

**Qty. Description**

1 **HYDRO MULTI-E 2 CRE 20-4**



Note! Product picture may differ from actual product

Product No.: [99614476](#)

GRUNDFOS Hydro Multi-E booster sets are designed for the transfer and pressure boosting of clean water in waterworks, blocks of flats, hotels, industry, hospitals, schools, etc.

GRUNDFOS Hydro Multi-E booster sets consists of 2 to 3 CR(N)E pumps coupled in parallel and mounted on a common base frame provided with all the necessary fittings.

Hydro Multi-E is mounted on a common base frame made in black painted mild steel.

On the suction side are fitted a suction manifold ( AISI 316 or EN 1.4571) and two pressure transmitters which are mounted on an isolating valve.

On the discharge side of the pumps are fitted a non-return valve, an isolating valve, a pressure gauge, two pressure transmitters mounted on an isolating valve, a diaphragm tank and a stainless steel discharge manifold (AISI 316 or EN 1.4571).

The Hydro Multi-E is fitted with an on/off-switch for the supply voltage.

The Hydro Multi-E is designed for maintaining a constant pressure regardless of flow changes and fluctuation.

The internal PI-controller regulates the number of running pumps and the speed of the pumps according to the required flow.

The system can be operated directly on the graphical display of any of the pumps or via Grundfos GO (available as accessory)

Besides the system features:

2 Relay outputs

2 Digital inputs (one used for external start/stop)

2 Digital configurable input/output (one used for external start/stop)

3 analogue inputs (one used for discharge pressure and one used for inlet pressure)

Multi-Master functionality

2 Limit exceed functions (one used for dry running protection)

Set-point influence

Pipe filling function

Proportional pressure and High Efficient PM motors

Available communication protocols:

LON

PROFIBUS DP

PROFIBUS IO

BACnet MS/TP

BACnet IP

Modbus RTU

Modbus TCP

Ethernet IP

Cellular 3G/4G

GiC/GRM

When delivered, the GRUNDFOS Hydro Multi-E booster set is factory tested and ready for operation.

**Company name:** Parkway Process Solutions  
**Created by:** Parkway Process Solutions  
**Phone:** +61 (0) 390 693 200  
**Email:** solutions@pwnps.com  
**Date:** 11/23/2021

**Qty. Description**

Liquid:  
 Pumped liquid: Water  
 Liquid temperature range: 5 .. 60 °C  
 Selected liquid temperature: 20 °C  
 Density: 998.2 kg/m<sup>3</sup>

Materials:  
 Pump housing: Cast iron

Installation:  
 Maximum operating pressure: 10 bar  
 Maximum permissible inlet pressure: PN 16 bar  
 Flange standard: DIN2642  
 Manifold inlet: DN 80  
 Manifold outlet: DN 80

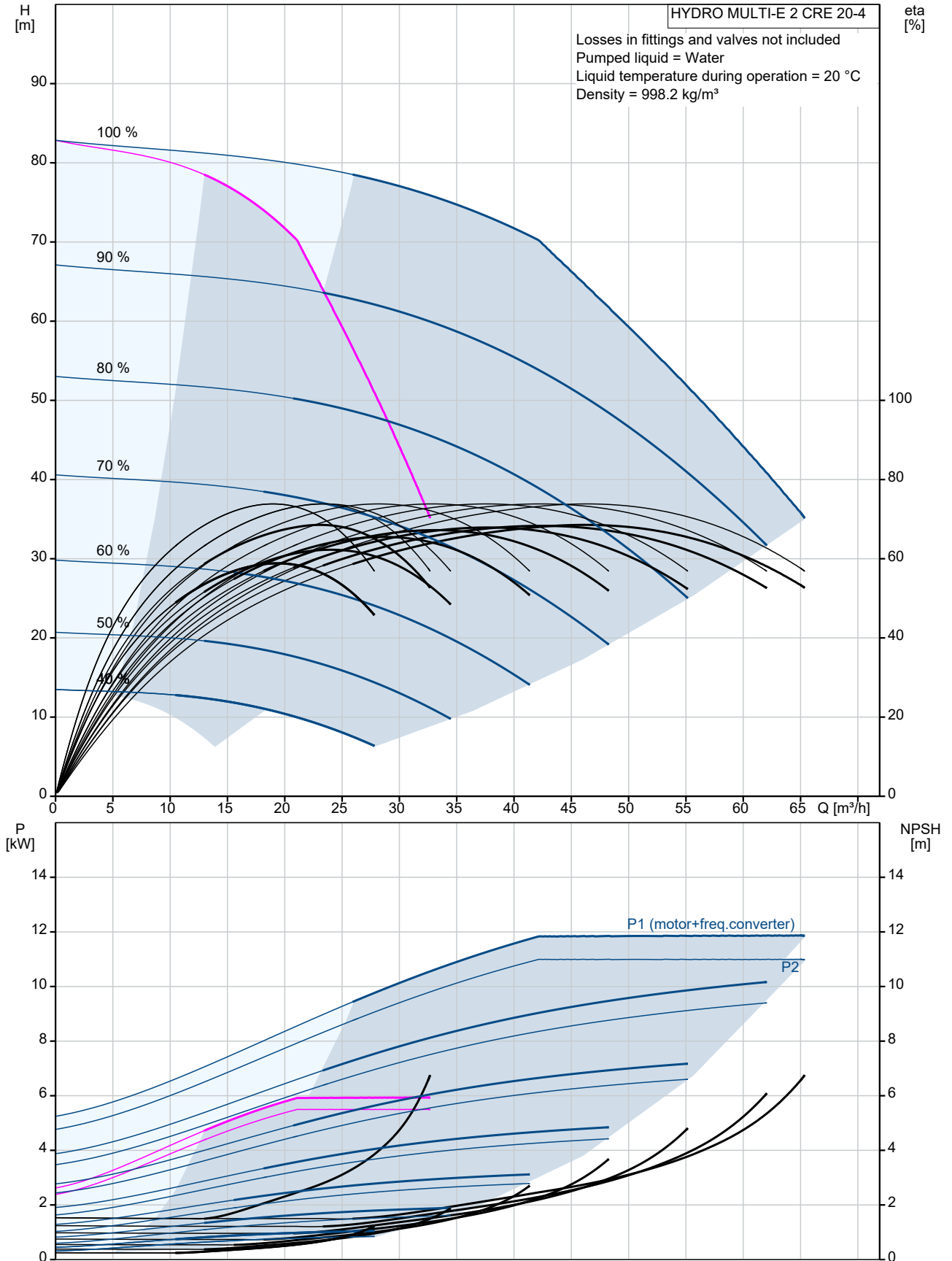
Electrical data:  
 IE Efficiency class: IE5  
 Power (P2) main pump: 5.5 kW  
 Mains frequency: 50 / 60 Hz  
 Rated voltage: 3 x 380-415 V  
 Rated current: 21.9 A  
 Start. method: electronically  
 Enclosure class (IEC 34-5): IP55

