



POMPTECHNIEK • SERVICE • ONDERHOUD

Inventflow: Grundfos A-partner

Grundfos CRN 155-7 A-F-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/crn/grundfos-crn-155-7-a-f-a-e-hqqe>

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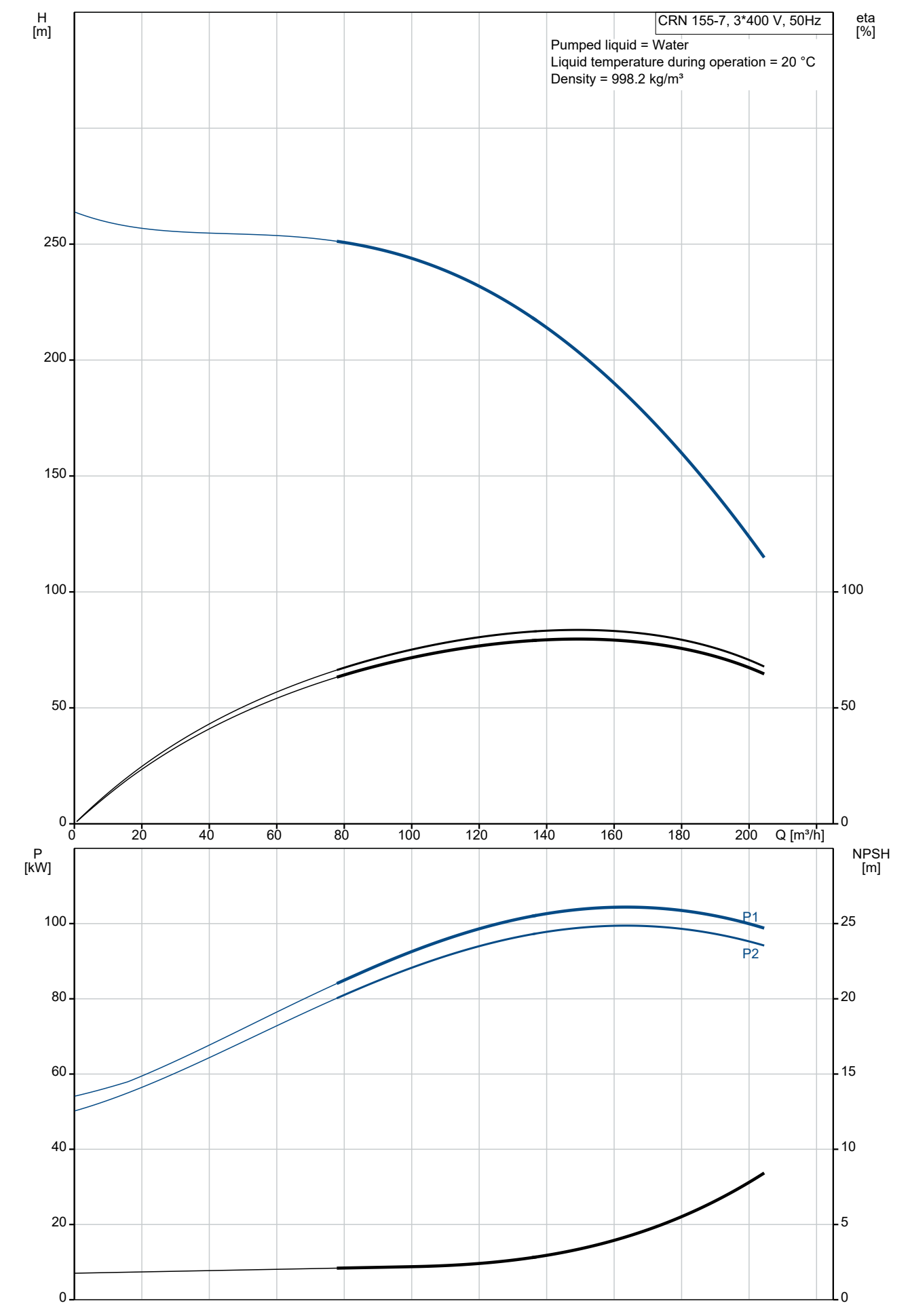
Datasheet



