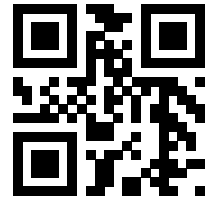


WS003935A



8X5 LV

805/815, 835/845, 865/875, 885/895

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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

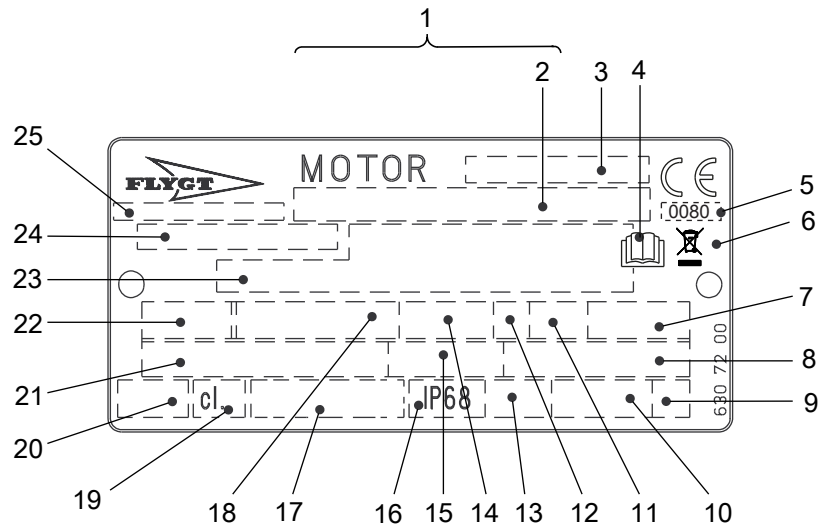
Spare parts marked with (Ex) after the part number are subject to dimensional accuracy inspection when used in specially approved products.

2 Product Description

2.1 The data plates

The data plates include key product specifications.

Drive unit

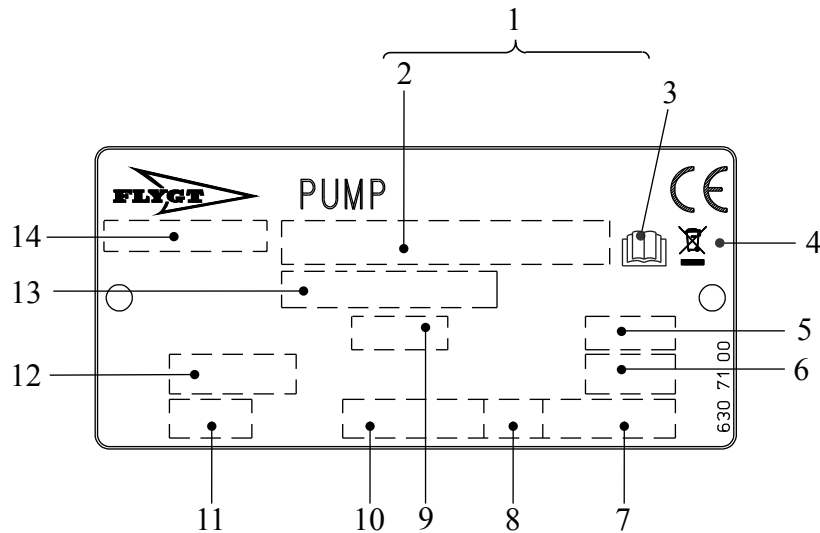


1. Serial number
2. Product code and number
3. Motor denomination
4. Read installation manual
5. Notified body, only for EN-approved Ex products
6. WEEE-Directive symbol
7. Maximum ambient temperature
8. Power factor
9. Locked rotor code letter
10. Product weight
11. Duty factor
12. Duty class
13. Maximum 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

WS006226B

Hydraulic unit



W5006230B

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

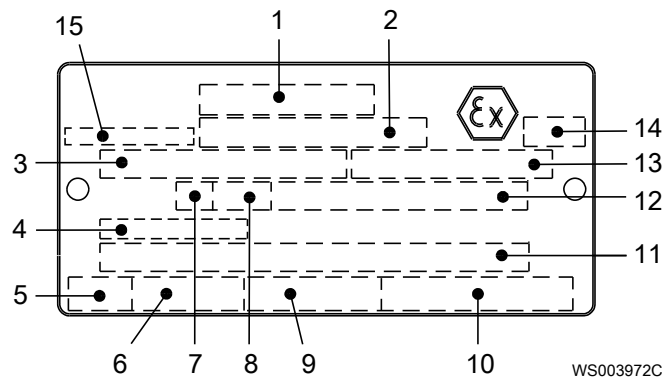
Product approvals for hazardous locations

Table 1: Product approvals

| Drive Unit | European Norm (EN) | IEC | FM (FM Approvals) | CSA Ex |
|------------|---|--|--|---|
| 815 | <ul style="list-style-type: none"> • ATEX Directive • EN 60079-0:2012/A11:2013, EN 60079-1:2014, EN ISO 80079-36:2016, EN ISO 80079-37:2016 • II 2 G Ex db h IIB T3 Gb | <ul style="list-style-type: none"> • IECEx scheme • IEC 60079-0:2011, IEC 60079-1:2014; IEC 80079-36:2016; IEC 80079-37:2016 • Ex db h IIB T3 Gb | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Explosion proof for use in Class I, Div. 1, Group C and D |
| 845 | | | | |
| 872 | | | | |
| 875 | | | | |
| 892 | | | | |
| 895 | | | | |

EN approval plate

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

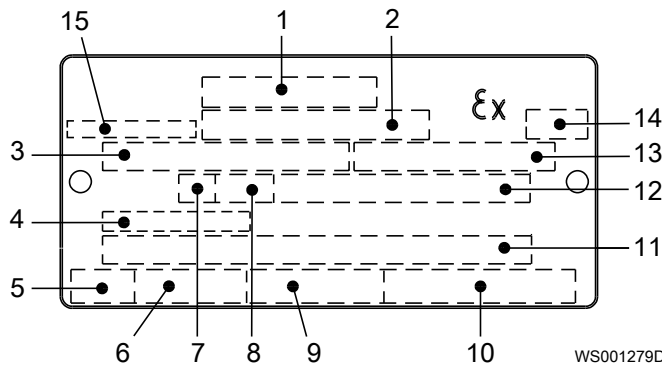


1. Approval
2. Approval authority and Approval number
3. Approved drive unit
4. Cable entry temperature
5. Stall time
6. Starting current or Rated current
7. Duty class
8. Duty factor
9. Input power
10. Rated speed
11. Additional information
12. Maximum ambient temperature
13. Serial number
14. ATEX marking
15. Country of origin

IEC approval plate

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

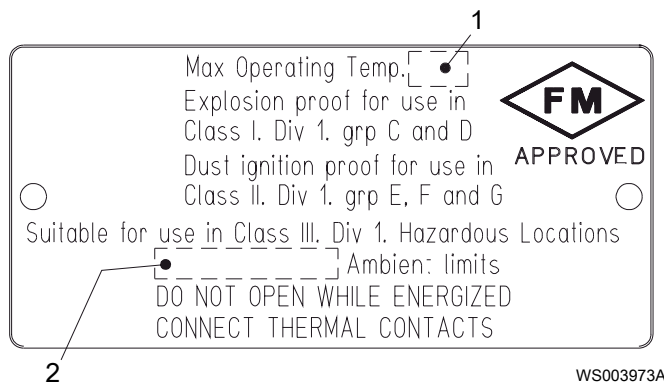
International Norm; not for EU member countries.



1. Approval
2. Approval authority and Approval number
3. Approved drive unit
4. Cable entry temperature
5. Stall time
6. Starting current or Rated current
7. Duty class
8. Duty factor
9. Input power
10. Rated speed
11. Additional information
12. Maximum ambient temperature
13. Serial number
14. ATEX marking
15. Country of origin

FM approval plate

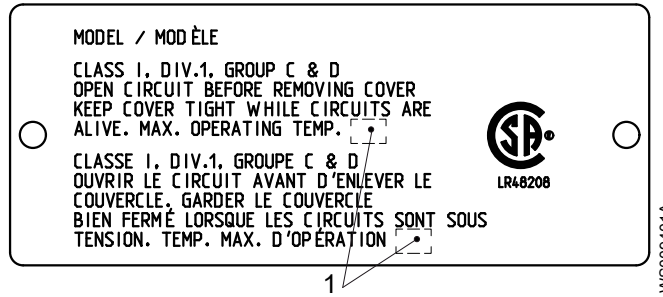
This illustration describes the FM approval plate and the information that is contained in its fields.



