

SEV.80.100.40.2.51D.Q

Grundfos pump 97637770



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<https://www.lenntech.com/grundfos/SEV00/97637770/SEV-80-100-40-2-51D-Q.html>

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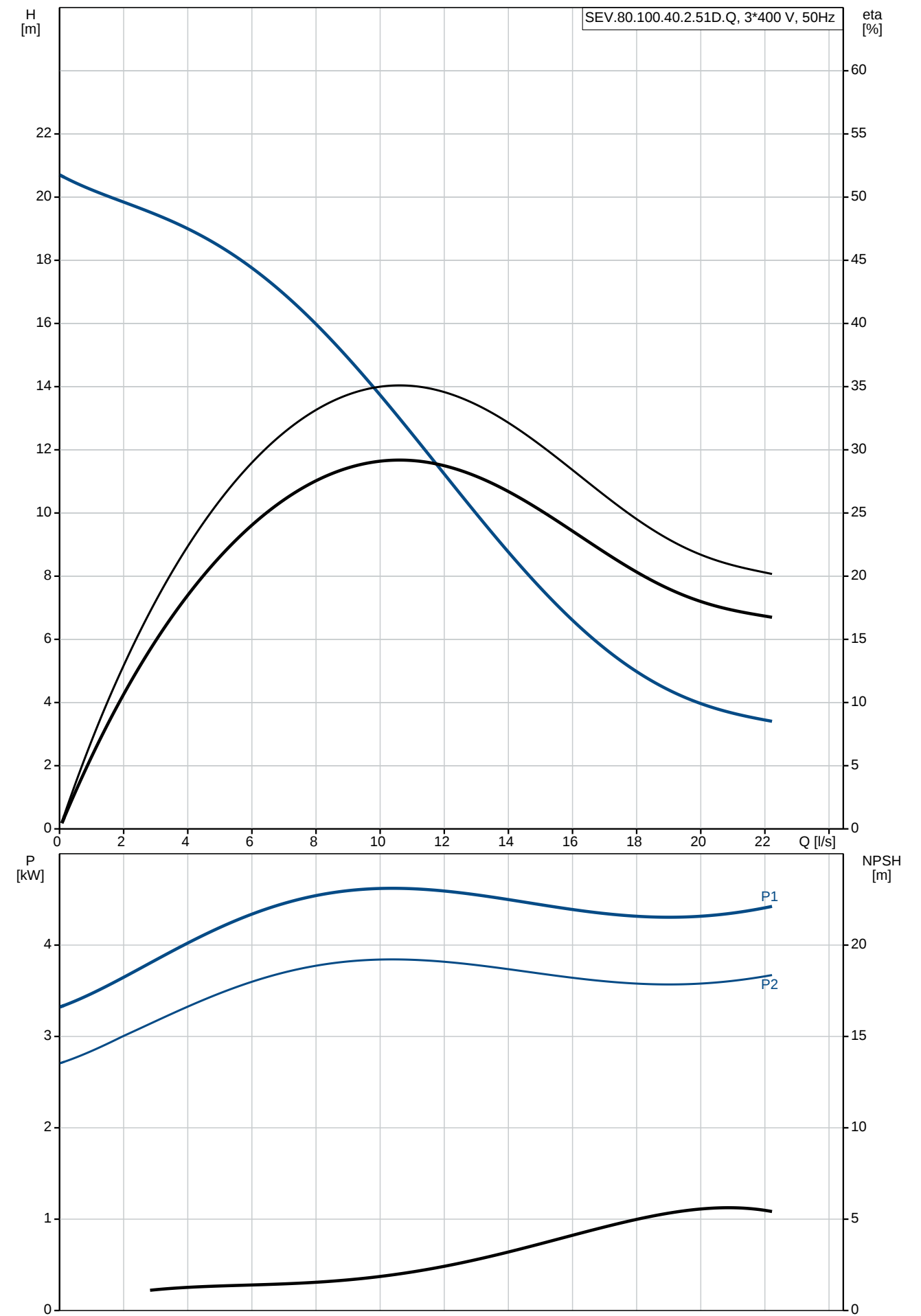
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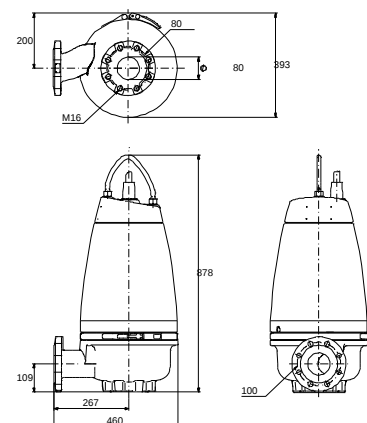
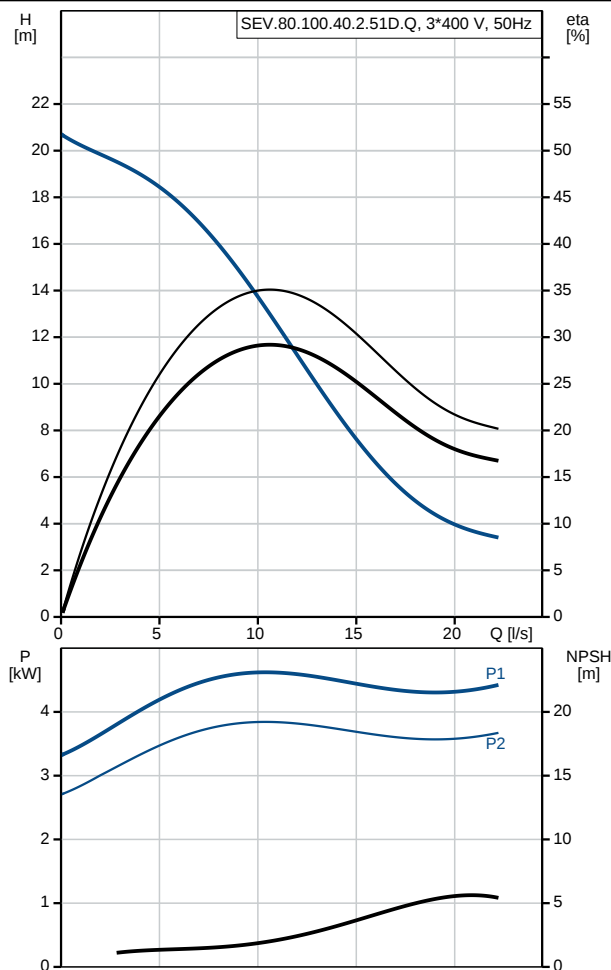
Position	Qty.	Description
	1	SEV.80.100.40.2.51D.Q  Note! Product picture may differ from actual product Product No.: On request Non-self-priming, single-stage, centrifugal pump designed for handling wastewater, process water and unscreened raw sewage. The pump is designed for intermittent and continuous operation. The liquidless and maintenance free cooling system ensures that the pump can be used for submerged or dry installation. The efficient SuperVortex impeller provides passage of long fibres and solids up to 80 mm and is suitable for wastewater with a dry matter content of up to 5 %. A unique stainless-steel clamp assembling system enables quick and easy disassembly of the pump from the motor unit for service and inspection. No special tools are required. Pipework connection is via a DIN flange. Further product details Typical application is transfer of liquid, such as: - large quantities of drainage and surface water - domestic wastewater with discharge from toilets - wastewater from commercial buildings without discharge from toilets - sludge-containing industrial wastewater. The pump is ideal for pumping of the above liquids from for instance: - municipal network pumping stations - public buildings - blocks of flats - factories/industry. The pump is suitable for both temporary and permanent installation either as free-standing on ring stand, on base stand, on brackets or on an auto-coupling system. Pump The pump is fitted with an easy-to-clean stainless steel motor sleeve (EN 1.4301) that is extremely robust and impact-resistant. Pump housing is made of cast-iron (EN-GJL-250) and the impeller is made of stainless steel (EN 1.4408). The SuperVortex impeller is a symmetrical multivane winglet impeller. The design ensures a flow entirely outside the impeller providing limited contact between the impeller and the pumped liquid. This ensures that long fibres, rags and more passes freely through the pump without getting caught and without causing clogging or jamming.  The shaft seal consists of two mechanical seals that ensure a reliable sealing between the pumped liquid and motor. The shaft seals are incorporated in a single-unit cartridge shaft seal system that is easy to replace in the field without use of special tools. The combination of the primary and secondary seals in a cartridge shaft seal system results in a shorter assembly length compared to conventional shaft seals. - Primary seal: Silicon carbide/silicon carbide (SiC/SiC)