Tank:  
 Volume of pressure tank: 24 l  
 Diaphragm tank: Yes

Others:  
 Net weight: 242 kg  
 Gross weight: 271 kg  
 Shipping volume: 1.01 m<sup>3</sup>  
 Language: Multi  
 Country of origin: SG  
 Custom tariff no.: 8413709062

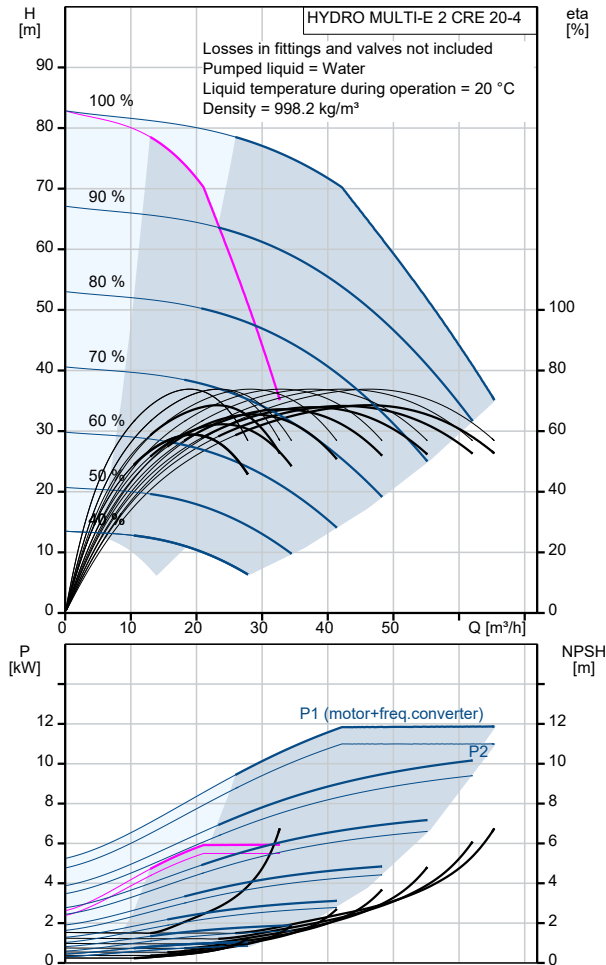
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## 99614476 HYDRO MULTI-E 2 CRE 20-4



