

# Flygt SR 4650.310/.390



# Table of Contents

<b>1 Introduction.....</b>	<b>2</b>
1.1 Specially approved products.....	2
<b>2 Product Description.....</b>	<b>3</b>
2.1 The data plate.....	3
2.2 Product denomination.....	3
<b>3 Exploded View.....</b>	<b>5</b>
3.1 Exploded view.....	5
3.2 Exploded view.....	7
<b>4 List of Parts.....</b>	<b>11</b>
4.1 4650.310/.390.....	11

# 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.

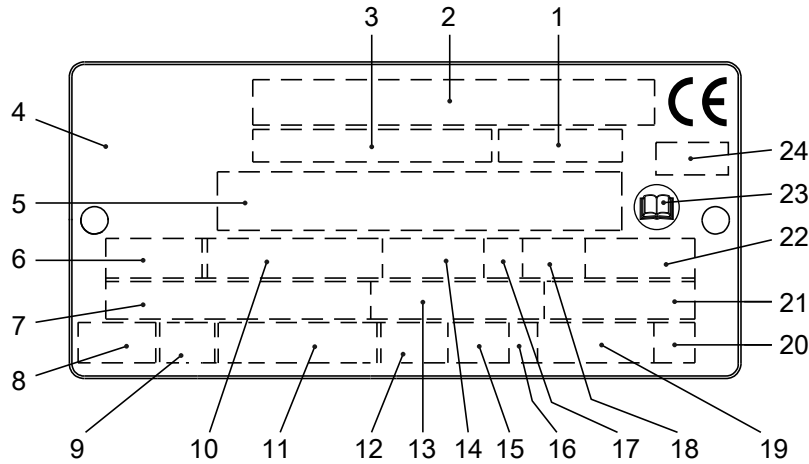
### Dimensional accuracy inspection

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 plate

The data plate is a metal label that is located on the main body of the products. The data plate lists key product specifications. Specially approved products also have an approval plate.



WS006257A

1. Curve code or Propeller code
2. Serial number
3. Product number
4. Country of origin
5. Additional information
6. Phase; type of current; frequency
7. Rated voltage
8. Thermal protection
9. Thermal class
10. Rated shaft power
11. International standard
12. Degree of protection
13. Rated current
14. Rated speed
15. Maximum submergence
16. Direction of rotation: L=left, R=right
17. Duty class
18. Duty factor
19. Product weight
20. Locked rotor code letter
21. Power factor
22. Maximum ambient temperature
23. Read installation manual
24. Notified body, only for EN-approved Ex products

Figure 1: The data plate

## 2.2 Product denomination

### Reading instruction

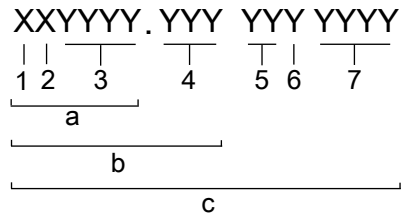
In this section, code characters are illustrated accordingly:

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

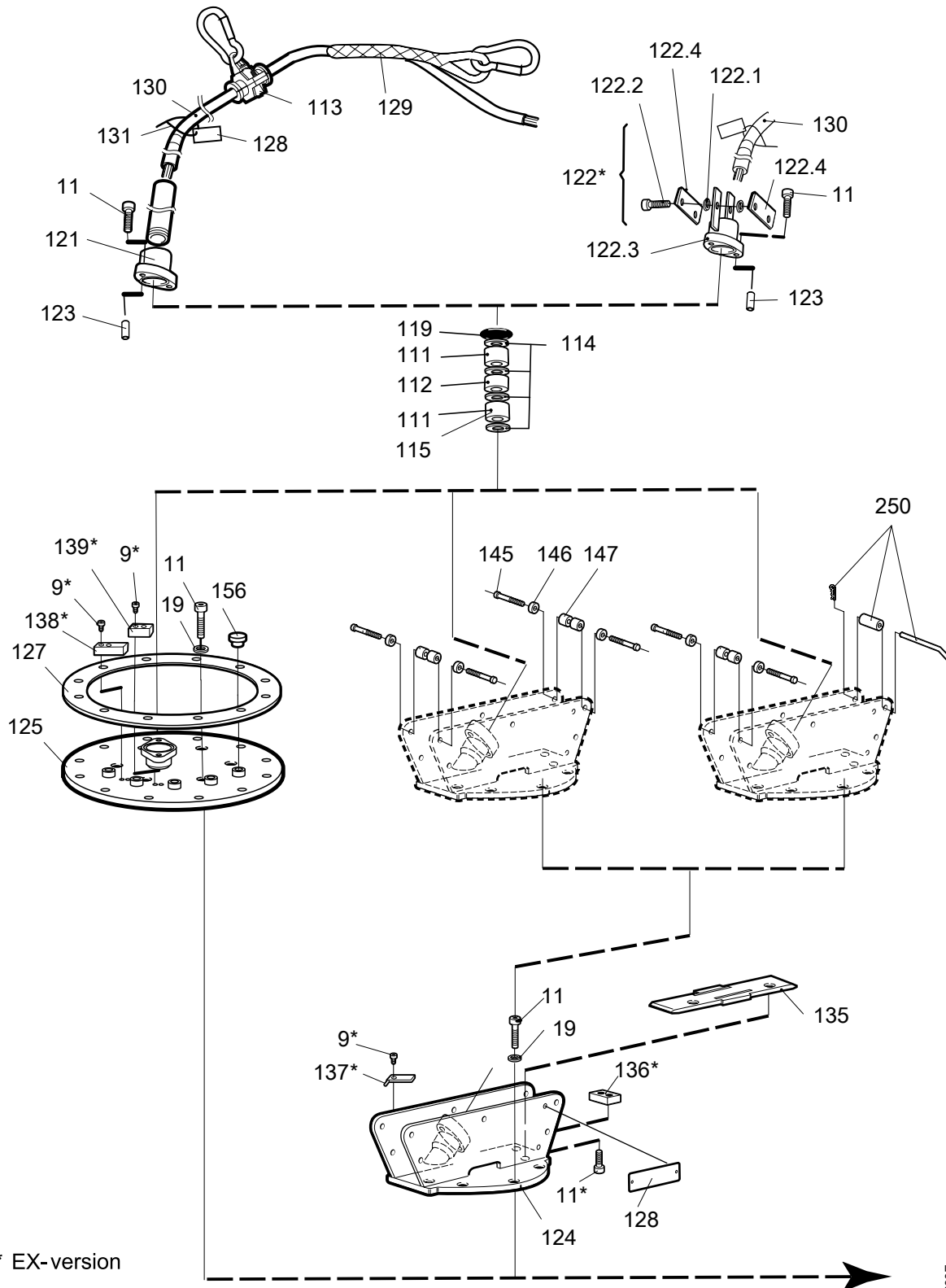


WS006265B

Type of Callout	Number	Indication
Type of code	a	Sales denomination
	b	Product code
	c	Serial number
Parameter	1	Hydraulic end
	2	Type of installation
	3	Sales code
	4	Version
	5	Production year
	6	Production cycle
	7	Running number

