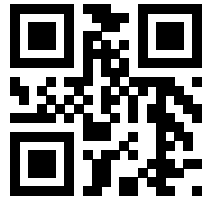




Parts List

90006001_4



6020.181/091

Concertor™

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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

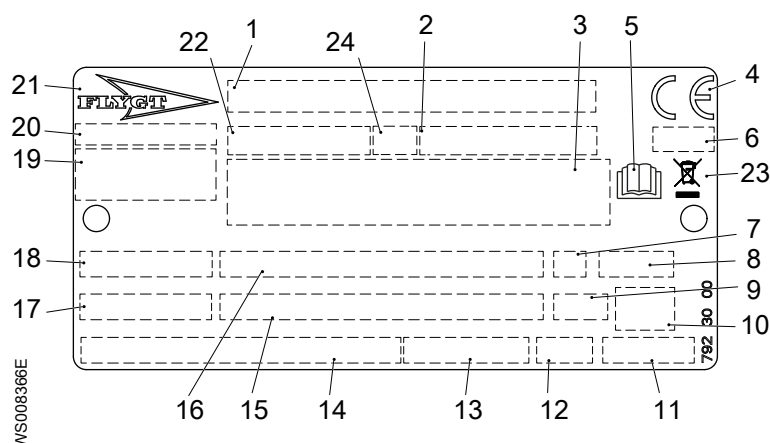
Only Xylem or Xylem-authorized service personnel may undertake repair work on specially approved products.

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 plate



1. Serial number, see [Product denomination](#) on page 5
2. Product number
3. Additional information
4. CE-marking
5. Read installation manual
6. Notified body (only for EN-approved Ex products)
7. Duty class
8. Degree of protection
9. Thermal class
10. Maximum submergence
11. Product weight
12. Direction of rotation: L=left, R=right
13. Speed
14. Minimum rated voltage/rated current – maximum rated voltage/rated current
15. Maximum ambient temperature (2), rated shaft power (2)
16. Maximum ambient temperature (1), rated shaft power (1)
17. Power factor
18. Phase, type of current, frequency
19. Manufacturer
20. Country of origin
21. Brand
22. Sales denomination
23. WEEE-Directive symbol
24. Hydraulic end, type of installation

2.2 Approvals

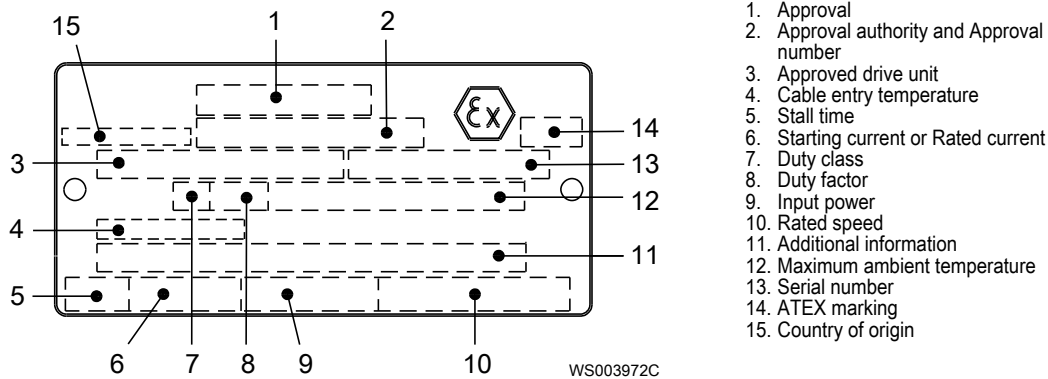
Product approvals for hazardous locations

Pump	Approval
6020.091	European Norm (EN) • ATEX Directive • EN IEC 60079-0:2018, EN 60079-1:2014, EN ISO 80079-36:2016, EN ISO 80079-37:2016 •  II 2 G Ex db h IIB T4 Gb
	IEC • IECEx scheme • IEC 60079-0:2017, IEC 60079-1:2014-06, ISO 80079-36:2016, ISO 80079-37:2016 • Ex db h IIB T4 Gb

