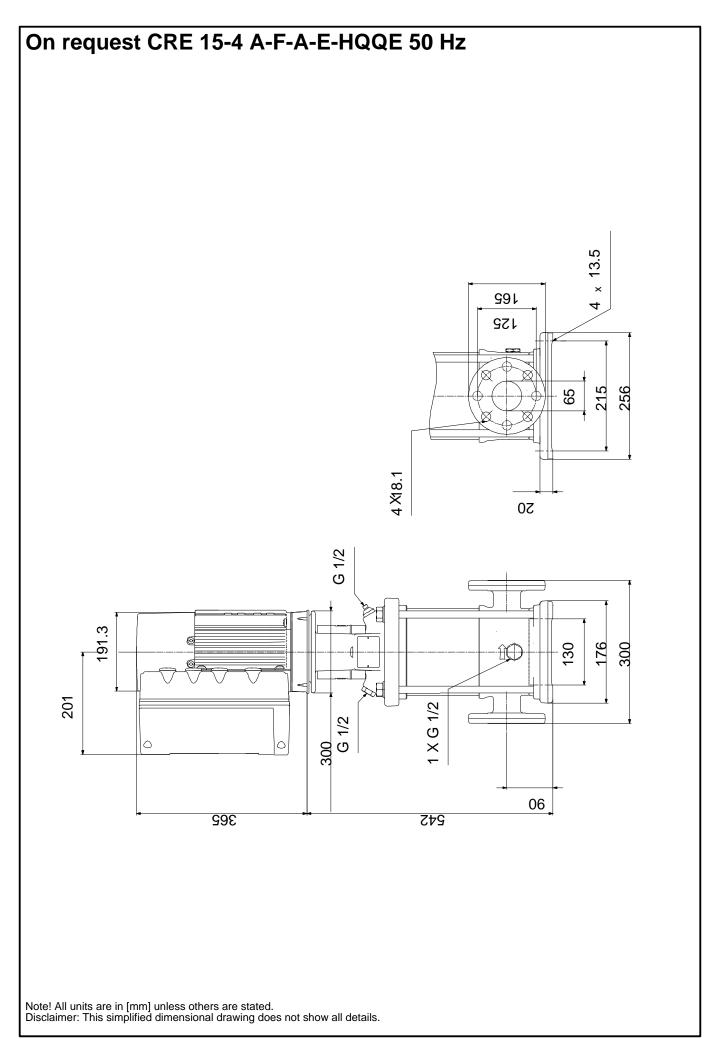


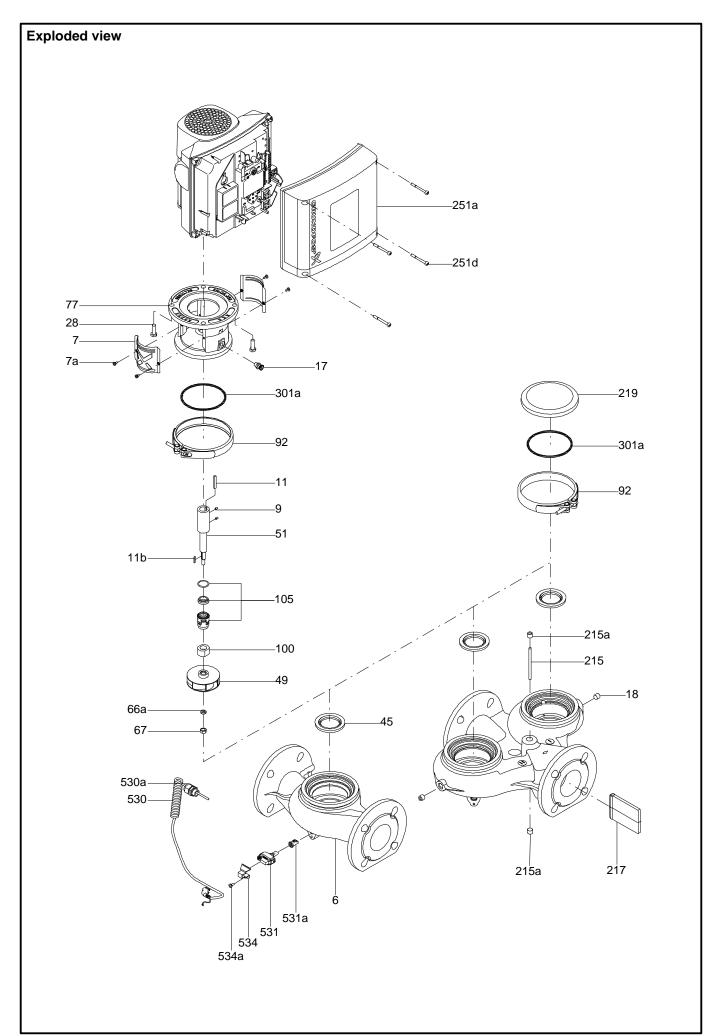


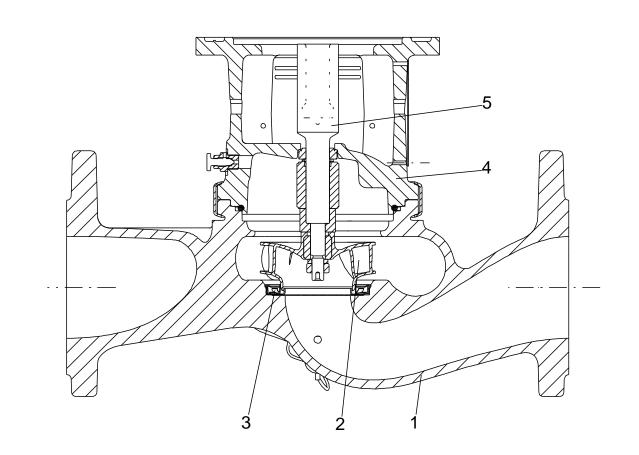


Description	Value
Control panel:	Standard
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Pressure sensor:	Ν
Others:	
