

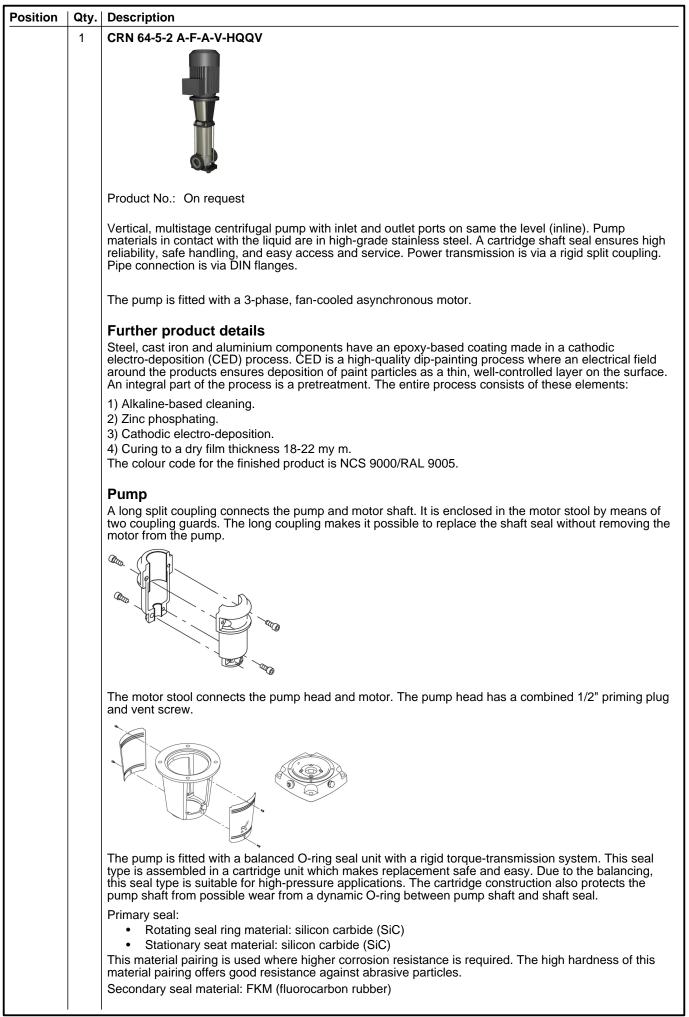
## CRN64-5-2 A-F-G-V-HQQV 3x400/690 50 HZ Grundfos pump 96123807



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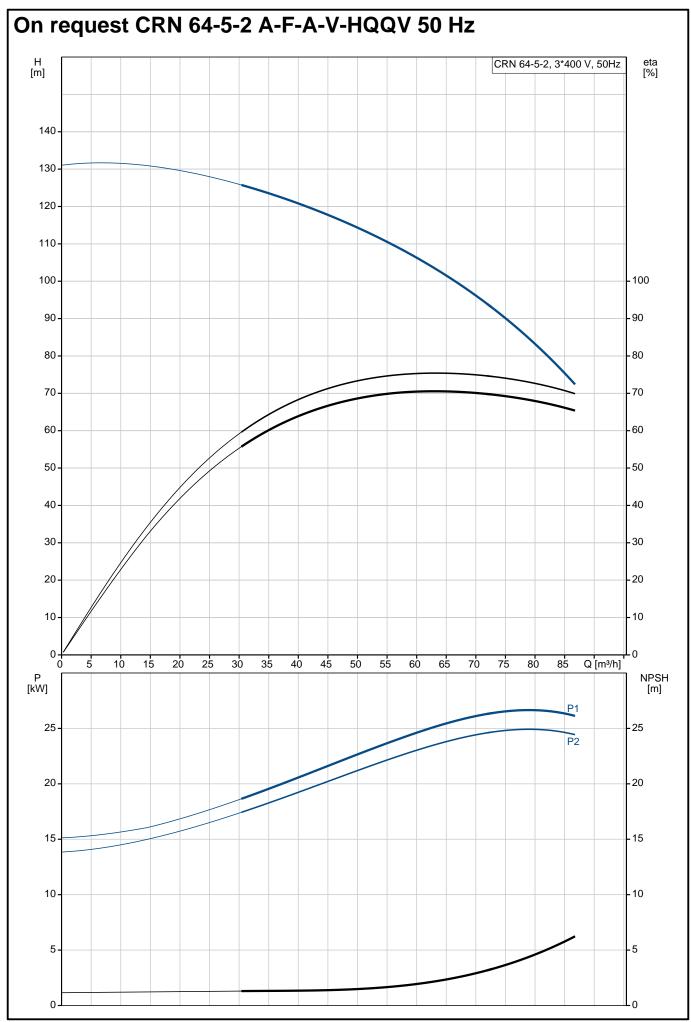
https://www.lenntech.com/grundfos/CRN64/96123807/CRN-64-5-2-A-F-G-V-HQQV.html

