

CRN1S-8 A-P-G-V-HQQV 3x230/400 50HZ Grundfos pump 96516078



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https://www.lenntech.com/grundfos/CRN1S/96516078/CRN-1S-8-A-P-G-V-HQQV.html

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Position | Qty. | Description

1 CRN 1S-8 A-P-A-V-HQQV



Product No.: On request

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. Power transmission is via a rigid split coupling. Pipe connection is via PJE (Victaulic®) couplings.

The pump is fitted with a 3-phase, fan-cooled asynchronous motor.

Further product details

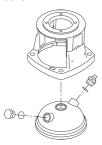
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An 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.

Pumr

The pump head and flange for motor mounting is made in one piece (cast iron). The pump head cover is a separate component (stainless steel). 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.

Primary seal:

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

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: FKM (fluorocarbon rubber)

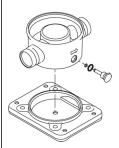
FKM has excellent resistance to oils and chemicals. Above 90 °C, FKM should only be used in media without water.



The shaft seal is screwed into the pump head.

Position | Qty. | Description

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. 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 base is prepared for connection by means of PJE (Victualic®) couplings.



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 (I1/1).

Technical data

Controls:

Frequency converter: NONE

Liquid:

Pumped liquid: Water
Liquid temperature range: -20 .. 90 °C
Liquid temperature during operation: 20 °C
Density: 998.2 kg/m³

Technical:

Rated flow: 0.9 m³/h
Rated head: 32.5 m
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQV
Approvals on nameplate: CE, EAC

Curve tolerance: ISO9906:2012 3B

Materials:

Base: Stainless steel

EN 1.4408 AISI 316

Impeller: Stainless steel

EN 1.4401 AISI 316

SIC

Installation:

Bearing:

Maximum ambient temperature: 40 °C Maximum operating pressure: 25 bar

Max pressure at stated temp: 25 bar / 90 °C

25 bar / -20 °C

Type of connection: PJE Size of inlet connection: DN 32

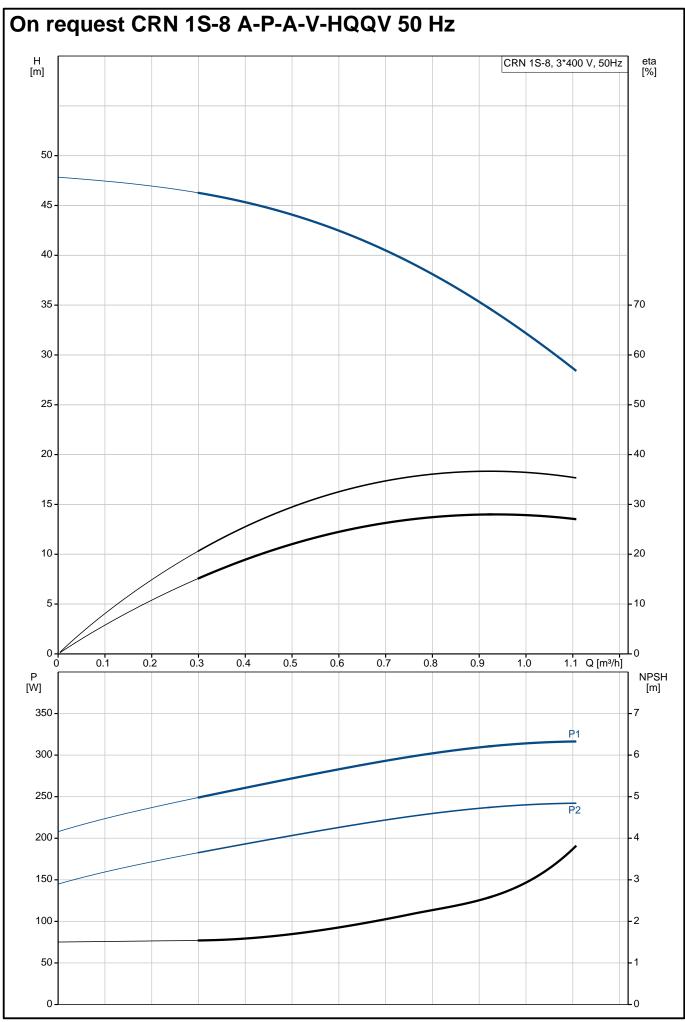
1 1/4 inch

Size of outlet connection: DN 32

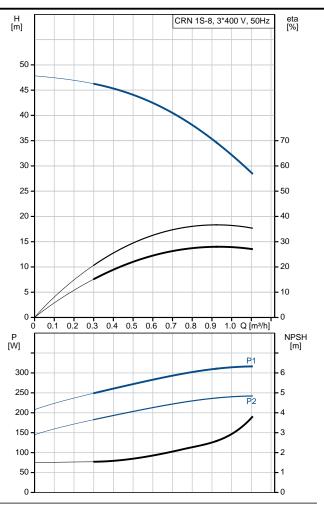
1 1/4 inch

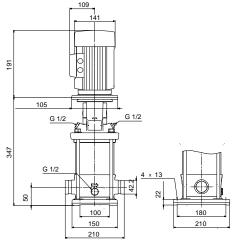
Pressure rating for pipe connection: PN 50

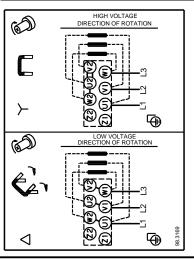
Position	Qty.	Description	
		Flange size for motor:	FT85
Position	Qty.		IEC 71A IE3 0.37 kW 0.37 kW 50 Hz 3 x 220-240D/380-415Y V 1.74/1.00 A 490-530 % 0.80-0.70 2850-2880 rpm IE3 73,8% 73.8 % 79.0 % 75.5 % 2 55 Dust/Jetting F



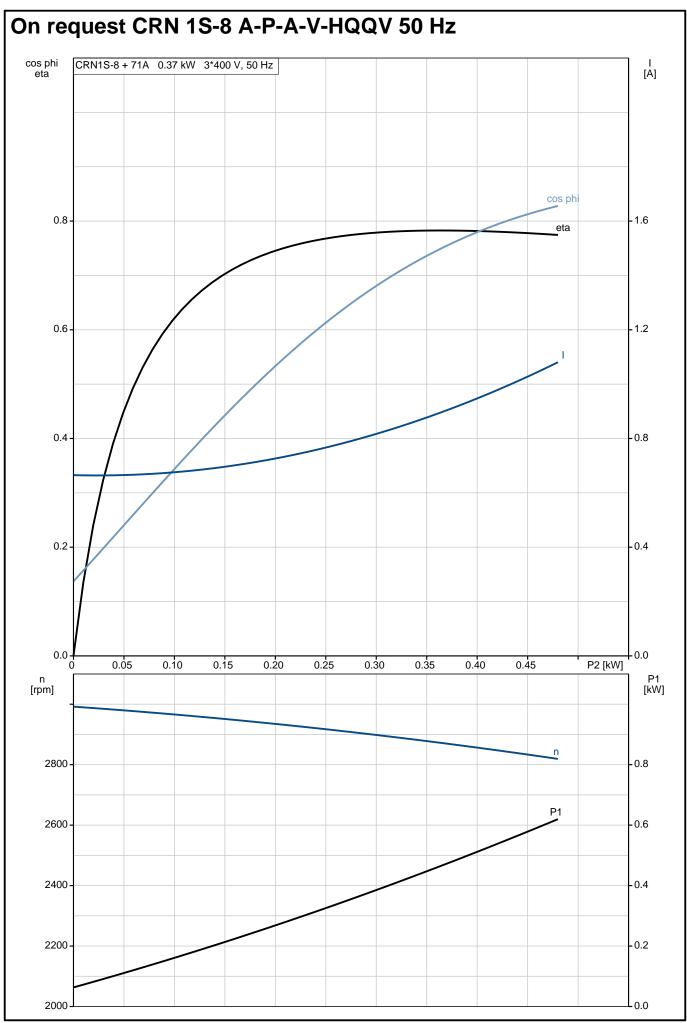
Description	Value
General information:	
Product name:	CRN 1S-8 A-P-A-V-HQQV
Product No:	On request
EAN number:	On request
Technical:	
Rated flow:	0.9 m³/h
Rated head:	32.5 m
Stages:	8
Impellers:	8
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQV
	CE, EAC
Approvals on nameplate:	
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	~
Base:	Stainless steel
	EN 1.4408
	AISI 316
Impeller:	Stainless steel
	EN 1.4401
	AISI 316
Material code:	A
Code for rubber:	V
Bearing:	SIC
Installation:	0.0
Maximum ambient temperature:	40 °C
·	25 bar
Maximum operating pressure:	
Max pressure at stated temp:	25 bar / 90 °C
Towns of some office.	25 bar / -20 °C
Type of connection:	PJE
Size of inlet connection:	DN 32
	1 1/4 inch
Size of outlet connection:	DN 32
	1 1/4 inch
Pressure rating for pipe connection:	PN 50
Flange size for motor:	FT85
Connect code:	Р
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-20 90 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
Electrical data:	150
Motor standard:	IEC
Motor type:	71A
IE Efficiency class:	IE3
Rated power - P2:	0.37 kW
Power (P2) required by pump:	0.37 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415Y V
Rated current:	1.74/1.00 A
Starting current:	490-530 %
Cos phi - power factor:	0.80-0.70
Rated speed:	2850-2880 rpm
Efficiency:	IE3 73,8%
Motor efficiency at full load:	73.8 %
Martin official and a CA lands	79.0 %
Motor efficiency at 3/4 load:	
Motor efficiency at 1/2 load:	75.5 %