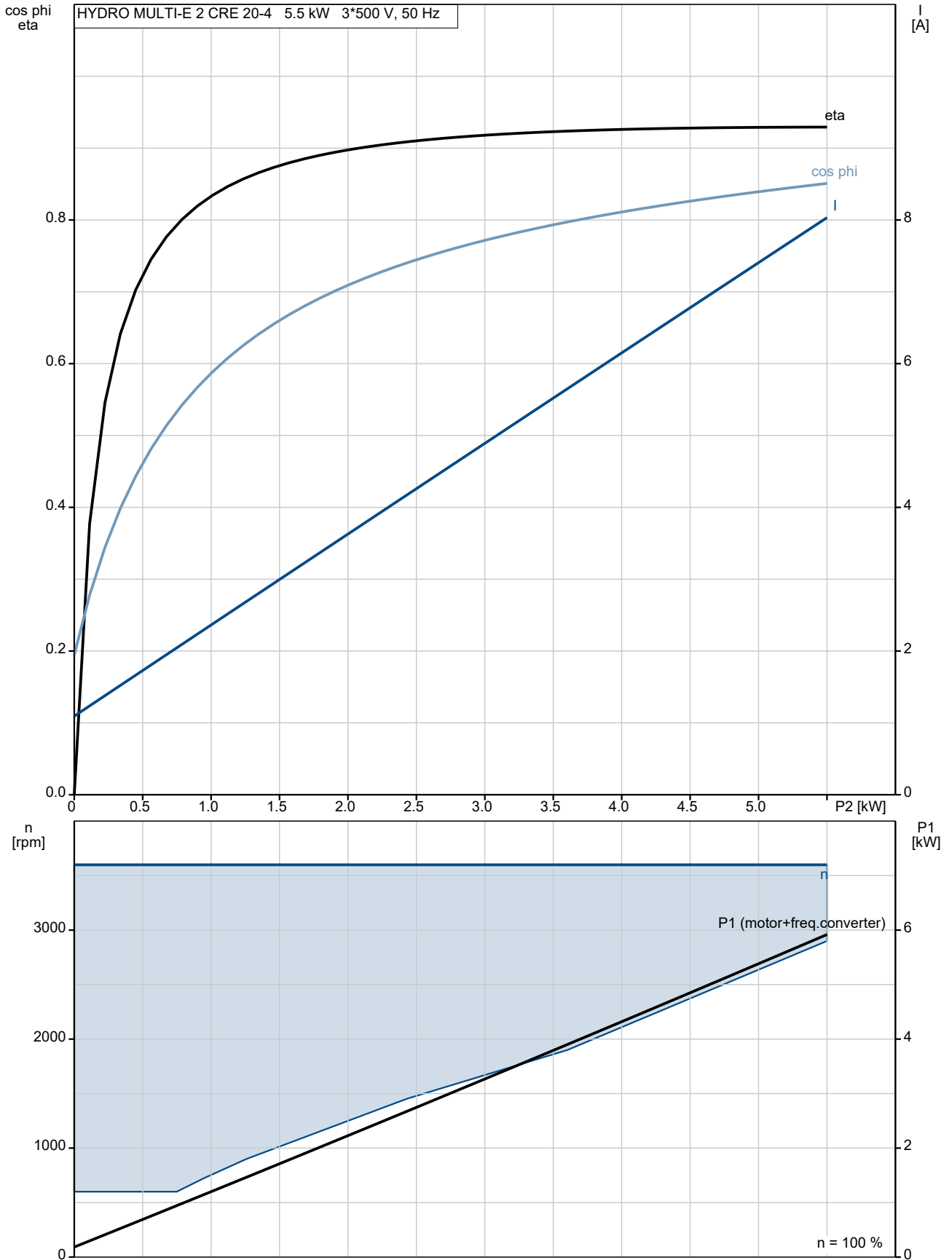
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**Date:** 11/23/2021

Description	Value
<b>General information:</b>	
Product name:	HYDRO MULTI-E 2 CRE 20-4
Product No:	99614476
EAN number:	5713831937975
Price:	
<b>Technical:</b>	
Max flow:	70 m <sup>3</sup> /h
Max flow:	70 m <sup>3</sup> /h
Min flow system:	12.5 m <sup>3</sup> /h
Head max:	85 m
Pump name:	CRE 20-4
Number of pumps:	2
<b>Materials:</b>	
Pump housing:	Cast iron
Manifolds:	Stainless steel
<b>Installation:</b>	
Maximum operating pressure:	10 bar
Maximum permissible inlet pressure:	PN 16 bar
<b>Flange standard:</b>	
Manifold inlet:	DIN2642
Manifold outlet:	DN 80
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	5 .. 60 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m <sup>3</sup>
<b>Electrical data:</b>	
IE Efficiency class:	IE5
Power (P2) main pump:	5.5 kW
Mains frequency:	50 / 60 Hz
Rated voltage:	3 x 380-415 V
Rated current:	21.9 A
Start. method:	electronically
Enclosure class (IEC 34-5):	IP55
<b>Tank:</b>	
Volume of pressure tank:	24 l
Diaphragm tank:	Yes
<b>Others:</b>	
Net weight:	242 kg
Gross weight:	271 kg
Shipping volume:	1.01 m <sup>3</sup>
Language:	Multi
Sales region:	Asia
Product range:	I
Country of origin:	SG
Custom tariff no.:	8413709062



