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Let's Solve Water

Parts List

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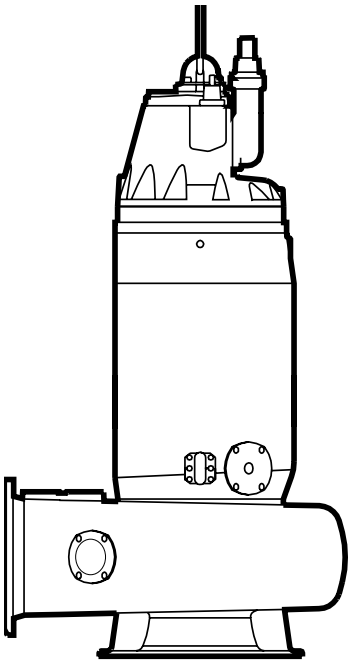

C3531

Hydraulic Unit

FLYGT
a xylem brand

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1 Introduction

Purpose of this manual

The purpose of this manual is to provide necessary information on spare parts and accessories order.

Disclaimer

Always use genuine Flygt parts. The use of other spare parts or accessories can invalidate any claims for warranty or compensation. Xylem does not take any responsibility for damages that are caused by the use of non-original parts. For more information, contact your local sales and service representative.

Data for ordering spare parts

The following information is needed for spare part orders:

- Serial number of the product
- Part number
- Quantity of bulk material, see * in tables

1.1 Specially approved products

Qualification of personnel

Only Xylem or Xylem-authorized service personnel may undertake repair work on specially approved products.

Dimensional accuracy inspection

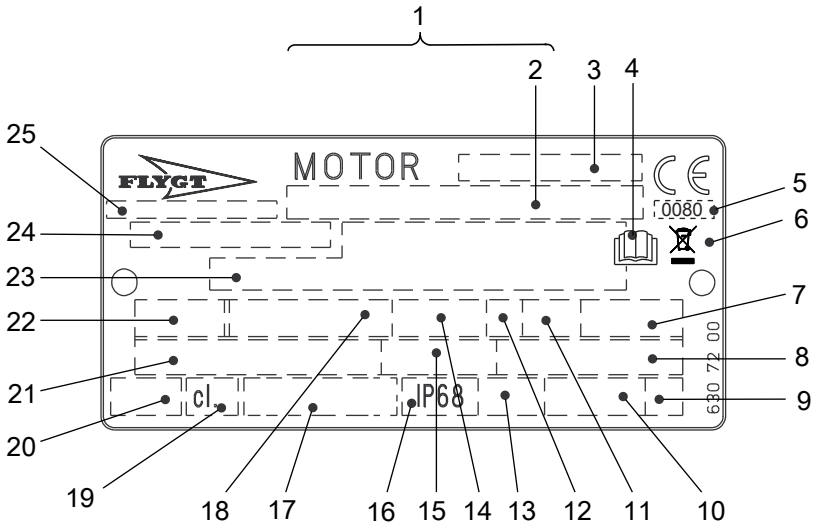
Spare parts marked with (Ex) after the part number are subject to dimensional accuracy inspection when used in specially approved products.

2 Product Description

2.1 The data plates

The data plates include key product specifications.

