

CRI1-23 A-P-I-E-HQQE 1x220/240 50HZ

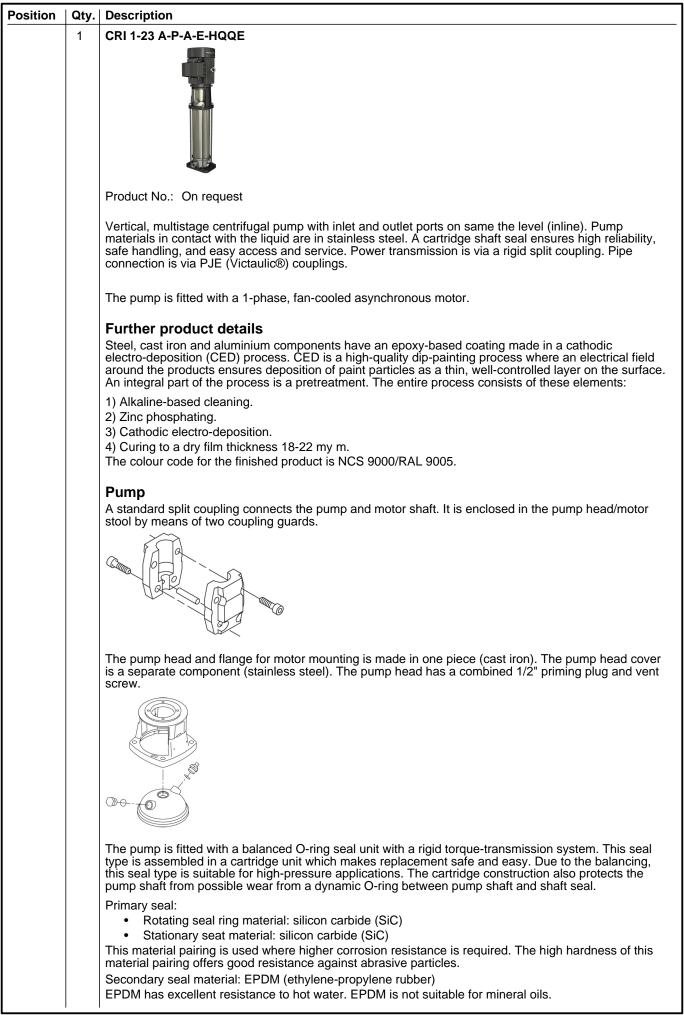
Grundfos pump 96533082



Thank you for your interest in our products. Please contact us for more information, or visit our website

https://www.lenntech.com/grundfos/CRI01/96533082/CRI-1-23-A-P-I-E-HQQE.html

info@lenntech.com tel. +31 152 610 900 fax. +31 152 616 289





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 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.