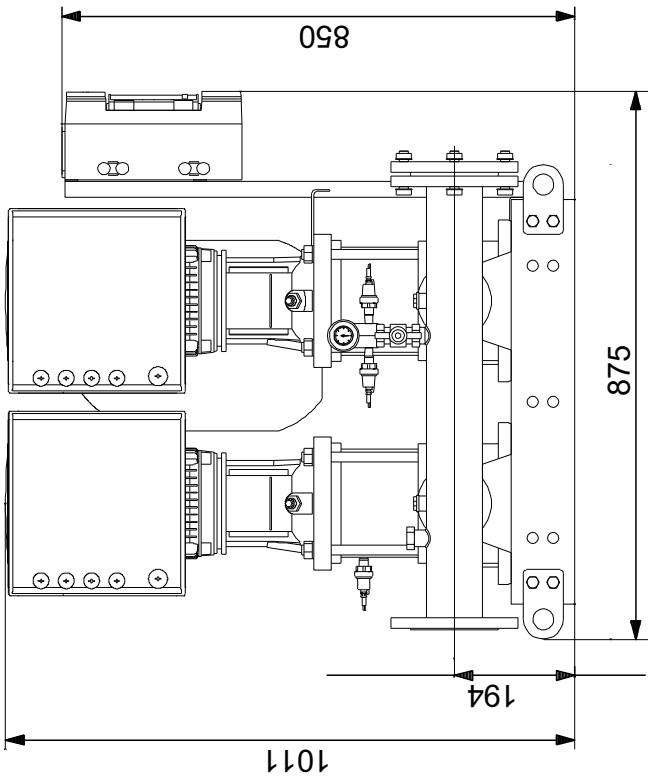
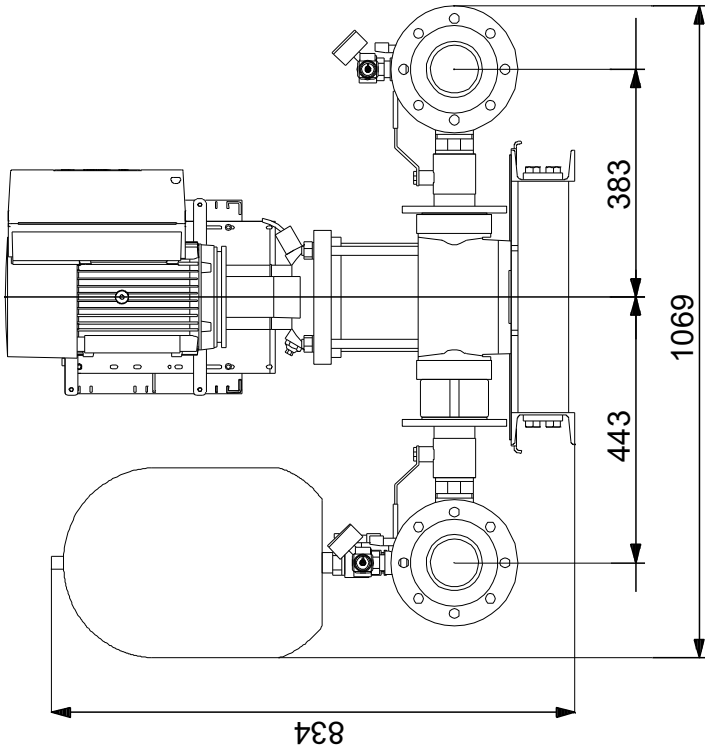
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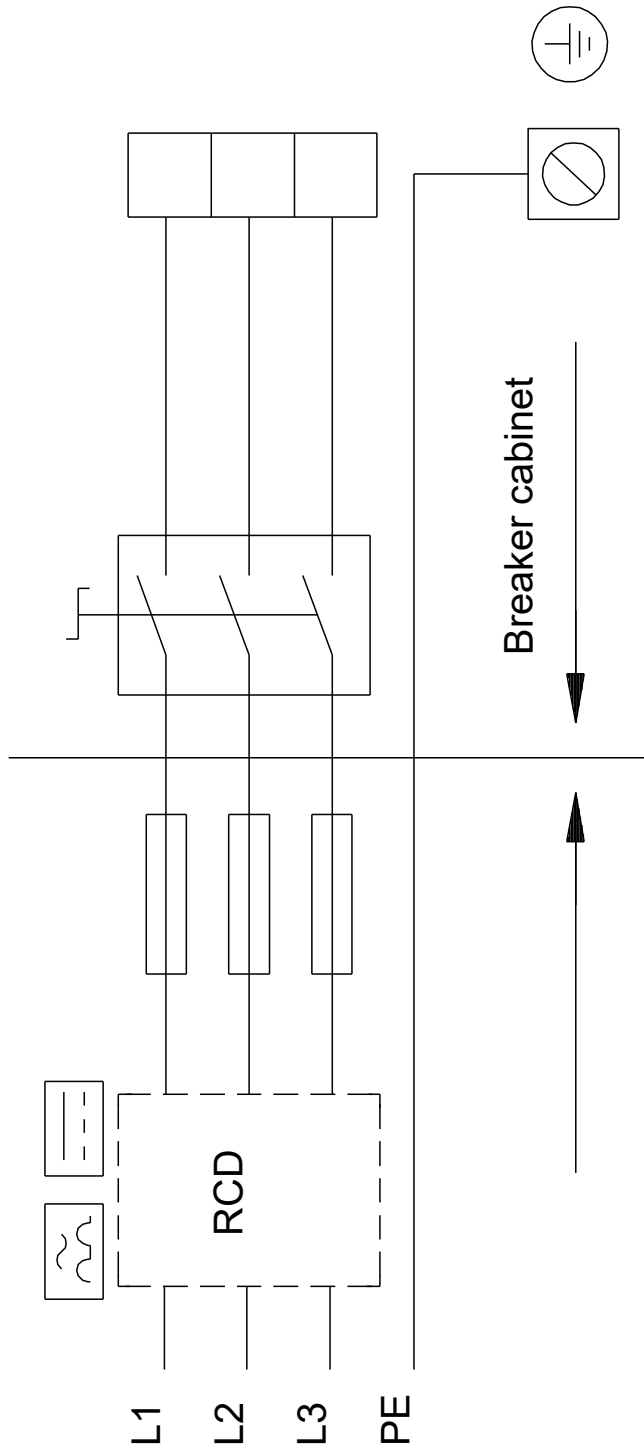
## 99614476 HYDRO MULTI-E 2 CRE 20-4