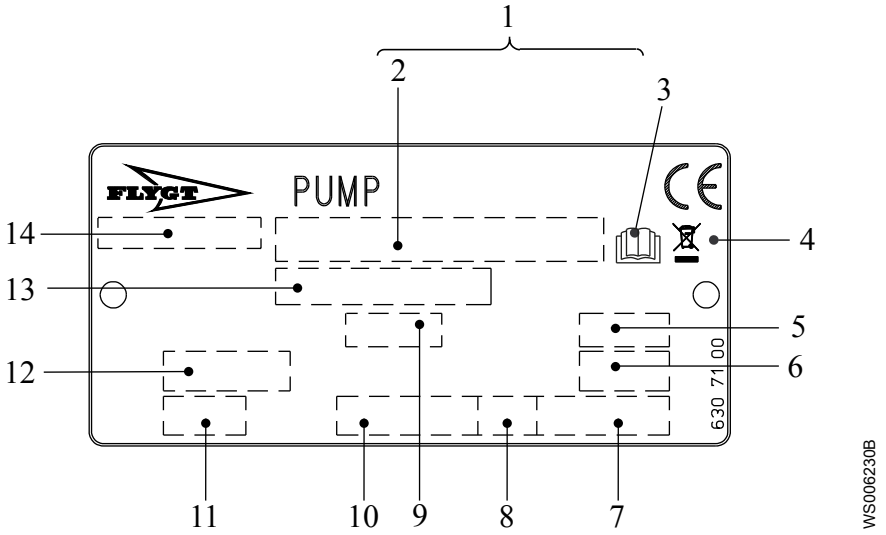
Drive unit



1. Serial number
2. Product code and number
3. Motor denomination
4. Read installation manual
5. Notified body, only for EN-approved Ex products
6. WEEE-Directive symbol
7. Maximum ambient temperature
8. Power factor
9. Locked rotor code letter
10. Product weight
11. Duty factor
12. Duty class
13. Maximum submergence
14. Rated speed
15. Rated current
16. Degree of protection
17. International standard
18. Rated shaft power
19. Thermal class
20. Thermal protection
21. Rated voltage
22. Phase; Type of current; Frequency
23. Additional information
24. Product number
25. Country of origin

Figure 1: The drive unit plate valid from 990101

Hydraulic unit



1. Serial number
2. Product code and number
3. Read installation manual
4. WEEE-Directive symbol
5. Impeller diameter
6. Propeller blade angle
7. Product weight
8. Direction of rotation: L=left, R=right
9. Impeller or Propeller code
10. Rated speed
11. Pressure class
12. Column diameter or Inlet and outlet diameter
13. Product number
14. Country of origin

Figure 2: The hydraulic unit plate

2.2 Approvals

For information about specially approved products, see the Parts List for the specific drive unit.

2.3 Product denomination

Reading instruction

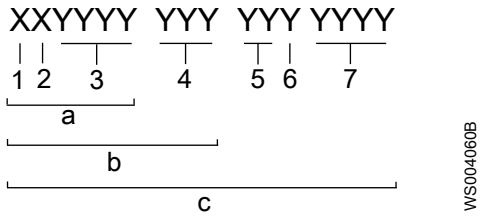
In this section, code characters are illustrated accordingly:

X = letter

Y = digit

The different types of codes are marked up with a, b, and c. Code parameters are marked up with numbers.