Pump	Approval
	FM (FM Approvals) • FM 3600:2018 • FM 3615:2018 • FM 3650:2013 • FM 3616:2011 • ANSI/IEC 60529:2004 • Explosion proof for use in Class I, Div. 1, Group C and D • Dust ignition proof for use in Class II, Div. 1, Group E, F and G • Suitable for use in Class III, Div. 1, Hazardous Locations CSA Ex • Explosion proof for use in Class I, Div. 1, Group C and D

EN approval plate

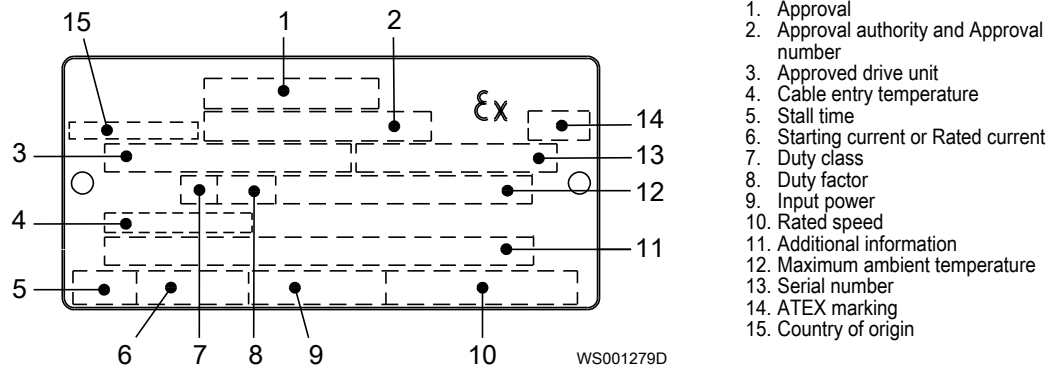
This illustration describes the EN approval plate and the information that is contained in its fields.



IEC approval plate

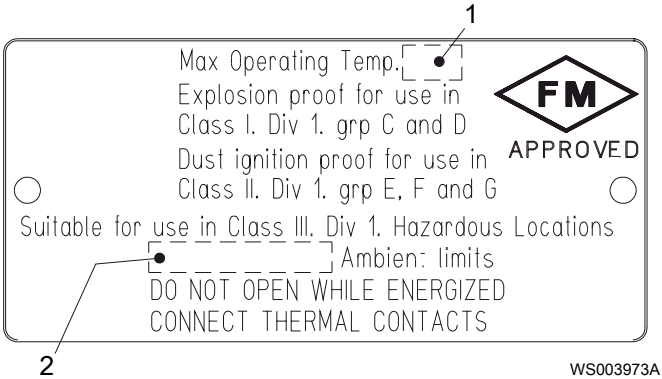
This illustration describes the IEC approval plate and the information that is contained in its fields.

International Norm; not for EU member countries.



FM approval plate

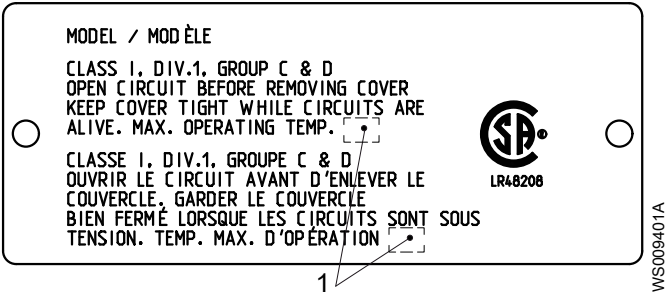
This illustration describes the FM approval plate and the information that is contained in its fields.



- 1. Temperature class
- 2. Maximum ambient temperature

CSA approval plate

This illustration describes the CSA approval plate and the information that is contained in its fields.



- 1. Temperature class

2.3 Product denomination

Reading instruction

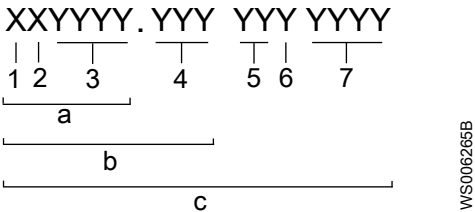
In this section, code characters are illustrated accordingly:

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



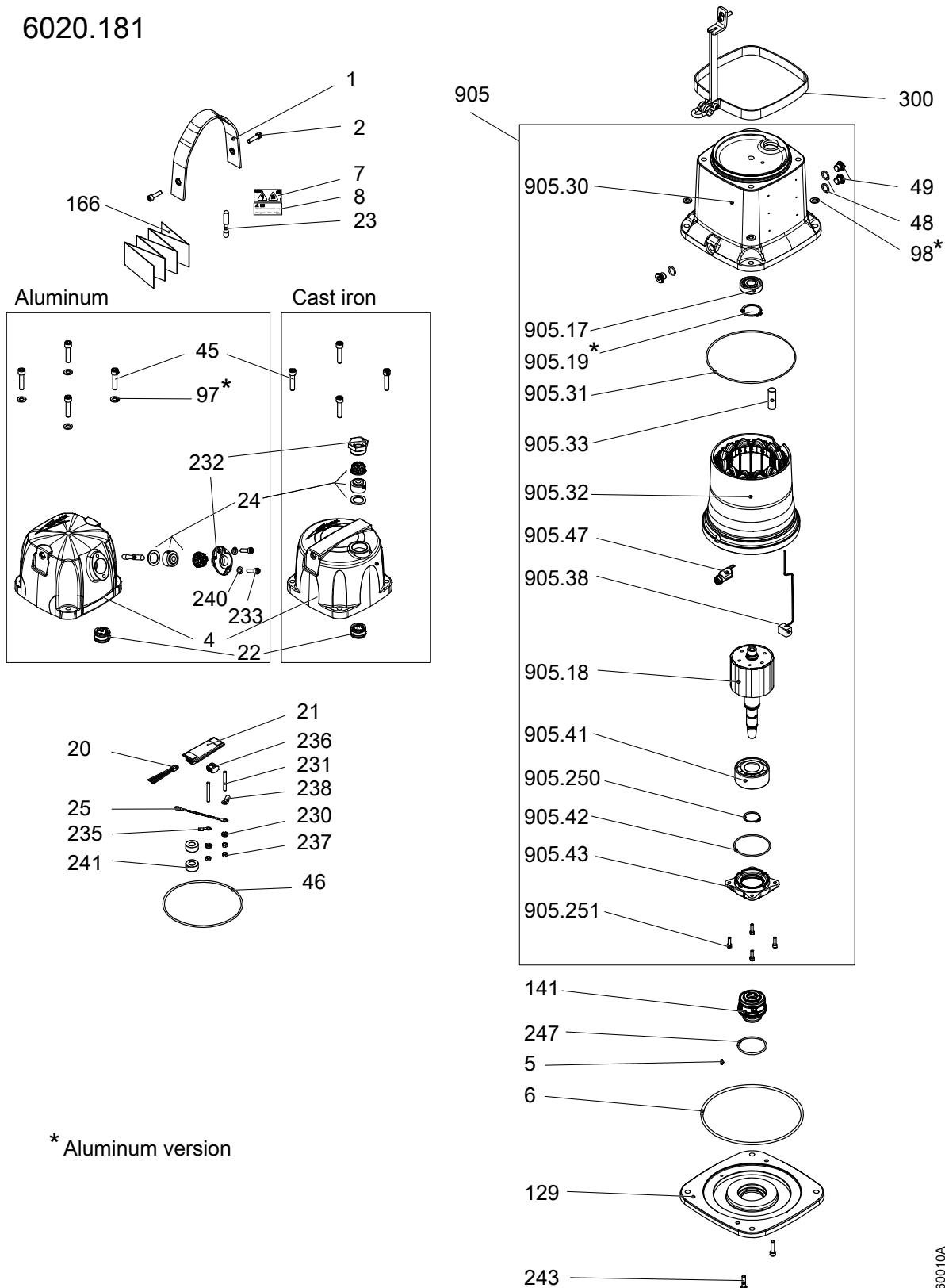
Type of Callout	Number	Indication
Type of code	a	Sales denomination
	b	Product code
	c	Serial number
Parameter	1	Hydraulic end
	2	Type of installation
	3	Sales code
	4	Version
	5	Production year

