

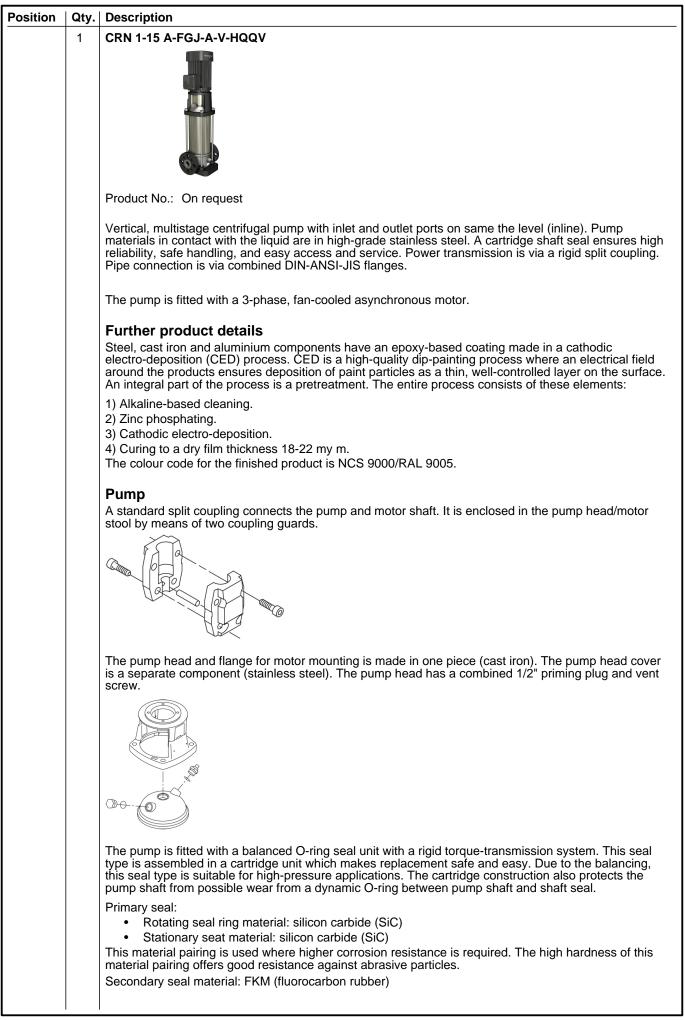
# CRN1-15 A-FGJ-G-V-HQQV 3x230/400 50HZ Grundfos pump 96516432



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https://www.lenntech.com/grundfos/CRN01/96516432/CRN-1-15-A-FGJ-G-V-HQQV.html

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FKM has excellent resistance to oils and chemicals. Above 90 °C, FKM should only be used in media without water.



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 pump has a stainless-steel base mounted on a seperate base plate. This base and base plate are kept in position by the tension of the staybolts which hold the pump together. The outlet side of the base has a combined drain plug and bypass valve. The pump is secured to the foundation by four bolts through the base plate. The flanges and base are cast in one piece and prepared for connection by means of DIN, ANSI or JIS.

### 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 does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (11/1).