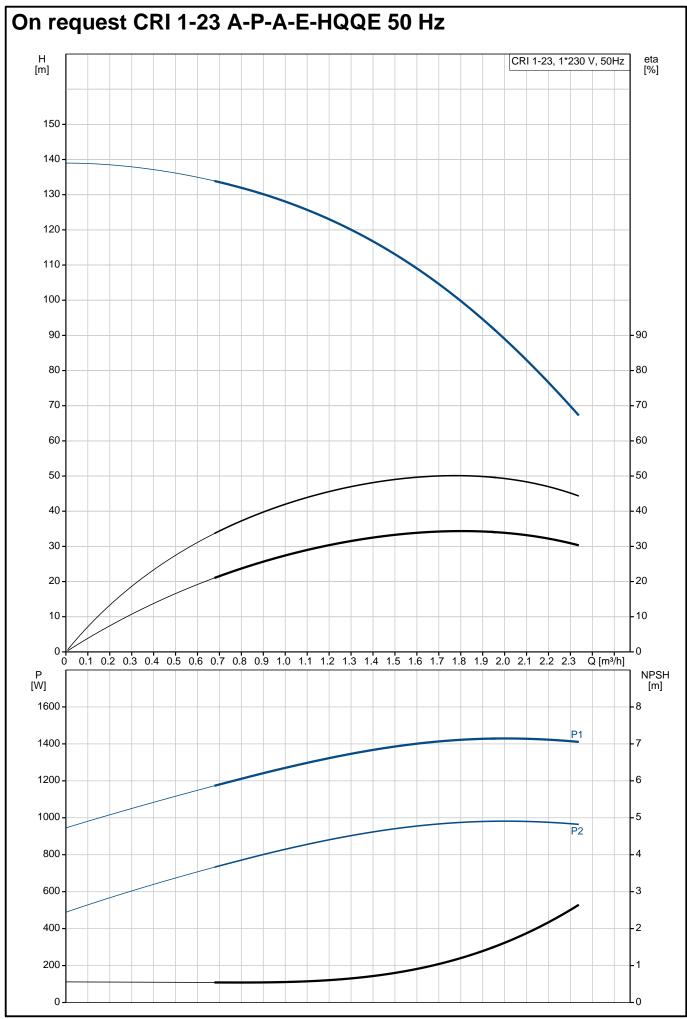
The motor has built-in thermal protection (PTO current and temperature sensors) in accordance with IEC 60034-11 and requires no further motor protection. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

As the thermal protection incorporates automatic reset, the motor must be connected in a way which ensures that the automatic reset cannot cause accidents.

Technical data

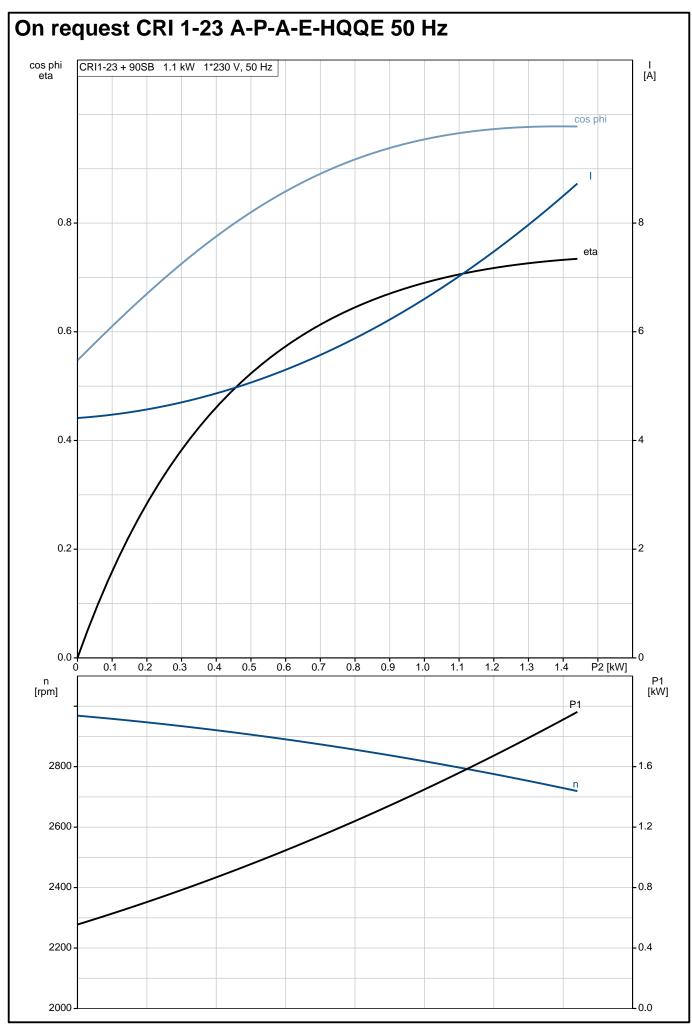
Controls: Frequency converter:	NONE
Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during opera Density:	Water -20 120 °C tion: 20 °C 998.2 kg/m ³
Technical: Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals on nameplate: Curve tolerance:	1.8 m ³ /h 99.7 m Vertical Single HQQE CE, EAC,ACS ISO9906:2012 3B
Materials: Base: Impeller:	Stainless steel EN 1.4408 AISI 316 Stainless steel