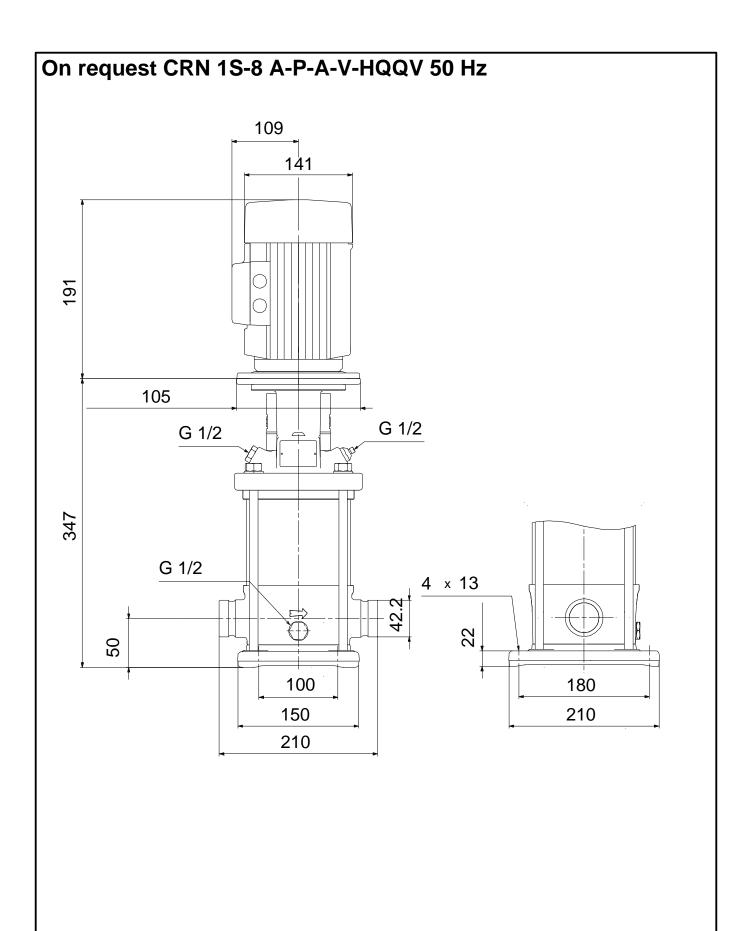




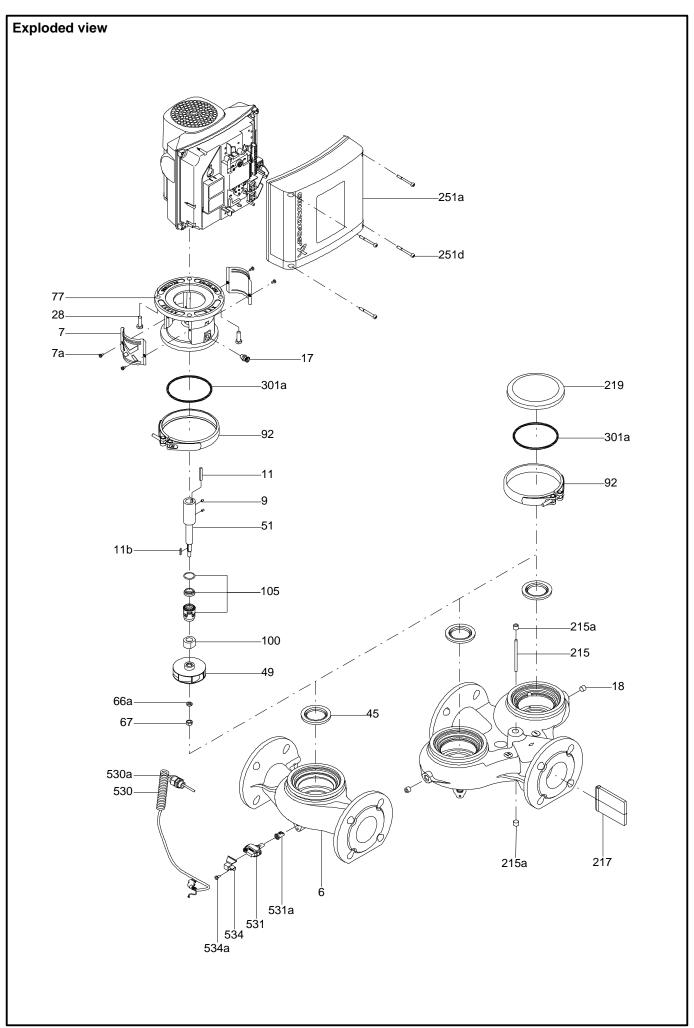


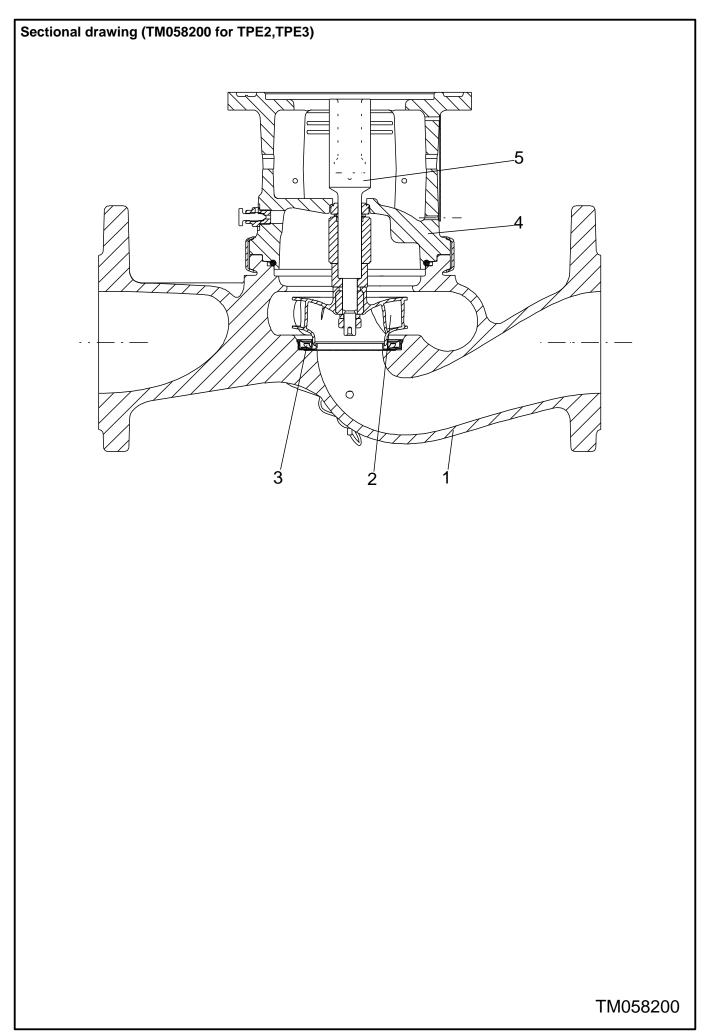
Description	Value
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	85805102
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI :	0.54
Net weight:	18.6 kg
Gross weight:	21.3 kg
Shipping volume:	0.063 m³