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

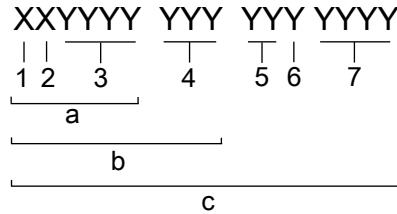
In this section, code characters are illustrated accordingly:

X = letter

Y = digit

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

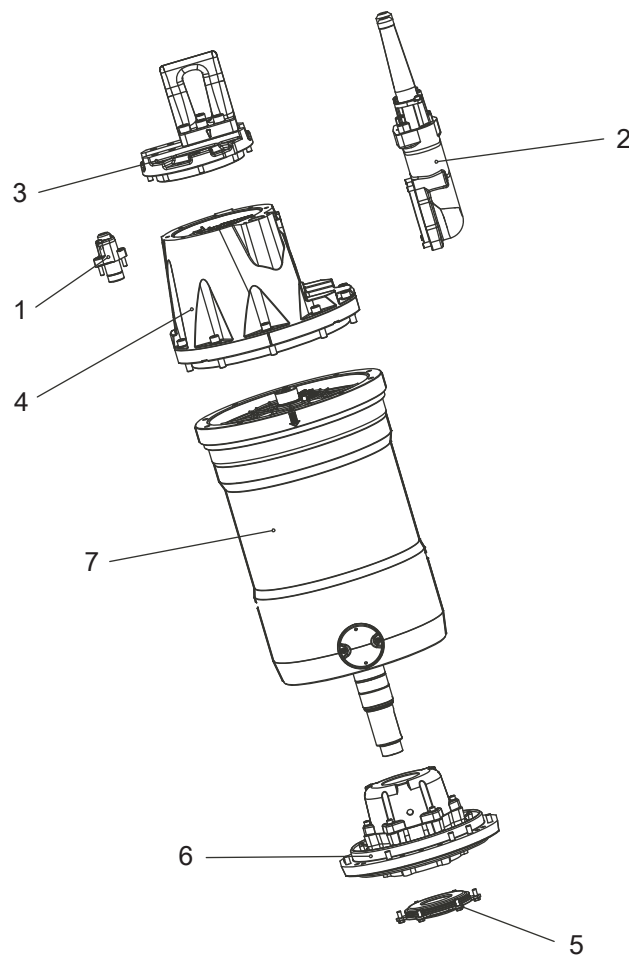
Codes and parameters



| 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 | Drive unit |
| | 5 | Production year |
| | 6 | Production cycle |
| | 7 | Running number |

3 Major Parts

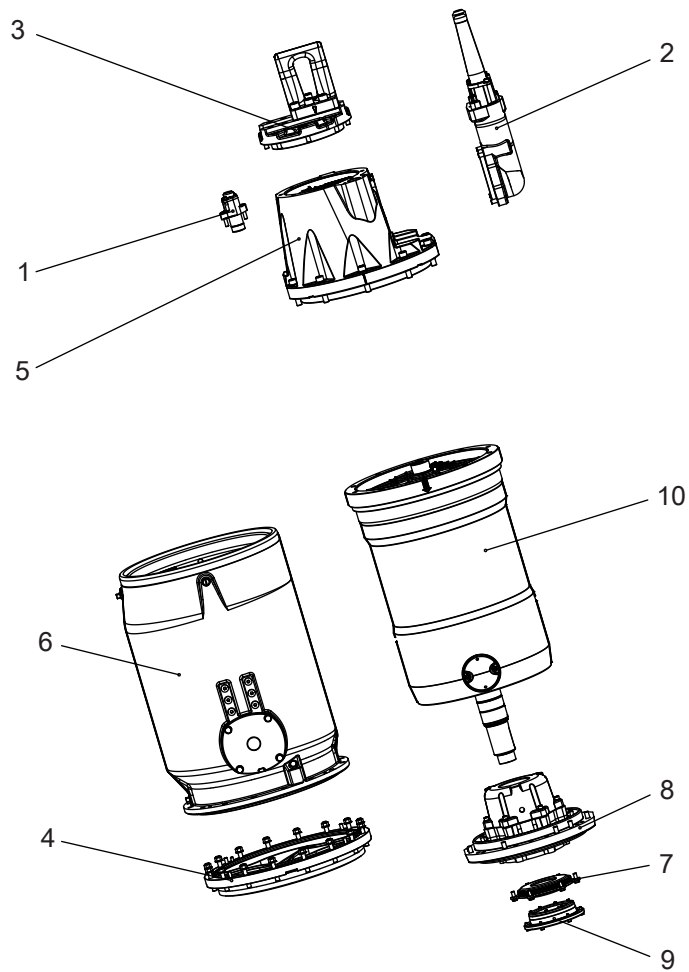
3.1 P-, L-, and gear pumps



WS003932A

| Item | Description | Reference |
|------|------------------------|---|
| 1 | Entrance unit, control | Control cable on page 79 |
| 2 | Entrance unit, power | Power cable on page 70 |
| 3 | Lifting handle | Lifting Handle on page 63 |
| 4 | Connection housing | Large Connection House on page 58 |
| 5 | Inner seal | Mechanical Shaft Seals on page 42 |
| 6 | Main bearing holder | Bearings on page 25 |
| 7 | Stator housing | Stator Housing on page 12 |

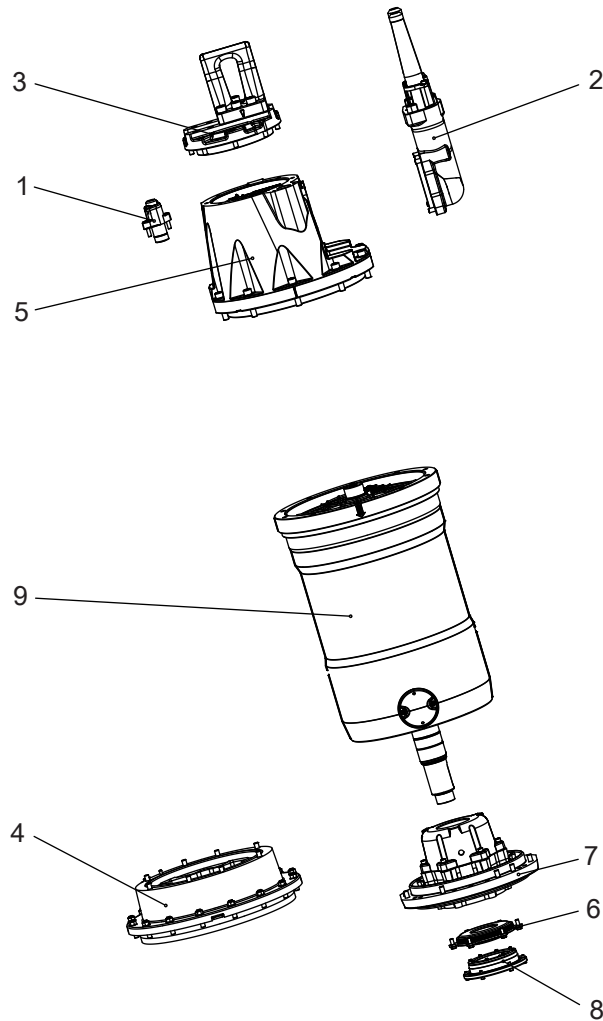
3.2 C- and N-pumps with cooling jacket



WS003933A

| Item | Description | Reference |
|------|------------------------|---|
| 1 | Entrance unit, control | Control cable on page 79 |
| 2 | Entrance unit, power | Power cable on page 70 |
| 3 | Lifting handle | Lifting Handle on page 63 |
| 4 | Adapter | Adapters on page 49 |
| 5 | Connection housing | Large Connection House on page 58 |
| 6 | Cooling jacket | Cooling Jacket on page 44 |
| 7 | Inner seal | Mechanical Shaft Seals on page 42 |
| 8 | Main bearing holder | Bearings on page 25 |
| 9 | Outer seal | Mechanical Shaft Seals on page 42 |
| 10 | Stator housing | Stator Housing on page 12 |