### **Technical data**

#### Controls:

Frequency converter: NONE

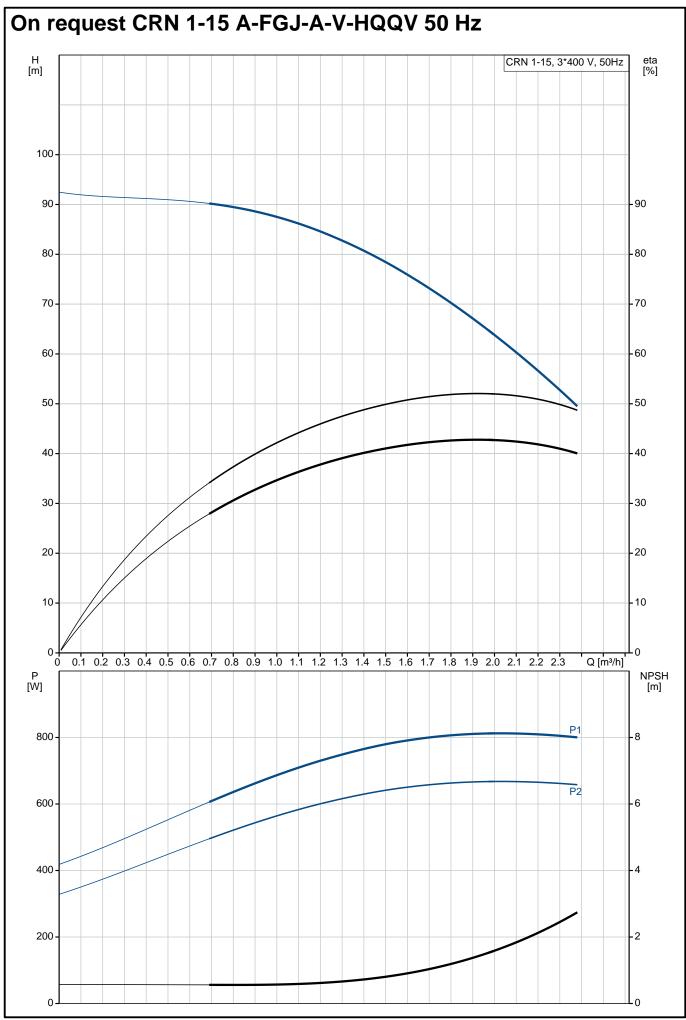
#### Liquid:

Pumped liquid:WaterLiquid temperature range:-20 .. 90 °CLiquid temperature during operation:20 °CDensity:998.2 kg/m³

#### **Technical:**

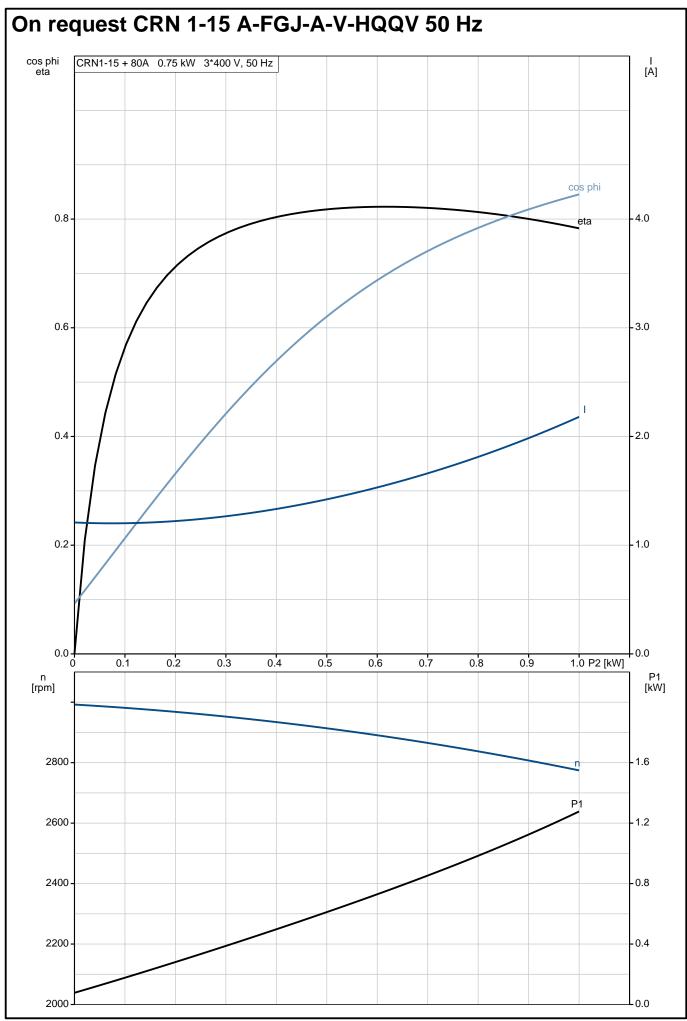
rechnical:	
Rated flow:	1.8 m³/h
Rated head:	69.6 m
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQV
Approvals on nameplate:	CE, EAC
Curve tolerance:	ISO9906:2012 3B
Materials:	<b>_</b>
Base:	Stainless steel
	EN 1.4408
	AISI 316
Impeller:	Stainless steel
	EN 1.4401
	AISI 316
Bearing:	SIC
Installation:	
	60 °C
Maximum ambient temperature:	25 bar
Maximum operating pressure:	
Max pressure at stated temp:	25 bar / 90 °C