Codes and parameters

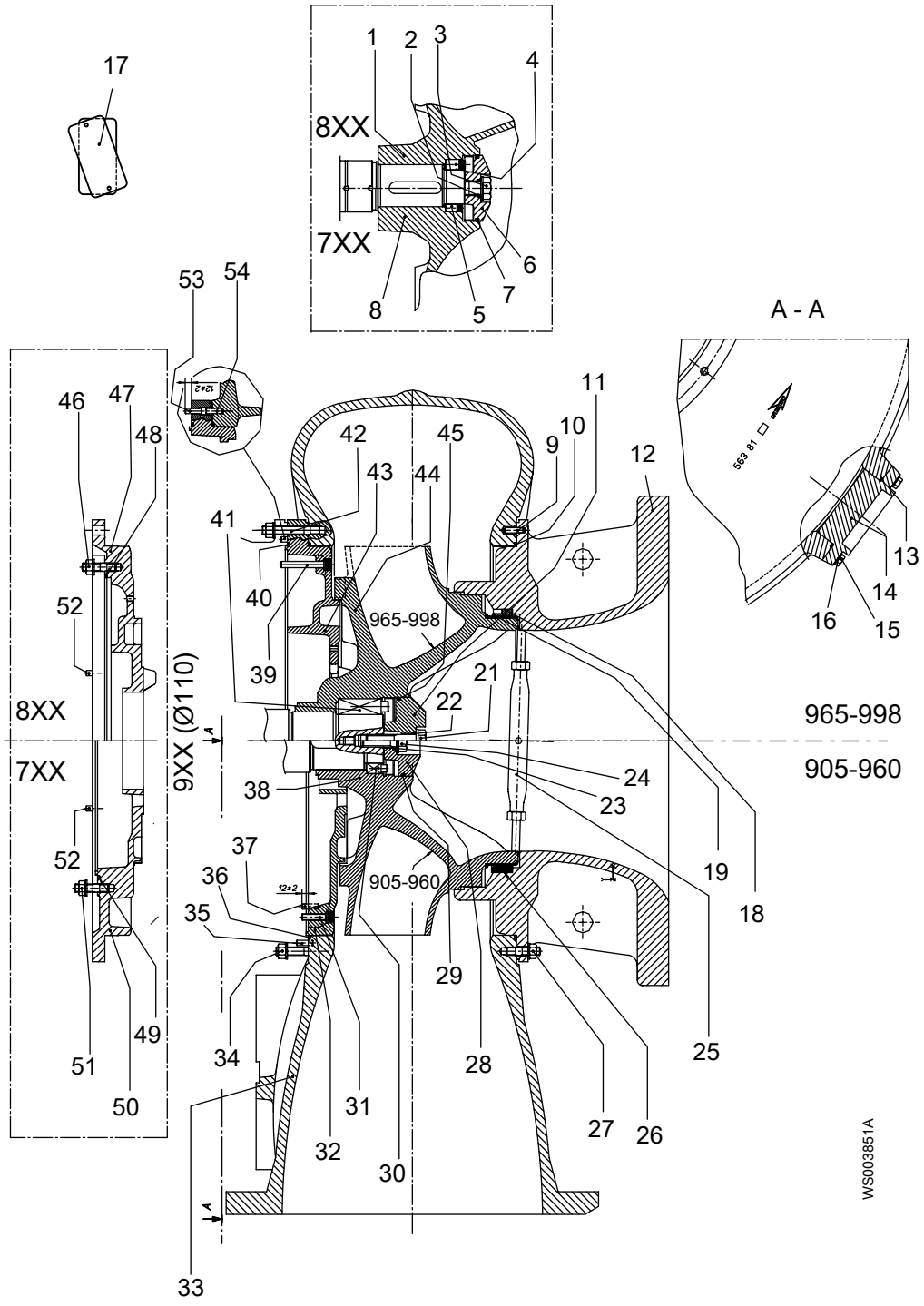


Type of Callout	Number	Indication
Type of code	a	Sales denomination
	b	Product code

Type of Callout	Number	Indication
	c	Serial number
Parameter	1	Hydraulic end
	2	Type of installation
	3	Sales code
	4	Drive unit
	5	Production year
	6	Production cycle
	7	Running number

3 Hydraulic Unit

3.1 C3531



7XX	700-series drive units
8XX	800-series drive units
9XX	900-series drive units
905-960	Drive units 905-960

965-998 Drive units 965-998

A-A Not for CP

Item	Denomination		Part No.	Qty.
1	Impeller unit For information about impeller diameter and variant, see *Impeller unit with wear ring, 345 25 18* on page 15.		699 72 XX 699 80 XX 700 50 XX	1
2	O-ring	109.1x5.7	82 77 14	1
3	Screw	M24x70	81 49 81	1
	Washer	ISO 7089 - 24x44	82 35 80	1
4	Locking assembly	Ø70xØ110 Drive unit 8X5 (24Nm→48Nm→70Nm)	84 59 14	1
	Bearing grease	Minimum delivery quantity 1 kg (2.2 lbs)	90 20 54	50 g
5	Locking assembly	Ø60xØ90 Drive unit 7X5 (12Nm→24Nm→35Nm)	84 59 13	1
	Bearing grease	Minimum delivery quantity 1 kg (2.2 lbs)	90 20 54	50 g
6	Sleeve	Cast iron	561 00 00	1
		Stainless steel	561 00 01	
7	O-ring	109.1x5.7	82 74 14	1
8	Impeller unit For information about impeller diameter and variant, see *Impeller unit with wear ring, 345 25 18* on page 15.		699 71 XX 699 79 XX 700 49 XX	1
9	Expanding pin	(FRP 10x32)	80 58 95	1
10	O-ring	725.0x5.7	82 78 99	1
11	Casing	Cast iron	660 64 02	1
		Stainless steel	660 64 03	
12	Suction cover For information about flange patterns, see *Flange patterns* on page 17.		560 97 00 560 97 01 560 97 05 560 97 07	1
	Suction cover For information about flange patterns, see *Flange patterns* on page 17.		560 97 10 560 97 11 560 97 15 560 97 17	
13	O-ring	134.3x5.7	82 74 19	1
14	Cover		592 99 00	1
15	Screw	M12x45	81 49 09	4
16	Washer	BRB 12	82 35 77	4
17	Data plate		630 71 01	1
	Screw	4x5	82 20 88	2
18	Wear ring	Stationary, brass	584 68 06	1
19	O-ring	399.3x5.7	82 75 08	1
21	Screw	M24x100	81 49 64	1
	Washer	ISO 7089 - 24x44	82 35 80	1
22	O-ring	24.2x5.7	82 77 14	1