Position	Qty.	Description
		Voltage tolerance: +6/-10 % Max starts per. hour: 20 Rated current: 8.7-8.5 A Rated current at 3/4 load: 6.7 A Rated current at 1/2 load: 5.4 A Starting current: 71 A Rated current at no load: 3.9 A Cos phi - power factor: 0.84 Cos phi - p.f. at no load: 0.15 Cos phi - p.f. at 3/4 load: 0.78 Cos phi - p.f. at 1/2 load: 0.68 Rated speed: 2925 rpm Locked-rotor torque: 40 Nm Breakdown torque: 54 Nm Moment of inertia: 0.0127 kg m ² Motor efficiency at full load: 83.3 % Motor efficiency at 3/4 load: 82.4 % Motor efficiency at 1/2 load: 79.2 % Number of poles: 2 Start. method: star/delta Enclosure class (IEC 34-5): IP68 Insulation class (IEC 85): F Explosion proof: no Length of cable: 10 m Cable type: LYNIFLEX Type of cable plug: NO PLUG Others: Net weight: 142 kg

On request SEV.80.100.40.2.51D.Q 50 Hz

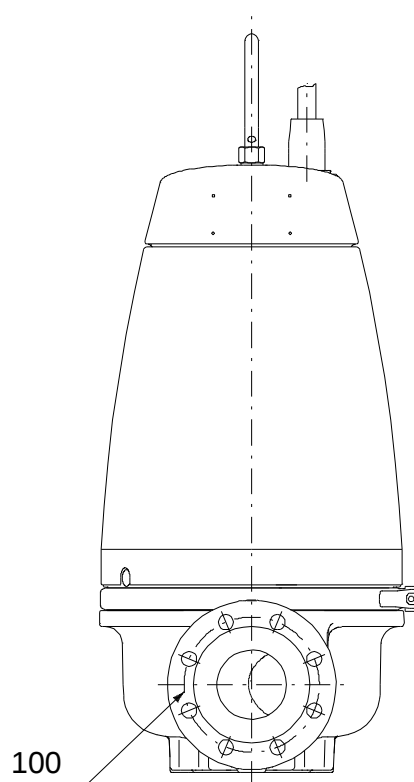
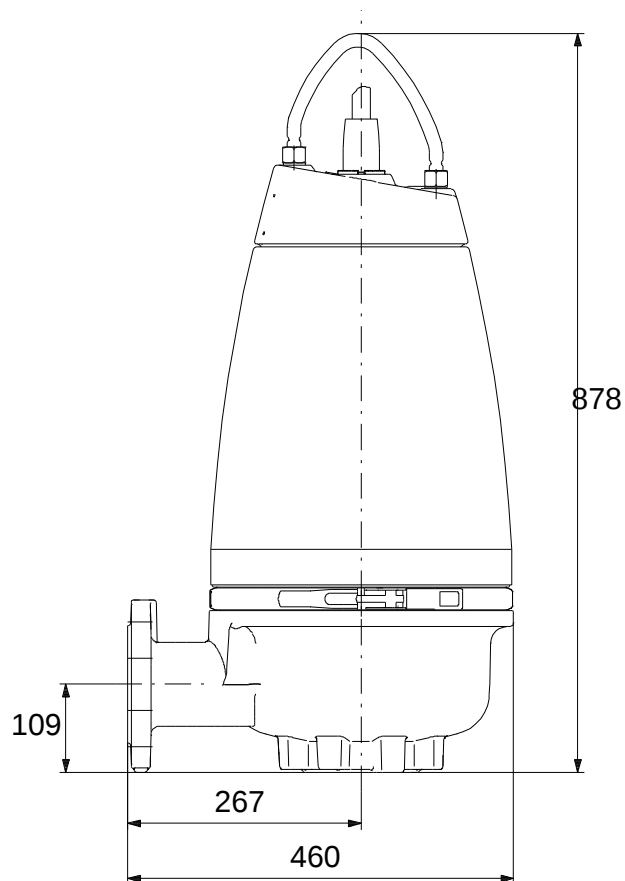
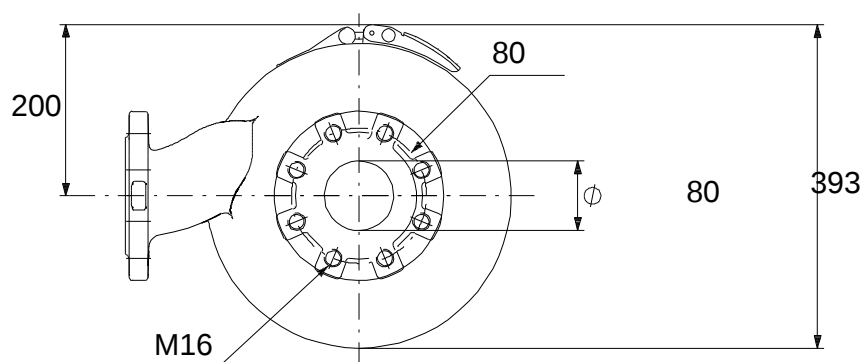