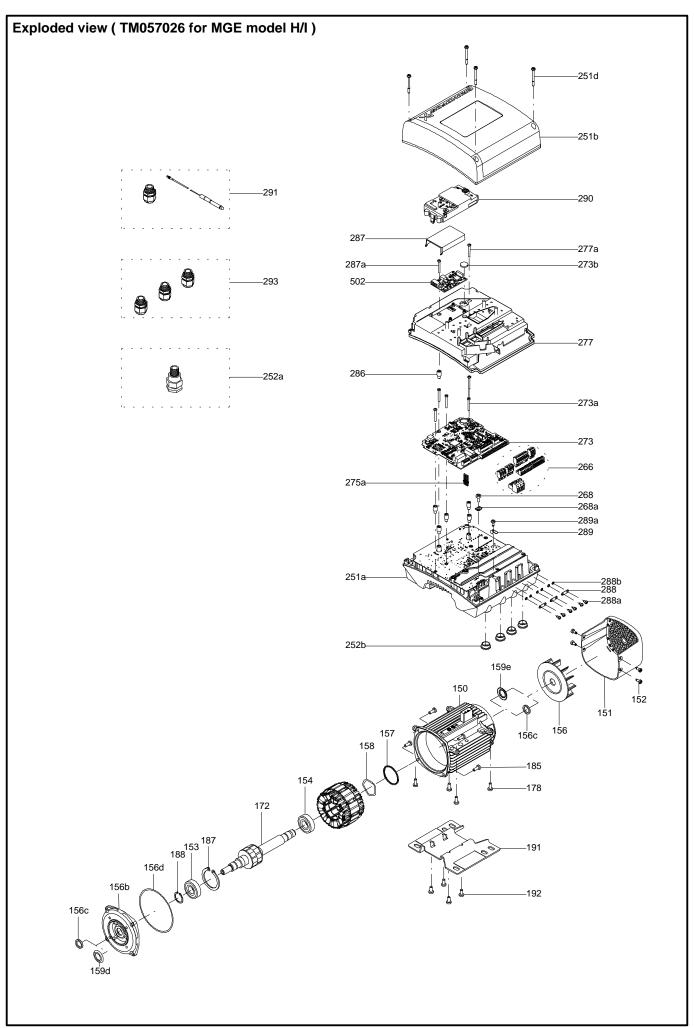




Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.







Parts list CRN 1S-8, Product No. On request Valid from 1.1.2004 (0401)

Pos	Description Motor	Aimotation	Données de classification	I/CICI CIICE	1	ntité	Uni pcs
	Base cpl.				1		pcs
6	Base cpi.					1	pcs
6							
25	Plug					2	
56	Base plate					1	
0.5	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	
			Material type: FKM				
			Thickness: 2,4				
2	Pump head cpl.				1		pcs
2	Pump head					1	
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): 20			4	
			Thread: M6				
60	Formed wire spring					1	
77	Pump cover					<u>'</u> 1	
8	Coupling				1		pcs
9	Hex socket head cap screw		Designation: DIN 912			4	pus
J	Hey socker Head cab sciew		Length (mm): 20			7	
			Thread: M6				
10	Shaft pin		Diameter: 5			1	
10	σπαπ μπ					'	
10a	Coupling half		Length (mm): 26			2	
10a 26	Coupling half		Longth (mm): 241			_	noo
∠0	Staybolt		Length (mm): 241		4		pcs
00	Nice		Thread: M12		,		
36	Nut		Thread: M12		4		pcs
55	Outer sleeve		B		1		pcs
66a	Washer		Designation: DIN 125 A2		4		pcs
			Internal diameter: 13				
			Outer diameter: 24				
			Thickness: 2,5				
80	Chamber stack				1		pcs
4	Chamber cpl.					6	
4a	Intermediate chamber					1	
45	Neck ring					1	
65	Neck ring retainer					1	
4a	Chamber w. bearing cpl.					1	
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	
47a	Bearing ring, rotating					<u>'</u> 1	
49	Impeller cpl.					8	
	IIIIDEIIEI CDI.					U	

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
49	Impeller				1	
- 50a	Guide vane				1	
	Plate				1	
50b	Top plate				1	
51	Shaft, spline, cpl.				1	
64a	Spacing pipe				6	
64a	Spacing pipe		Internal diameter: 12,85		1	
			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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