3.3 C- and N-pumps without cooling jacket



WS003934A

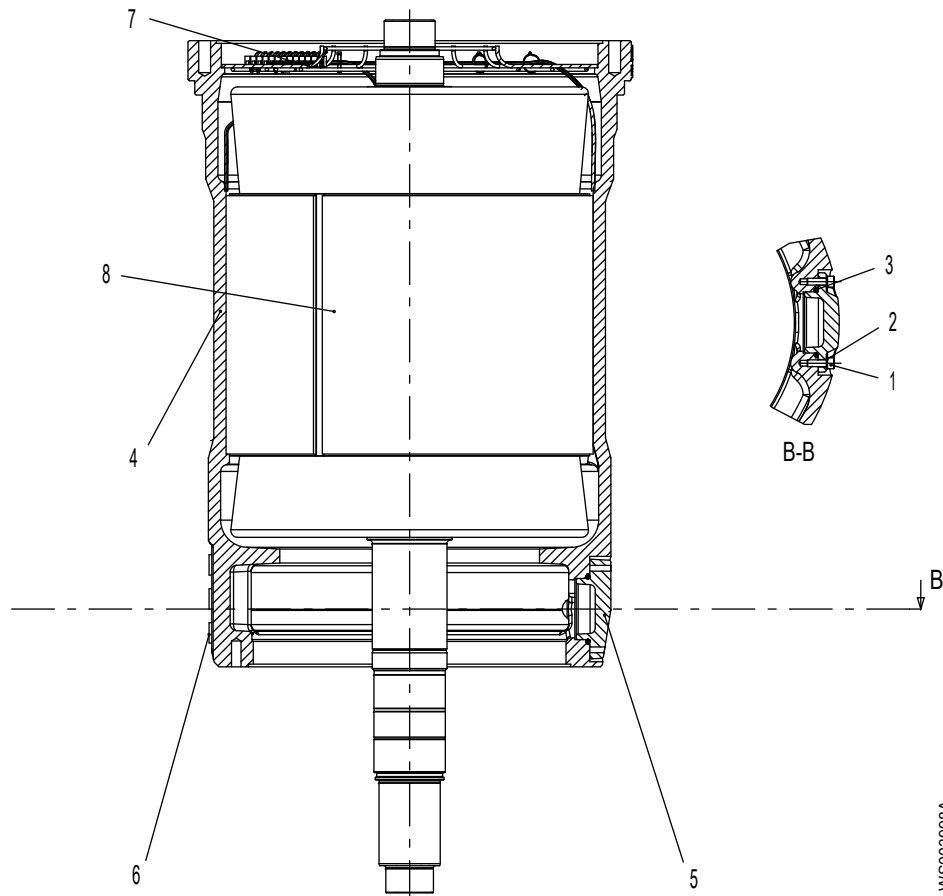
| Item | Description | Reference |
|------|------------------------|---|
| 1 | Entrance unit, control | Control cable on page 79 |
| 2 | Entrance unit, power | Power cable on page 70 |
| 3 | Lifting handle | Lifting Handle on page 63 |
| 4 | Adapter | Adapters on page 49 |
| 5 | Connection housing | Large Connection House on page 58 |
| 6 | Inner seal | Mechanical Shaft Seals on page 42 |
| 7 | Main bearing holder | Bearings on page 25 |
| 8 | Outer seal | Mechanical Shaft Seals on page 42 |
| 9 | Stator housing | Stator Housing on page 12 |

4 Stator Housing

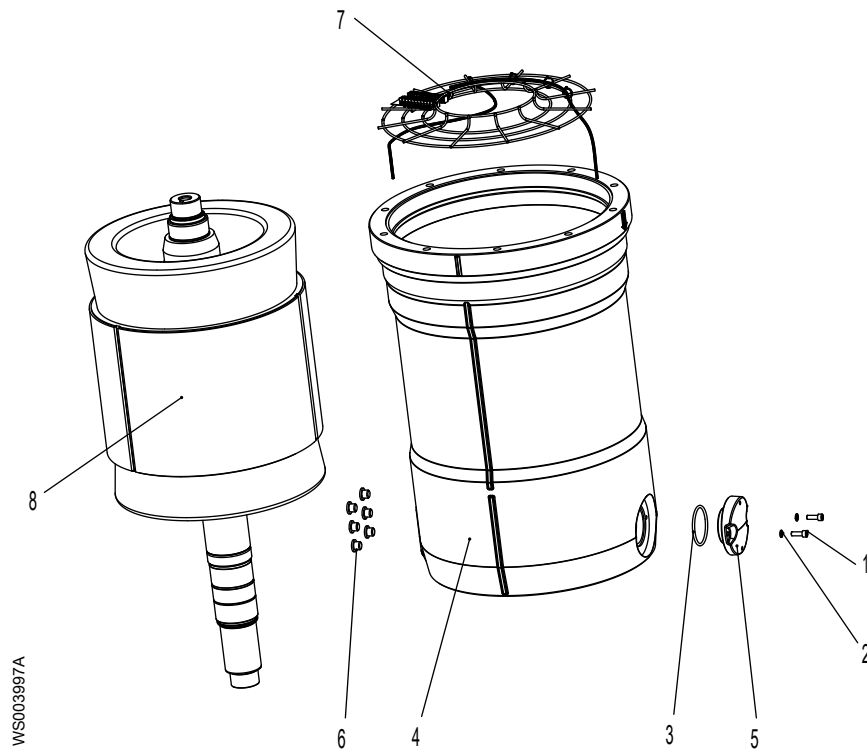
4.1 Overview

| Drive Unit | Standard (STD) or Specially-approved (EX) | Stator House Length | Voltage |
|------------|---|---------------------|---------|
| 805 | STD | Short | Low |
| 815 | EX | Short | Low |
| 835 | STD | Medium | Low |
| 845 | EX | Medium | Low |
| 865 | STD | Long | Low |
| 875 | EX | Long | Low |
| 862 | STD | Long | Medium |
| 872 | EX | Long | Medium |
| 885 | STD | Extra long | Low |
| 895 | EX | Extra long | Low |
| 882 | STD | Extra long | Medium |
| 892 | EX | Extra long | Medium |

4.2 805, 815



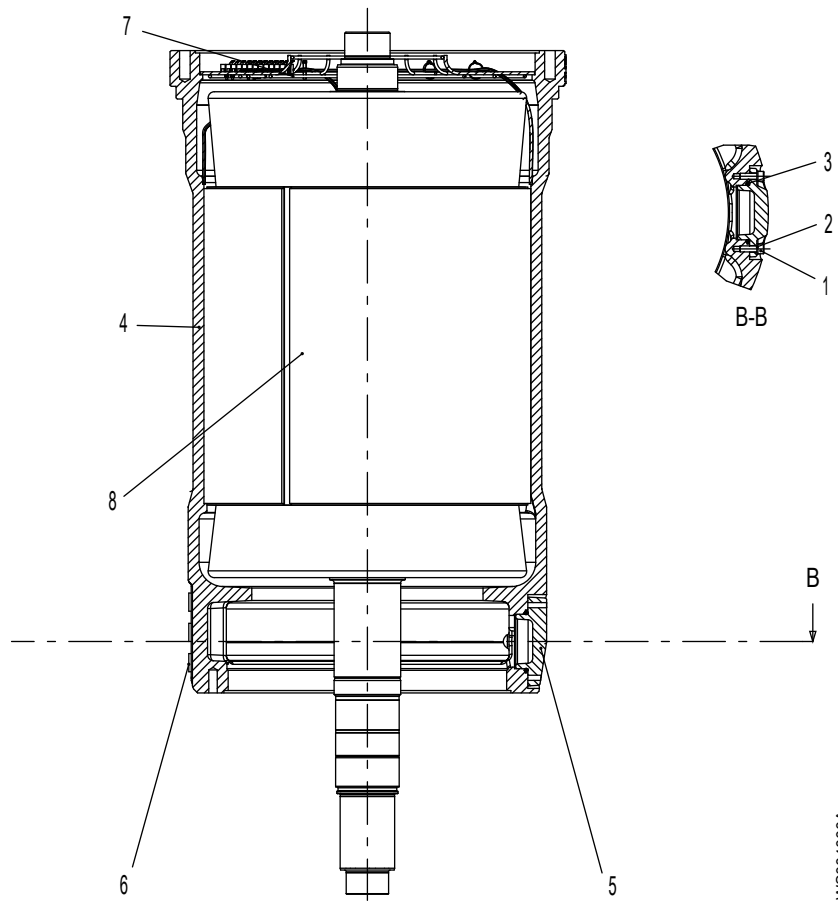
WS003988A



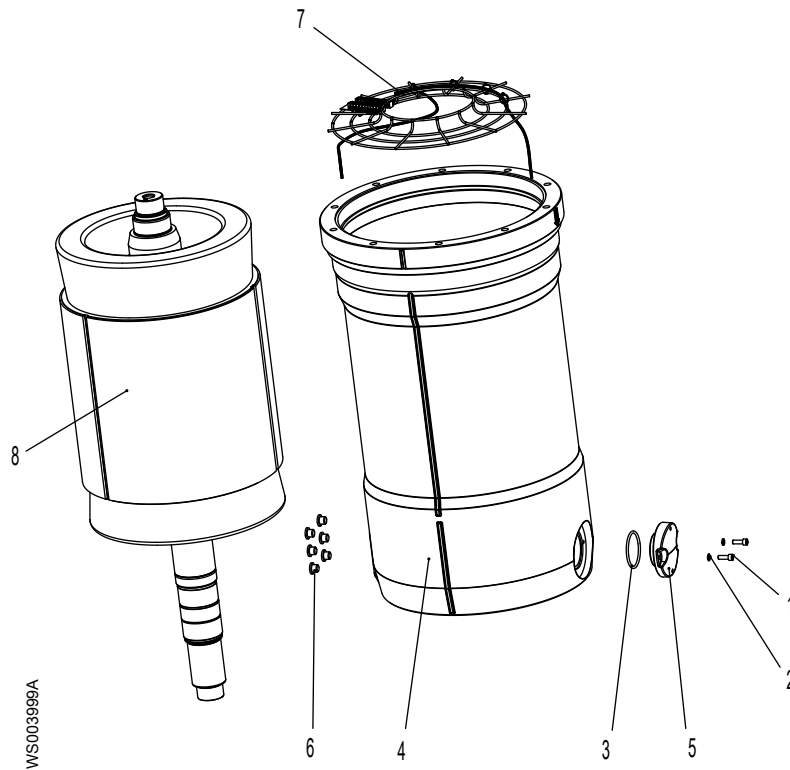
Spare parts marked with “EX” after the part number are subject to dimensional accuracy inspection.

