

Inventflow: Grundfos A-partner

Grundfos NK 125-500/421 A2F2AE-SBQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/nk/grundfos-nk-125-500-421-a2f2ae-sbqqe>

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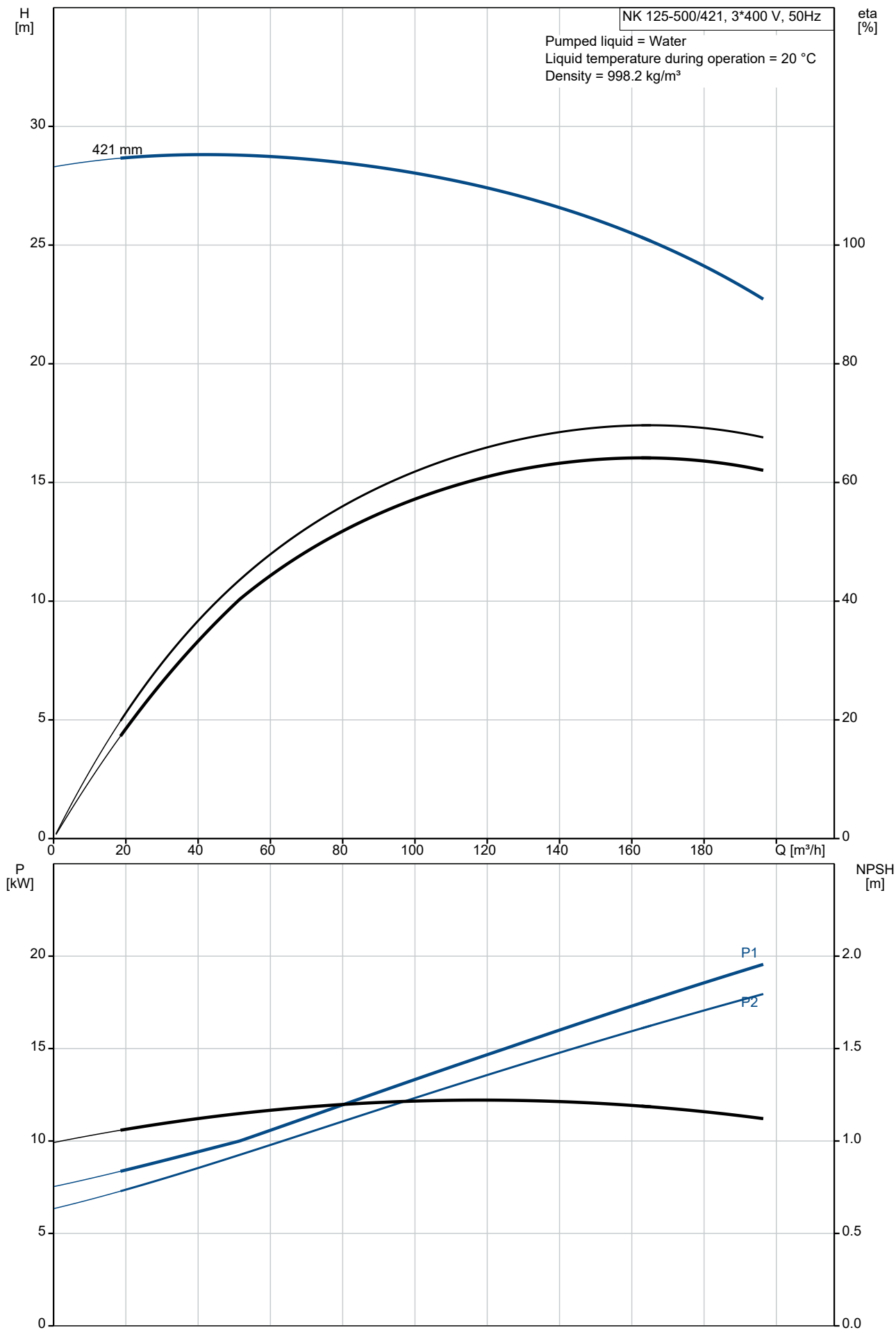
Datasheet