Description	Value
General information:	
Product name:	SEV.80.100.40.2.51D.Q
Product No:	On request
EAN number:	On request
Technical:	
Max flow:	22.2 l/s
Head max:	20.7 m
Type of impeller:	SUPER VORTEX
Maximum particle size:	80 mm
Primary shaft seal:	SIC/SIC
Secondary shaft seal:	CARBON/CERAMICS
Max. hydraulic efficiency:	35 %
Approvals on nameplate:	EN12050-1
Curve tolerance:	ISO9906:2012 3B2
Cooling jacket:	with cooling jacket
Materials:	
Pump housing:	EN 1561 EN-GJL-250
Impeller:	Stainless steel
Installation:	
Maximum ambient temperature:	40 °C
Maximum operating pressure:	6 bar
Flange standard:	DIN
Pump outlet:	DN 100
Pressure rating:	PN 10
Maximum installation depth:	20 m
Inst dry/wet:	DRY/SUBMERGED
Installation:	horizontal or vertical
Liquid:	
Liquid temperature range:	0 .. 40 °C
Density:	998.2 kg/m ³
Electrical data:	
Power input - P1:	4.8 kW
Rated power - P2:	4 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance:	+6/-10 %
Max starts per. hour:	20
Rated current:	8.7-8.5 A
Rated current at 3/4 load:	6.7 A
Rated current at 1/2 load:	5.4 A
Starting current:	71 A
Rated current at no load:	3.9 A
Cos phi - power factor:	0.84
Cos phi - p.f. at no load:	0.15
Cos phi - p.f. at 3/4 load:	0.78
Cos phi - p.f. at 1/2 load:	0.68
Rated speed:	2925 rpm
Locked-rotor torque:	40 Nm
Breakdown torque:	54 Nm
Moment of inertia:	0.0127 kg m ²
Motor efficiency at full load:	83.3 %
Motor efficiency at 3/4 load:	82.4 %
Motor efficiency at 1/2 load:	79.2 %
Number of poles:	2
Start. method:	star/delta
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	F
Explosion proof:	no
Motor protec:	THERMAL SWITCH
Thermal protec:	internal
Length of cable:	10 m
Cable type:	LYNIFLEX
Type of cable plug:	NO PLUG
Controls:	



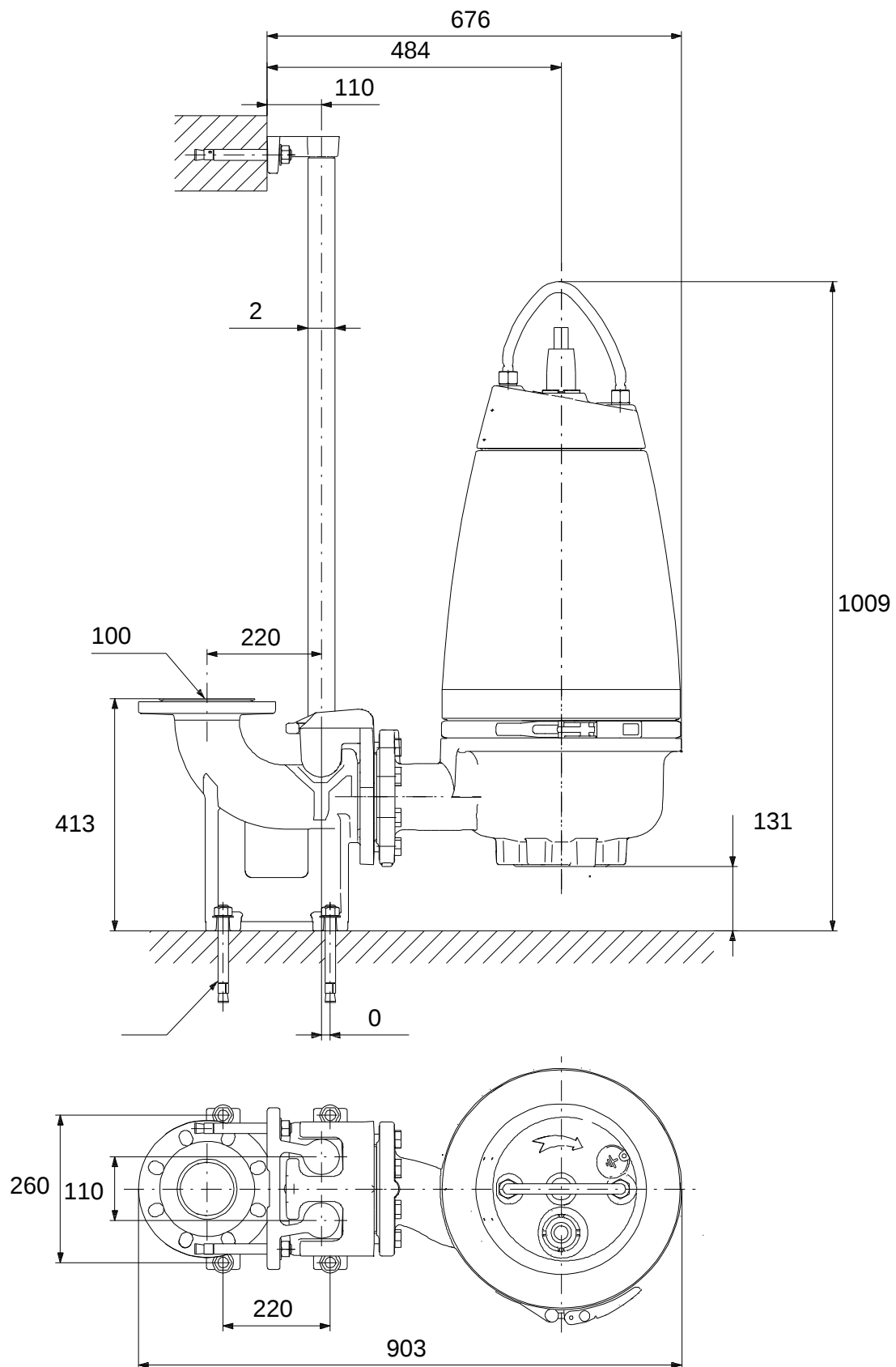
Description	Value
Control box:	not included
Moisture sensor:	without moisture sensors
Water-in-oil sensor:	without water-in-oil sensor
Temp. sensor:	N
Others:	
Net weight:	142 kg