| Item | Denomination | Part No. STD-units | Part No. EX-units | Qty. |
|------|--|--|----------------------|------|
| 1 | Hexagon socket head cap screw M10 x 30 | 82 00 52 | 82 00 52 | 2 |
| 2 | Lock washer | 82 50 16 | 82 50 16 | 2 |
| 3 | O-ring 89.1 x 5.7 | 82 74 10 | 82 74 10 | 1 |
| 4 | Stator housing | 570 98 00 | 570 98 01 (EX) | 1 |
| 5 | Cover | 575 67 00 | 575 67 01 (EX) | 1 |
| 6 | Plug | 679 17 00 | 679 17 00 | 6 |
| 7 | Electrical components monitoring, stator housing | See In stator housing on page 108. | | |
| 8 | Motor | See Motors on page 20. | | |

4.3 835, 845



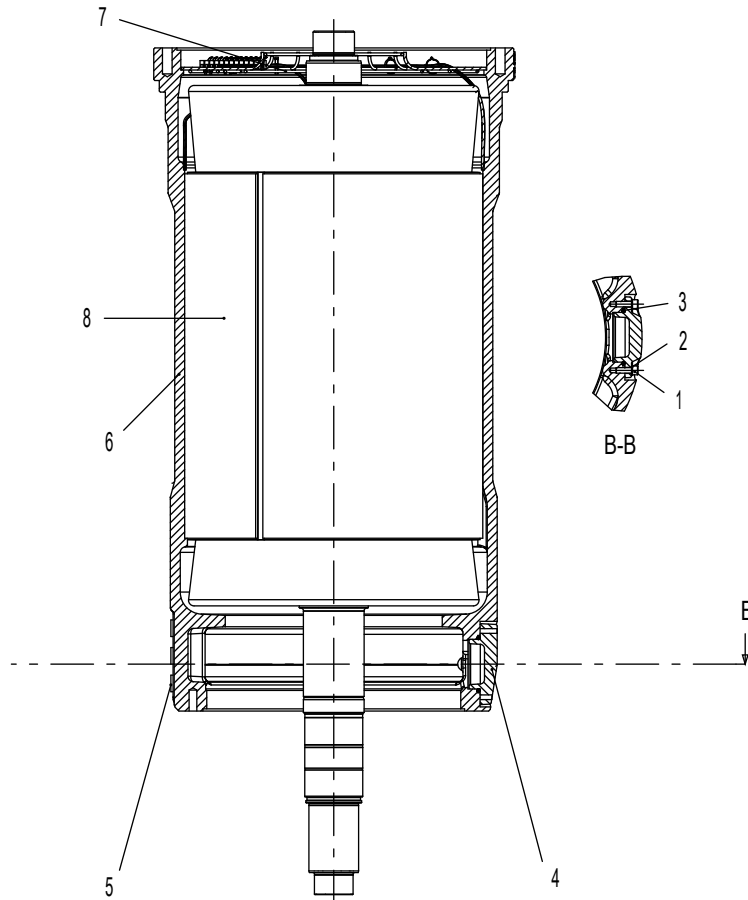
WS004000A



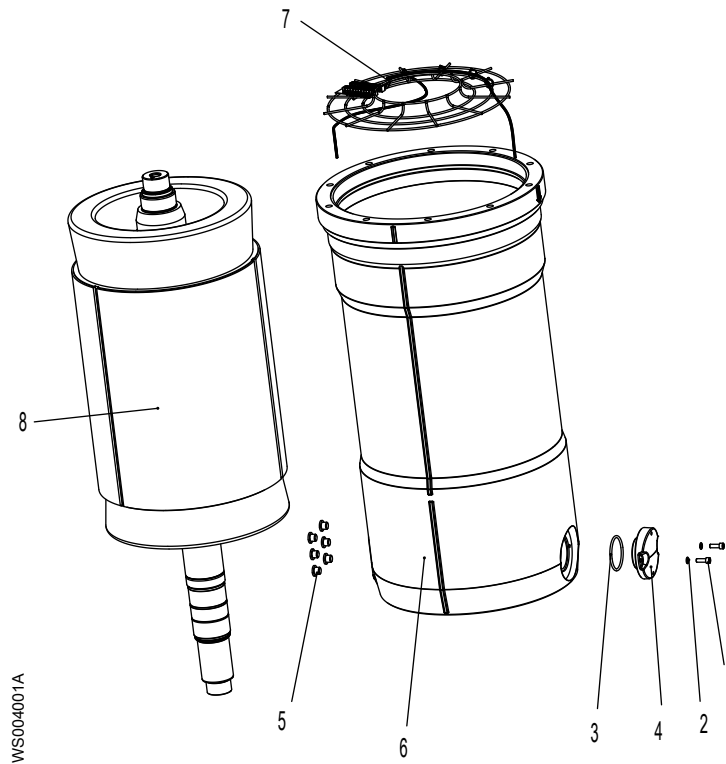
Spare parts marked with “EX” after the part number are subject to dimensional accuracy inspection.

| Item | Denomination | Part No. STD-units | Part No. EX-units | Qty. |
|------|--|---|----------------------|------|
| 1 | Hexagon socket head cap screw M10 x 30 | 82 00 52 | 82 00 52 | 2 |
| 2 | Lock washer | 82 50 16 | 82 50 16 | 2 |
| 3 | O-ring 89.1 x 5.7 | 82 74 10 | 82 74 10 | 1 |
| 4 | Stator housing | 570 97 00 | 570 97 01 (EX) | 1 |
| 5 | Cover | 575 67 00 | 575 67 01 (EX) | 1 |
| 6 | Plug | 679 17 00 | 679 17 00 | 6 |
| 7 | Electrical components monitoring, stator housing | See <i>In stator housing</i> on page 108. | | |
| 8 | Motor | See <i>Motors</i> on page 20. | | |