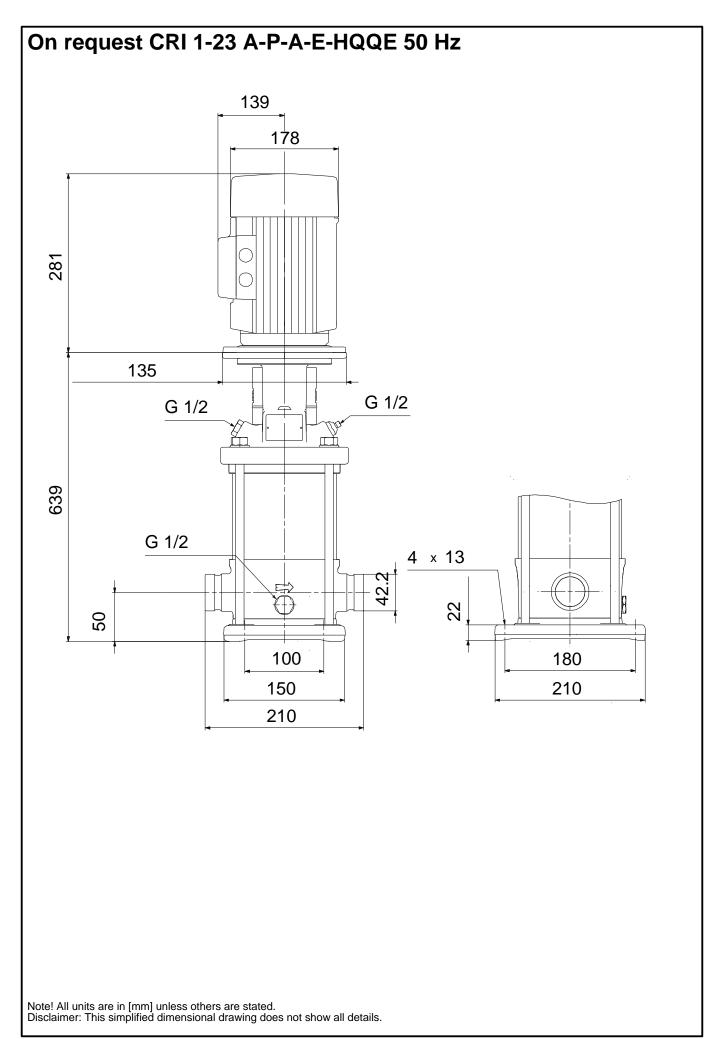
Position	Qty.	Description	
	હ્યાપ્ર.		EN 4 4204
			EN 1.4301
		Booring	AISI 304
		Bearing:	SIC
		Installation:	
		Maximum ambient temperature:	40 °C
		Maximum operating pressure:	25 bar
		Max pressure at stated temp:	25 bar / 120 °C
			25 bar / -20 °C
		Type of connection:	PJE
		Size of inlet connection:	DN 32
			1 1/4 inch
		Size of outlet connection:	DN 32
			1 1/4 inch
		Pressure rating for pipe connect	
		Flange size for motor:	FT115
		Flootrical data:	
		Electrical data: Motor standard:	IEC
		Motor type:	90SB
		Rated power - P2:	1.1 kW
		Power (P2) required by pump:	
		Mains frequency:	50 Hz
		Rated voltage:	1 x 220-230/240 V
		Rated current:	7.40/6.70 A
		Starting current:	390 %
		Cos phi - power factor:	0.98/0.99
		Rated speed:	2770 rpm
		Motor efficiency at full load:	73-71 %
		Number of poles:	2
		Enclosure class (IEC 34-5):	55 Dust/Jetting
		Insulation class (IEC 85):	F
		Others:	
		Minimum efficiency index, MEI	• 07
		Net weight:	37.4 kg
		Gross weight:	40.3 kg
		Shipping volume:	0.13 m ³
L		os Product Centre [2018 06 003]	3/13