On request SEV.80.100.40.2.51D.Q 50 Hz



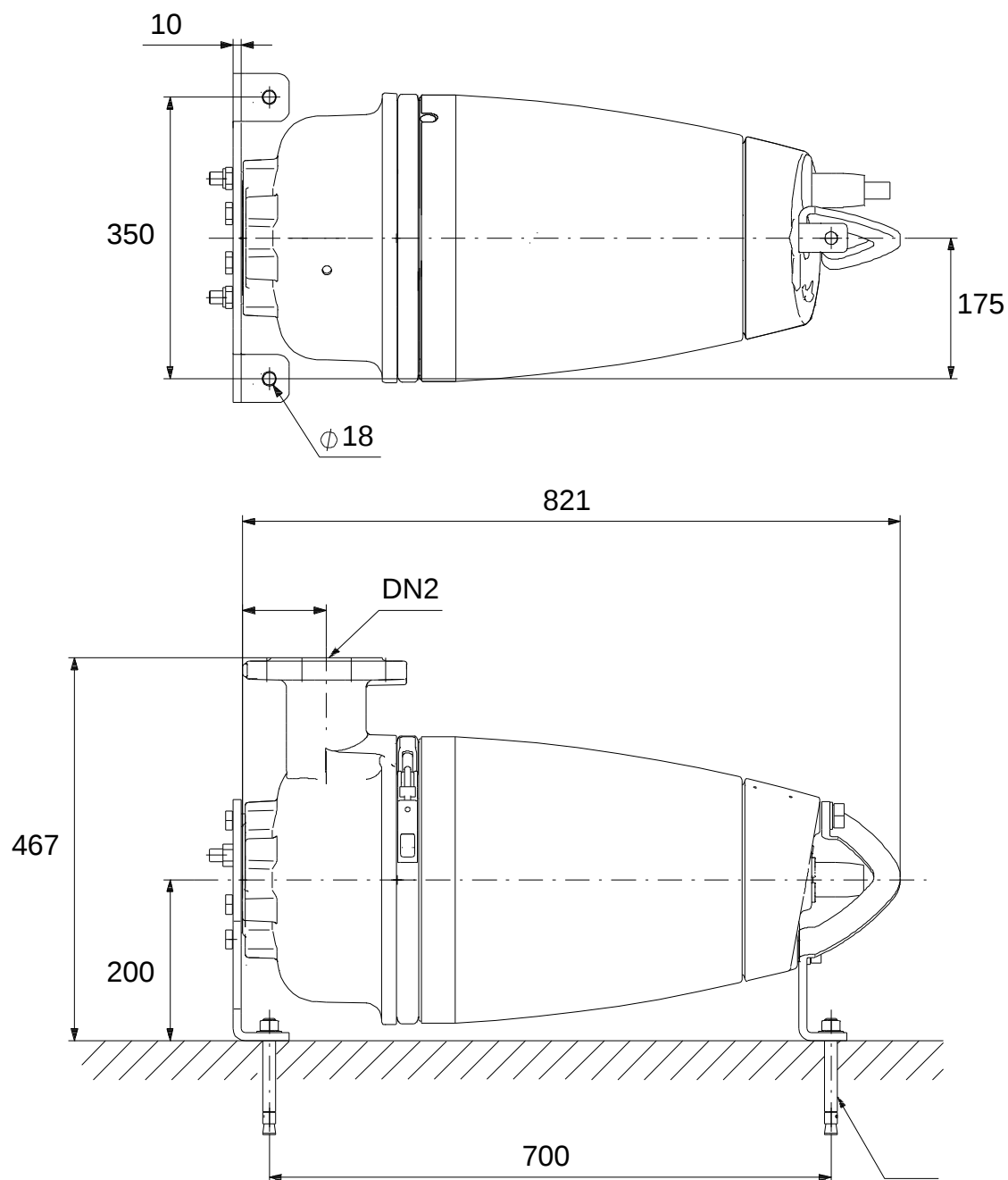
Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