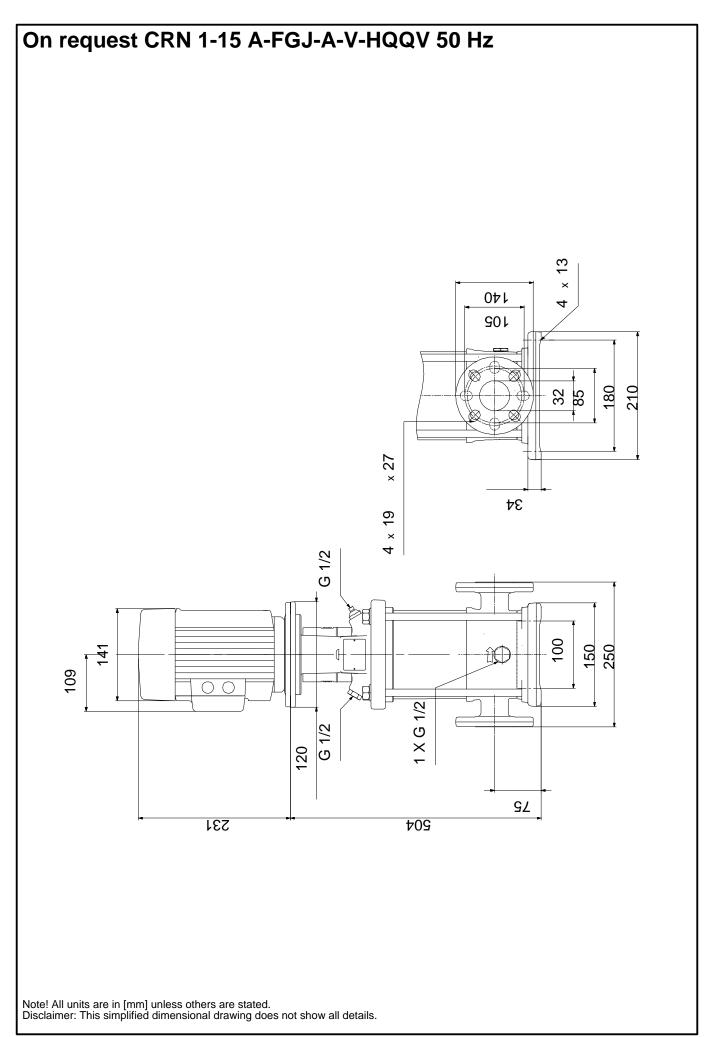
Position	Qty.	Description	
	-		25 bar / -20 °C
		Type of connection:	DIN / ANSI / JIS
		Size of inlet connection:	DN 25/32
			1 1/4 inch
		Size of outlet connection:	DN 25/32
			1 1/4 inch
		Pressure rating for pipe connect	
		Flange rating inlet:	300 lb
		Flange size for motor:	FT100
		Electrical data:	
		Motor standard:	IEC
		Motor type:	80A
		IE Efficiency class:	IE3
		Rated power - P2:	0.75 kW
		Power (P2) required by pump:	
		Mains frequency:	50 Hz
		Rated voltage:	3 x 220-240D/380-415Y V
		Rated current:	3.30/1.90 A
		Starting current:	580-620 %
		Cos phi - power factor:	0.81-0.71
		Rated speed:	2840-2870 rpm
		Efficiency:	IE3 80,7%
		Motor efficiency at full load:	80.7 %
		Motor efficiency at 3/4 load:	82.7 %
		Motor efficiency at 1/2 load:	81.7 %
		Number of poles:	2
		Enclosure class (IEC 34-5):	55 Dust/Jetting
		Insulation class (IEC 85):	F
		Otheres	
		Others:	. 07
		Minimum efficiency index, MEI Net weight:	
		Gross weight:	28.6 kg 32.6 kg
		Shipping volume:	0.092 m <sup>3</sup>
			0.002 m
	I	1	