4.4 865, 875



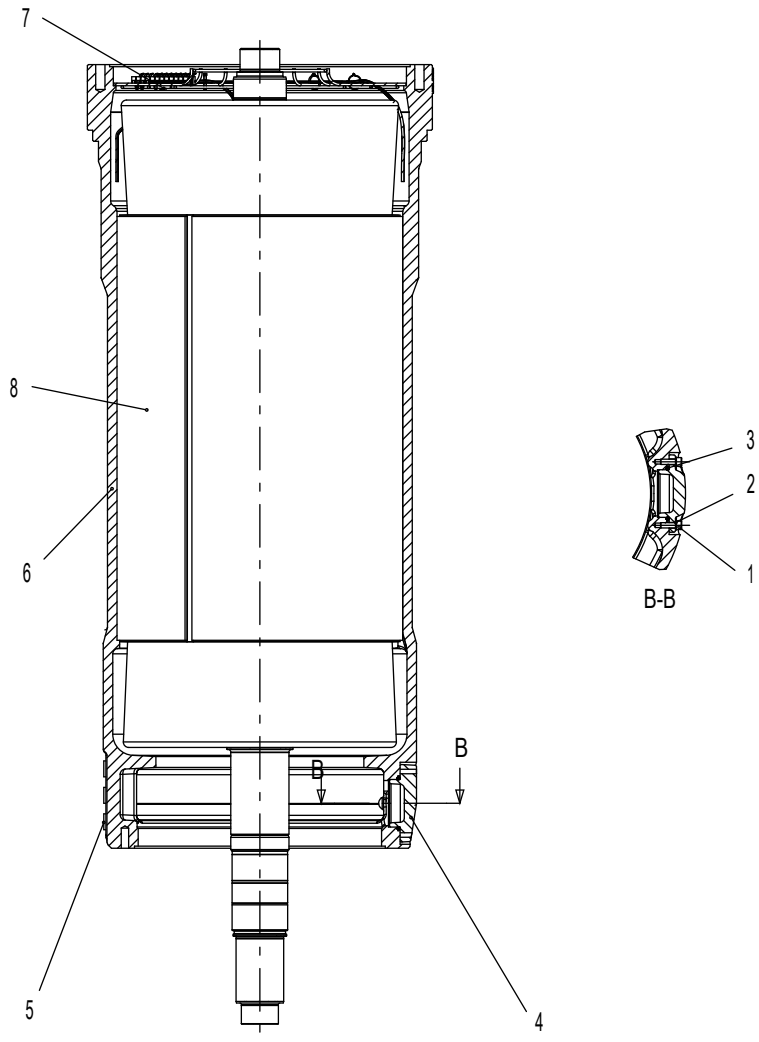
WS004002A



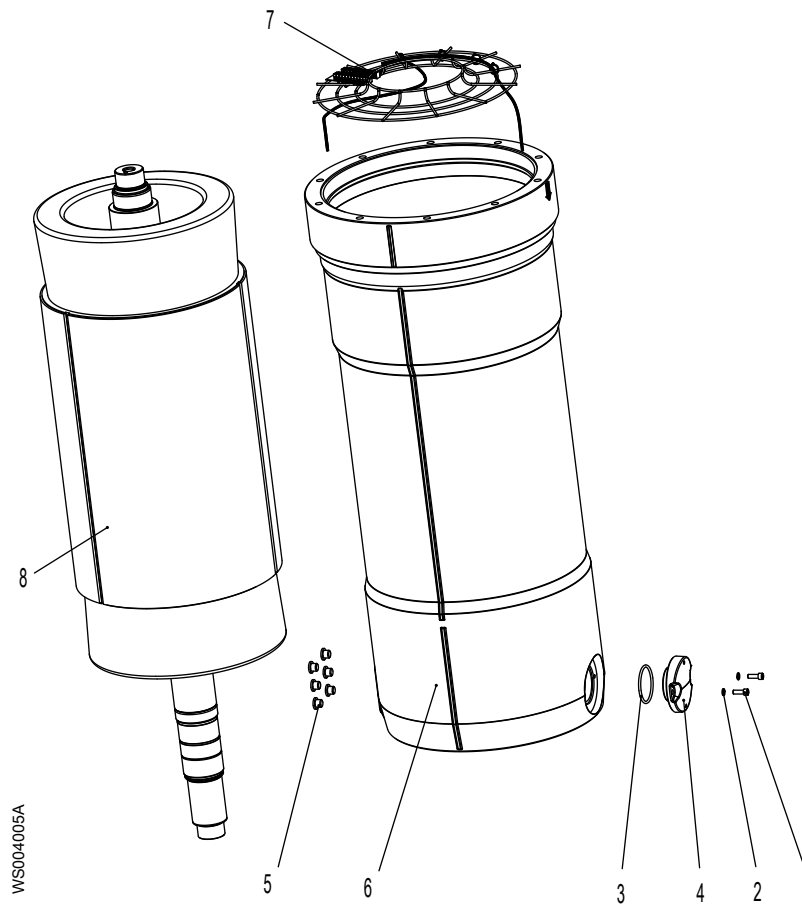
Spare parts marked with “EX” after the part number are subject to dimensional accuracy inspection.

| Item | Denomination | Part No. STD-units | Part No. EX-units | Qty. |
|------|--|--|----------------------|------|
| 1 | Hexagon socket head cap screw M10 x 30 | 82 00 52 | 82 00 52 | 2 |
| 2 | Lock washer | 82 50 16 | 82 50 16 | 2 |
| 3 | O-ring 89.1 x 5.7 | 82 74 10 | 82 74 10 | 1 |
| 4 | Cover | 575 67 00 | 575 67 01 (EX) | 1 |
| 5 | Plug | 679 17 00 | 679 17 00 | 6 |
| 6 | Stator housing | 719 82 00 | 719 82 01 (EX) | 1 |
| 7 | Electrical components monitoring, stator housing | See In stator housing on page 108. | | |
| 8 | Motor | See Motors on page 20. | | |

4.5 885, 895



WS004006A



Spare parts marked with “EX” after the part number are subject to dimensional accuracy inspection.

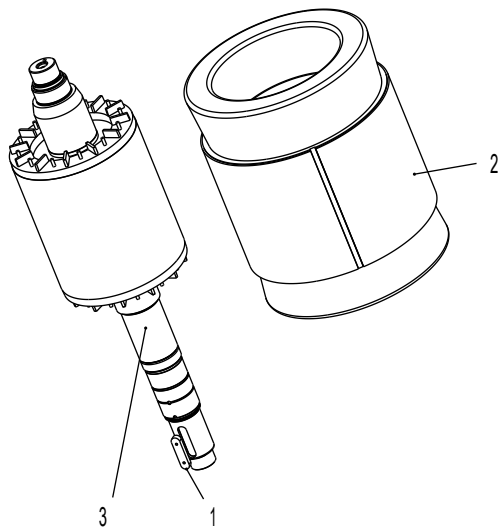
| Item | Denomination | Part No. STD-units | Part No. EX-units | Qty. |
|------|---|--|----------------------|------|
| 1 | Hexagon socket head cap screw M10 x 30 | 82 00 52 | 82 00 52 | 2 |
| 2 | Lock washer | 82 50 16 | 82 50 16 | 2 |
| 3 | O-ring 89.1 x 5.7 | 82 74 10 | 82 74 10 | 1 |
| 4 | Cover | 575 67 00 | 575 67 01 (EX) | 1 |
| 5 | Plug | 679 17 00 | 679 17 00 | 6 |
| 6 | Stator housing | 719 81 00 | 719 81 01 (EX) | 1 |
| 7 | Electrical components monitoring stator housing | See In stator housing on page 108. | | |
| 8 | Motor | See Motors on page 20. | | |

5 Motors

5.1 805, 815

Sensors are not included. For sensor part numbers, see [Monitoring and Sensors](#) on page 108.

For stator part numbers, the last two digits are shown as XX. These depend on the rated voltage. See the data plate.



WS004026A

| Item | Denomination | Qty. |
|------|---------------|------|
| 1 | Key 25x14x100 | 1 |
| 2 | Stator | 1 |
| 3 | Shaft unit | 1 |

Parts marked with ** are for gear box

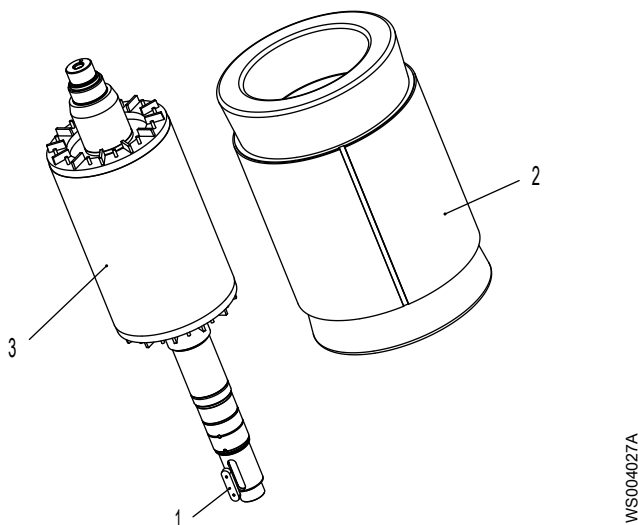
| Motor | Part No. Key | Part No. Stator | Part No. Shaft Unit | Shaft Material |
|--------------|-----------------|--------------------|------------------------|-----------------------------|
| 54-38-4AA ** | 80 46 41 | 573 26 XX | 573 79 01 | Martensitic stainless steel |
| 54-38-4AA | 80 79 00 | 573 26 XX | 684 07 00 | Martensitic stainless steel |
| 54-38-4AA | 80 79 00 | 573 26 XX | 684 07 01 | Duplex stainless steel |
| 54-38-6AA ** | 80 46 41 | 573 29 XX | 573 79 07 | Martensitic stainless steel |
| 54-38-6AA | 80 46 41 | 573 29 XX | 573 80 37 | Martensitic stainless steel |
| 54-38-6AA | 80 71 96 | 573 29 XX | 573 80 38 | Duplex stainless steel |
| 54-38-8AA | 80 46 41 | 573 30 XX | 573 80 21 | Martensitic stainless steel |
| 54-38-8AA | 80 71 96 | 573 30 XX | 573 80 22 | Duplex stainless steel |
| 54-38-10AA | 80 46 41 | 573 35 XX | 573 80 21 | Martensitic stainless steel |
| 54-38-10AA | 80 71 96 | 573 35 XX | 573 80 22 | Duplex stainless steel |

| Motor | Part No. Key | Part No. Stator | Part No. Shaft Unit | Shaft Material |
|------------|-----------------|--------------------|------------------------|-----------------------------|
| 54-38-12AA | 80 46 41 | 573 36 XX | 573 80 21 | Martensitic stainless steel |
| 54-38-12AA | 80 71 96 | 573 36 XX | 573 80 22 | Duplex stainless steel |
| 54-38-14AA | 80 46 41 | 573 37 XX | 573 80 33 | Martensitic stainless steel |
| 54-38-14AA | 80 71 96 | 573 37 XX | 573 80 34 | Duplex stainless steel |
| 54-38-12UA | 80 46 41 | 701 92 XX | 573 80 21 | Martensitic stainless steel |
| 54-38-12UA | 80 71 96 | 701 92 XX | 573 80 22 | Duplex stainless steel |
| 54-38-14UA | 80 46 41 | 701 93 XX | 573 80 33 | Martensitic stainless steel |
| 54-38-14UA | 80 71 96 | 701 93 XX | 573 80 34 | Duplex stainless steel |

5.2 835, 845

Sensors are not included. For sensor part numbers, see [Monitoring and Sensors](#) on page 108.