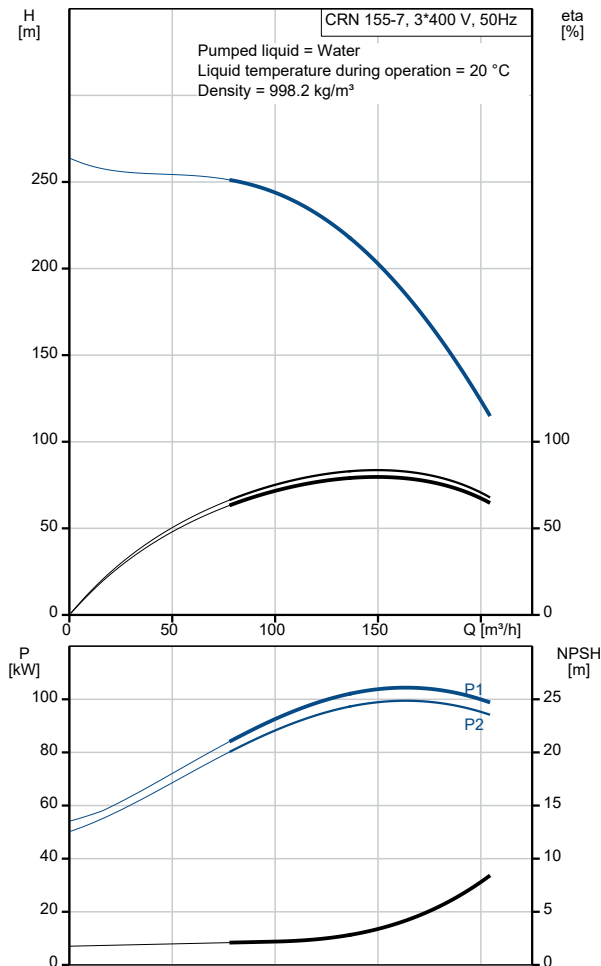
Qty.	Description
1	CRN 155-7 A-F-A-E-HQQE  Note! Product picture may differ from actual product Product No.: 99143280 Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in high-grade stainless steel. A built-in thrust-handling device absorbs hydraulic axial forces which enables the use of a standard motor. The Grundfos cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Wear parts in the shaft seal are available as service kits and can be replaced without having to renew the complete shaft seal. Power transmission is via a rigid split coupling. Pipe connection is via DIN flanges. The pump is fitted with a 3-phase, fan-cooled asynchronous motor. Liquid: Pumped liquid: Water Liquid temperature range: -40 .. 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Technical: Pump speed on which pump data are based: 2984 rpm Rated flow: 155 m³/h Rated head: 196.2 m Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQE Approvals: CE,EAC,UKCA,ACS,WRAS Curve tolerance: ISO9906:2012 3B Materials: Base: Stainless steel EN 1.4408 Impeller: Stainless steel EN 1.4401 Bearing: WC/WC Support bearing: Graflon Thrust handling device: SiC/WC Material certified according to: European standards Installation: Maximum ambient temperature: 55 °C Maximum operating pressure: 40 bar Max pressure at stated temp: 25 bar / 120 °C 40 bar / 80 °C Type of connection: DIN Size of inlet connection: DN 150 Size of outlet connection: DN 150 Pressure rating for connection: PN 25/40 Flange size for motor: FF600

Qty.	Description
	Electrical data: Motor standard: IEC Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 110 kW Power (P2) required by pump: 110 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y V Rated current: 191-176/110-102 A Starting current: 710-710 % Cos phi - power factor: 0.91 Rated speed: 2982 rpm Efficiency: IE3 95,2% Motor efficiency at full load: 95.2-95.2 % Motor efficiency at 3/4 load: 95.4-95.4 % Motor efficiency at 1/2 load: 94.9-94.9 % Number of poles: 2 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 83U15244 Controls: Frequency converter: NONE Others: Net weight: 1060 kg Gross weight: 1280 kg Shipping volume: 3.91 m³ Finnish LVI No.: 4925648 Thrust handling device: Y Country of origin: DK Custom tariff no.: 84137075