Type of Callout	Number	Indication
	6	Production cycle
	7	Running number

3 Exploded View

3.1 Drive unit

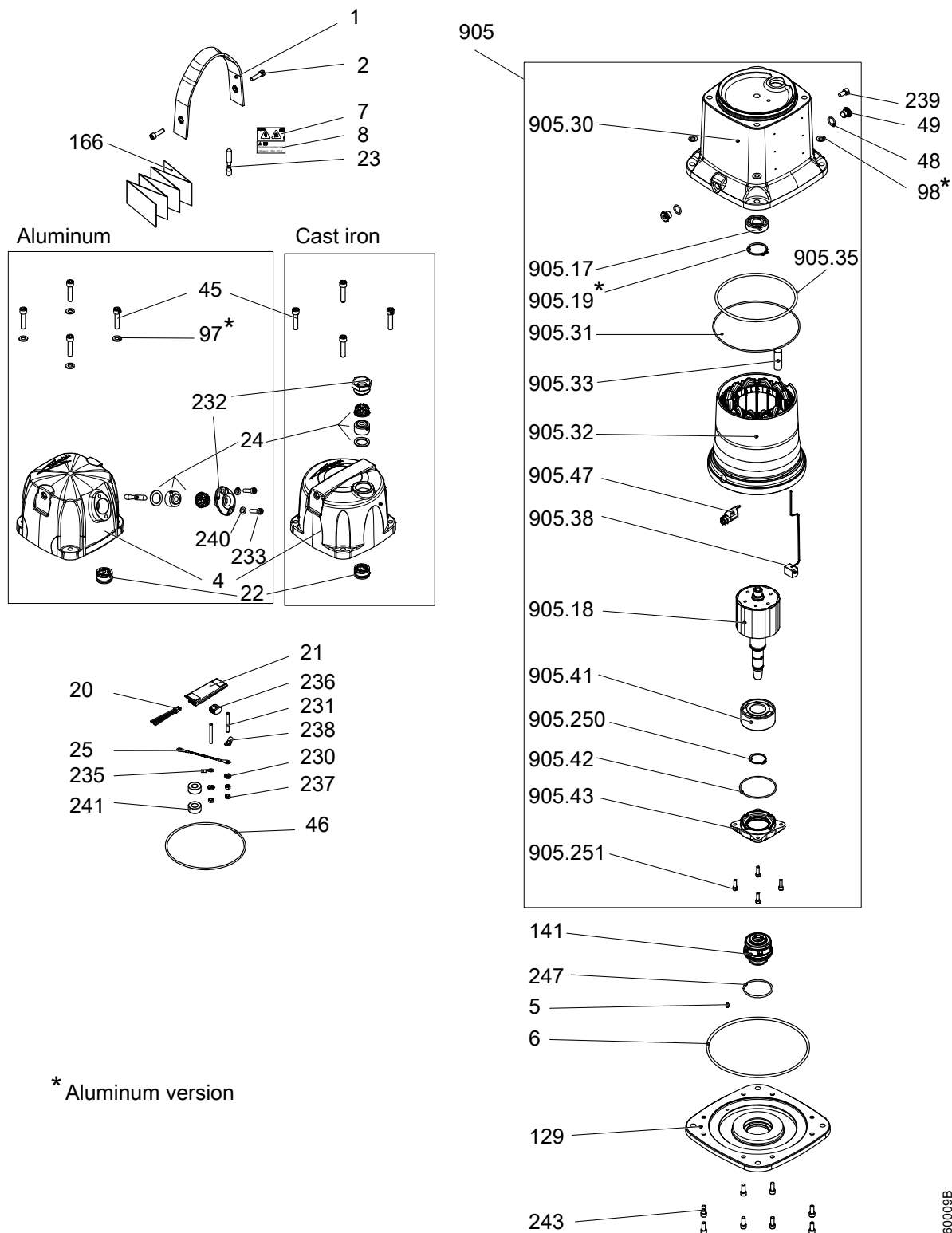
6020.181



* Aluminum version

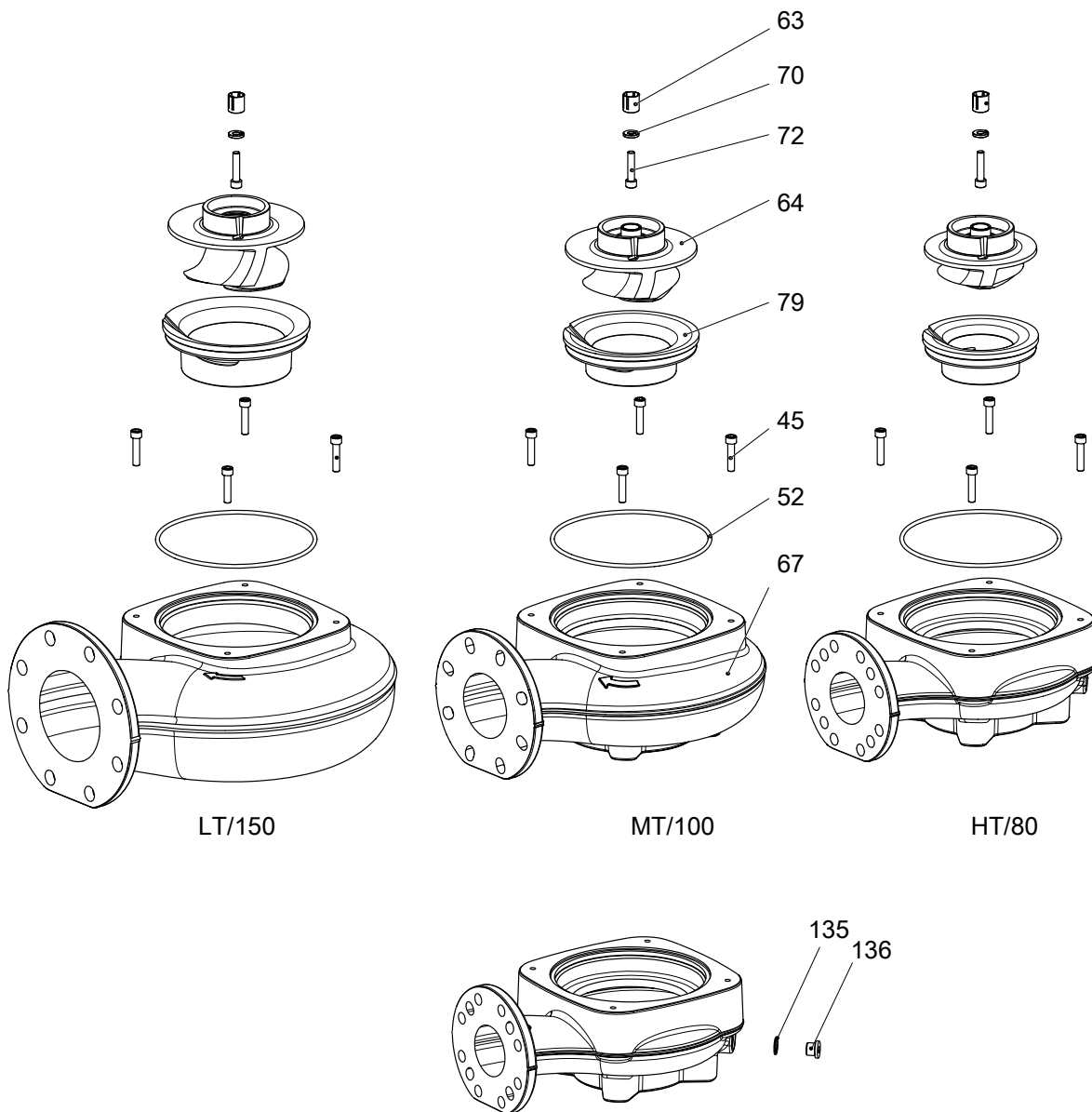