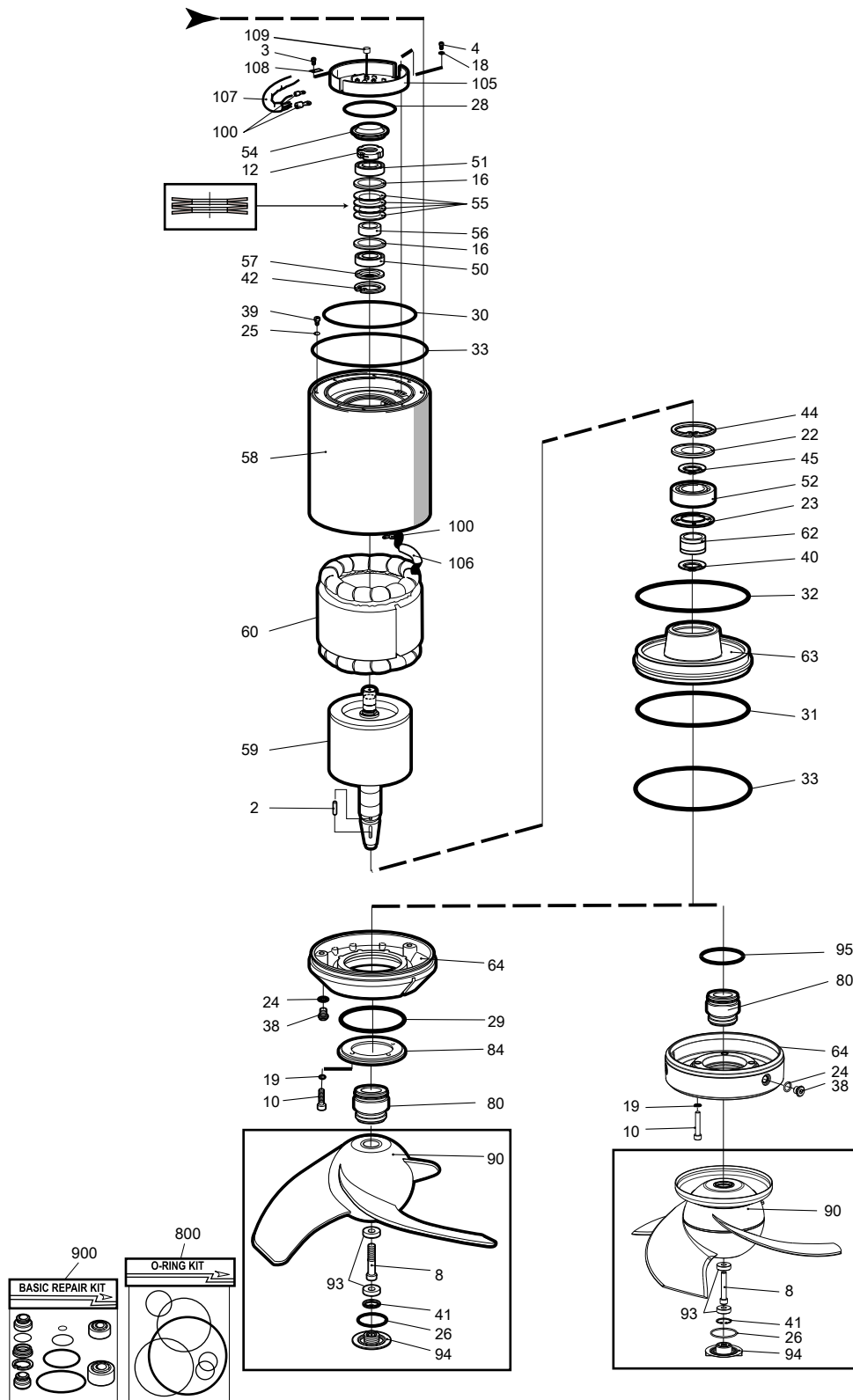
# 3 Exploded View

## 3.1 Exploded view



\* EX-version

40798F



40799C