99143280 CRN 155-7 A-F-A-E-HQQE 50 Hz

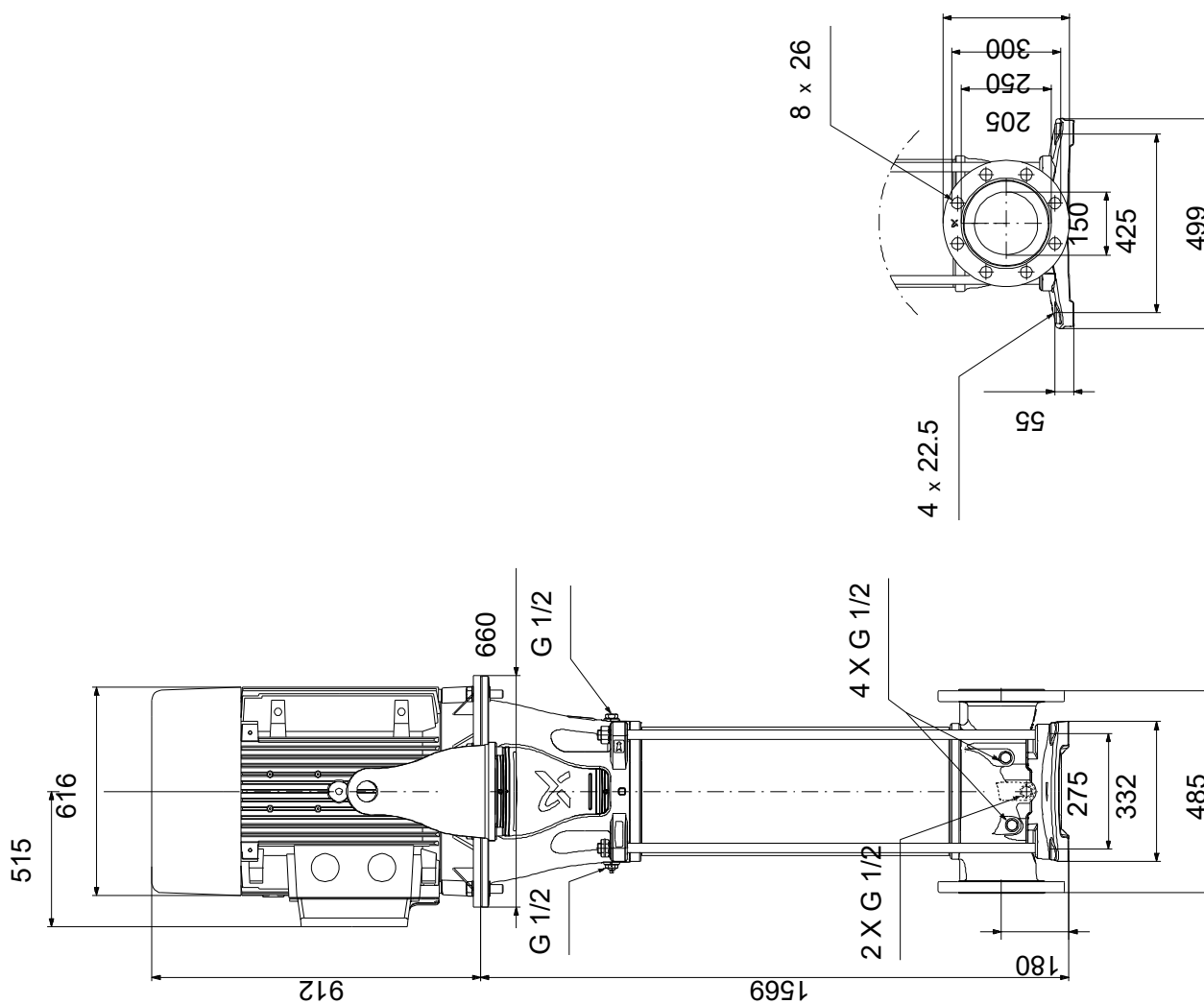


Description	Value		
General information:			
Product name:	CRN 155-7 A-F-A-E-HQQE		
Product No:	99143280		
EAN number:	5712607553241		
Technical:			
Pump speed on which pump data are based:	2984 rpm		
Rated flow:	155 m³/h		
Rated head:	196.2 m		
Maximum head:	263.7 m		
Stages:	7		
Impellers:	7		
Low NPSH:	N		
Pump orientation:	Vertical		
Shaft seal arrangement:	Single		
Code for shaft seal:	HQQE		
Approvals:	CE,EAC,UKCA,ACS,WRAS		
Curve tolerance:	ISO9906:2012 3B		
Pump version:	A		
Model:	A		
Cooling:	IC 411		
Materials:			
Base:	Stainless steel		
Base:	EN 1.4408		
Impeller:	Stainless steel		
Impeller:	EN 1.4401		
Material code:	A		
Code for rubber:	E		
Bearing:	WC/WC		
Support bearing:	Graflon		
Thrust handling device:	SiC/WC		
Material certified according to:	European standards		
Installation:			
Maximum ambient temperature:	55 °C		
Maximum operating pressure:	40 bar		
Max pressure at stated temp:	25 bar / 120 °C		
Max pressure at stated temp:	40 bar / 80 °C		
Type of connection:	DIN		