Minimum efficiency index, MEI :	0.70
Net weight:	84 kg
Gross weight:	112 kg
Shipping volume:	0.37 m³
Danish VVS No.:	386004004

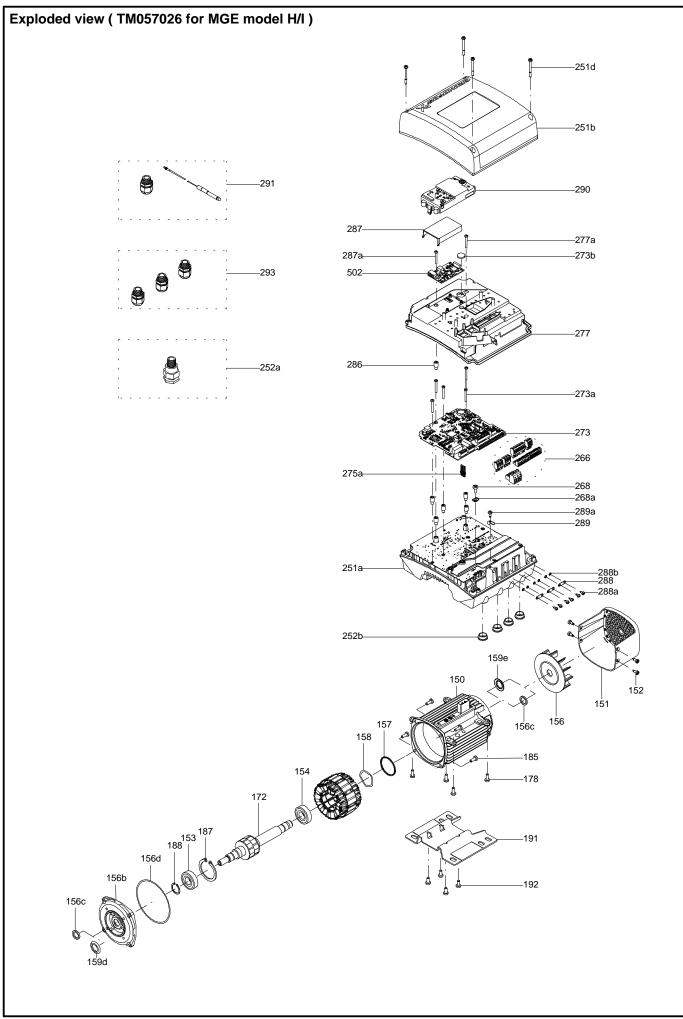








TM058200



Parts list CRE 15-4, Product No. On request Valid from 1.1.2004 (0401)