### 3.2 Exploded view

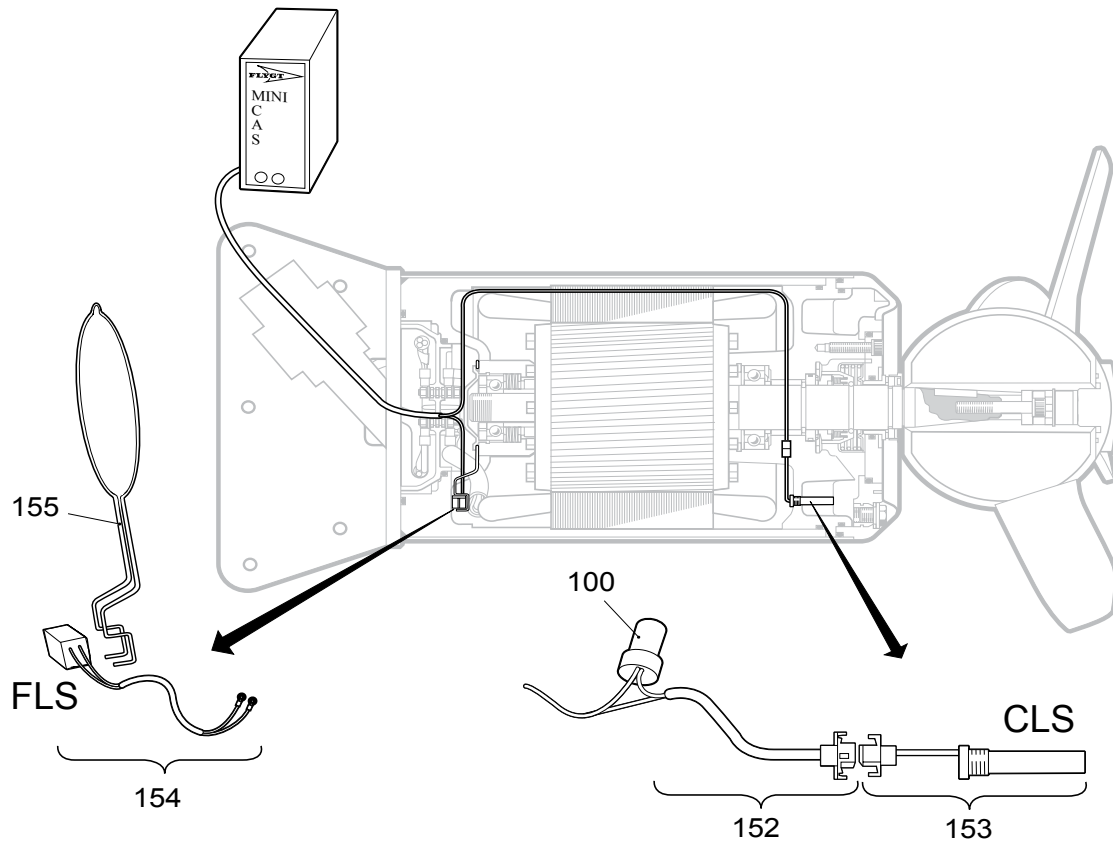
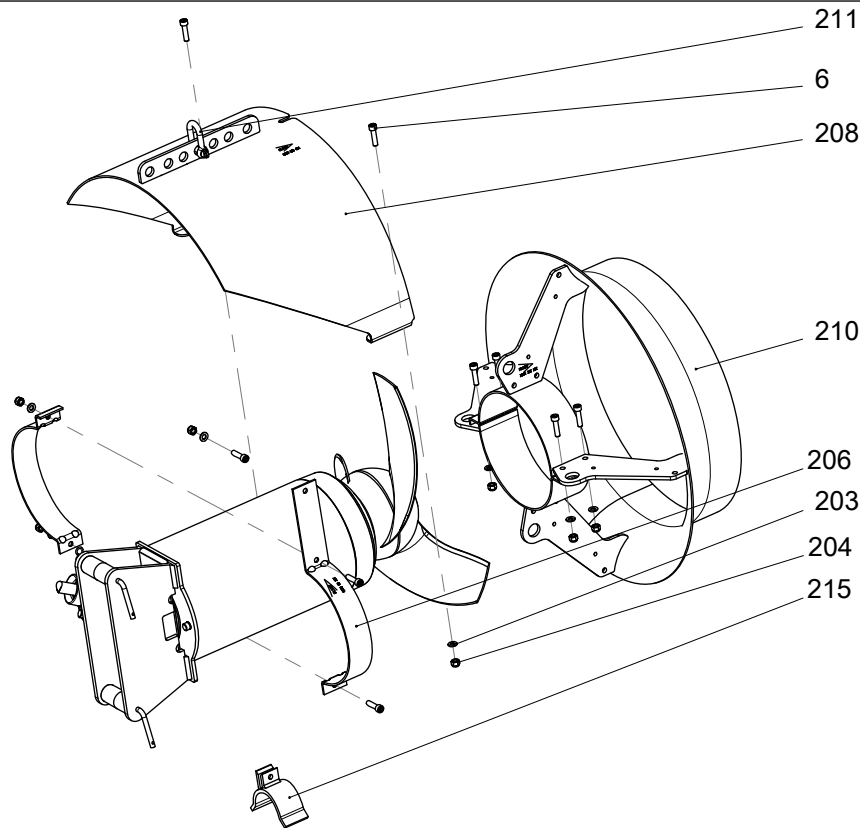
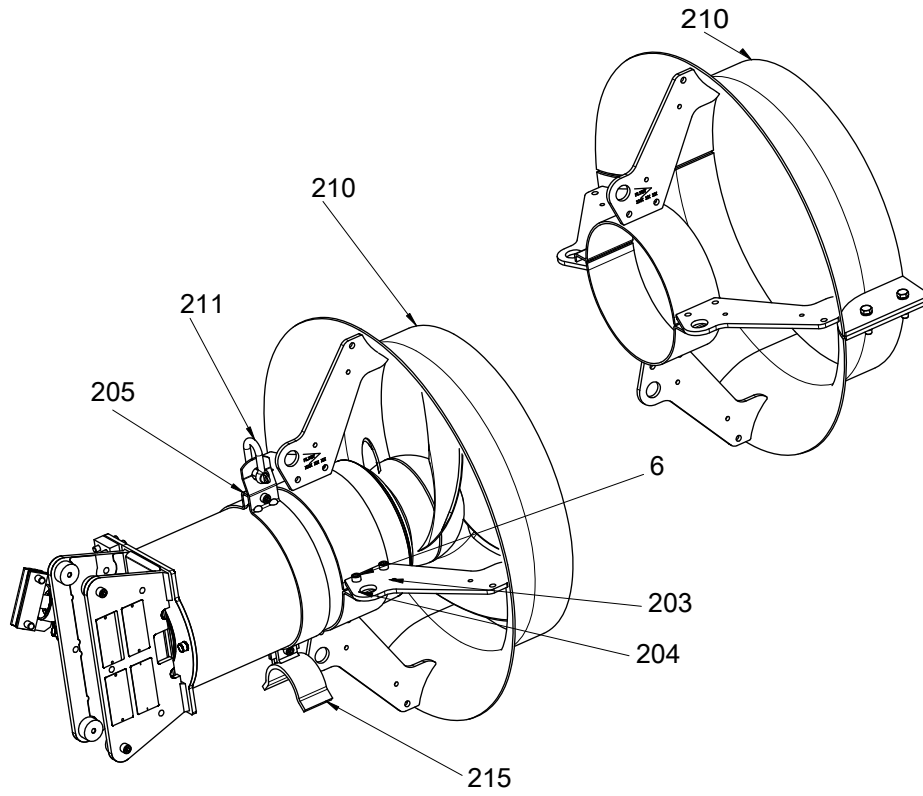