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

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## 99614476 HYDRO MULTI-E 2 CRE 20-4



Note! All units are in [mm] unless others are stated.

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**Order Data:**

Product name: HYDRO MULTI-E 2 CRE 20-4  
Amount: 1  
Product No: 99614476  
Price:

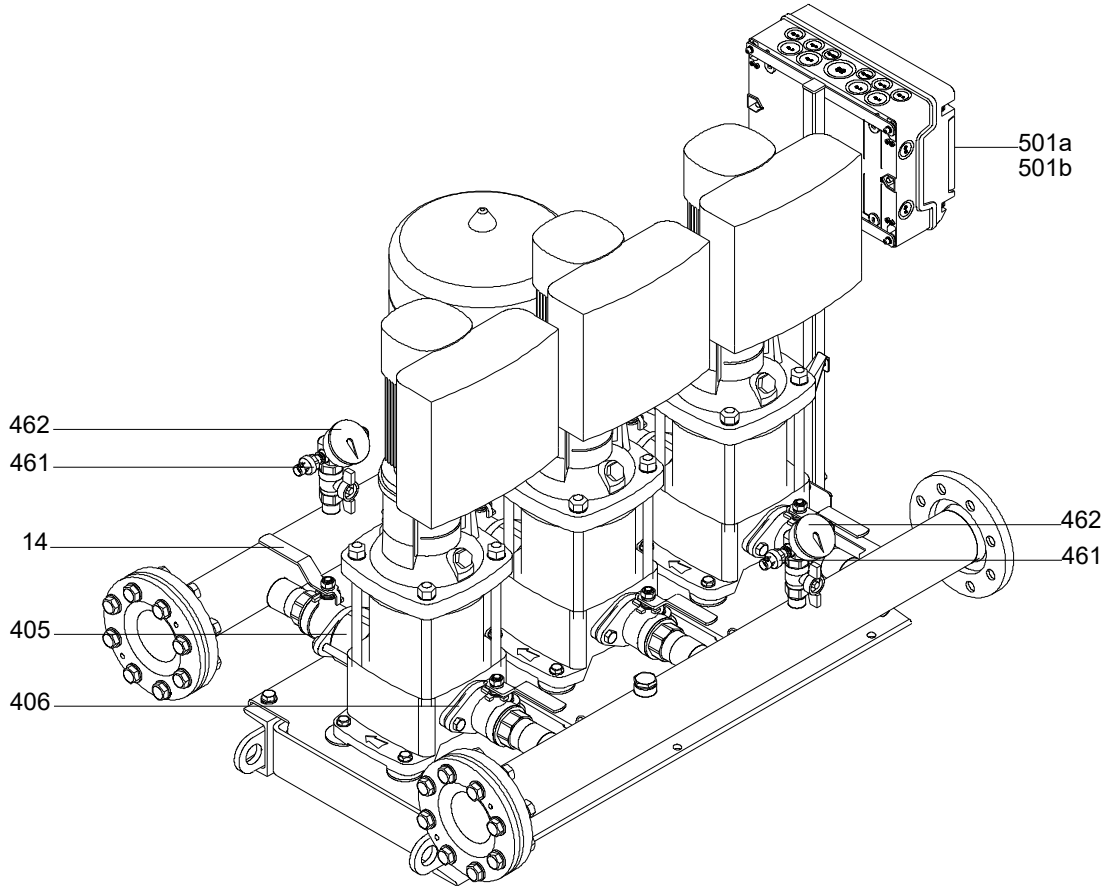
Total: Price on request

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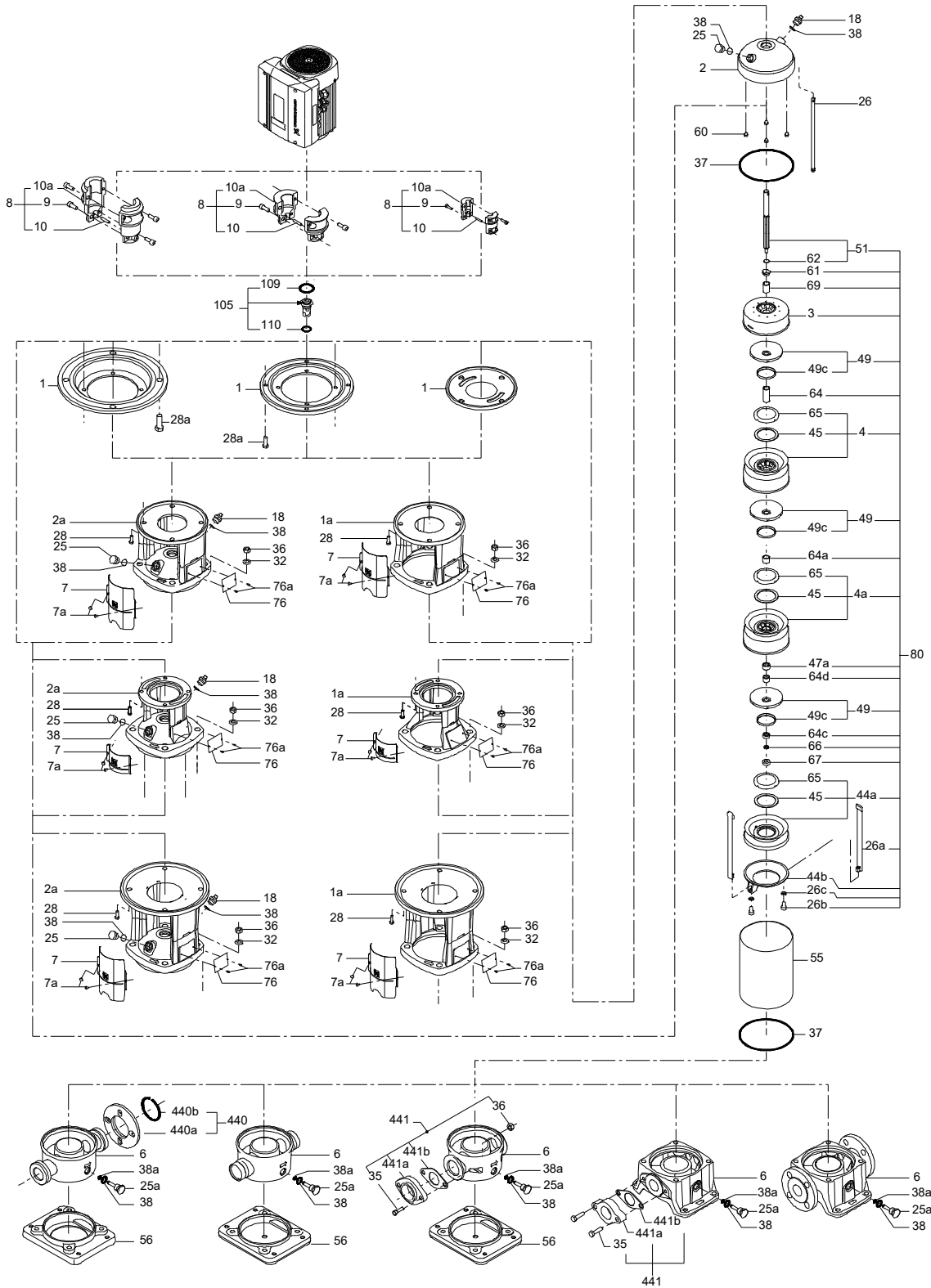
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( TM076325 for project Multi-E Asia Pacific)



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( tm069469 for MECR15,20 standard)



**Company name:** Parkway Process Solutions  
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**Spare parts HYDRO MULTI-E 2 CRE 20-4, Product No. 99614476**  
**Produced After 1948 (production year and week number)**

Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
-	Kit, Manometer 0-10 bar			97896856	2	pcs
462	Pressure gauge				1	
-	Kit, Non-return valve			96637445	1	pcs
405	Non-return valve				1	
-	Spare, Cabinet			99876844	1	pcs
501a	Cabinet				1	
-	Spare, Fusebox			99876829	1	pcs