Pos	Description Motor	Annotation	Données de classification	Référence		antité	Unit
					1		pcs
_	Base cpl.				1		pcs
6	Base					1	
25	Drain plug					1	
	Rubber module				1		pcs
20	Spring					4	
37	O-ring					2	
38	O-ring		Diameter: 16,3			1	
			Material type: EPDM				
			Thickness: 2,4				
38a	O-ring		Diameter: 5,3			1	
500	0 mig		Material type: EPDM			•	
100	0 ·		Thickness: 2,4			•	
100	O-ring		Diameter: 16,3			2	
			Material type: EPDM				
			Thickness: 2,4				
2	Pump head cpl.				1		pcs
1	Flange					1	
2	Pump head					1	
7	Coupling guard					2	
7.a	Combi Slot Torx screw					4	
18	Air vent screw					1	
10	Plug					1	
	-					1	
	Spindle						
23	Plug					1	
28	Hex head screw		Length (mm): 30			4	
			Thread: M12				
28.a	Hex head screw		Length (mm): 30			4	
			Thread: M12				
76	Nameplate					1	
76a	Rivet					1	
8	Coupling				1		pcs
9	Hex socket head cap screw		Designation: DIN 912			4	1
0			Length (mm): 25			•	
			Thread: M10				
10	Chattain					4	
10	Shaft pin		Diameter: 5			1	
			Length (mm): 26				
10a	Coupling half					1	
26	Staybolt				4		pcs
36	Hex nut		Thread: M16		4		pcs
55	Outer sleeve				1		pcs
66a	Washer		Designation: DIN 125 A		4		pcs
			Internal diameter: 17				
			Outer diameter: 30				
			Thickness: 3				
80	Chamber stack				1		pcs
4	Intermediate chamber cpl.				1	2	pus
	-						
45	Neck ring cpl.					1	
65	Retainer for upper seal ring					1	
4	Intermediate chamber cpl.					1	
	Guide vane					1()
	Front plate					1	
3	Top intermediate chamber					1	
4a	Intermediate chamber cpl.					1	
.~	Bearing plate					. 1	
	Bearing bush					1	
20							
3a	Intermediate chamber					1	
45	Neck ring cpl.					1	
65	Retainer for upper seal ring					1	

Pos	Description	Annotation	Données de classification	Référence	Quantite	é Unité
26.b	Hex head screw				2	
26.c	Washer		Designation: DIN 125A		2	
			Thickness: 1,6			
26a	Strap cpl.				2	
36	Lock nut		Thread: M8		1	
- 44a	Inlet part cpl.				1	
45	Neck ring cpl.					1
65	Retainer for upper seal ring					1
44b	Inlet part				1	
47a	Bearing ring				1	
+ 49	Impeller cpl.				4	
- 51	Shaft, spline, cpl.				1	
	Bar				(0
62	Stop ring					1
64b	Spacing bush		Length (mm): 5.00		1	
64b	Spacing bush				1	
64c	Spacing pipe		Length (mm): 12.7		1	
66	Wedge lock washer				1	
69	Spacing pipe		Length (mm): 43.6		2	
69	Spacing pipe		Internal diameter: 17,5		1	
			Length (mm): 17			
69	Spacing bush				1	
105	Shaft seal		Material type: HQQE		1	pcs

Disclaimer: The information about the Grundfos pump in this document may be outdated. Data may be subject to alterations without further notice. Please contact us to verify the data above is still accurate/up-to-date.

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