

CRI1S-19 A-P-I-E-HQQE 1x220/240 50HZ

Grundfos pump 96562694



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https://www.lenntech.com/grundfos/CRI1S/96562694/CRI-1S-19-A-P-I-E-HQQE.html

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Position | Qty. | Description

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CRI 1S-19 A-P-A-E-HQQE



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

The pump is fitted with a 1-phase, fan-cooled asynchronous motor.

Further product details

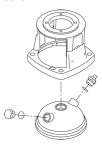
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

Pump

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: EPDM (ethylene-propylene rubber)

EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



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 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: Water
Liquid temperature range: -20 .. 120 °C
Liquid temperature during operation: 20 °C
Density: 998.2 kg/m³

Technical:

Rated flow: 0.9 m³/h
Rated head: 70.2 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:

Base: Stainless steel

EN 1.4408 AISI 316

Impeller: Stainless steel

EN 1.4301 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

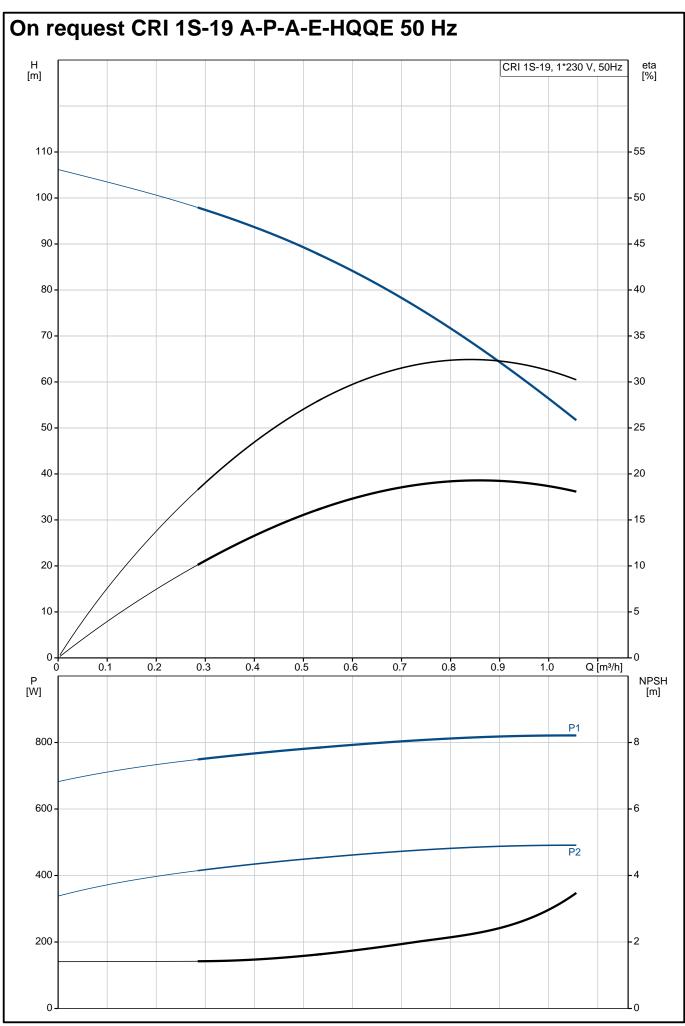
Size of inlet connection: DN 32

1 1/4 inch

Size of outlet connection: DN 32

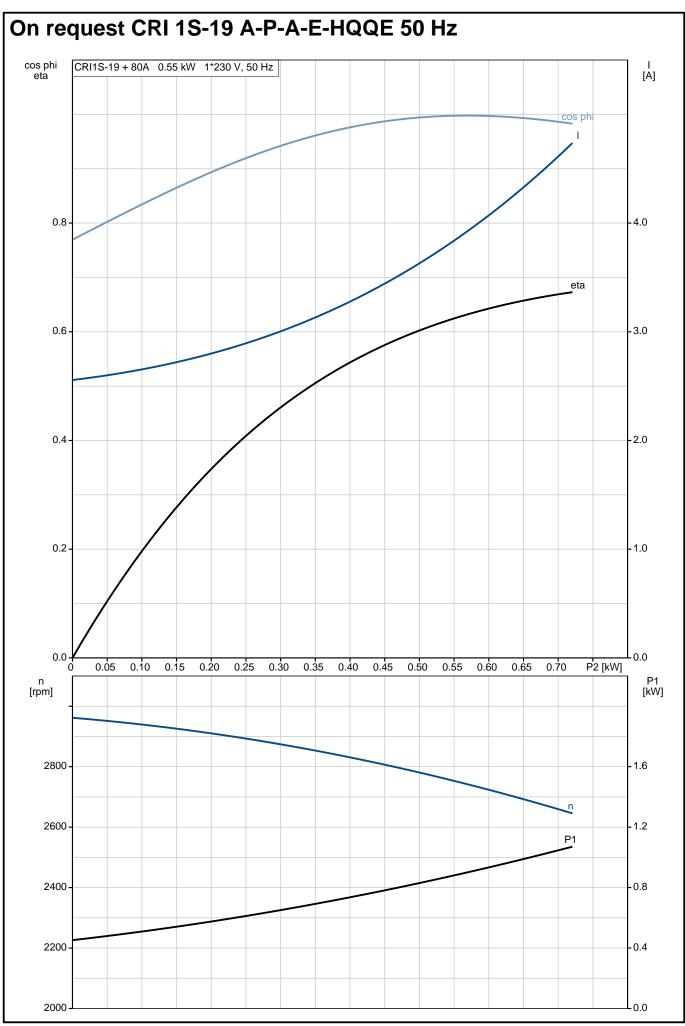
1 1/4 inch

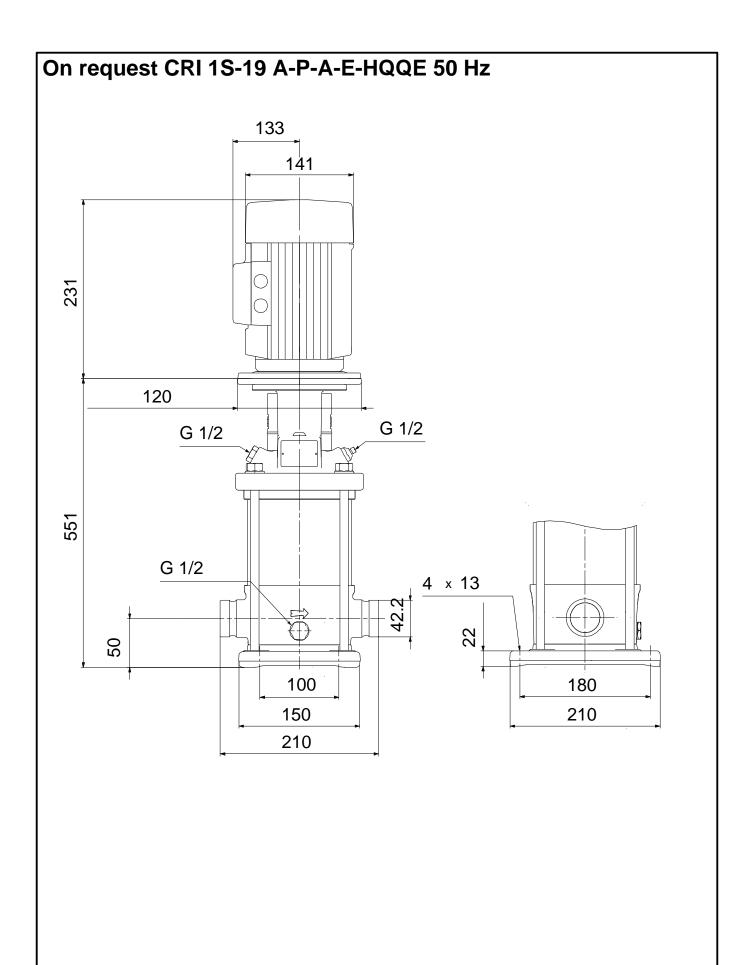
Position	Qty.	Description						
		Pressure rating for pipe connection: PN 50						
		Flange size for motor: FT100						
		Electrical data:						
		Motor standard:	IEC					
		Motor type:	80A					
		Rated power - P2: Power (P2) required by pump:	0.55 kW					
		Mains frequency:	50 Hz					
		Rated voltage:	1 x 220-230/240 V					
		Rated current:	4.00/3.65 A					
		Starting current: Cos phi - power factor:	280 % 0.99					
		Rated speed:	2750 rpm					
		Motor efficiency at full load:	66-64 %					
		Number of poles: Enclosure class (IEC 34-5):	2 55 Dust/Jetting					
		Insulation class (IEC 85):	F					
		Others:	. 0.54					
		Minimum efficiency index, MEI Net weight:	: 0.54 26 kg					
		Gross weight:	30 kg					
		Shipping volume:	0.092 m³					