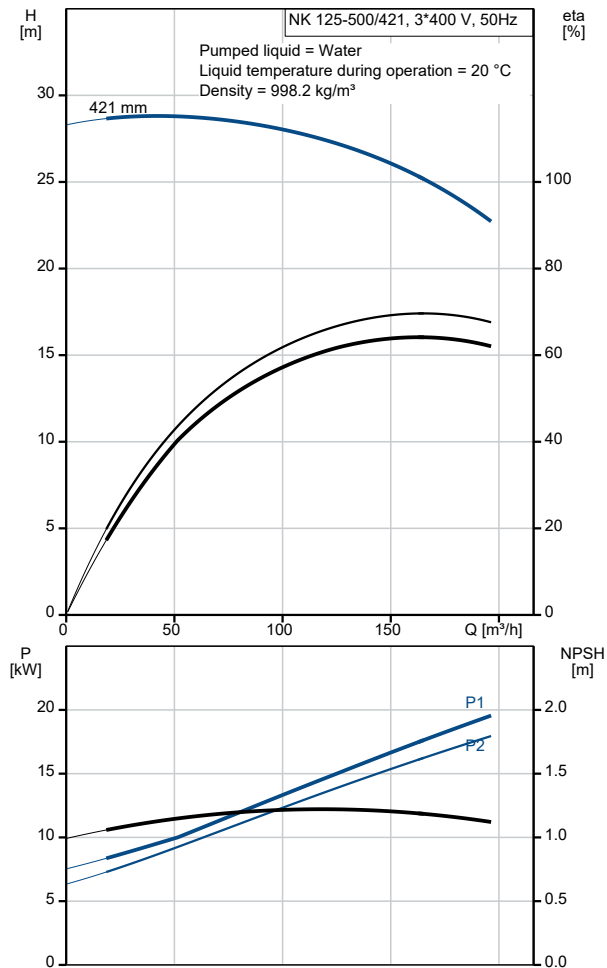
Qty.	Description
1	NK 125-500/421 A2F2AE-SBQQE  Note! Product picture may differ from actual product Product No.: 98972448 Non-self priming, single-stage centrifugal Flange standard: pump according to EN 1092-2. The pump is for the pumping of thin, clean or slightly contaminated liquids without abrasive or long-fibred solids. Phase: Pump and 3-phase AC motor are mounted as separate units on a common baseplate and The impeller is hydraulically as well as dynamically balanced. The pump has the following characteristics: - flange dimensions according to EN 1092-2, Pump housing: - Cast iron volute pump housing, - stainless steel shaft Impeller: and Cast iron impeller and bronze wear rings, - unbalanced mechanical shaft seal according to EN 12756. Controls: Frequency converter: NONE Pressure sensor: N Liquid: Pumped liquid: Water Liquid temperature range: -25 .. 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Technical: Pump speed on which pump data are based: 980 rpm Rated flow: 166.7 m³/h Pump with motor: Y Rated head: 24.91 m Actual impeller diameter: 421 mm Nominal impeller diameter: 500 Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B Bearing design: Standard Materials: Pump housing: Cast iron EN-GJL-250 ASTM class 35 Wear ring: Brass Impeller: Cast iron EN-GJL-200

Qty.	Description
	Shaft: ASTM class 30 Stainless steel EN 1.4301 AISI 304 Internal pump house coating: CED Installation: Maximum ambient temperature: 55 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Type of inlet connection: DIN Type of outlet connection: DIN Size of inlet connection: DN 150 Size of outlet connection: DN 125 Pressure rating for connection: PN 16 Coupling type: Flexible w/spacer Base frame design: EN/ISO Grouting: N Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 18.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y V Rated current: 38,0-36,5/22,0-21,0 A Starting current: 560-560 % Cos phi - power factor: 0.79 Rated speed: 980 rpm Efficiency: IE3 91,7% Motor efficiency at full load: 91.7-91.7 % Motor efficiency at 3/4 load: 92.5-92.5 % Motor efficiency at 1/2 load: 92.5-92.5 % Number of poles: 6 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 98957462 Others: Minimum efficiency index, MEI ≥: 0.46 Net weight: 1080 kg Gross weight: 1120 kg Shipping volume: 2.52 m³ Country of origin: HU Custom tariff no.: 84137059