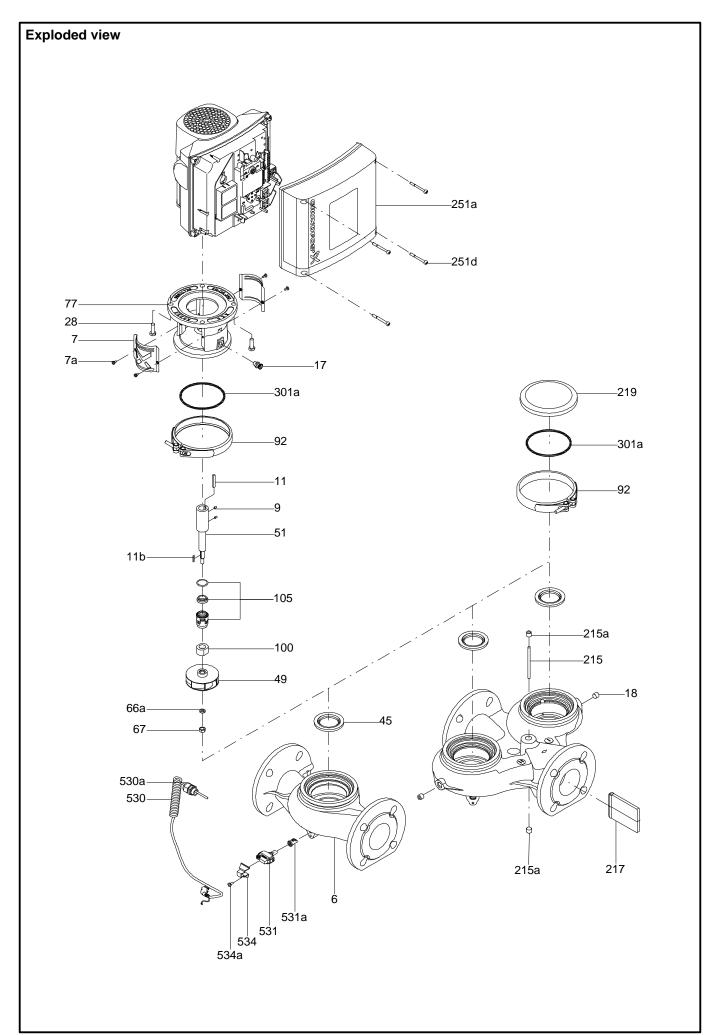


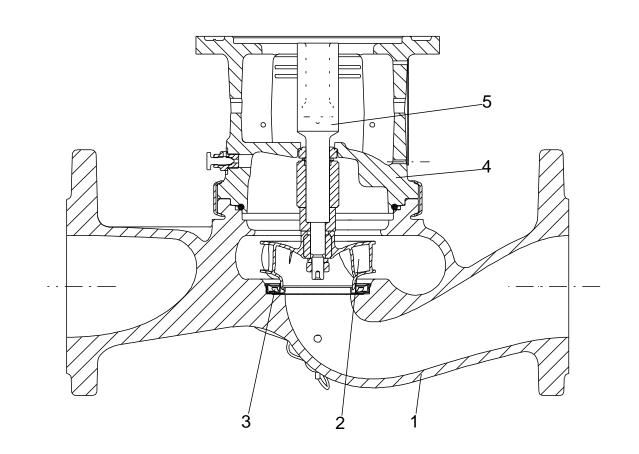
Description	Value	H [m] CRI 1-23, 1*230 V, 50Hz eta [%]
General information:		
Product name:	CRI 1-23 A-P-A-E-HQQE	150 -
Product No:	On request	140 -
EAN number:	On request	130
Technical:	Chrisquest	120
Rated flow:	1.8 m³/h	
		110
Rated head:	99.7 m	100
Stages:	23	90 - 90
Impellers:	23	
Number of reduced-diameter impellers:	0	80 - 80
Low NPSH:	Ν	70 - 70
Pump orientation:	Vertical	60 - 60
Shaft seal arrangement:	Single	50 - 50
Code for shaft seal:	HQQE	
Approvals on nameplate:	CE, EAC,ACS	40 40
		30 - 30
Curve tolerance:	ISO9906:2012 3B	20-20
Pump version:	A	
Model:	A	10 - 10
Materials:		
Base:	Stainless steel	0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 Q [m ³ /h]
	EN 1.4408	P NPSH [m]
	AISI 316	
Impeller:	Stainless steel	1400 - 7
	EN 1.4301	1200 - 6
		1000 - 5
	AISI 304	P2
Material code:	A	800 - 4
Code for rubber:	E	600 3
Bearing:	SIC	400 - 2
Installation:		
Maximum ambient temperature:	40 °C	200 - 1
Maximum operating pressure:	25 bar	0. _ L0