Item	Denomination		Part No.	Qty.
23	O-ring	24.2x5.7	82 77 14	1
24	Screw	M24x70	81 49 81	1
	Washer	ISO 7089 - 24x44	82 35 80	1
25	Locking device	During transportation For an instruction on how to secure the locking device, see *Install the locking device* on page 18.	560 21 01	1
26	Stationary wear ring	Brass	314 88 27	1
27	Nut	M16	82 23 61	24
	Stud	M16x65	80 95 51	24
	Washer	BRB 17x30	82 35 23	24
28	Sleeve	Cast iron (drive unit 905 - 960)	560 99 00	1
		Stainless steel (drive unit 965 - 995)	560 99 01	
29	O-ring	119.3x5.7	82 74 16	1
30	Locking assembly	Ø85xØ125 905 - 960 drive units (24Nm→48Nm→70Nm)	84 59 17	1
	Bearing grease	Minimum delivery quantity 1 kg (2.2 lbs)	90 20 54	50g
31	Screw	M12x50	82 00 73	4
	Lock washer	M12	82 50 17	4
32	Guide ring	905–960 drive units	557 34 00	1
		905–960 drive units. Wth zinc anodes.	557 34 01	
33	Pump housing For information about flange patterns, see *Flange patterns* on page 17.		820 26 00	1
	Pump housing For information about flange patterns, see *Flange patterns* on page 17.		820 26 10	
	Pump housing complete For information about flange patterns, see *Flange patterns* on page 17.		820 26 01 820 26 05 820 26 07	
34	Stud	PS 16x50 (only for 800-series drive unit without cooling jacket)	80 95 52	24
	Stud	M16x65	80 95 51	24
	Nut	M16	82 23 61	24
	Washer	BRB 17x30	82 35 23	24
35	Expanding pin (FRP 10x32)		80 58 95	1
36	O-ring	725.0x5.7	82 78 99	1
37	Expanding pin (FRP 10x32)		80 58 95	1
38	Impeller unit For information about impeller diameter and variant, see *Impeller unit with wear ring, 345 25 18* on page 15.		591 63 XX 591 64 XX 591 65 XX	4
39	Screw	M12x80	82 00 79	4
	Lock washer	M12	82 50 17	1