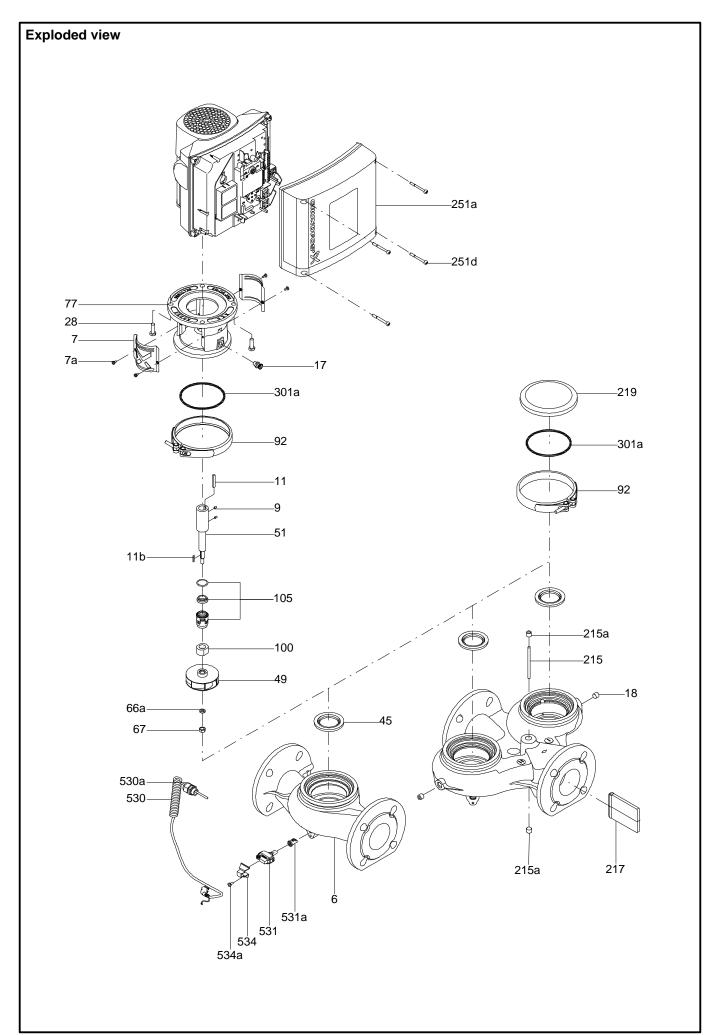


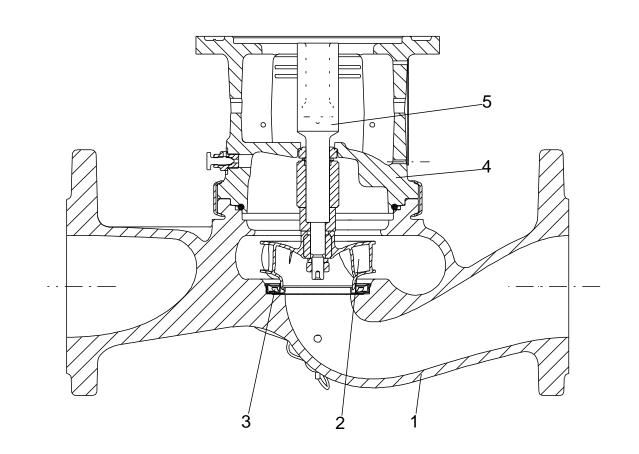
Description	Value	H [m]	CRN 1-15, 3*400 V, 50Hz [%]
General information:	Value	[]	[,~]
Product name:	CRN 1-15 A-FGJ-A-V-HQQV		
Product No:	On request	100 -	
EAN number:			
	On request	90 -	- 90
Technical:		80 -	- 80
Rated flow:	1.8 m³/h	80-	
Rated head:	69.6 m	70 -	- 70
Stages:	15		
Impellers:	15	60 -	- 60
Number of reduced-diameter	0	50 -	50
impellers: Low NPSH:	Ν		
Pump orientation:	Vertical	40 -	- 40
Shaft seal arrangement:	Single		
Code for shaft seal:	-	30-	- 30
	HQQV		
Approvals on nameplate:	CE, EAC	20-	- 20
Curve tolerance:	ISO9906:2012 3B	10-	- 10
Pump version:	A		
Model:	A	0	0
Materials:		0 0.2 0.4 0.6 0.8 1.0	
Base:	Stainless steel	P [W]	NPSH [m]
	EN 1.4408		D1
	AISI 316	800 -	-8
Impeller:	Stainless steel		
	EN 1.4401	600 -	P2 -6
	AISI 316		
Material code:	Alsisto	400 -	- 4
Code for rubber:	V		
	-	200 -	2
Bearing:	SIC	200	
Installation:			
Maximum ambient temperature:	0° C	0	
Maximum operating pressure:	25 bar	<b>T</b>	
Max pressure at stated temp:	25 bar / 90 °C	109	
	25 bar / -20 °C	141 m	
Type of connection:	DIN / ANSI / JIS		
Size of inlet connection:	DN 25/32		
	1 1/4 inch		
Size of outlet connection:	DN 25/32		