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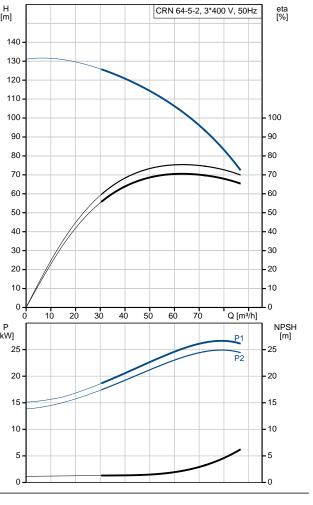


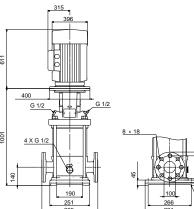
Position	Qty.	Description
		FKM has excellent resistance to oils and chemicals. Above 90 °C, FKM should only be used in media without water.
		The shaft seal is retained in the pump head by a cover and screws. It can be replaced without removing the motor.
		The chambers and impellers are made of stainless-steel 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 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. 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.
		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: Water   Pumped liquid: Water   Liquid temperature range: -20 90 °C   Liquid temperature during operation: 20 °C   Density: 998.2 kg/m³
		Technical:   Rated flow: 64 m³/h   Rated head: 101.2 m   Pump orientation: Vertical   Shaft seal arrangement: Single

Position	Qty.	Description	
		Code for shaft seal:	HQQV
		Approvals on nameplate:	CE, EAC
		Curve tolerance:	ISO9906:2012 3B
		Matariala	
		Materials: Base:	Stainless steel
			EN 1.4408
			AISI 316
		Impeller:	Stainless steel
			EN 1.4401
			AISI 316
		Bearing:	SIC
		Support bearing:	Graflon
		Installation:	
		Maximum ambient temperature:	55 °C
		Maximum operating pressure:	16 bar
		Max pressure at stated temp:	16 bar / 90 °C
			16 bar / -20 °C
		Type of connection:	DIN
		Size of inlet connection:	DN 100
		Size of outlet connection:	DN 100
		Pressure rating for pipe connecti	
		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: Rated current:	3 x 380-420D/660-725Y V 56 0 51 0/32 0 20 5 A
		Starting current:	56,0-51,0/32,0-29,5 A 660-660 %
		Cos phi - power factor:	0.86
		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	: 0.7
		Net weight:	333 kg
		Gross weight:	371 kg
		Shipping volume:	0.805 m <sup>3</sup>
	I.	1	

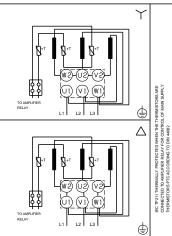


Description	Value	H [m]
General information:		
Product name:	CRN 64-5-2 A-F-A-V-HQQV	140 -
Product No:	On request	130 -
EAN number:	On request	120 -
Technical:		110 -
Rated flow:	64 m³/h	
Rated head:	101.2 m	100 -
Stages:	5	90 -
Impellers:	5	80 -
Number of reduced-diameter	2	70 -
impellers:		
Low NPSH:	Ν	60 -
Pump orientation:	Vertical	50 -
Shaft seal arrangement:	Single	40 -
Code for shaft seal:	HQQV	30-
Approvals on nameplate:	CE, EAC	
Curve tolerance:	ISO9906:2012 3B	20-
Pump version:	A	10-
Model:	В	o 🖌 🚬 🗖
Materials:		0 10 20 P
Base:	Stainless steel	[kW]
	EN 1.4408	25 -
	AISI 316	
Impeller:	Stainless steel	20 -
	EN 1.4401	15-
	AISI 316	
Material code:	A	10 -
Code for rubber:	V	
Bearing:	SIC	5 -
Support bearing:	Graflon	
Installation:		0
Maximum ambient temperature:		1
Maximum operating pressure:	16 bar	315
Max pressure at stated temp:	16 bar / 90 °C	396
	16 bar / -20 °C	
Type of connection:	DIN	5
Size of inlet connection:	DN 100	(무)))))
Size of outlet connection:	DN 100	
Pressure rating for pipe connection:	PN 16	400 G 1/2
Flange size for motor:	FF350	
Connect code:	F	
Liquid:		60 <u>4 X G 1/2</u>
Pumped liquid:	Water	
Liquid temperature range:	-20 90 °C	
Liquid temperature during operation:	20 °C	190
Density:	998.2 kg/m <sup>3</sup>	251
Electrical data:	150	<b>i,</b> 363
Motor standard:	IEC	
Motor type:	SIEMENS	
IE Efficiency class:	IE3	
Rated power - P2:	30 kW	
Power (P2) required by pump:	30 kW	<b>Й</b> +т <b>Й</b> +т
Mains frequency:	50 Hz	
Rated voltage:	3 x 380-420D/660-725Y V	I H L
Rated current:	56,0-51,0/32,0-29,5 A	■ ■ ■ ■ ■
Starting current:	660-660 %	TO AMPLIFIER RELAY
Cos phi - power factor:	0.86	L11 L2
Rated speed:	2955 rpm	
Efficiency:	IE3 93,3%	
Motor efficiency at full load:	93.3-93.3 %	<b>₽</b> ⁺ <sup>⊤</sup>    <b>₽</b> ⁺ <sup>⊤</sup>
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	RELAY L1 L2
		ι