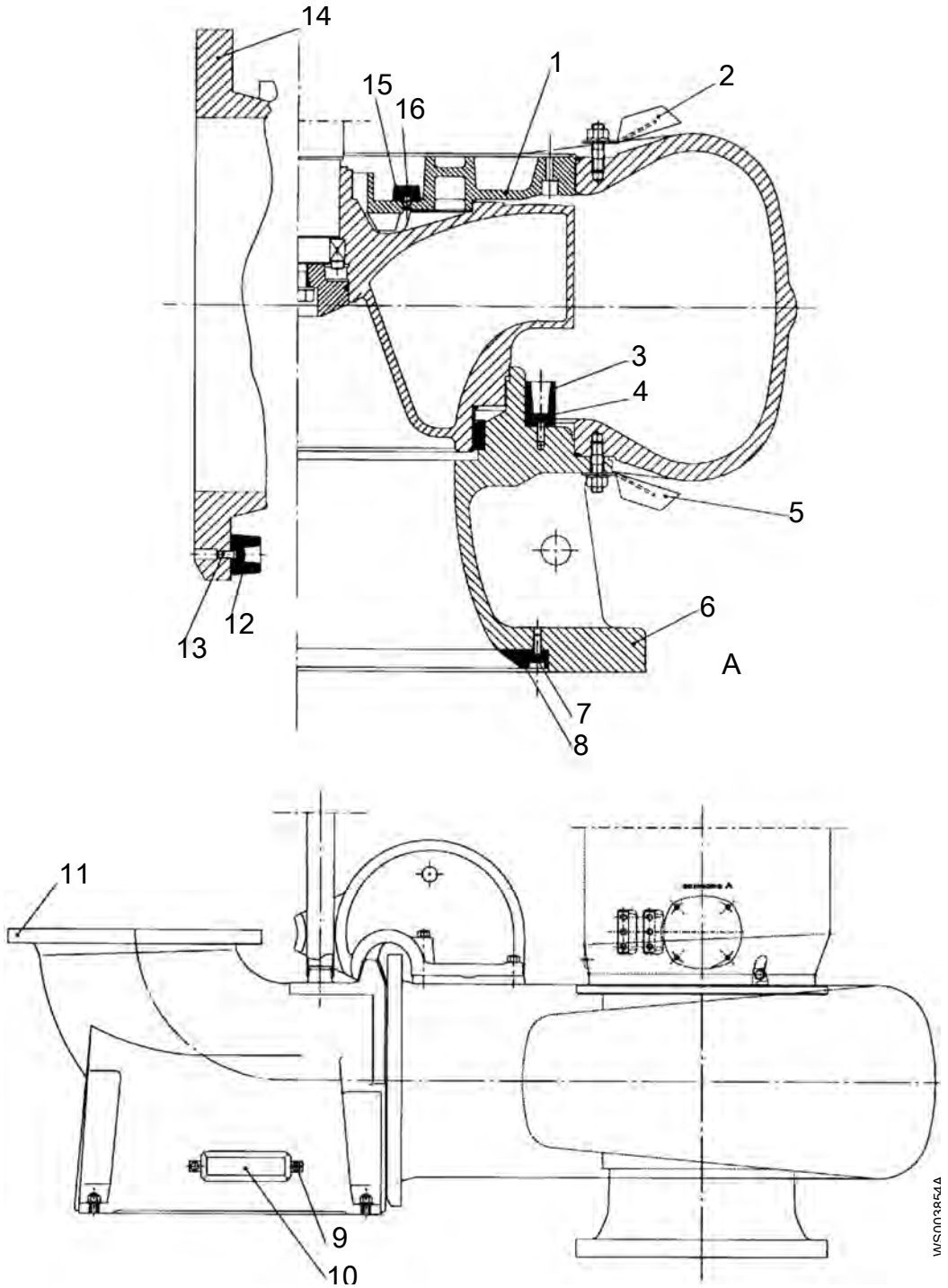
Item	Denomination		Part No.	Qty.
40	O-ring	725.0x5.7	82 78 99	1
41	Locking assembly	Ø100xØ160 (70Nm→154Nm→23Nm) 965 - 99 drive units	84 60 11	1
	Bearing grease	Minimum delivery quantity 1 kg (2.2 lbs)	90 20 54	50 g
42	Stud	M16x90	80 95 60	24
	Nut	M16	82 23 61	24
	Washer	BRB 17x30	82 35 23	24
43	Guide ring	965–998 drive units	656 28 00	1
44	Impeller unit For information about impeller diameter and variant, see *Impeller unit with wear ring, 345 25 18* on page 15.		670 84 00 658 69 00 679 32 00 681 00 00	1
45	O-ring	149.3x5.7	82 74 83	1
46	Nut	M16	82 23 61	16
	Stud	M16x45	80 95 51	16
	Washer	BRB 17x30	82 35 23	16
47	Guide ring	8X5/8X2 drive units.	574 96 00	1
		8X5/8X2 drive units. With zinc anodes.	574 96 01	
48	O-ring	594.0x5.7	82 78 97	1
49	O-ring	499.3x5.7	82 75 13	1
50	Guide ring	7X5 drive units.	574 95 00	1
		7X5 drive units. With zinc anodes.	574 95 01	
51	Nut	M16	82 23 61	8
	Stud	M16x65	80 95 51	8
	Washer	BRB 17x30	82 35 23	8
52, 53, 54	Expanding pin	FRP 10x32	80 58 95	1

3.2 Zinc anodes

Reference

For more information, see the following assembly drawing numbers:

- 563 82 00
- 563 83 00

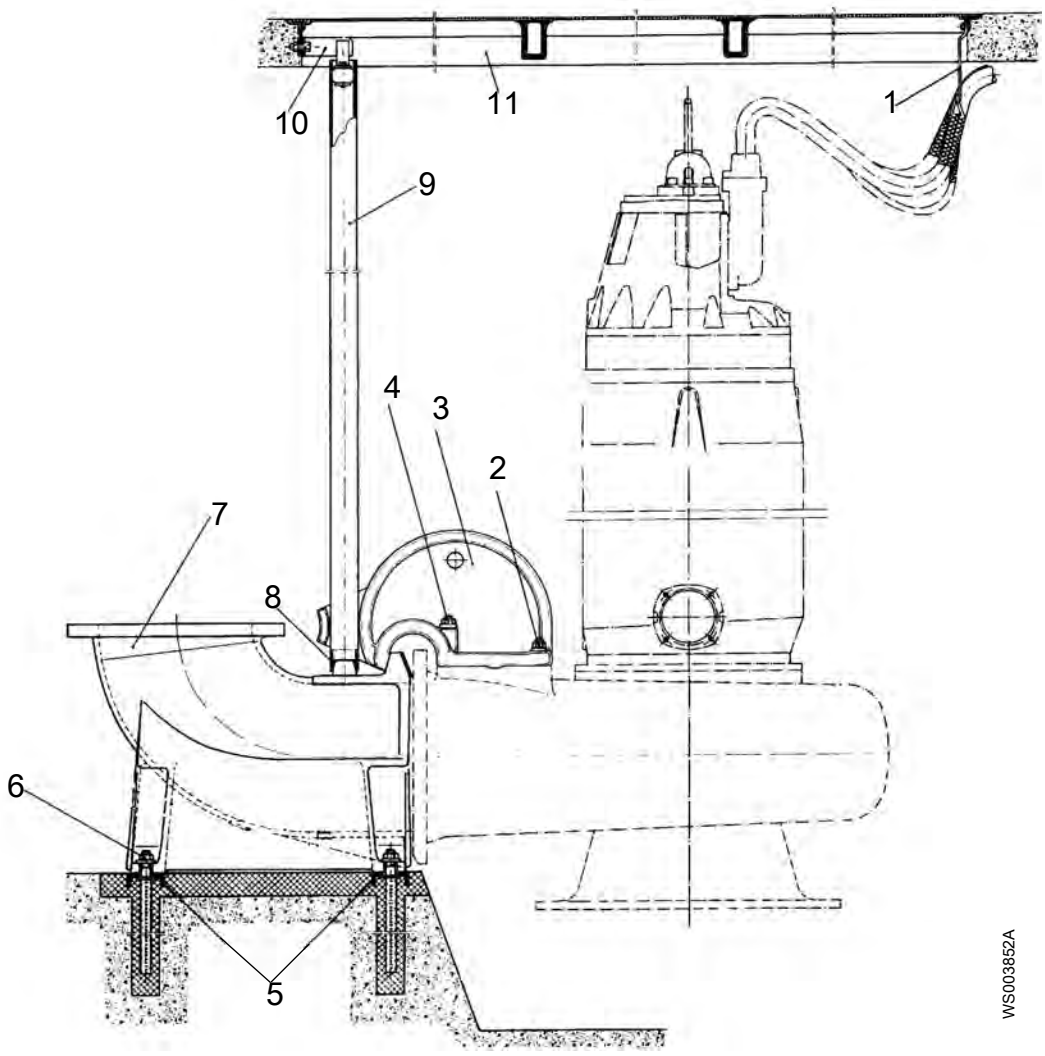


Item	Description		Part number	Quantity
1	Guide ring	8X5 drive units	574 96 01	1
		7X5 drive units	574 95 01	
		905–960 drive units	557 34 01	
		965–998 drive units	656 28 00	
2 , 5	Anode		518 72 00	8
3	Anode		561 03 00	8
4	Screw	M10x25	83 03 23	8

Item	Description		Part number	Quantity
6	Suction cover For information about flange patterns, see *Flange patterns* on page 17.		560 97 10 560 97 11 560 97 15 560 97 17	1
7	Screw	M10x25	83 03 23	8
8	Anode		561 04 00	8
9	Screw	M10x20	81 48 79	4
10	Anode		445 47 00	2
11	Discharge connection For information about flange patterns, see *Flange patterns* on page 17.		387 90 10 387 90 11 387 90 15 387 90 17	1
12	Anode		559 31 00	7
13	Screw	M10x25	83 03 23	7
14	Pump housing For information about flange patterns, see *Flange patterns* on page 17.		820 26 10	1
15	Anode		557 06 00	2
16	Screw	M10x20	83 03 21	2