	1 1/4 inch	120	
Pressure rating for pipe connection:	PN 25	<u>G 1/2</u> <u>G 1/2</u>	2
Flange rating inlet:	300 lb		4 × 19 × 27
Flange size for motor:	500 lb	50 <u>1 X G 1/2</u>	
Connect code:	FGJ		
Liquid:			
Pumped liquid:	Water	100	32 85 4 × 13
Liquid temperature range:	-20 90 °C	150 250	180
Liquid temperature during operation:	20 °C		210
Density:	998.2 kg/m³		
Electrical data:		HIGH VOLTAGE	
Motor standard:	IEC	HIGH VOLTAGE DIRECTION OF ROTAT	10N
		·····	
Motor type:	80A		
IE Efficiency class:	IE3		ო <b>ს</b>
Rated power - P2:	0.75 kW		~
Power (P2) required by pump:	0.75 kW		
Mains frequency:	50 Hz		5   
Rated voltage:	3 x 220-240D/380-415Y V		
Rated current:	3.30/1.90 A	LOW VOLTAGE DIRECTION OF ROTAT	ION
Starting current:	580-620 %	LOW VOLTAGE DIRECTION OF ROTAT	
Cos phi - power factor:	0.81-0.71		
Rated speed:	2840-2870 rpm		
			<u>ا</u>
Efficiency:	IE3 80,7%		2
Motor efficiency at full load:	80.7 %		5
Motor efficiency at 3/4 load:	82.7 %		
			₩ 8

Description	Value
Motor efficiency at 1/2 load:	81.7 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	85U05104
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI :	0.7
Net weight:	28.6 kg
Gross weight:	32.6 kg
Shipping volume:	0.092 m³