501b	Fusebox				1	
-	Spare, Gasket			99876895	4	pcs
406	Gasket		Internal diameter: 61 Outer diameter: 107 Thickness: 2		1	
-	Spare, PressureTr. 0-10 bar			99257835	1	pcs
461	Pressure transducer				1	
-	Spare, PressureTr. 0-6 bar			99257833	1	pcs
461	Pressure transducer				1	
-	Spare, Valve with flange			99876847	2	pcs
14	Valve cpl.				1	
-	Pump				2	pcs
-	Kit, Chamber stack			96508544	1	
- 80	Chamber stack					
- 3	Top intermediate chamber					
	Intermediate chamber					
	Front plate					
	Guide vane					
- 4a	Intermediate chamber cpl.					
	Bearing plate					
3	Intermediate chamber					
45	Neck ring cpl.					
47	Bearing bush					
65	Retainer for upper seal ring					
- 4	Intermediate chamber cpl.					
45	Neck ring cpl.					
65	Retainer for upper seal ring					
26a	Strap cpl.					
26.c	Washer		Designation: DIN 125A Thickness: 1,6			
26.b	Hex head screw					
44b	Inlet part					
- 44a	Inlet part cpl.					
	Sand Lifter					
	Guide cup					
	Inlet part					
45	Neck ring cpl.					
65	Retainer for upper seal ring					
47a	Bearing ring					
- 49	Impeller cpl.					
	Impeller blade					
	Impeller plate					
	Impeller plate					
49c	Wear ring					
- 51	Shaft, spline, cpl.					
	Bar					