Size of inlet connection:	DN 150		
Size of outlet connection:	DN 150		
Pressure rating for connection:	PN 25/40		
Flange size for motor:	FF600		
Connect code:	F		
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	-40 .. 120 °C		
Selected liquid temperature:	20 °C		
Density:	998.2 kg/m³		
Electrical data:			
Motor standard:	IEC		
Motor type:	SIEMENS		
IE Efficiency class:	IE3		
Rated power - P2:	110 kW		
Power (P2) required by pump:	110 kW		
Mains frequency:	50 Hz		
Rated voltage:	3 x 380-420D/660-725Y V		
Rated current:	191-176/110-102 A		
Starting current:	710-710 %		
Cos phi - power factor:	0.91		
Rated speed:	2982 rpm		
Efficiency:	IE3 95,2%		
Motor efficiency at full load:	95.2-95.2 %		



Description	Value
Motor efficiency at 3/4 load:	95.4-95.4 %
Motor efficiency at 1/2 load:	94.9-94.9 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	83U15244
Controls:	
Frequency converter:	NONE
Others:	
Net weight:	1060 kg
Gross weight:	1280 kg
Shipping volume:	3.91 m ³
Finnish LVI No.:	4925648
Thrust handling device:	Y
Country of origin:	DK
Custom tariff no.:	84137075