Figure 2: Sensors

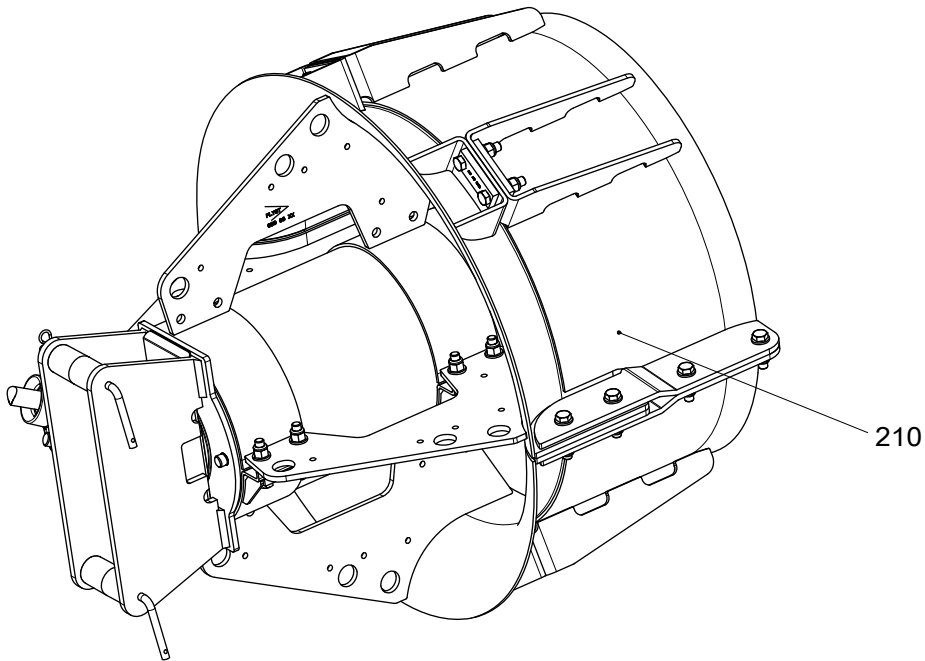
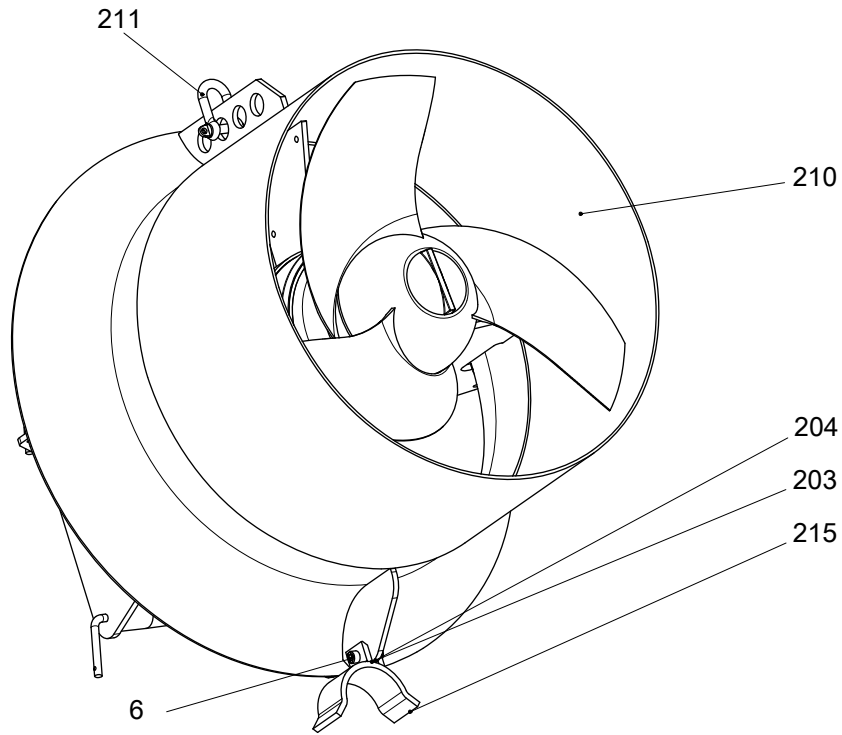
40930A