For stator part numbers, the last two digits are shown as XX. These depend on the rated voltage. See the data plate.



| Item | Denomination | Qty. |
|------|---------------|------|
| 1 | Key 25x14x100 | 1 |
| 2 | Stator | 1 |
| 3 | Shaft unit | 1 |

Parts marked with ** are for gear box.

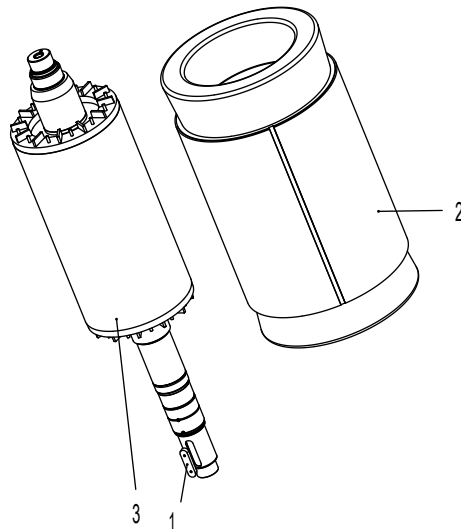
| Motor | Part No. Key | Part No. Stator | Part No. Shaft Unit | Shaft Material |
|--------------|-----------------|--------------------|------------------------|-----------------------------|
| 54-52-4AA ** | 80 46 41 | 573 27 XX | 573 79 03 | Martensitic stainless steel |
| 54-52-4AA | 80 79 00 | 573 27 XX | 684 07 02 | Martensitic stainless steel |
| 54-52-4AA | 80 79 00 | 573 27 XX | 684 07 03 | Duplex stainless steel |

| Motor | Part No. Key | Part No. Stator | Part No. Shaft Unit | Shaft Material |
|--------------|-----------------|--------------------|------------------------|-----------------------------|
| 54-52-6AA ** | 80 46 41 | 573 31 XX | 573 79 11 | Martensitic stainless steel |
| 54-52-6AA | 80 46 41 | 573 31 XX | 573 80 01 | Martensitic stainless steel |
| 54-52-6AA | 80 71 96 | 573 31 XX | 573 80 02 | Duplex stainless steel |
| 54-52-8AA | 80 46 41 | 573 32 XX | 573 80 13 | Martensitic stainless steel |
| 54-52-8AA | 80 71 96 | 573 32 XX | 573 80 14 | Duplex stainless steel |
| 54-52-10AA | 80 46 41 | 573 38 XX | 573 80 13 | Martensitic stainless steel |
| 54-52-10AA | 80 71 96 | 573 38 XX | 573 80 14 | Duplex stainless steel |
| 54-52-12AA | 80 46 41 | 573 39 XX | 573 80 13 | Martensitic stainless steel |
| 54-52-12AA | 80 71 96 | 573 39 XX | 573 80 14 | Duplex stainless steel |
| 54-52-14AA | 80 46 41 | 573 40 XX | 573 80 25 | Martensitic stainless steel |
| 54-52-14AA | 80 71 96 | 573 40 XX | 573 80 26 | Duplex stainless steel |
| 54-52-10UA | 80 46 41 | 701 07 XX | 573 80 13 | Martensitic stainless steel |
| 54-52-10UA | 80 71 96 | 701 07 XX | 573 80 14 | Duplex stainless steel |
| 54-52-12UA | 80 46 41 | 696 28 XX | 573 80 13 | Martensitic stainless steel |
| 54-52-12UA | 80 71 96 | 696 28 XX | 573 80 14 | Duplex stainless steel |
| 54-52-14UA | 80 46 41 | 701 94 XX | 573 80 25 | Martensitic stainless steel |
| 54-52-14UA | 80 71 96 | 701 94 XX | 573 80 26 | Duplex stainless steel |

5.3 865, 875

Sensors are not included. For sensor part numbers, see [Monitoring and Sensors](#) on page 108.

For stator part numbers, the last two digits are shown as XX. These depend on the rated voltage. See the data plate.



WS004028A

| Item | Denomination | Qty. |
|------|---------------|------|
| 1 | Key 25x14x100 | 1 |
| 2 | Stator | 1 |
| 3 | Shaft unit | 1 |

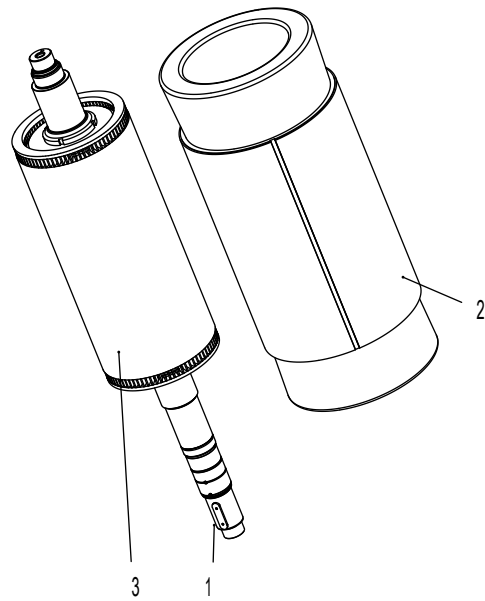
Parts marked with ** are for gear box

| Motor | Part No. Key | Part No. Stator | Part No. Shaft Unit | Shaft Material |
|--------------|-----------------|--------------------|------------------------|-----------------------------|
| 54-66-4AA ** | 80 46 41 | 573 28 XX | 573 79 05 | Martensitic stainless steel |
| 54-66-4AA | 80 79 00 | 573 28 XX | 684 07 04 | Martensitic stainless steel |
| 54-66-4AA | 80 79 00 | 573 28 XX | 684 07 05 | Duplex stainless steel |
| 54-66-6AA ** | 80 46 41 | 573 33 XX | 573 79 13 | Martensitic stainless steel |
| 54-66-6AA | 80 46 41 | 573 33 XX | 573 80 05 | Martensitic stainless steel |
| 54-66-6AA | 80 71 96 | 573 33 XX | 573 80 06 | Duplex stainless steel |
| 54-66-8AA | 80 46 41 | 573 34 XX | 573 80 17 | Martensitic stainless steel |
| 54-66-8AA | 80 71 96 | 573 34 XX | 573 80 18 | Duplex stainless steel |
| 54-66-10AA | 80 46 41 | 573 41 XX | 573 80 17 | Martensitic stainless steel |
| 54-66-10AA | 80 71 96 | 573 41 XX | 573 80 18 | Duplex stainless steel |
| 54-66-12AA | 80 46 41 | 573 42 XX | 573 80 17 | Martensitic stainless steel |
| 54-66-12AA | 80 71 96 | 573 42 XX | 573 80 18 | Duplex stainless steel |
| 54-66-14AA | 80 46 41 | 573 43 XX | 573 80 29 | Martensitic stainless steel |
| 54-66-14AA | 80 71 96 | 573 43 XX | 573 80 30 | Duplex stainless steel |
| 54-66-12UA | 80 46 41 | 701 95 XX | 573 80 17 | Martensitic stainless steel |
| 54-66-12UA | 80 71 96 | 701 95 XX | 573 80 18 | Duplex stainless steel |

5.4 885, 895

Sensors are not included. For sensor part numbers, see [Monitoring and Sensors](#) on page 108.

For stator part numbers, the last two digits are shown as XX. These depend on the rated voltage. See the data plate.



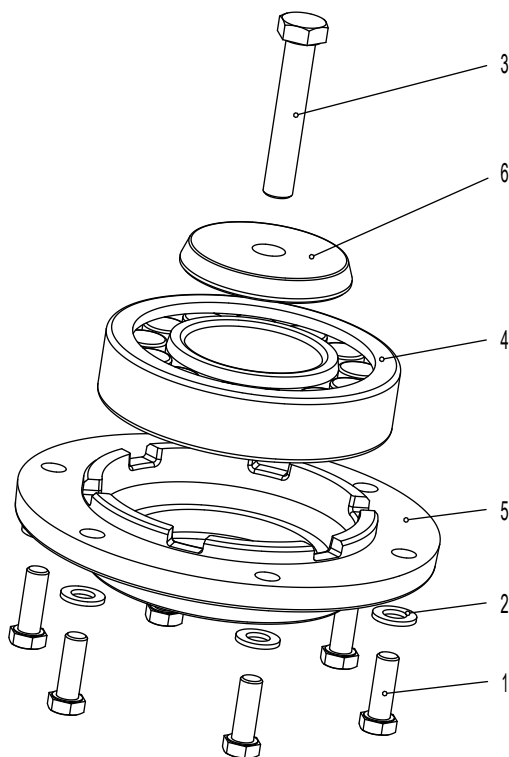
WS004029A

| Item | Denomination | Qty. |
|------|---------------|------|
| 1 | Key 25x14x100 | 1 |
| 2 | Stator | 1 |
| 3 | Shaft unit | 1 |

| Motor | Part No. Key | Part No. Stator | Part No. Shaft Unit | Shaft Material |
|------------|-----------------|--------------------|------------------------|-----------------------------|
| 54-80-8AD | 80 79 00 | 726 45 XX | 720 40 04 | Martensitic stainless steel |
| 54-80-8AD | 80 79 00 | 726 45 XX | 720 40 05 | Duplex stainless steel |
| 54-80-10AD | 80 79 00 | 726 46 XX | 720 40 06 | Martensitic stainless steel |
| 54-80-10AD | 80 79 00 | 726 46 XX | 720 40 07 | Duplex stainless steel |
| 54-80-12AD | 80 79 00 | 726 47 XX | 720 40 06 | Martensitic stainless steel |
| 54-80-12AD | 80 79 00 | 726 47 XX | 720 40 07 | Duplex stainless steel |