Max pressure at stated temp:	25 bar / 120 °C	1 20
	25 bar / -20 °C	
Tune of connection	PJE	178
Type of connection:		
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:	FT115	<u>G 1/2</u> <u>G 1/2</u>
Connect code:	Р	
Liquid:		
Pumped liquid:	Water	G 1/2
Liquid temperature range:	-20 120 °C	
	-20 °C	
Liquid temperature during operation:		
Density:	998.2 kg/m ³	
Electrical data:		
Motor standard:	IEC	
Motor type:	90SB	
Rated power - P2:	1.1 kW	DIRECTION OF ROTATION DIRECTION OF ROTATION
Power (P2) required by pump:	1.1 kW	BLACK BLACK
Mains frequency:	50 Hz	
Rated voltage:	1 x 220-230/240 V	
Rated current:	7.40/6.70 A	
Starting current:	390 %	
Cos phi - power factor:	0.98/0.99	
Rated speed:	2770 rpm	
Motor efficiency at full load:	73-71 %	
Number of poles:	2	BLACK BLACK
Enclosure class (IEC 34-5):	55 Dust/Jetting	
Insulation class (IEC 85):	F	
Motor protec:	PTO	
Motor No:	-	
IVIOLOT INO.	85215705	
Controls:		

Description	Value
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI :	0.7
Net weight:	37.4 kg
Gross weight:	40.3 kg
Shipping volume:	0.13 m ³