4 Installation Components

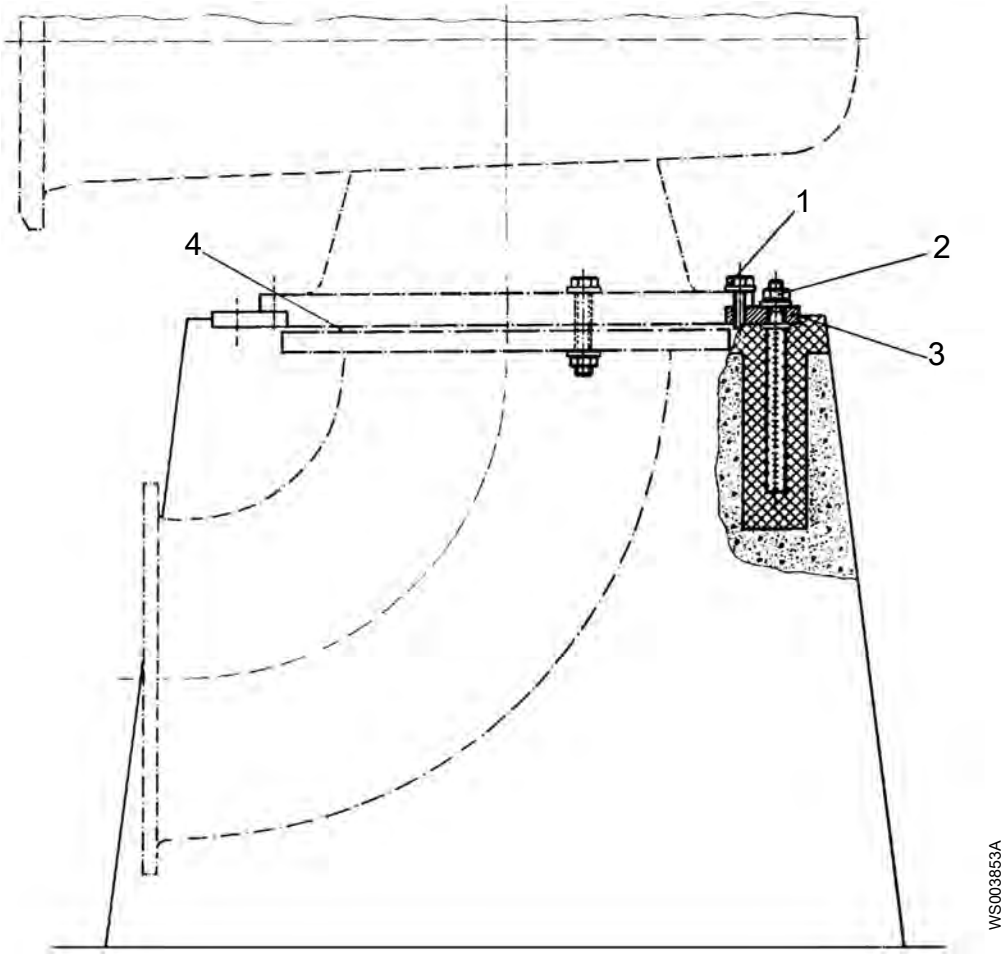
4.1 CP/NP



Item	Denomination		Part No.	Qty.
1	Cable holder		251 36 00	1
2	Stud	M24x100	80 95 96	10
	Nut	M24 (500 Nm) (369 lb-ft.)	82 23 63	10
	Washer	BRB 25x45	82 35 28	10
3	Pump housing complete For information about flange patterns, see *Flange patterns* on page 17.		571 46 00	1
4	Stud	M24x150	80 96 07	2
	Nut	M24 (500 Nm) (369 lb-ft.)	82 23 63	2
	Washer	BRB 25x45	82 35 28	2
5	Channel		341 37 02	2
6	Nut	M24	82 23 63	6

Item	Denomination		Part No.	Qty.
	Washer	BRB 25x45	82 35 28	6
	Stud		409 60 00	6
7	Discharge connection For information about flange patterns, see *Flange patterns* on page 17.		387 90 00 387 90 01 387 90 05 387 90 07	1
8	Ring		255 47 01	2
9	Steel pipe	6 m	92 64 10	2
10	Guide holder	Galvanized	661 54 00	1
		Stainless steel	661 54 01	
11	Frame unit		388 15 11	1

4.2 CT/NT



Item	Denomination		Part No.	Qty.
1	Screw	M24x70	84 34 53	12
	Washer	BRB 25x45	82 35 28	12
2	Nut	M24	82 23 63	6
	Washer	BRB 25x45	82 35 28	6
	Discharge connection For information about flange patterns, see *Flange patterns* on page 17.		409 60 00	6

Item	Denomination	Part No.	Qty.
3	Plate	560 98 00	1
4	Gasket	84 65 85	1

5 Technical Reference

5.1 Impeller unit with wear ring, 345 25 18

Impeller type

Always state the impeller diameter and variant number.

Part No. [1]	Material	Shaft End Diameter	Drive Unit
591 63 XX	Cast iron	110	9X5
591 64 XX	Stainless steel		
591 65 XX	Epoxy-coated stainless steel		
658 69 XX	Stainless steel		965 - 995
670 84 XX	Ductile iron		
679 32 XX	Epoxy-coated stainless steel		
681 00 XX	Epoxy coated cast iron		
699 71 XX	Cast iron	75	7X5
699 79 XX	Stainless steel		
700 49 XX	Epoxy-coated stainless steel		
699 72 XX	Cast iron	90	8X5
699 80 XX	Stainless steel		
700 50 XX	Epoxy-coated stainless steel		

Impeller diameter

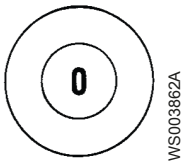
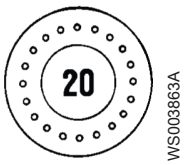
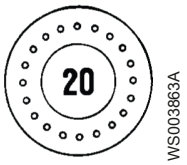
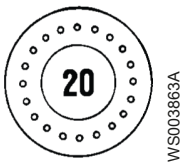
Diameter	Impeller Variant
738	00
735	01
730	02
725	03
720	04
715	05
710	06
705	07
700	08
695	09
690	10
685	11
680	12
675	13
670	14
665	15
660	16

[1] XX in the part number defines the impeller variant.