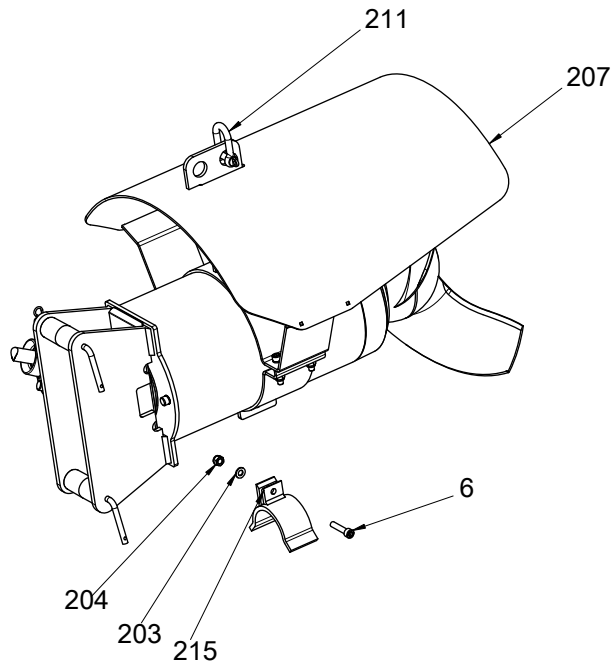
40931A

Figure 3: Jetring and vortex protection shield



40932A

Figure 4: Jetring, extended and extended divided



40933A

Figure 5: Vortex protection shield

# 4 List of Parts

## 4.1 4650.310/.390

Pos. No	Part. No	Type	Denomination	Qty/Version	
				310	390
6	83 04 46		Hex.socket hd screw M10X40-A4-80	6	8
6	83 04 46		Hex.socket hd screw M10X40-A4-80	4	4
6	83 04 46		Hex.socket hd screw M10X40-A4-80		12
9	83 04 48		Hex.socket hd screw M8X20-A4-80		1
10	83 04 46		Hex.socket hd screw M10X40-A4-80	4	4
11	83 04 49		Hex.socket hd screw M12X30-A4-80	2	2
12	589 45 00		Nut unit	1	1
16	82 44 19		Supporting washer 55X68X3	2	2
18	787 20 00		Disc spring	1	1
19	583 32 03		Seal ring HNBR	10	10
19	583 32 02		Seal ring FPM	10	10
22	596 37 04		Washer 53X84.8X3.8	1	1
23	627 27 00		Special washer PBT 10% GLASS-FIBRE	1	1
24	82 76 85		O-ring 17X3 NBR	2	2
24	82 79 15		O-ring 17X3 FPM	2	2
25	82 74 40		O-ring 4.1X1.6 NBR	1	1
26	82 74 65		O-ring 59.5X3 NBR	1	1
26	82 80 90		O-ring 59.5X3 FPM	1	1
28	82 74 18		O-ring 129.3X5.7 NBR	1	1
29	82 74 21		O-ring 144.3X5.7 NBR	1	1
29	82 75 16		O-ring 144.3X5.7 FPM	1	1
30	82 74 90		O-ring 184.3X5.7 NBR	1	1
30	82 72 99		O-ring 184.3X5.7 FPM	1	1
31	82 74 96		O-ring 229.3X5.7 NBR	1	1
31	82 81 82		O-ring 229.3X5.7 FPM	1	1
32	82 74 97		O-ring 239.5X5.7 NBR	1	1
32	82 80 86		O-ring 239.3X5.7 FPM	1	1
33	82 78 48		O-ring 255X5.7 NBR	2	2
33	82 95 55		O-ring 255X5.7 FPM	2	2
38	642 13 01		Plug	2	2
39	583 89 00	(Ex)	Inspection screw SS	1	1
40	82 59 74		Retaining ring SGH 45	1	1
42	82 62 12		Retaining ring SGH 62	1	1
44	82 62 22		Retaining ring SGH 85	1	1
45	82 63 95		Retaining ring 45-SPRING STEEL	1	1
50	83 57 06		Roller bearing NU206ECJ/M C3 30X62X16	1	1
51	85 03 51		Ball bearing 7206 30X62X16	1	1
52	85 03 52		Ball bearing 7209 45X85X19	1	1