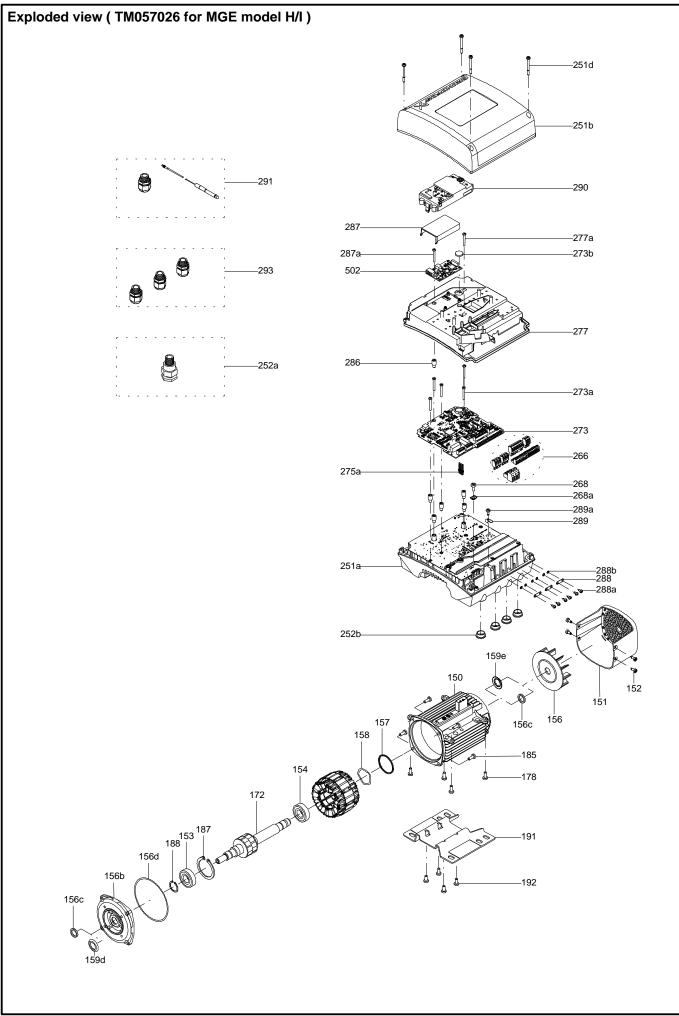








TM058200



Parts list CRI 1-23, Product No. On request Valid from 1.1.2004 (0401)

	Description Motor	Annotation	Données de classification	Référence	1	antité	Uni pcs
	Base cpl.				1		pcs
6	Base				1	1	pcs
25	Plug					2	
25 56	Base plate					2 1	
90	-				1	I	
05	Sealing parts				I		pcs
25	Drain plug w/bypass valve		D: 100			1	
38	O-ring		Diameter: 16,3			1	
			Material type: EPDM				
			Thickness: 2,4			_	
37	O-ring					2	
100	O-ring		Diameter: 16,3			2	
			Material type: EPDM				
			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: M8				
60	Formed wire spring					1	
77	Pump cover					1	
8	Coupling cpl.				1		pcs
9	Hex socket head cap screw		Designation: DIN 912			4	pee
•			Length (mm): 25			•	
			Thread: M8				
10	Shaft pin		Diameter: 5			1	
10	onait pin		Length (mm): 26			•	
10a	Coupling half		Lengur (mm). 20			2	
26	Staybolt		Length (mm): 511		4	2	D 00
20	Slayboll		Thread: M12		4		pcs
260	Washer				4		
36a	washer		Designation: DIN 125 A		4		pcs
			Internal diameter: 13				
			Outer diameter: 24				
			Thickness: 2,5				
55	Outer sleeve		T I 1 1110		1		pcs
66a	Nut		Thread: M12	_	4		pcs
80	Chamber stack		Bearing type: SILICON CARBIDE	=	1		pcs
4	Chamber cpl.					19	
	Guide vane					6	
	Plate					1	
	Retainer					1	
	Intermediate chamber					1	
	Vane					1	
45	Neck ring					1	
65	Retainer					1	
4a	Chamber w. bearing cpl.					3	
	Guide vane					6	
	Retainer for bearing					1	
	Bearing bush					. 1	
	Retainer					1	
	Intermediate chamber					1	
						1	
	Vane						
45	Vane Neck ring					1	

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
5a	Chamber cpl.				1	
	Retainer				1	
	Intermediate chamber				1	
	Vane				1	
45	Neck ring				1	
65	Retainer				1	
36	Lock nut		Thread: M8		1	
47a	Bearing ring, rotating				3	
49	Impeller				23	
50a	Guide vane cpl.				1	
	Plate				1	
50a	Guide vane				6	
50b	Top plate				1	
51	Shaft, spline, cpl.				1	
51	Shaft				1	
62	Stop ring				1	
64a	Spacing pipe				19	
64a	Spacing pipe		Internal diameter: 12,85		3	
			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: HQQE		1	pcs
	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				1	
102	O-ring		Diameter: 22,00		1	
			Material type: EPDM			
			Thickness: 2,75			
103	Seal ring, stationary				1	
105	Seal ring, rotating				1	
107	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.

All information is copyright Grundfos.



info@lenntech.com https://www.lenntech.com tel. +31 152 610 900 fax. +31 152 616 289