60010A

6020.091



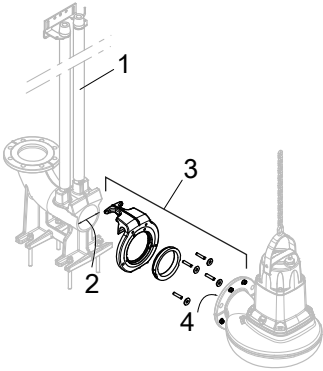
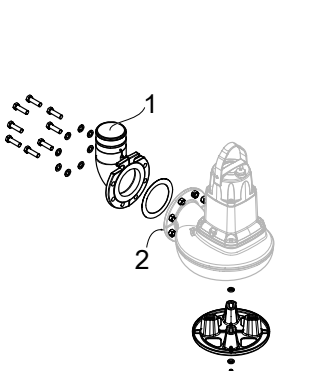
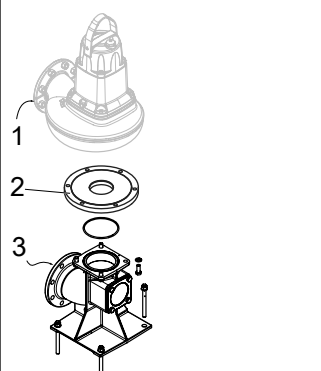
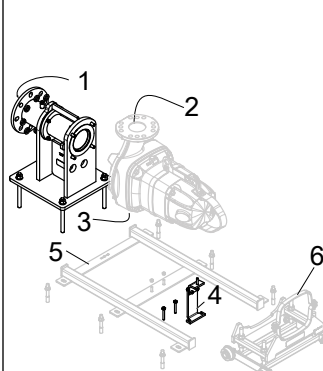
60009B