On request SEV.80.100.40.2.51D.Q 50 Hz



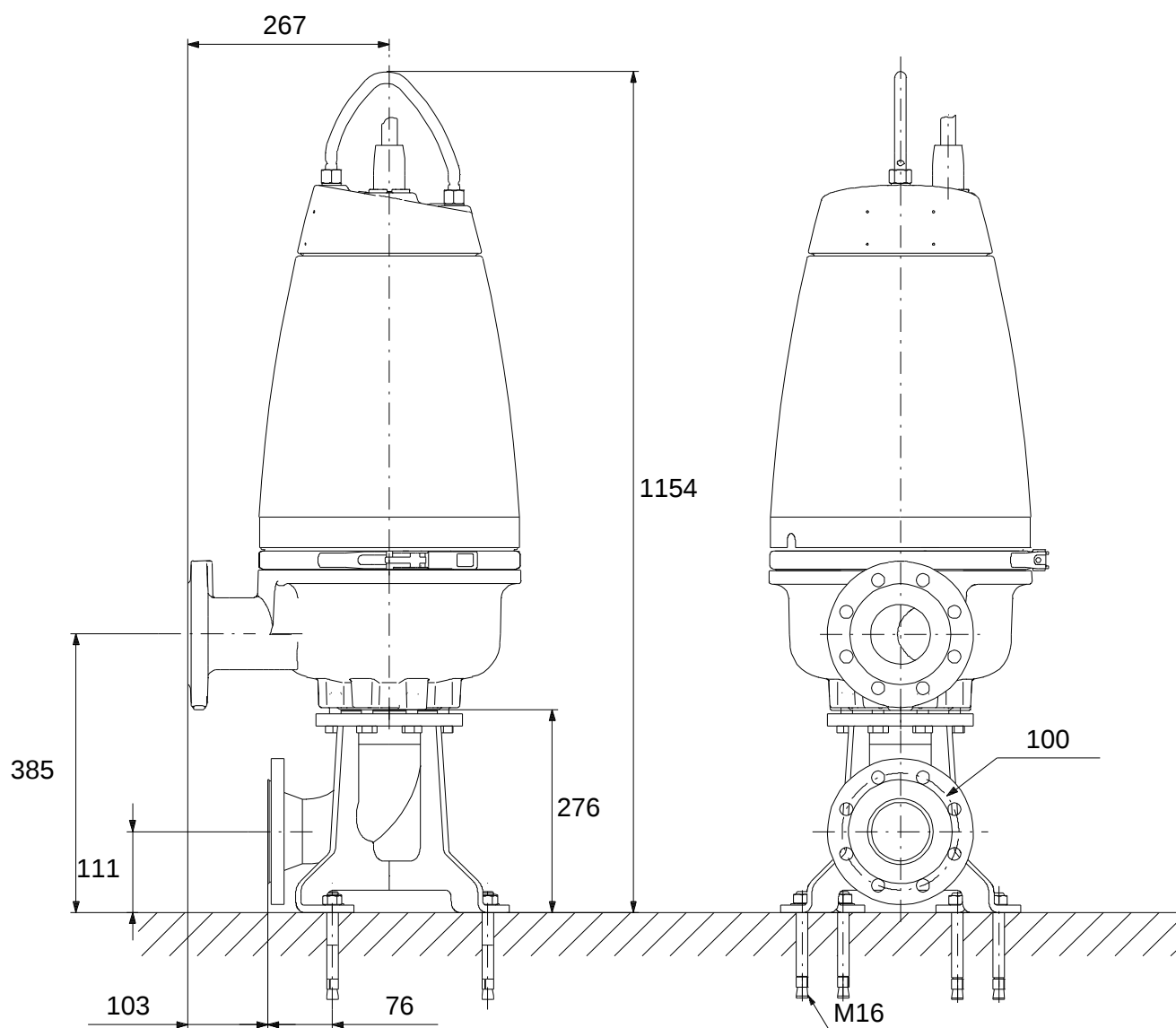
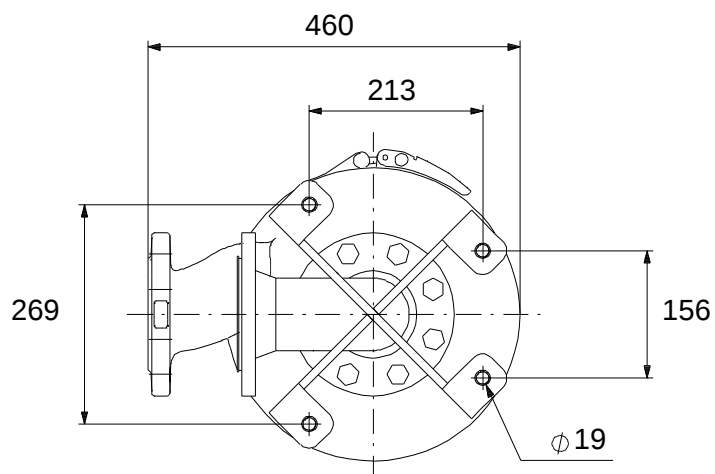
Note! All units are in [mm] unless others are stated.
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On request SEV.80.100.40.2.51D.Q 50 Hz