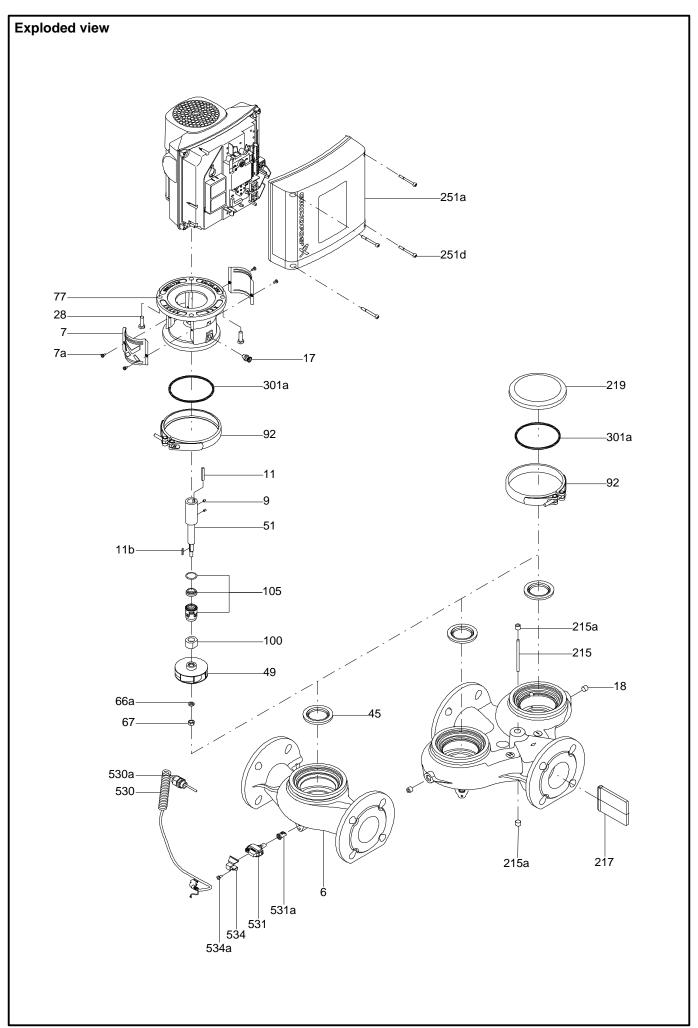
Description	Value	H [m]			CRI 1S	-19, 1*230 V, 50Hz	eta [%]
General information:							
Product name:	CRI 1S-19 A-P-A-E-HQQE	110 -					- 55
Product No:	On request	110					7 55
EAN number:	On request	100 -					50
	On request						"
Technical:		90 -					45
Rated flow:	0.9 m³/h						
Rated head:	70.2 m	80 -					40
Stages:	19						
Impellers:	19	70 -					35
impenero.	10	60 -					30
Number of reduced-diameter	0	00 -					
impellers:	NI .	50 -					25
Low NPSH:	N						
Pump orientation:	Vertical	40 -					20
Shaft seal arrangement:	Single			1			
Code for shaft seal:	HQQE	30 -					15
Approvals on nameplate:	CE, EAC,ACS	00					40
Curve tolerance:	ISO9906:2012 3B	20 -					10
		10 -	AA				-5
Pump version:	A	107					١
Model:	A	0 -	<u>/ </u>	+ + +			\perp_{0}
Materials:		Ó	0.1 0.2 (0.3 0.4 0.5	0.6 0.7 0.	3 0.9 Q [m³/h]	-
Base:	Stainless steel	P [W]					NPSH [m]
	EN 1.4408					<u>P</u> 1	' '
	AISI 316	800 -					8
Impeller:	Stainless steel						
impelier.		600 -					-6
	EN 1.4301						
	AISI 304					P2	
Material code:	A	400 -					 4
Code for rubber:	E						
Bearing:	SIC	200 -					-2
Installation:	0.0	-					
	10.00	0					\perp_{\circ}
Maximum ambient temperature:	40 °C						
Maximum operating pressure:		16	_ 133 _				
Max pressure at stated temp:	25 bar / 120 °C		14	1			
	25 bar / -20 °C						
Type of connection:	PJE						
Size of inlet connection:	DN 32						
Size of filler conflection.		231					
	1 1/4 inch		무네				
Size of outlet connection:	DN 32						
	1 1/4 inch	12	20				
Pressure rating for pipe connection:	PN 50		G 1/2	G 1/2			
Flange size for motor:	FT100		التهم				
Connect code:	P	-	THE PERSON NAMED IN COLUMN TO BE A PERSON NAMED IN COLUMN TO B	T	·	e .	
	•	551					
Liquid:			G 1/2		× 13	_ k	
Pumped liquid:	Water					→ 	
Liquid temperature range:	-20 120 °C	20		7	8		
Liquid temperature during operation:	20 °C	• +-	10	0	180		
Density:	998.2 kg/m³		150	0	210		
Electrical data:	<u> </u>		210	0			
Motor standard:	IEC						
		~	LOW VOLTAGE				
Motor type:	80A	60	DIRECTION OF RO	TATION			
Rated power - P2:	0.55 kW			[
Power (P2) required by pump:	0.55 kW	[6]	\$	z 🌡			
Mains frequency:	50 Hz	(E) (2)		MAIN			
Rated voltage:	1 x 220-230/240 V		TTT	_ ₹			
-			_ - - -				
Rated current:	4.00/3.65 A						
Starting current:	280 %	 	$\neg \sqcap_{N}$				
Cos phi - power factor:	0.99		HIGH VOLTAGE				
Rated speed:	2750 rpm	(C)	DIRECTION OF RO	TATION			
Motor efficiency at full load:	66-64 %						
Number of poles:	2		5 65 65 65 65 65 65 65 65 65 65 65 65 65				
				MAIN			
Enclosure class (IEC 34-5):	55 Dust/Jetting	[Z]					
Insulation class (IEC 85):	F			'			
Motor protec:	PTO		L				
			1 44	- 11			
Motor No:	85215103		_N				