99143280 CRN 155-7 A-F-A-E-HQQE 50 Hz



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

Spare parts CRN 155-7, Product No. 99143280
Produced After 1840 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, bearing			99415826	1	pcs
47g	Lock ring				2	
47a	Bearing				2	
48	Nut				2	
-	Kit, coupling			99190041	1	pcs
-	Coupling cpl.				1	
10a	Coupling				2	
9	Hex socket head cap screw	Designation: DIN 912			4	
		Length (mm): 45				
		Thread: M16				
10	Parallel pin				1	
-	Kit, coupling guard			99196382	2	pcs
7b	Lock washer				2	
7a	Screw				2	
7	Coupling guard				1	
-	Kit, flange			99432760	1	pcs
440b	Retaining ring				1	
440a	Flange				1	
-	Kit, impeller,bearing			99432561	2	pcs
48	Nut				1	
49b	Split cone				1	
49	Impeller				1	
-	Kit, impeller,bush			99124961	5	pcs
48	Nut				1	
49b	Split cone				1	
49	Impeller				1	
-	Kit, O-rings			99262386	1	pcs
37	O-ring				2	
38	O-ring				8	
109	O-ring				1	
110	O-ring				1	
-	Kit, O-rings			99262401	1	pcs
-	O-ring set				1	
120j	O-ring				3	
120i	O-ring				1	
120c	O-ring				1	
-	Kit, plug			99262370	1	pcs
-	Plug cpl.				7	
25	Plug				1	
38	O-ring				1	
-	Air vent screw				1	
- 18	Air vent screw				1	
	Spindle					
	Plug					
38	O-ring				1	
-	Kit, shaft seal HQQE			99262350	1	pcs
	Grinding device				1	
105	Shaft seal				1	
-	Kit, shaft seal wear parts			99262358	1	pcs
	Adjusting fork				1	
	Grinding device				1	
102	O-ring				1	
103	Seal ring, stationary				1	
104	Seal ring, rotating				1	
107	O-ring				1	
109	O-ring				1	
110	O-ring				1	
113	Socket set screw				3	
-	Kit, staybolts			99190111	4	pcs

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
26	Staybolt				1	
36	Nut				1	
66a	Washer				1	
-	Kit, strap			99190064	4	pcs
26c	Washer	Designation: DIN 125A			1	
		Thickness: 1,6				
26b	Hex head screw				1	
26a	Strap				1	
-	Kit, thrust handling			99445738	1	pcs
-	Thrust handling set				1	
	Pin				3	
120h	Lifting plate				1	
120g	Ring				1	
120f	Nut				1	
120e	Wedge lock washer				1	
120d	Ring				1	
120b	Ring				1	
120a	Thrust disc				1	
26c	Washer				4	
26b	Hex socket head cap screw				4	
-	Kit, wear parts			99262428	1	pcs
	Adjusting fork				1	
45	Neck ring				8	
47d	Lock washer				6	
47c	Bush				6	
65	Neck ring retainer				8	
	Half key			99956338	1	pcs
-	Motor				1	pcs
156	Kit, fan			98339870	1	
151	Kit, fan cover			98768548	1	
	Kit, lubrication nipple			98360053	1	
176	Kit, terminal board			98359966	1	
164a	Kit, terminal box			98360006	1	
2	Cover			99196498	1	pcs
+ 3	Chamber			99262605	1	pcs
+ 3	Chamber			99262663	1	pcs
+ 3	Chamber			99196655	1	pcs
+ 4a	Chamber			99446242	2	pcs
+ 4a	Chamber			99446263	2	pcs
+ 4a	Chamber			99415891	2	pcs
+ 4	Chamber			99262601	4	pcs
+ 4	Chamber			99262659	4	pcs
+ 4	Chamber			99196651	4	pcs
6	Base			99196476	1	pcs
26c	Washer	Designation: DIN 125A		99262704	4	pcs
		Thickness: 1,6				
26c	Washer			99262705	4	pcs
26c	Washer			99262706	4	pcs
26c	Washer	Designation: DIN 125A		99886930	4	pcs
		Thickness: 1,6				
26b	Hex socket head cap screw			99262702	4	pcs
26b	Hex socket head cap screw			99262703	4	pcs
28	Hex nut	Thread: M16		97511792	8	pcs
36	Nut			99262694	4	pcs
37	O-ring			99865786	2	pcs
+ 44	Suction part			99196616	1	pcs
44a	Discharge part			99196622	1	pcs
48	Nut			99446217	2	pcs
48	Nut			99262681	5	pcs
48	Nut			99446219	2	pcs
48	Nut			99262684	5	pcs
49	Impeller			99262533	7	pcs
49	Impeller			99262557	7	pcs
49b	Split cone			99262687	7	pcs

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
49b	Split cone			99262690	7	pcs
55	Sleeve			99196451	1	pcs
56	Base plate			99196490	1	pcs
66a	Washer			99262697	4	pcs
66a	Washer			99262696	16	pcs
120k	Flange			99262451	1	pcs