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Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
62	Stop ring					
64d	Spacing bush					
64c	Spacer					
64b	Spacing bush		Length (mm): 5.00			
64a	Spacing pipe		Internal diameter: 17,5			
			Length (mm): 17			
64	Spacing pipe		Length (mm): 43.6			
66	Wedge lock washer					
67	Lock nut		Thread: M8			
69	Spacing bush					
-	Kit, Coupling			96511351	1	
	Adjusting fork					
-	8 Coupling					
9	Hex socket head cap screw		Designation: DIN 912			
			Length (mm): 25			
			Thread: M10			
10a	Coupling half					
10	Shaft pin		Diameter: 5			
			Length (mm): 26			
-	Kit, Coupling guard			96509613	1	
7.a	Combi Slot Torx screw					
7	Coupling guard					
-	Kit, Gaskets			96509609	1	
	Gasket					
24	O-ring					
37	O-ring					
38	O-ring					
38	O-ring					
38	O-ring					
60	Spring					
415	Gasket		Internal diameter: 44			
			Outer diameter: 60			
			Thickness: 2			
441b	Gasket		Internal diameter: 49			
			Outer diameter: 92			
			Thickness: 2			
-	Kit, Plug			96511311	1	
-	18 Air vent screw					
	Spindle					
	Plug					
25a	Drain plug					
25	Plug					
38	O-ring					
38	O-ring					
38	O-ring					
38	O-ring		Diameter: 5,3			
			Material type: FKM			
			Thickness: 2,4			
38	O-ring		Diameter: 16,3			
			Material type: FKM			
			Thickness: 2,4			
38	O-ring		Diameter: 16,3			
			Material type: FKM			
			Thickness: 2,4			
-	Kit, Shaft seal HQQE			96511844	1	
105	Shaft seal		Material type: HQQE			
-	Kit, Wear parts			96511824	1	
-	4a Intermediate chamber cpl.					

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Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
	Sand Lifter					
	Guide cup					
	Bearing plate					
	Guide vane					
3	Intermediate chamber					
45	Neck ring cpl.					
47	Bearing bush					
65	Retainer					
26.c	Washer		Designation: DIN 125A Thickness: 1,6			
26.b	Hex head screw					
45	Neck ring cpl.					
47a	Bearing ring					
49c	Wear ring					
62	Retaining ring					
64d	Spacing bush					
64c	Spacer					
64b	Spacing bush		Length (mm): 5.00			
64a	Spacing pipe		Internal diameter: 17,5 Length (mm): 17			
65	Retainer					
66	Wedge lock washer					
67	Lock nut		Thread: M8			
-	Motor				1	
-	Kit, Blanking plug			99052475		
252b	Plug cpl.					
252b	Blanking plug					
-	Kit, Cable gland			98736096		
293	Cable glands set					
-	Kit, Connector plugs			98403113		
266	Connector plug 10-pole					
266	Connector plug 2-pole					
266	Connector plug 8-pole					
266	Connector plug 8-pole					
266	Connector plug 8-pole					
266	Connector plug 3-pole					
266	Connector plug 3-pole					
266	Connector plug 3-pole					
-	Kit, Control box			98878619		
251d	Pan head thread forming screw					
251b	Control box					
251a	Control box cpl.					
252b	Plug cpl.					
252b	Blanking plug					
266	Connector plug 10-pole					
266	Connector plug 8-pole					
266	Connector plug 8-pole					
266	Connector plug 8-pole					
266	Connector plug 3-pole					
266	Connector plug 3-pole					
266	Connector plug 3-pole					
268a	Base					
268	Pan head screw					
273b	Battery					
273a	Cross recess Pan head screw					
273	Funct. Module cpl.					
275a	Pin					
277b	Spring					

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Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
277a	Cross recess Pan head screw					
277	Cover					
286	Spacer					
287	Cover					
288b	Retaining ring					
288a	Pan head thread forming screw					
288	Wire clamp					
289a	Pan head thread forming screw					
289	Wire clamp					
290	Control panel, cpl.					
301	Jumper					
-	Kit, Control box upper			98869867		
251d	Pan head thread forming screw					
251b	Control box					
-	Kit, Control panel			98939971		
290	Control panel, cpl.					
-	Kit, Cover			98330622		
287	Cover					
-	Kit, End shield (NDE)			98869883		
156c	Seal ring					
156a	End shield NDE					
157	O-ring		Diameter: 62			
			Material type: NBR			
			Thickness: 3			
158	Waved washer					
206	Pan head thread forming screw					
-	Kit, Fan			98869877		
152	Pan head thread forming screw					
156c	Seal ring					
156	Fan					
-	Kit, Fan cover			99957566		
151	Fan cover					
152	Pan head thread forming screw					
-	Kit, Flange (DE)			98869892		
	Glue					
156c	Seal ring					
156b	Flange					
201c	Drain plug					
-	Kit, Funct. module			98334777		
273a	Cross recess Pan head screw					
273	Funct. Module cpl.					
275a	Pin					
286	Spacer					
-	Kit, Isolation cover			98859508		
277b	Spring					
277a	Cross recess Pan head screw					
277	Cover					
-	Kit, Lower part cpl.			98859571		
178	Pan head thread forming screw					
251a	Control box cpl.					
275a	Pin					
277a	Cross recess Pan head screw					
277	Cover					
-	Kit, Motor			99010774		
	Terminal					
111	Ball bearing		Designation: 6206.2Z.C3.SYN			
150	Stator w/housing					
151	Fan cover					