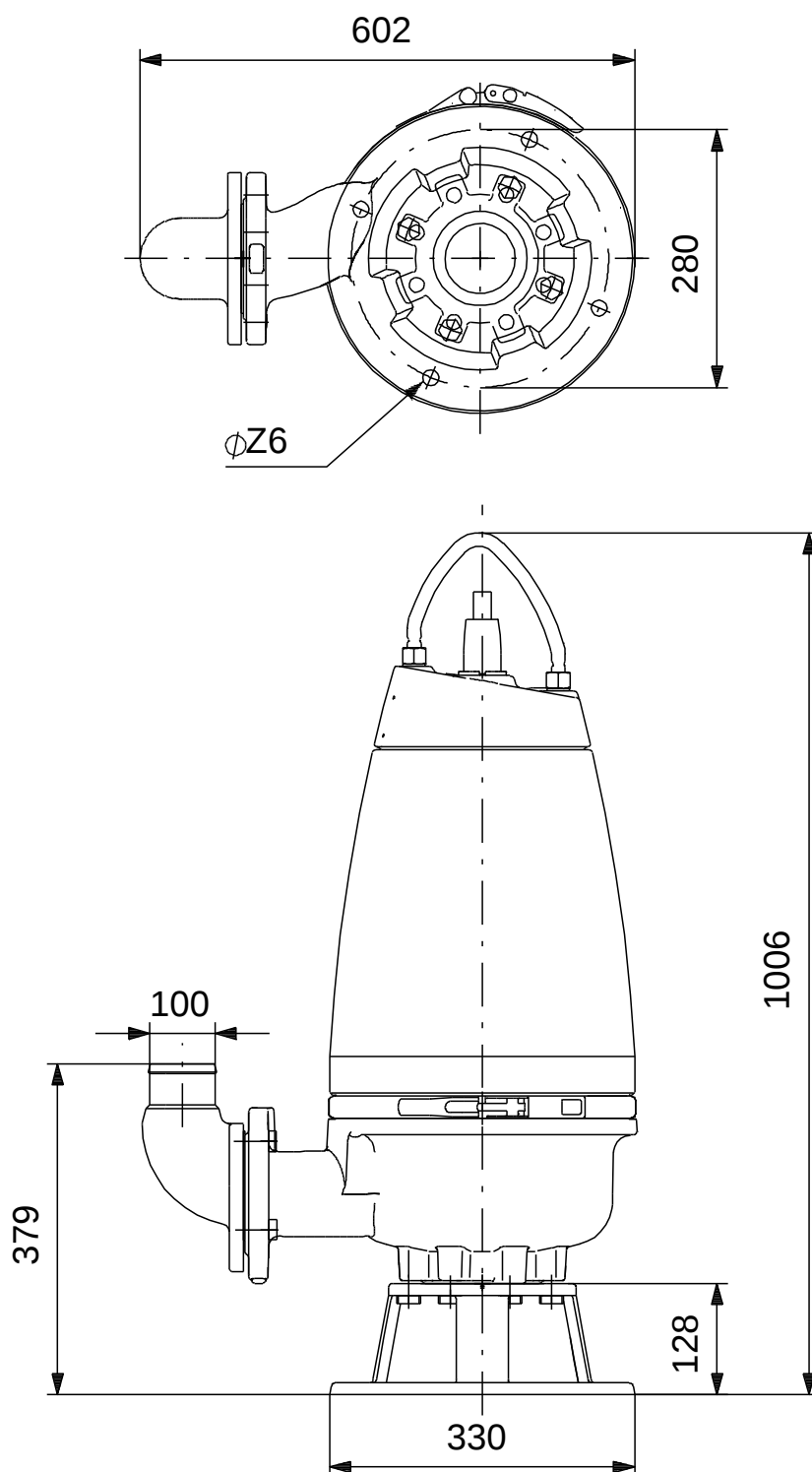
Note! All units are in [mm] unless others are stated.
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On request SEV.80.100.40.2.51D.Q 50 Hz