3.2 Hydraulic unit



60003C

3.3 Installation components

P-installation	S-installation	T-installation	Z-installation
Sliding bracket kits for guide system 2 in. The discharge connections, guide pipes, and brackets are ordered separately.	Discharge bend for hose or threaded connection.	T-stand with 90° bend and inspection hatch. The rotation adapter is optional.	Z-stand with telescopic opening. The rails and the service cart are optional. Pump with lifting handle.
 1. Discharge connection, guide pipes, and brackets. Optional. 2. Discharge connection inlet 3. Sliding bracket kit 4. Pump outlet	 1. Coupling type: Hose or threaded 2. Pump outlet	 1. Pump outlet 2. Rotation adapter. Optional 3. Stand unit inlet	 1. Stand unit inlet 2. Pump outlet 3. Drainage plug 4. Support unit 5. Rails 6. Service cart

For a list of the kits, see the Kit Catalog.

4 List of Parts

4.1 6020.091/181

Pos. No	Part. No	Type	Denomination	Qty/Version	
				091	181
1	822 49 00	(Ex)	Lifting handle	1	1
2	83 03 02		Hex.socket hd screw M8X30-A4-70	2	2
3	792 30 00		Data plate	2	2
4	836 31 24	(Ex)	Connect. hous.unit	1	
			Dirigo (TM): Combined motor and control system with temperature monitoring Maximum power: 2,20 kW / 3 HP Maximum current: 4,10 A Voltage interval: 380- 480 V For dry installation		
4	836 31 25	(Ex)	Connect. hous.unit	1	
			Dirigo (TM): Combined motor and control system with temperature monitoring I Maximum power: 4 kW / 5 HP Maximum current: 7,40 A Voltage interval: 380- 480 V For dry installation		
4	836 31 26	(Ex)	Connect. hous.unit	1	
			Dirigo (TM): Combined motor and control system with temperature monitoring Maximum power: 5,50 kW / 7,50 HP Maximum current: 9,90 A Voltage interval: 380- 480 V For dry installation		
4	836 31 74	(Ex)	Connect. hous.unit	1	
			Dirigo (TM): Combined motor and control system with temperature monitoring Maximum power: 2,20 kW / 10 HP Maximum current: 7,40 A Voltage interval: 200- 240 V For dry installation		
4	836 31 75	(Ex)	Connect. hous.unit	1	
			Dirigo (TM): Combined motor and control system with temperature monitoring Maximum power: 4 kW / 5 HP Maximum current: 13,90 A Voltage interval: 200- 240 V For dry installation		
4	836 31 08		Connect. hous.unit		1
			Dirigo (TM): Combined motor and control system with temperature monitoring Maximum power: 2,20 kW / 3 HP Maximum current: 4,10 A Voltage interval: 380- 480 V For submerged installation		