98972448 NK 125-500/421 A2F2AE-SBQQE 50 Hz

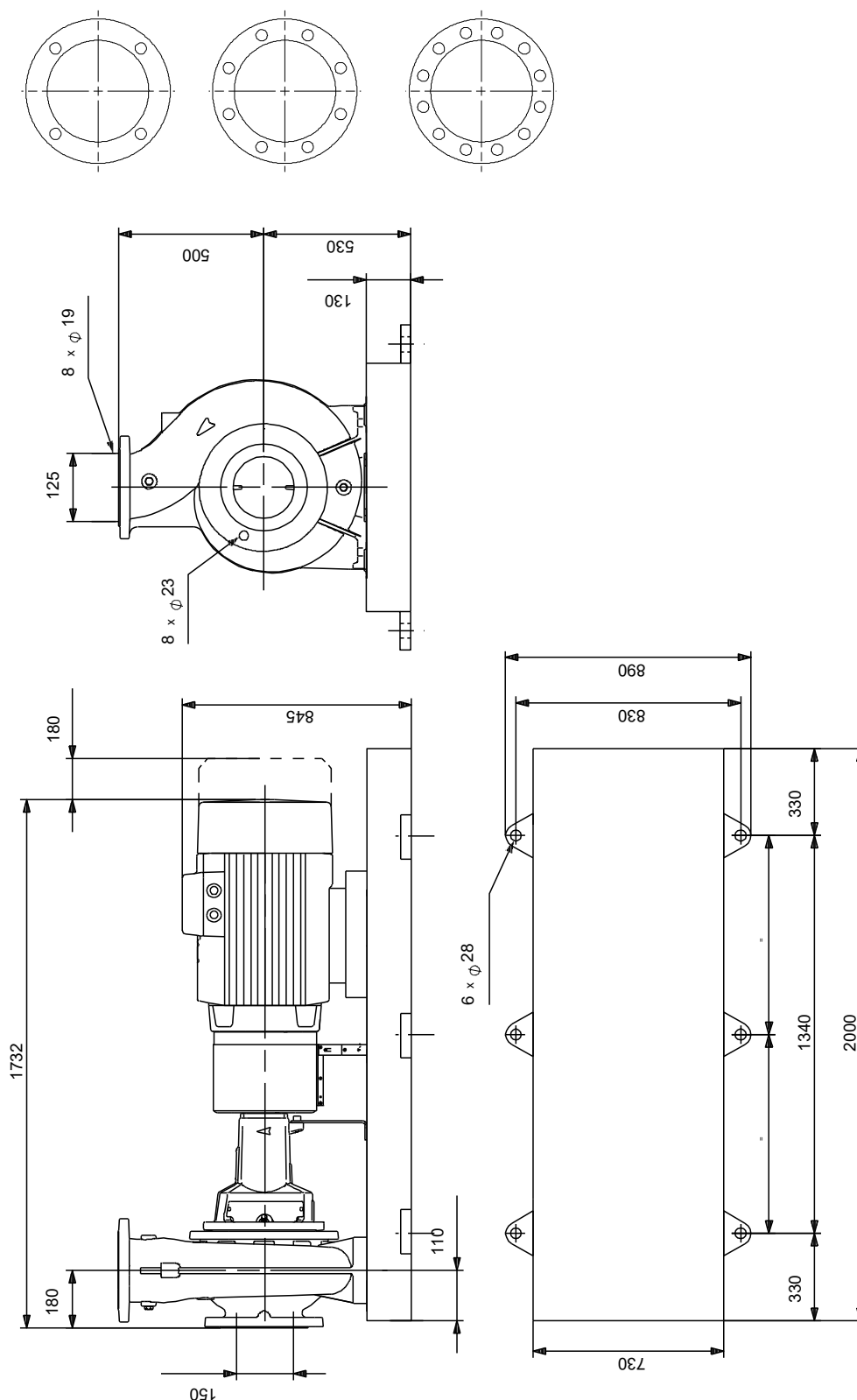


Description	Value
General information:	
Product name:	NK 125-500/421 A2F2AE-SBQQE
Product No:	98972448
EAN number:	5712604485491
Technical:	
Pump speed on which pump data are based:	980 rpm
Rated flow:	166.7 m³/h
Pump with motor:	Y
Rated head:	24.91 m
Actual impeller diameter:	421 mm
Nominal impeller diameter:	500
Shaft diameter:	60 mm
Code for shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B
Pump version:	A2
Bearing design:	Standard
Materials:	
Pump housing:	Cast iron
Pump housing:	EN-GJL-250
Pump housing:	ASTM class 35
Wear ring:	Brass
Impeller:	Cast iron
Impeller:	EN-GJL-200
Impeller:	ASTM class 30
Shaft:	Stainless steel
Shaft:	EN 1.4301
Shaft:	AISI 304
Internal pump house coating:	CED
Material code:	A
Code for rubber:	E
Installation:	
Maximum ambient temperature:	55 °C
Maximum operating pressure:	16 bar
Pipe connection standard:	EN 1092-2
Type of inlet connection:	DIN
Type of outlet connection:	DIN
Size of inlet connection:	DN 150
Size of outlet connection:	DN 125
Pressure rating for connection:	PN 16
Coupling type:	Flexible w/spacer
Base frame design:	EN/ISO
Grouting:	N
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-25 .. 120 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	SIEMENS
IE Efficiency class:	IE3
Rated power - P2:	18.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420D/660-725Y V
Rated current:	38,0-36,5/22,0-21,0 A
Starting current:	560-560 %
Cos phi - power factor:	0.79
Rated speed:	980 rpm
Efficiency:	IE3 91,7%
Motor efficiency at full load:	91.7-91.7 %
Motor efficiency at 3/4 load:	92.5-92.5 %
Motor efficiency at 1/2 load:	92.5-92.5 %