Pos. No	Part. No	Type	Denomination	Qty/Version	
				310	390
54	569 69 00		Cover	1	1
55	582 95 01		Disc spring	4	4
56	584 86 01		Sleeve	1	1
57	584 93 00		Supporting washer	1	1
58	582 98 01		Stator housing unit SS	1	
58	582 98 11	(Ex)	Stator housing unit SS		1
59	578 50 02	(Ex)	Shaft unit	1	1
60	666 15 31		Stator 25-15-12a	1	1
			50 Hz 12-poles 400V Y		
			60 Hz 12-poles 460V-480V Y		
60	666 15 51		Stator 25-15-12a	1	1
			50 Hz 12-poles 500V Y		
			60 Hz 12-poles 575V-600V Y		
62	569 91 00		Sleeve	1	
62	585 23 00	(Ex)	Sleeve		1
63	569 90 02		Bearing housing	1	
63	569 90 03		Bearing housing	1	
63	569 90 11	(Ex)	Bearing housing		1
64	569 65 00		Oil housing	1	1
80	619 64 30		Mechanical seal WCCR/WCCR, WCCR/WCCR FPM	1	1
80	619 64 31		Mechanical seal WCCR/WCCR, RSIC/ RSIC FPM	1	1
81	646 96 01	(Ex)	Seal holder	1	1
84	646 96 01	(Ex)	Seal holder	1	1
90	658 86 23		Propeller compl.	1	1
			stainless steel (ASTM 316L) Angle 3		
90	658 86 25		Propeller compl.	1	1
			stainless steel (ASTM 316L) Angle 5		
90	658 86 27		Propeller compl.	1	1
			stainless steel (ASTM 316L) Angle 7		
90	658 86 29		Propeller compl.	1	1
			stainless steel (ASTM 316L) Angle 9		
90	582 28 05		Propeller compl. ANGLE 5 (L102)	1	1
			Hard-Iron TM Angle=5		
90	582 28 07		Propeller compl. ANGLE 7 (L102)	1	1
			Hard-Iron TM Angle 7		
90	582 28 09		Propeller compl. ANGLE 9 (L102)	1	1
			Hard-Iron TM Angle 9		
100	83 42 83		Cable lug 0.5-1.5 MM2 M5	5	5
100	83 44 24		Closed-end splice 3-6 (AWG 12-10)	1	1
100	83 42 83		Cable lug 0.5-1.5 MM2 M5	1	
100	83 43 04		Cable lug 1-2.5 MM2 M5	5	5
100	83 43 04		Cable lug 1-2.5 MM2 M5	2	2
100	83 43 24		Cable lug 2.5-6 MM2 M5	3	3
100	83 43 24		Cable lug 2.5-6 MM2 M5	5	5
100	83 42 96		Cable lug 2.5-6 MM2 M6	1	
105	569 68 00		Con.term.board unit	1	1
106	94 05 88		Insulating hose D=16 MM	*	*
107	94 13 64		Insulating hose DIAM.25; CLASS H180/4KV	*	*
108	580 28 00		Plate spring	2	2
109	83 93 95		Protective cap 12X10.5 MM PE	8	8
111	84 18 01		Seal sleeve (17)-20 MM NBR	2	2