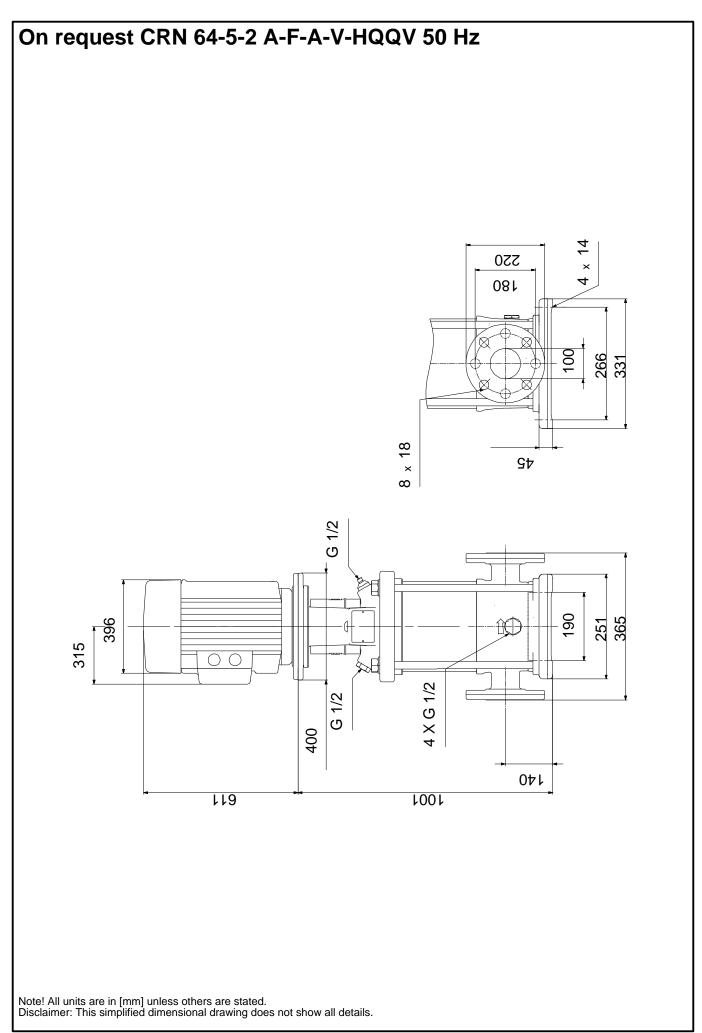


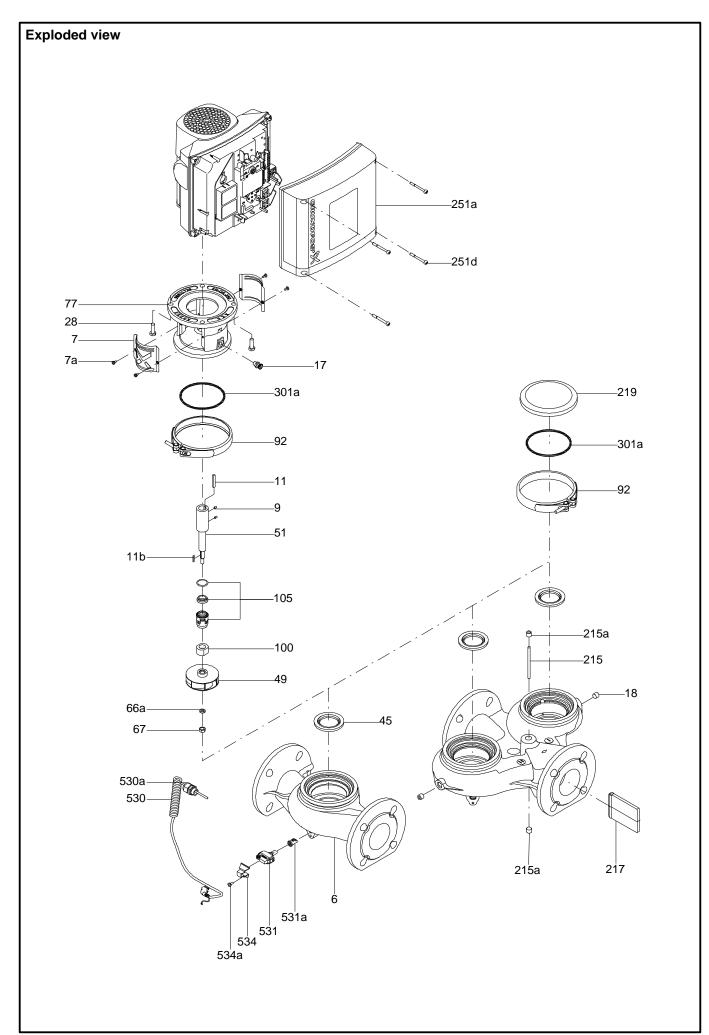


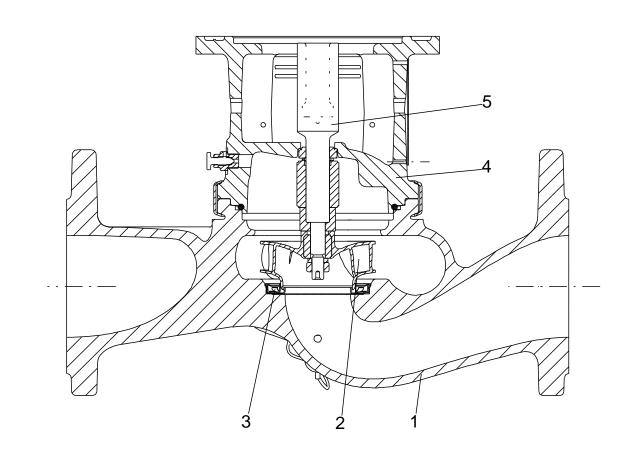
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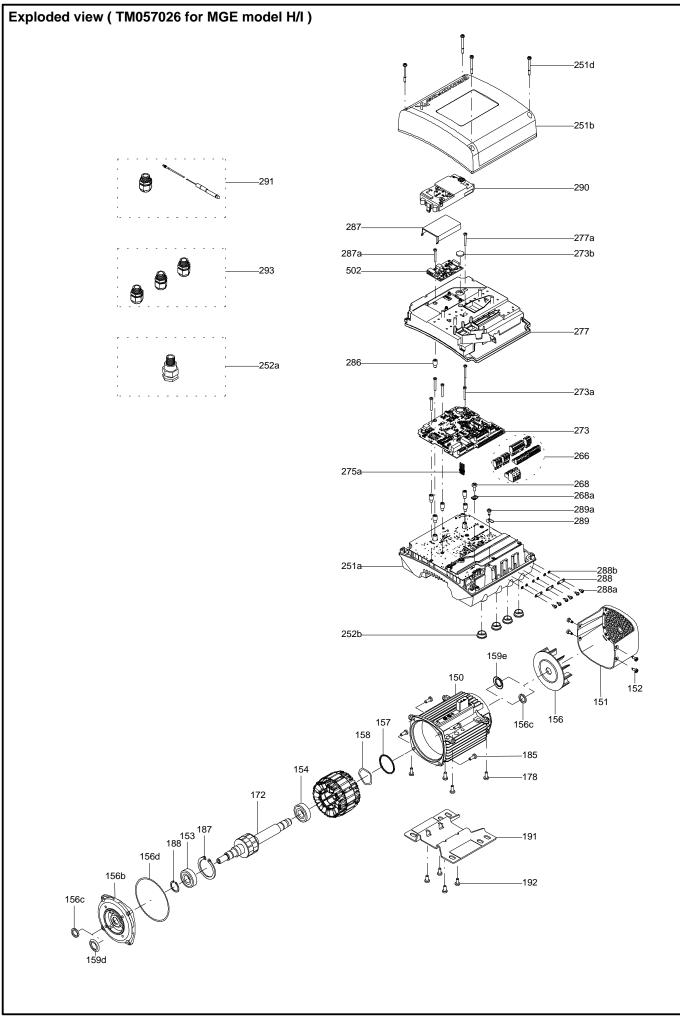
Description	Value
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	81U15332
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI :	0.7
Net weight:	333 kg
Gross weight:	371 kg
Shipping volume:	0.805 m³