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Exploded view



Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

Exploded view (TM057026 for MGE model H/I)



Parts list SEV.80.100.40.2.51D.Q, Product No. On request
Valid from 3.5.2004 (0419)

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
	Clamp				2	pcs
	Earth connector				1	pcs
	Thermotransfer foil				0	M
	Thermotransfer foil				0	M
6a	Pin				1	pcs
7a	Rivet				4	pcs
9a	Parallel key		Dimension: 8X7X28		1	pcs
19	Plug				1	pcs
37	O-ring		Diameter: 297		1	pcs
			Material type: NBR70			
			Thickness: 4			
37a	O-ring		Diameter: 330		2	pcs
			Material type: NBR70			
			Thickness: 4			
37b	O-ring		Diameter: 225		1	pcs
			Material type: NBR			
			Thickness: 4			
48	Stator				1	pcs
49	Impeller				1	pcs
50	Pump housing				1	pcs
55	Stator housing				1	pcs
58	Cover				1	pcs
59	Bearing cover				1	pcs
60	Bearing retainer				1	pcs
61	Bearing retainer				1	pcs
66	Washer		Internal diameter: 10.5		1	pcs
			Outer diameter: 25			
			Thickness: 3			
76	Nameplate				1	pcs
+ 92	Strap cpl.				1	pcs
102	Retaining ring				1	pcs
- 105	Shaft seal				1	pcs
	Shaft seal				1	
	Shaft seal				1	
	Shaft seal				1	
	Retaining ring				1	
	Shaft seal, rotating part				1	
	Shaft seal, rotating part				1	
	Shaft seal, stationary part				1	
	Shaft seal, stationary part				1	
106	O-ring		Diameter: 50		2	
			Material type: NBR			
			Thickness: 3			
107	O-ring		Diameter: 134.5		1	pcs
			Material type: NBR			
			Thickness: 3			
108	O-ring		Diameter: 100		1	pcs
			Material type: NBR			
			Thickness: 3			
109	O-ring		Diameter: 100		1	pcs
			Material type: NBR			
			Thickness: 3			
150	Motor sleeve				1	pcs
151	Motor cover				1	pcs
153	Ball bearing		Designation: 6305.2Z.C4.SYN		1	pcs
153b	O-ring				1	pcs
154	Angular-contact bearing				1	pcs
155	Flange				1	pcs
157	Waved washer				1	pcs

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
158	Waved washer				1	pcs
159	O-ring		Diameter: 41		1	pcs
			Material type: NBR			
			Thickness: 4			
172	Shaft w/rotor				1	pcs
174a	Lock washer				1	pcs
176	Plug				1	pcs
177	Plug protector				1	pcs
177	Hex socket head cap screw				1	pcs
- 181	Cable cpl.				1	pcs
198	O-ring				1	
183	Hex socket head cap screw		Length (mm): 50		1	pcs
			Thread: M30			
183a	Washer		Internal diameter: 33		1	pcs
			Outer diameter: 38			
			Thickness: 2			
184	Hex socket head cap screw		Designation: DIN 912		6	pcs
			Length (mm): 40			
			Thread: M10			
184a	Washer		Internal diameter: 10.5		6	pcs
			Outer diameter: 18			
			Thickness: 1.6			
186	Hex socket head cap screw				2	pcs
187	Hex socket head cap screw				4	pcs
188	Hex socket head cap screw				4	pcs
188a	Hex socket head cap screw		Designation: DIN 912		1	pcs
			Length (mm): 25			
			Thread: M10			
190	Lifting bracket				1	pcs
190a	Rubber bush				2	pcs
192	Cooling paste				6	G
193	Hex socket head cap screw		Designation: A2-70		2	pcs
			Length (mm): 20			
			Thread: M12			
193a	Oil				0	L
194	Washer		Internal diameter: 19		2	pcs
			Outer diameter: 12.2			
			Thickness: 4.4			
1031	Connector pin				9	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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