6 Bearings

6.1 Support bearing



WS004021A

| Item | Denomination | | Part No. | Qty. |
|------|--------------------|---------------------|-----------|------|
| 1 | Hexagon head screw | M12 x 35 | 81 41 56 | 6 |
| 2 | Washer, thick | M12 | 82 35 20 | 6 |
| 3 | Hexagon head screw | M16 x 90 | 84 34 12 | 1 |
| 4 | Roller bearing | Standard | 84 53 75 | 1 |
| | | Optional: Insulated | 83 34 65 | |
| 5 | Bearing cover | | 517 84 01 | 1 |
| 6 | Washer | | 570 80 00 | 1 |

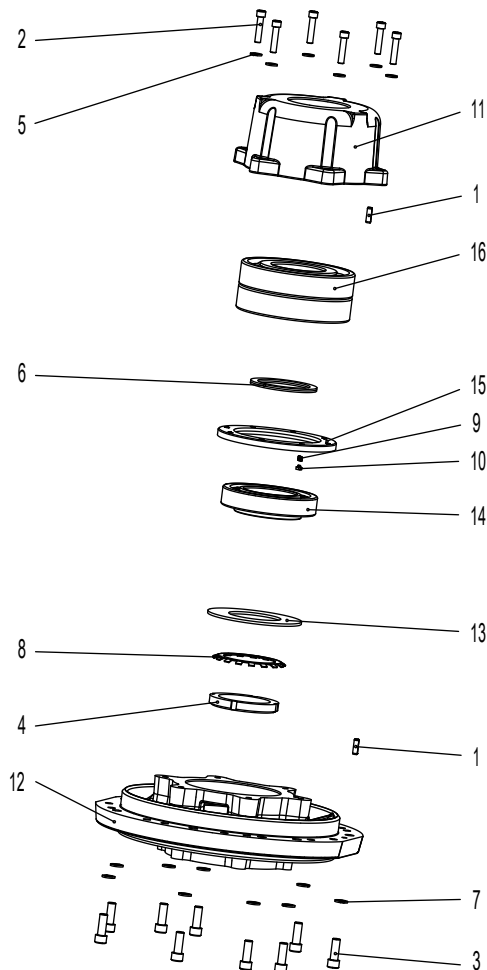
6.2 Main bearing

| Drive Units | Bearing Arrangement | Installation | Pumps | CLS | Reference |
|-------------|------------------------|------------------------|-------|--|---|
| 805-875 | Tandem | Vertical | P, L | No | Vertical P-, L-pumps: Tandem arrangement on page 26 |
| | | | | Yes | Vertical P-, L-pumps: Tandem arrangement with CLS on page 28 |
| | X | Vertical or horizontal | C, N | No | C- and N-pumps and horizontal P-pumps: X-arrangement on page 30 |
| | | | | P | No |
| X | Vertical or horizontal | C, N | Yes | C- and N-pumps and horizontal P-pumps: X-arrangement with CLS on page 31 | |

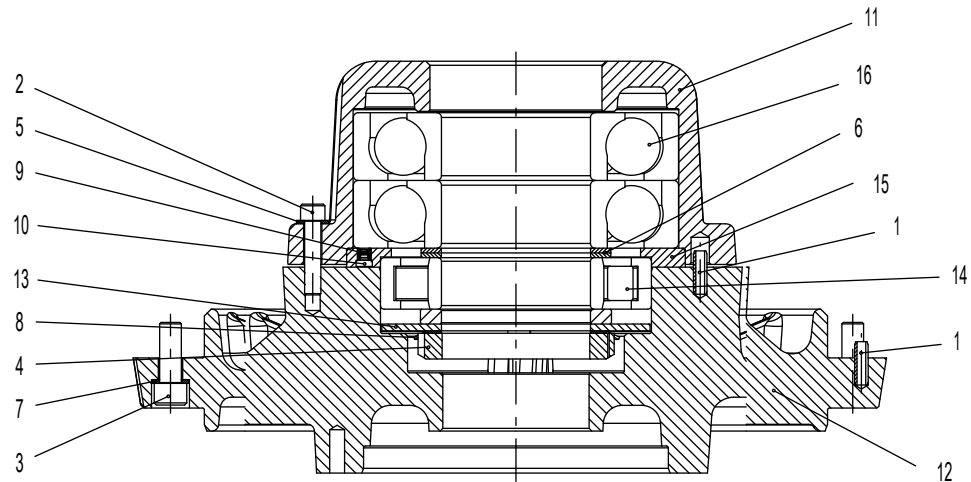
| Drive Units | Bearing Arrangement | Installation | Pumps | CLS | Reference |
|-------------|---------------------|------------------------|---------------------|-----|---|
| | | Horizontal | P | Yes | |
| | X | | C3240 | No | <i>C3240: X-arrangement on page 33</i> |
| | | | | Yes | <i>C3240: X-arrangement with CLS on page 34</i> |
| 885–895 | Tandem | Vertical | P, L | No | <i>Vertical P-, L-pumps: Tandem arrangement on page 36</i> |
| 885–895 | Tandem | Vertical | P, L | Yes | <i>Vertical P-, L-pumps: Tandem arrangement with CLS on page 37</i> |
| 885–895 | X | Vertical or horizontal | C, N ⁽¹⁾ | No | <i>C- and N-pumps and horizontal P-pumps: X-arrangement on page 39</i> |
| 885–895 | X | Horizontal | P | No | <i>C- and N-pumps and horizontal P-pumps: X-arrangement on page 39</i> |
| 885–895 | X | Vertical or horizontal | C, N ⁽¹⁾ | Yes | <i>C- and N-pumps and horizontal P-pumps: X-arrangement with CLS on page 40</i> |
| 885–895 | X | Horizontal | P | Yes | <i>C- and N-pumps and horizontal P-pumps: X-arrangement with CLS on page 40</i> |

(1) Including C3240.