Description	Value
Number of poles:	6
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	98957462
Controls:	
Frequency converter:	NONE
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.46
Net weight:	1080 kg
Gross weight:	1120 kg
Shipping volume:	2.52 m³
Country of origin:	HU
Custom tariff no.:	84137059

98972448 NK 125-500/421 A2F2AE-SBQQE 50 Hz



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

Spare parts NK 125-500/421, Product No. 98972448
Produced After 1010 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, bearing			95919877	1	pcs
53a	O-ring		Diameter: 119.5 Thickness: 3		1	
53	Ball bearing				1	
54a	O-ring		Diameter: 119.5 Thickness: 3		1	
54	Ball bearing				1	
156a	Bearing cover				2	
159f	Lock washer				2	
159a	V-ring				2	
-	Kit, bearing bracket			96935047	1	pcs
7.k	Hex socket head cap screw		Length (mm): 10 Thread: M6		4	
36.a	Hex nut		Thread: M16		14	
76a	Rivet				2	
86	Bearing bracket				1	
90.e	Hex socket head cap screw		Length (mm): 25 Thread: M12		2	
124d	Shaft guard				1	
124d	Shaft guard				1	
124.d	Pan head screw				4	
-	Kit, coupling			96861646	1	pcs
-	Coupling cpl.				1	
89s	Spacer ring				1	
89r	Spacer sleeve				1	
89p	Coupling female				1	
89o	Coupling part spacer side				1	
89.d	Hex socket head cap screw				6	
89.a	Socket set screw		Length (mm): 10 Thread: M8		1	
89	Rubber blocks for coupling				6	
11.a	Parallel key				1	
-	Kit, coupling guard			98079144	1	pcs
7b	Retainer for coupling guard				1	
- 7	Coupling guard cpl.				1	
7e	Hex socket head cap screw				3	
7c	Spacer f/coupling guard				1	
7	Guard				1	
94	Lock nut		Thread: M6		2	
186	Hex socket head cap screw		Length (mm): 10 Thread: M6		4	
-	Kit, foot for bearing bracket			96909501	1	pcs
	Hex nut		Thread: M16		2	
66	Washer				2	
90.e	Hex head screw		Length (mm): 25 Thread: M12		2	
90.d	Hex head bolt		Length (mm): 60 Thread: M16		2	
90.d	Hex head bolt				2	
90.c	Foot				1	
-	Kit, foot for coupling guard			96848533	1	pcs
7h	Hex head screw		Length (mm): 16 Thread: M8		2	
- 7.d	Foot cpl.				1	
7l	Support f/coupling guard foot				1	
7h	Hex socket head cap screw				2	
7d	Foot for coupling guard				1	
66	Washer				2	
66	Washer				2	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, nut			96939137	1	pcs
11	Parallel key				2	
-	Nut				1	
66a	Spring lock washer				1	
66	Washer				1	
67	Nut		Thread: M33		1	
-	Kit, pump housing			96930842	1	pcs
6	Pump housing				1	
20	Plug				2	
36	Nut		Thread: M16		16	
-	Kit, rubber blocks f. coupling			96480019	1	pcs
89	Rubber blocks for coupling				6	
-	Kit, shaft			97761158	1	pcs
11.a	Parallel key				1	
11	Parallel key				2	
51	Pump shaft				1	
66a	Spring lock washer				1	
66	Washer				1	
67	Nut		Thread: M33		1	
-	Kit, shaft guard			96809962	1	pcs
124d	Shaft guard				1	
124d	Shaft guard				1	
124.d	Pan head screw				4	
-	Kit, V-ring			96871242	1	pcs
159a	V-ring				2	
-	Spare, wear ring			96810109	1	pcs
45	Wear ring				1	
-	Spare, wear ring			96810112	1	pcs
45	Wear ring				1	
	Support block			92575585	2	pcs
-	Motor				1	pcs
156	Kit, fan			98505758	1	
151	Kit, fan cover			98062275	1	
176	Kit, terminal board			98062236	1	
164a	Kit, terminal box			98062262	1	
7k	Hex socket head cap screw		Length (mm): 10 Thread: M6	97506946	4	pcs
9	Hex socket head cap screw		Length (mm): 25 Thread: M12	97506952	2	pcs
36	Hex nut		Thread: M16	96620480	14	pcs
36a	Nut		Thread: M16	97511794	16	pcs
72a	O-ring		Material type: EPDM	92547639	1	pcs
72a	O-ring		Material type: EPDM	97511874	1	pcs
72a	O-ring		Material type: EPDM	97757679	1	pcs
77a	Pan head screw			99266550	4	pcs
109	O-ring		Diameter: 119.5 Thickness: 3	97511817	2	pcs
156a	Bearing cover			97506942	2	pcs