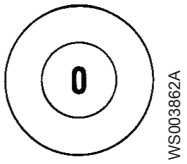
Diameter	Impeller Variant
655	17
650	18
645	19
640	20
635	21
630	22
625	23
620	24
615	25
610	26
605	27
600	28
595	29
590	30
585	31
580	32
575	33
570	34
565	35
560	36
555	37
550	38
545	39
540	40
535	41
530	42
525	43
520	44
515	45
510	46
505	47
500	48
495	49
490	50
485	51
480	52
475	53
470	54
465	55
460	56
455	57
450	58

5.2 Flange patterns

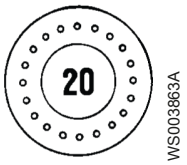
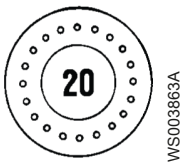
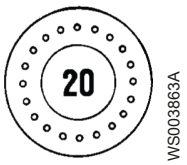
Discharge connection

Part No.	Description	Pattern
387 90 00 387 90 10	Flange 500 Undrilled	
387 90 01 387 90 11	Drilled according to EN 1092-2: Table 8. (PN10)	
387 90 05 387 90 15	Drilled according to ANSI B16.1–1989: Table 5. (Class 125)	
387 90 07 387 90 17	Drilled according to EN 1092-2: Table 9. (PN16)	

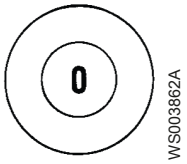
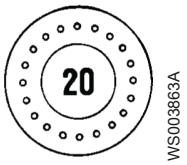
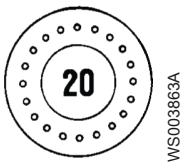
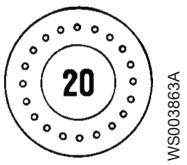
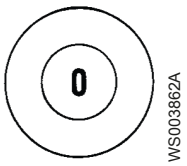
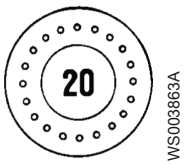
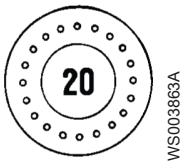
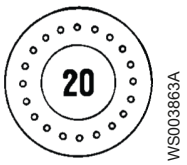
Pump housing

Part No.	Description	Pattern
820 26 00 820 26 10	Flange 500 Undrilled	

Complete pump housing unit

Part No.	Description	Pattern
820 26 01	Flange 400 Drilled according to EN 1092-2: Table 8. (PN10)	
820 26 05	Flange 400 Drilled according to ANSI B16.1–1989: Table 5. (Class 125)	
820 26 07	Flange 400 Drilled according to EN 1092-2: Table 9. (PN16)	

Suction cover

Part No.	Description	Pattern
560 97 00	Flange 600 Undrilled	
560 97 01	Drilled according to EN 1092-2: Table 8. (PN10)	
560 97 05	Drilled according to ANSI B16.1–1989: Table 5. (Class 125)	
560 97 07	Drilled according to EN 1092-2: Table 9. (PN16)	
560 97 10	Flange 500 Undrilled	
560 97 11	Drilled according to EN 1092-2: Table 8. (PN10)	
560 97 15	Drilled according to ANSI B16.1–1989: Table 5. (Class 125)	
560 97 17	Drilled according to EN 1092-2: Table 9. (PN16)	

5.3 Install the locking device

The locking device is used only for transporting the pump.

1. Clamp the locking device into position by turning and locking it by hand as tightly as possible.
2. After hand-tightening the unit, turn it a further 1/8 of a turn.

The locking device must be removed before starting the pump.

Xylem |’zīləm|

1) The tissue in plants that brings water upward from the roots;
2) a leading global water technology company.

We’re a global team unified in a common purpose: creating advanced technology solutions to the world’s water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to www.xylem.com

xylem
Let’s Solve Water

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The original instruction is in English. All non-English instructions are translations of the original instruction.

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