Pos. No	Part. No	Type	Denomination	Qty/Version	
				091	181
4	836 31 09		Connect. hous.unit Dirigo (TM): Combined motor and control system with temperature monitoring Maximum power: 4 kW / 5 HP Maximum current: 7,40 A Voltage interval: 380- 480 V For submerged installation		1
4	836 31 10		Connect. hous.unit Dirigo (TM): Combined motor and control system with temperature monitoring Maximum power: 5,50 kW / 7,50 HP Maximum current: 9,90 A Voltage interval: 380- 480 V For submerged installation		1
4	836 31 11		Connect. hous.unit Dirigo (TM): Combined motor and control system with temperature monitoring Maximum power: 7,30 kW / 10 HP Maximum current: 13,20 A Voltage interval: 380- 480 V For submerged installation		1
4	836 31 50		Connect. hous.unit Dirigo (TM): Combined motor and control system with temperature monitoring Maximum power: 2,20 kW / 3 HP Maximum current: 7,40 A Voltage interval: 200- 240 V For submerged installation		1
4	836 31 51		Connect. hous.unit Dirigo (TM): Combined motor and control system with temperature monitoring Maximum power: 4 kW / 5,50 HP Maximum current: 13,90 A Voltage interval: 200- 240 V For submerged installation		1
4	836 31 12		Connect. hous.unit Dirigo (TM): Combined motor and control system with temperature monitoring Maximum power: 2,20 kW / 3 HP Maximum current: 4,10 A Voltage interval: 380- 480 V For dry installation		1
4	836 31 13		Connect. hous.unit Dirigo (TM): Combined motor and control system with temperature monitoring Maximum power: 4 kW / 5 HP Maximum current: 7,40 A Voltage interval: 380- 480 V For dry installation		1
4	836 31 14		Connect. hous.unit Dirigo (TM): Combined motor and control system with temperature monitoring Maximum power: 5,50 kW / 7,50 HP Maximum current: 9,90 A Voltage interval: 380- 480 V For dry installation		1

Pos. No	Part. No	Type	Denomination	Qty/Version	
				091	181
4	836 31 54		Connect. hous.unit Dirigo (TM): Combined motor and control system with temperature monitoring Maximum power: 2,20 kW / 3 HP Maximum current: 7,40 A Voltage interval: 200- 240 V For dry installation		1
4	836 31 55		Connect. hous.unit Dirigo (TM): Combined motor and control system with temperature monitoring Maximum power: 4 kW / 5 HP Maximum current: 13,90 A Voltage interval: 200- 240 V For dry installation		1
5	80 58 97		Tension pin	1	1
6	82 74 95		O-ring 219.3X5.7 NBR	1	1
7	726 37 00		Caution label	2	2
8	820 22 00		Sticker	4	4
9	82 20 88		Drive screw 4X5-A2/A4	2	2
11	83 48 49		Marking tape	1	
14	630 69 00	(Ex)	Certificate plate EN Parts for EN	2	
14	630 69 01	(Ex)	Certificate plate IECEX Parts for IECEX	2	
14	630 70 00	(Ex)	Certificate plate FM Parts for FM	2	
14	801 03 02		Name plate Parts for CSAEx	1	
22	814 47 00		El.lead through unit	1	1
23	94 19 90		Motor cable subcab S3X2.5+3X2.5/3+S(4X0.5)	*	*
23	813 63 01		Motor cable unit Cable and cable entry SUBCAB S3x2.5+3x2.5/3+S(4x0.5) Length: 16 m Water-cut cable	1	1
23	813 63 02		Motor cable unit WATER CUT Cable and cable entry SUBCAB S3x2.5+3x2.5/3+S(4x0.5) Length: 20 m Water-cut cable	1	1
23	813 63 03		Motor cable unit Cable and cable entry SUBCAB S3x2.5+3x2.5/3+S(4x0.5) Length: 30 m Water-cut cable	1	1
23	94 19 91		Motor cable subcab S3X6+3X6/3+S(4X0.5)	*	*
24	638 27 04	(Ex)	Cable entry unit (18)-20 MM NBR SUBCAB S3x2.5+3x2.5/3+S(4x0.5)	1	1
24	638 27 05	(Ex)	Cable entry unit 20-(22)MM NBR SUBCAB S3x6+3x6/3+S(4x0,5)	1	1
25	573 58 20		Single-core cable	1	1
26	573 58 70		Single-core cable	3	1
26	573 58 70		Single-core cable	1	1
45	83 03 27		Hex.socket hd screw M10X45-A4-70	4	4
47	443 49 00		Sleeve	1	1
48	82 76 85		O-ring 17X3 NBR	6	9
49	642 13 00		Plug	2	3
52	82 74 95		O-ring 219.3X5.7 NBR	1	1