Pos. No	Part. No	Type	Denomination	Qty/Version	
				310	390
111	84 18 02		Seal sleeve (20)-23 MM NBR	2	2
111	84 18 03		Seal sleeve (23)-26 MM NBR	2	2
111	84 19 40		Seal sleeve (14)-17 MM FPM	2	2
112	597 98 02		Sleeve	1	1
114	82 42 71		Plain washer 32.5X52X2-A4-70	4	4
114	82 42 72		Plain washer 34.5X52X2-A4-70	4	4
119	82 74 65		O-ring 59.5X3 NBR	1	1
119	82 80 90		O-ring 59.5X3 FPM	1	1
121	642 17 03	(Ex)	Entrance flange	1	1
121	597 87 01	(Ex)	Entrance flange ISO G1 1/4, (17)-23 MM	1	1
121	597 87 08	(Ex)	Entrance flange 2-11.5 NPT, (17)-23 MM	1	1
122	618 81 03		Entrance flange		1
122,1	82 35 77		Plain washer 13X24X2.5-A4-170HV		10
122,2	83 03 50		Hex.socket hd screw M12X50-A4-70		2
122,3	618 80 03		Entrance flange (14)-35 MM		1
122,4	728 40 01		Plate		1
123	82 97 67		Cap 17X25 MM PVC	1	1
123	82 97 71		Cap 21X45 MM PVC	1	1
123	82 97 73		Cap 23X45 MM PVC	1	1
123	82 97 74		Cap 24X45 MM PVC	1	1
123	82 97 66		Cap 16X25 MM PVC	1	1
124	638 34 01		Fixing plate compl. SS	100 x 100 mm Mtrl:stainless steel (ASTM 316L)	1
124	638 34 03		Fixing plate compl.	100 x 100 mm Mtrl:stainless steel (ASTM 304)	1
124	638 34 11	(Ex)	Fixing plate compl.	100 x 100 mm Mtrl:stainless steel (ASTM 316L)	1
124	638 34 13	(Ex)	Fixing plate compl.	100 x 100 mm Mtrl:stainless steel (ASTM 304)	1
128	630 68 00		Data plate USE 6306801 AS SPARE PART	2	2
128	775 04 00		Connection plate	1	1
128	630 76 00		Plate HOT WATER PRODUCT	1	1
128	630 69 00		Certificate plate EN		2
128	630 70 00		Certificate plate FM		2
128	801 03 04		Name plate	CSAEx	1
128	801 04 00		Caution plate	CSAEx	1
129	482 01 01		Cable supp.grip unit	1	1
130	94 20 59		Motor cable subcab 4G2.5+2X1.5	*	*
130	94 20 60		Motor cable subcab 4G4+2X1.5	*	*
130	94 20 56		Motor cable subcab 4G6+2X1.5	*	*
130	94 20 94		Motor cable hcr 7X6	S07E6E5-F7G6	*
131	83 45 59		Cable tie 200X2.4 PA 6/6 -55+105	1	1
135	631 62 00		Plate PE-HD	1	

Pos. No	Part. No	Type	Denomination	Qty/Version	
				310	390
135	631 62 01		Plate PVDF		1
136	582 32 01		Square nut SS		1
145	83 04 62		Hex.socket hd screw M10X30-A4-80	4	4
146	82 50 16		Lock washer	4	4
147	630 83 00		Sleeve SS	4	4
152	603 60 00		Cable unit	1	
153	505 12 00		Leakage sensor (CLS30)	1	
154	518 89 02		Leakage sensor (FLS)	1	1
155	624 10 00		Bracket	1	1
190	611 42 00		Instruction label	1	1
203	82 35 76		Plain washer 10.5X20X2-A4-170HV	4	4
204	82 27 28		Lock nut M10-A4-70	4	4
205	596 74 01		Lifting handle unit SS	1	1
210	690 70 03		Jet ring compl. AISI 304	1	1
211	82 26 50		Shackle	1	1
215	783 02 00		Support	1	1
250	726 11 00		Fastening kit	1	1
400	667 40 01		Sticker	2	2
800	80 32 91		O-ring kits NBR	1	1
800	80 32 92		O-ring kits FPM	1	1
801	466 26 36		Zinc anode kit ANODE WITH JETRING	1	1
801	466 26 39		Zinc anode kit ANODE WITHOUT JETRING	1	1
900	719 85 00		Plate unit kit	1	1
900	816 21 00		Basic repair kit	1	1
900	816 22 00		Basic repair kit	1	1
900	816 23 00		Basic repair kit	1	1
900	816 24 00		Basic repair kit	1	1
900	816 25 00		Basic repair kit	1	1
901	90 17 52		Oil ISO VG 32	*	*
902	90 20 58		Grease PAIL 16KG	*	*
912	82 76 85		O-ring 17X3 NBR	2	2
912	82 79 15		O-ring 17X3 FPM	2	2