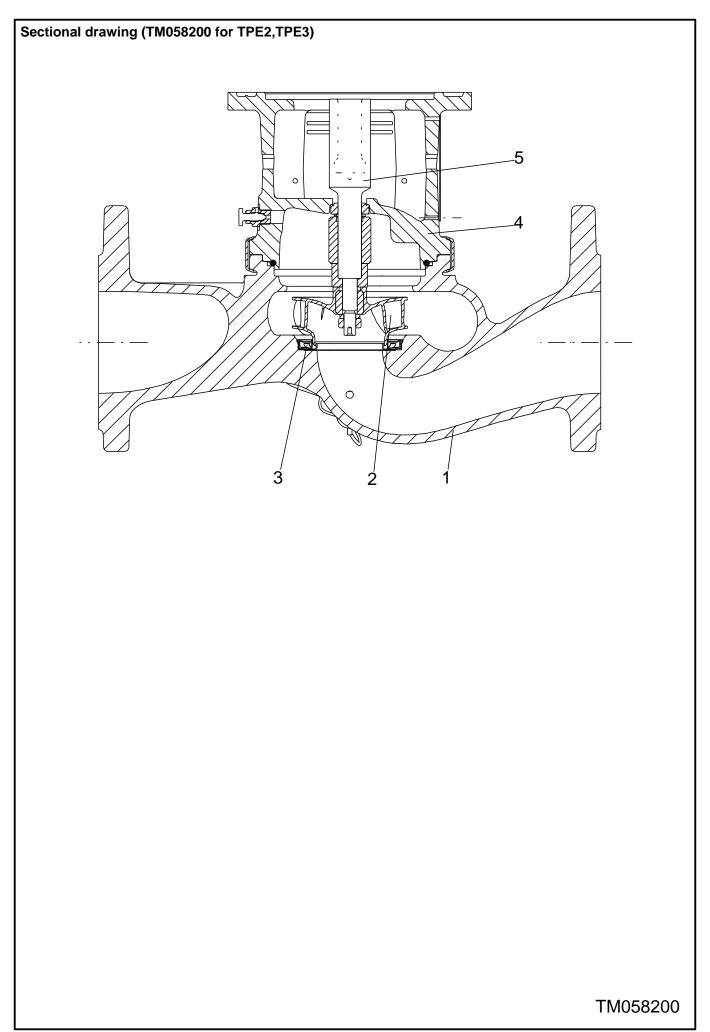
Description	Value
Controls:	value
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI:	0.54
Net weight:	26 kg
Gross weight:	30 kg
Shipping volume:	0.092 m ³