Pos. No	Part. No	Type	Denomination		Qty/Version	
					091	181
64	800 52 00	(Ex)	Impeller unit	Pressure characteristic: LT Material impeller: HI Material insert ring: HI	1	1
64	800 52 20		Impeller unit	Pressure characteristic: LT Material impeller: SS Material insert ring: HI	1	1
64	800 40 00		Impeller unit	Pressure characteristic: MT Material impeller: HI Material insert ring: HI	1	1
64	800 40 20		Impeller unit	Pressure characteristic: MT Material impeller: SS Material insert ring: HI	1	1
64	800 51 00		Impeller unit	Pressure characteristic: HT Material impeller: HI Material insert ring: HI	1	1
64	800 51 20		Impeller unit	Pressure characteristic: HT Material impeller: SS Material insert ring: HI	1	1
67	795 38 00		Pump housing	Pressure Characteristic: LT Outlet diameter: 150 mm Concertor N 150	1	1
67	795 38 01		Pump housing	Pressure Characteristic: LT Outlet diameter: 150 mm Concertor N 150 With drainage plug for dry installation	1	1
67	795 35 00		Pump housing	Pressure Characteristic: MT Outlet diameter: 100 mm Concertor N 100	1	1
67	795 35 01		Pump housing	Pressure Characteristic: MT Outlet diameter: 100 mm Concertor N 100 With drainage plug for dry installation	1	1
67	795 32 00		Pump housing	Pressure Characteristic: HT Outlet diameter: 80 mm Concertor N 80	1	1
67	795 32 01		Pump housing	Pressure Characteristic: HT Outlet diameter: 80 mm Concertor N 80 With drainage plug for dry installation	1	1
80	82 97 70		Cap 20X36 MM PVC	SUBCAB S3x2.5+3x2.5/3+S(4x0.5)	1	1
80	82 97 72		Cap 22X45 MM PVC	SUBCAB S3x6+3x6/3+S(4x0,5)	1	1
129	797 45 01		Seal housing cover		1	
129	797 45 00		Seal housing cover			1
135	80 14 41		Gasket		1	1
136	80 14 39		Plug		1	1
141	769 87 35		Mechanical seal	Material inner seal: Cemented carbide (WCCR) - Cemented carbide (WCCR) Material outer seal: Cemented carbide (WCCR) - Cemented carbide (WCCR)	1	1

Pos. No	Part. No	Type	Denomination	Qty/Version	
				091	181
141	769 87 36		Mechanical seal Material inner seal: Cemented carbide (WCCR) - Cemented carbide (WCCR) Material outer seal: Silicone carbide (RSiC) - Silicone carbide (RSiC)	1	1
166	791 48 03		Connection plate	1	1
169	667 40 00		Sticker	2	2
230	828 50 00		Washer	2	2
231	84 45 45		Stud	2	2
232	797 67 01	(Ex)	Entrance flange For dry installation	1	
232	397 81 00	(Ex)	Gland screw Pr 37 For submerged installation		1
234	81 48 28		Hexagon head screw M6X20-A4-70	1	1
235	83 43 58		Cable lug UL/CSA 1.04-2.62 MM2 M6	2	2
235	83 43 58		Cable lug UL/CSA 1.04-2.62 MM2 M6	1	1
236	83 42 65		Terminal block 600V/20A UL	1	
236	83 42 67		Terminal block 600V/20A UL	1	1
237	82 23 31		Hexagon nut M6-A4-70	3	3
238	83 43 59		Cable lug UL/CSA 2.62-6.64 MM2 M6	1	1
239	82 00 30		Hex.socket hd screw M8X16-A2-70	1	
241	83 95 06		Electrical filter	2	2
243	83 04 48		Hex.socket hd screw M8X20-A4-80	8	
243	83 03 02		Hex.socket hd screw M8X30-A4-70		2
247	81 78 98		O-ring 61.91X3.53 NBR	1	1
300	812 93 00		Lifting device unit		1
800	85 02 57		O-ring kits	1	0
900	810 97 00		Basic repair kit	1	0
900,63	782 72 02		Clamping sleeve	1	1
900,70	338 13 11		Plain washer 10.5X23.5X4	1	1
900,72	83 03 27		Hex.socket hd screw M10X45-A4-70	1	1
900,250	82 59 03		Retaining ring SGA 35	1	1
901	90 17 52		Oil ISO VG 32	*	*
905	801 24 00		Motor unit		1
905,30	797 48 00		Cooling jacket CAST IRON		1



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