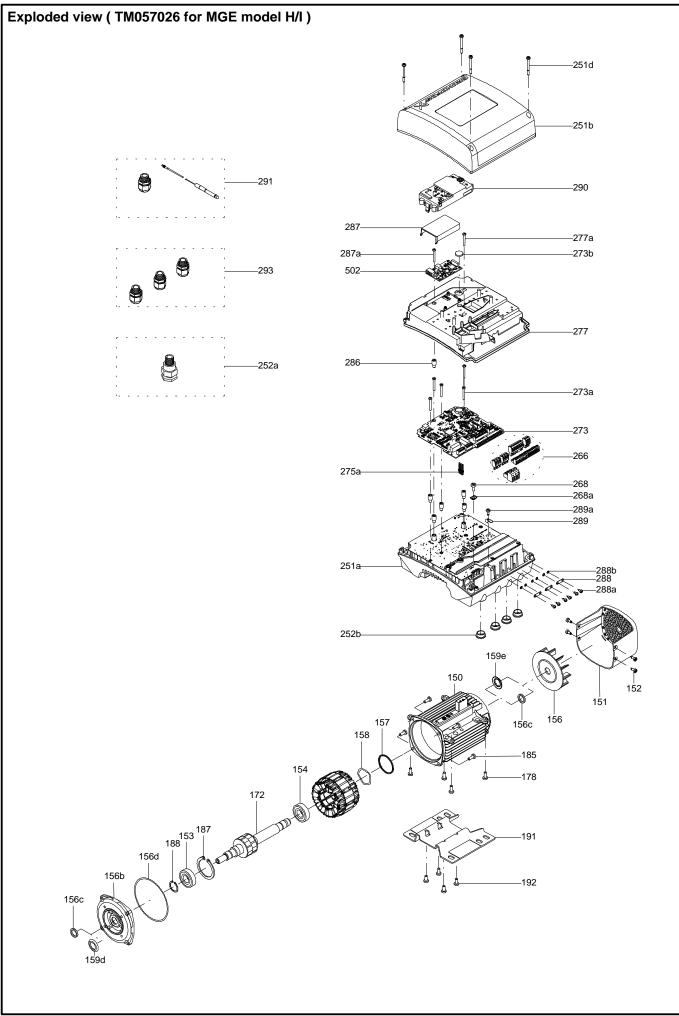








## TM058200



# Parts list CRN 1-15, Product No. On request Valid from 7.2.2011 (1106)

Pos	Description Motor	7.111010101011	Données de classification	Référence	Quan 1		Unit pcs
	Base cpl.				1		pcs
6	Base				. 1		poo
56	Base plate				1		
201.a					2		
201.a	Flange				2		
203	Lock ring						
	Sealing parts				1		pcs
25	Drain plug w/bypass valve				1		
38	O-ring		Diameter: 16,3			1	
			Material type: FKM				
			Thickness: 2,4				
37	O-ring		Diameter: 137,5		2		
			Material type: FKM				
			Thickness: 3,3				
100	O-ring		Diameter: 16,3		2		
	5		Material type: FKM				
			Thickness: 2,4				
2	Pump head cpl.				1		pcs
2	Pump head				1		P03
7	Coupling guard				2		
7.a	Combi Slot Torx screw				4		
18	Air vent screw				1		
	Plug					1	
	Spindle					1	
23a	Plug				1		
28	Hex head screw		Length (mm): 25 MM		4		
			Thread: M6				
60	Formed wire spring				1		
77	Pump cover				1		
8	Coupling cpl.				1		pcs
9	Hex socket head cap screw		Designation: DIN 912		4		P
0			Length (mm): 20		•		
			Thread: M6				
10	Shoft nin		Diameter: 5		1		
10	Shaft pin				1		
10-	Coupling holf		Length (mm): 26		<u> </u>		
10a	Coupling half				2		
26	Staybolt		Length (mm): 367		4		pcs
			Thread: M12				
36	Nut		Thread: M12		4		pcs
55	Outer sleeve				1		pcs
66a	Washer		Designation: DIN 125 A2		4		pcs
			Internal diameter: 13				
			Outer diameter: 24				
			Thickness: 2,5				
80	Chamber stack		Bearing type: SILICON CARBIDE		1		pcs
4	Chamber cpl.				1	2	•
4a	Intermediate chamber					- 1	
45	Neck ring						
45 65	Neck ring retainer					1	
05 4a	Chamber w. bearing cpl.				2	I	
					2	4	
4a	Intermediate chamber					1	
45	Neck ring					1	
65	Neck ring retainer					1	
5a	Chamber cpl.				1		
4a	Intermediate chamber					1	
45	Neck ring					1	
65	Neck ring retainer					1	
36	Lock nut		Thread: M8		1		
	Bearing ring, rotating				2		

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
49	Impeller cpl.				15	
50a	Guide vane				1	
	Plate				1	
50b	Top plate				1	
51	Shaft, spline, cpl.				1	
51	Shaft				1	
62	Stop ring				1	
64a	Spacing pipe				12	
64a	Spacing pipe		Internal diameter: 12,85		2	
			Outer diameter: 15,85			
			Length (mm): 4,50			
64c	Clamp, splined		Internal diameter: 8,5		1	
			Outer diameter: 15			
66	Wedge lock washer				1	
105	Shaft seal		Material type: HQQV		1	pcs
	O-ring				1	
	O-ring				1	
	O-ring				1	
	Seal driver, upper				1	
	Seal driver, lower				1	
	Spacer ring				1	
	Pipe				1	
	Plug				1	
	Plug				1	
	Compression spring				1	
	Socket set screw				3	
103	Seal ring, stationary				1	
105	Seal ring, rotating				1	
109	O-ring				1	
113	Driver				1	

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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