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Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
152	Pan head thread forming screw					
152	Pan head thread forming screw					
153	Angular-contact bearing					
156d	Seal ring					
156c	Seal ring					
156b	Flange					
156	Fan					
157	O-ring		Diameter: 62			
			Material type: NBR			
			Thickness: 3			
158	Waved washer					
172	Shaft w/rotor					
181	Pan head staybolt					
190	Eyebolt					
201c	Drain plug					
203	Terminal plug					
205	Gasket					
-	Kit, Plug				99028676	
152	Pan head thread forming screw					
203	Terminal plug					
205	Gasket					
-	Kit, Screws				99028712	
268a	Base					
268	Pan head screw					
288b	Retaining ring					
288a	Pan head thread forming screw					
288	Wire clamp					
289a	Pan head thread forming screw					
289	Wire clamp					
-	Kit, Staybolts				98881543	
181	Pan head staybolt					
111	Ball bearing		Designation: 6206.2Z.C3.SYN	99078033		
111	Ball bearing		Designation: 6206.2Z.C3.SYN	97501070		
152	Pan head thread forming screw			99834207		
152	Pan head thread forming screw			99814578		
153	Angular-contact bearing			98412045		
153	Angular-contact bearing			98576644		
186	Drain plug			99980519		
251d	Pan head thread forming screw			98995460		
266	Connector plug 3-pole			99421265		
1	Flange			99104283	1	
2a	Pump head			98770239	1	
+ 3	Top intermediate chamber			96538971	1	
+ 3	Top intermediate chamber			98371105	1	
- 4a	Intermediate chamber cpl.			98371109	1	
3	Intermediate chamber			96535086		
+ 4a	Intermediate chamber cpl.			96538842	1	
+ 4a	Intermediate chamber cpl.			98371108	1	
- 4	Intermediate chamber cpl.			98371107	2	
65	Retainer for upper seal ring			97699527		
65	Retainer for upper seal ring			96587913		
+ 4	Intermediate chamber cpl.			96538817	2	
+ 4	Intermediate chamber cpl.			98371106	2	
6	Base			98681111	1	
7.a	Combi Slot Torx screw			96886324	4	
10	Shaft pin		Diameter: 5	96536473	1	
			Length (mm): 26			
10	Shaft pin		Diameter: 5	96587588	1	

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Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
			Length (mm): 26			
+ 18	Air vent screw			96547461	1	
+ 18	Air vent screw			95061351	1	
25	Plug			96536013	1	
25a	Drain plug			96535881	1	
26a	Strap cpl.			98926722	2	
26.c	Washer		Designation: DIN 125A	99262704	2	
			Thickness: 1,6			
26.c	Washer		Designation: DIN 125A	99886930	2	
			Thickness: 1,6			
26	Staybolt			98982842	4	
28	Hex head screw		Length (mm): 30	92673889	4	
			Thread: M12			
32	Washer		Designation: DIN 125 A	98923051	4	
			Internal diameter: 17			
			Outer diameter: 30			
			Thickness: 3			
36	Hex nut		Thread: M16	96620480	4	
37	O-ring			96538857	2	
38	O-ring			99198791	1	
38	O-ring			99198815	2	
38	O-ring			99412727	2	
44b	Inlet part			98814595	1	
+ 44a	Inlet part cpl.			98818924	1	
47a	Bearing ring			96538795	1	
- 49	Impeller cpl.			96538799	4	
49c	Wear ring			96547340		
+ 49	Impeller cpl.			98394458	4	
+ 51	Shaft, spline, cpl.			98368609	1	
55	Outer sleeve			98812623	1	
60	Spring			96538963	4	
64d	Spacing bush			96538947	1	
64c	Spacer			97980241	1	
64b	Spacing bush		Length (mm): 5.00	96535098	1	
64a	Spacing pipe		Internal diameter: 17,5	98417487	1	
			Length (mm): 17			
64	Spacing pipe		Length (mm): 43.6	96535107	2	
66	Wedge lock washer			96536157	1	
66	Wedge lock washer			92575609	1	
67	Lock nut		Thread: M8	98277008	1	
69	Spacing bush			96538949	1	
76a	Rivet			96620489	1	
105	Shaft seal		Material type: HQQE	96538914	1	