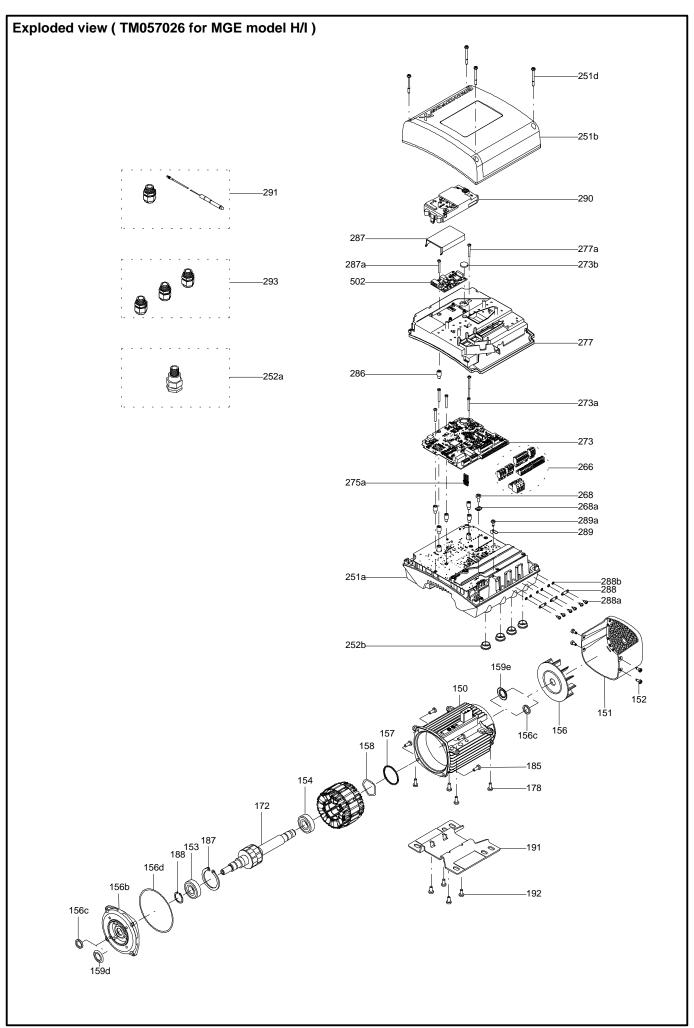




Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.







Parts list CRI 1S-19, Product No. On request Valid from 1.1.2004 (0401)

Pos	Description Motor	Amount	Données de classification	- ACIEI EIILE	Quantité 1	p D
	Base cpl.				1	p
6	Base				1	P
25	Plug				2	
56	Base plate				1	
	Sealing parts				1	р
25	Drain plug w/bypass valve				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	р
2	Pump head				1	•
7	Coupling guard				2	
7.a	Combi Slot Torx screw				4	
18	Air vent screw				1	
10					'	
	Plug				1	
225	Spindle					
23a	Plug		Lawrette (march), OF BARA		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	р
9	Hex socket head cap screw		Designation: DIN 912		4	
			Length (mm): 20			
			Thread: M6			
10	Shaft pin		Diameter: 5		1	
	•		Length (mm): 26			
10a	Coupling half		5 () -		2	
26	Staybolt		Length (mm): 439		4	р
			Thread: M12		•	Ρ'
36a	Washer		Designation: DIN 125 A		4	р
Jua	· · · · · · · · · · · · · · · · · · ·		Internal diameter: 13		т	М
			Outer diameter: 24			
	Outer ala su-		Thickness: 2,5		_	
55	Outer sleeve		T		1	р
66a			Thread: M12		4	р
80	Chamber stack				1	р
4	Chamber cpl.				16	
	Guide vane				6	
	Plate				1	
	Retainer				1	
	Intermediate chamber				1	
	Vane				1	
45	Neck ring				1	
65	Retainer				1	
4a	Chamber w. bearing cpl.				2	
	Guide vane					3
	Retainer for bearing				1	
	Bearing bush				1	
	Retainer				1	
	Intermediate chamber				1	
	Vane				1	
45	Neck ring				1	
65	Retainer				1	

Pos		Annotation	Données de classification	Référence	Quantité	Unité
- 5a	Chamber cpl.				1	
	Retainer				1	1
	Intermediate chamber				•	1
	Vane				•	1
45	Neck ring				•	1
65	Retainer				,	1
36	Lock nut		Thread: M8		1	
47a	Bearing ring, rotating				2	
- 49	Impeller cpl.				19	
49	Impeller				•	1
- 50a	Guide vane cpl.				1	
	Plate				1	1
50a	Guide vane				6	
50b	Top plate				1	1
51	Shaft, spline, cpl.				1	
64a	Spacing pipe				16	
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: 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.

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