## TM058200



## Parts list CRN 64-5-2, Product No. On request Valid from 1.4.2012 (1213)

Pos	•	Annotation	Données de classification	Référence	Quantité	Unité
1	Motor Basic unit				1	pcs
						pcs
	Chamber stack				1	
4-	Intermediate chamber cpl.				1	
4a	Chamber					
45	Seal ring					
65	Neck ring					
65	Top f/neck ring					
3	Upper chamber cpl.				1	
3	Chamber					
45	Seal ring					
65	Top f/neck ring					
4	Intermediate chamber cpl.				3	
4	Chamber					
45	Seal ring					
65	Neck ring					
65	Top f/neck ring					
26a	Strap cpl.		Length (mm): 422		2	
			Thread: M8			
26b	Hex socket head cap screw			-	2	
26c	Washer		Designation: DIN 12	5A	2	
			Thickness: 1,6			
44	Inlet part cpl.				1	
44a	Inlet part					
45	Seal ring					
65	Neck ring					
65	Top f/neck ring					
47a	Bearing cpl.				1	
49a	Impeller cpl. reduced diameter				2	
48	Nut					
49a	Impeller					
	Impeller hub					
49c	Wear ring					
49b	Split cone					
49e	Impeller cpl.				3	
48	Nut					
49	Impeller					
	Impeller hub					
49c	Wear ring					
49b	Split cone					
51	Shaft cpl.		Diameter: 22		1	
	· ·		Length (mm): 660			
	Washer					
	Bearing ring, rotating					
51	Shaft					
66	Wedge lock washer					
67	Hex socket head cap screw		Designation: DIN	912		
-	and the second and second and second		Length (mm): 16			
			Thread: M8			
2a	Pump head cpl.		···· · · ·		1	
2	Pump head				. 1	
9	Hex socket head cap screw		Designation: DIN 912	2	4	
0			Length (mm): 25	-	4	
			Thread: M10			
18	Air vent screw		Inicau. WIU		1	
10	Plug				I	
	Spindle					
23	Plug				1	
23 37			Diamator: 040			
57	O-ring		Diameter: 216		1	

Pos	Description	Annotation	Données de classification Référe Material type: FKM	ence G	luantité	Unité
			Thickness: 4			
58	Cover				1	
60	Spring				4	
100	O-ring		Diameter: 16,3		2	
	C C		Material type: FKM			
			Thickness: 2,4			
6b	Base cpl.				1	
	Bearing ring, stationary				1	
6	Base				1	
25	Plug				4	
31	Hex socket head cap screw				1	
32	Washer		Designation: DIN 125A		1	
02			Internal diameter: 6,4		•	
			Outer diameter: 12,0			
			Thickness: 1,6			
27	O ring		Diameter: 216		1	
37	O-ring				1	
			Material type: FKM			
00			Thickness: 4			
38	O-ring		Diameter: 16,3		4	
			Material type: FKM			
			Thickness: 2,4			
56	Base plate				1	
26	Staybolt		Length (mm): 643		4	
			Thread: M16			
36	Nut		Thread: M16		4	
55	Outer sleeve				1	
66a	Washer		Designation: DIN 125 A2		4	
			Internal diameter: 17			
			Outer diameter: 30			
			Thickness: 3			
1a	Motor stool cpl.			1		pcs
1a	Motor stool				1	
7	Coupling guard				2	
7a	Socket button head screw				4	
8	Coupling cpl.		Dimension: 22/55		1	
9	Hex socket head cap screw		Designation: DIN 912		4	
U			Length (mm): 25		•	
			Thread: M10			
10a	Coupling half				2	
28	Hex head screw		Length (mm): 60		4	
20	Hex Head Screw		Thread: M16		4	
20	How socket hand oon acrow				1	
28	Hex socket head cap screw		Designation: DIN 912		4	
			Length (mm): 50			
00			Thread: M10		_	
32a	Washer		Designation: DIN 125 A		8	
			Internal diameter: 17			
			Outer diameter: 30			
			Thickness: 3			
36	Hex nut		Thread: M16		4	
76	Nameplate set			1		pcs
76	Plate				1	
76a	Rivet				2	
105	Shaft seal		Material type: HQQV	1		pcs
	Adjusting fork				1	
109	O-ring		Diameter: 44,45		1	
	~		Material type: FKM			
			Thickness: 3,53			
			Diameter: 21,5		1	
110	O-ring					
110	O-ring					
			Thickness: 4,25	~		000
200	Flange cpl.		Thickness: 4,25	2		pcs
				2		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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