6.2.1 Vertical P-, L-pumps: Tandem arrangement



WS003971A

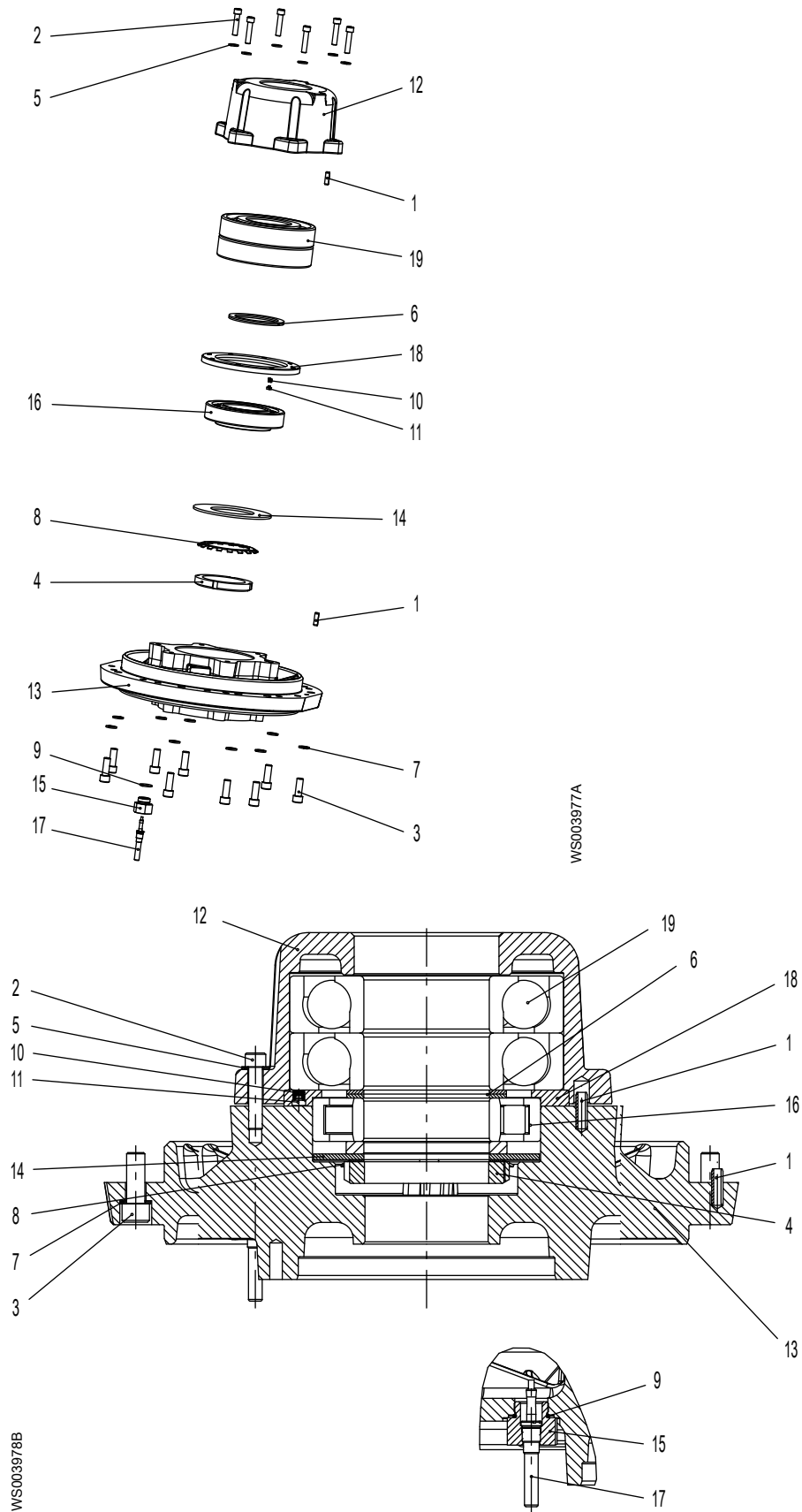


WS003976B

Spare parts marked with "EX" after the part number are subject to dimensional accuracy inspection.

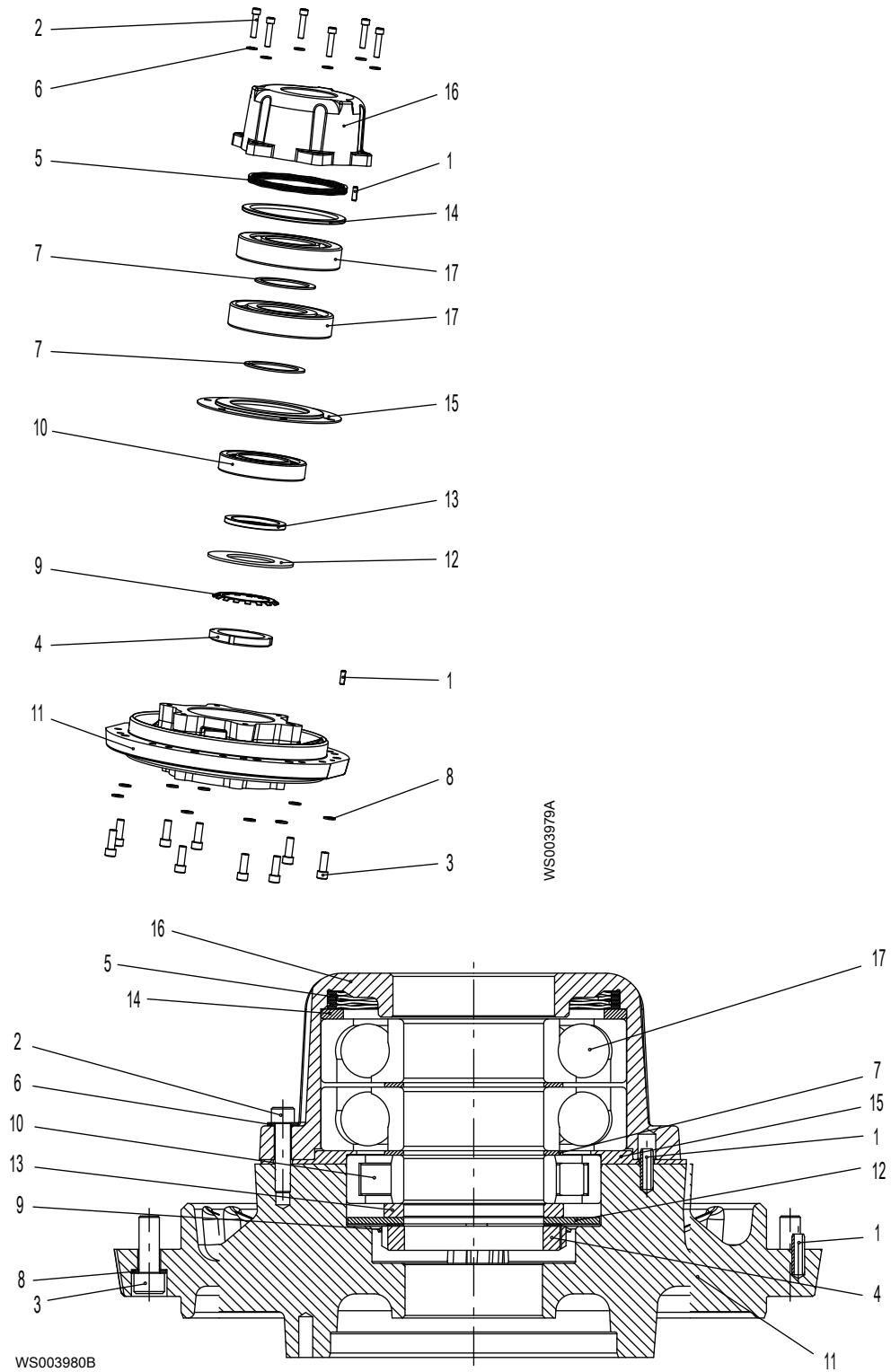
| Item | Denomination | Part No. STD-units | Part No. EX-units | Qty. |
|------|---|-----------------------|----------------------|------|
| 1 | Tension pin | 80 58 95 | 80 58 95 | 2 |
| 2 | Hexagon socket head cap screw M12 x 55 | 82 00 74 | 82 00 74 | 6 |
| 3 | Hexagon socket head cap screw M16 x 45 | 82 01 06 | 82 01 06 | 9 |
| 4 | Round nut KM | 82 22 47 | 82 22 47 | 1 |
| 5 | Washer thick M12 | 82 35 20 | 82 35 20 | 6 |
| 6 | Supporting washer DI110 | 82 44 32 | 82 44 32 | 2 |
| 7 | Lock washer | 82 50 19 | 82 50 19 | 9 |
| 8 | Lock washer | 82 51 47 | 82 51 47 | 1 |
| 9 | Compression spring | 83 38 02 | 83 38 02 | 8 |
| 10 | Plug | 520 08 00 | 520 08 00 | 8 |
| 11 | Bearing cover | 560 17 00 | 560 17 00 | 1 |
| 12 | Bearing housing | 570 08 00 | 570 08 01 (EX) | 1 |
| 13 | Supporting washer | 571 45 00 | 571 45 00 | 1 |
| 14 | Roller bearing unit | 664 34 00 | 664 34 00 | 1 |
| 15 | Washer | 571 44 00 | 571 44 00 | 1 |
| 16 | Single-row angular contact ball bearing | 84 23 28 | 84 23 28 | 2 |

6.2.2 Vertical P-, L-pumps: Tandem arrangement with CLS



| Item | Denomination | Part No. STD-units | Qty. |
|------|---|-----------------------|------|
| 1 | Tension pin | 80 58 95 | 2 |
| 2 | Hexagon socket head cap screw M12 x 55 | 82 00 74 | 6 |
| 3 | Hexagon socket head cap screw M16 x 45 | 82 01 06 | 9 |
| 4 | Round nut KM | 82 22 47 | 1 |
| 5 | Washer thick M12 | 82 35 20 | 6 |
| 6 | Supporting washer DI110 | 82 44 32 | 2 |
| 7 | Lock washer | 82 50 19 | 9 |
| 8 | Lock washer | 82 51 47 | 1 |
| 9 | O-ring 26.2 x 3.0 | 82 73 93 | 1 |
| 10 | Compression spring | 83 38 02 | 8 |
| 11 | Plug | 520 08 00 | 8 |
| 12 | Bearing cover | 560 17 00 | 1 |
| 13 | Bearing housing | 570 08 04 | 1 |
| 14 | Supporting washer | 571 45 00 | 1 |
| 15 | Gland screw | 622 67 00 | 1 |
| 16 | Roller bearing unit | 664 34 00 | 1 |
| 17 | Leakage sensor CLS | 505 12 00 | 1 |
| 18 | Washer | 571 44 00 | 1 |
| 19 | Single-row angular contact ball bearing | 84 23 28 | 2 |

6.2.3 C- and N-pumps and horizontal P-pumps: X-arrangement

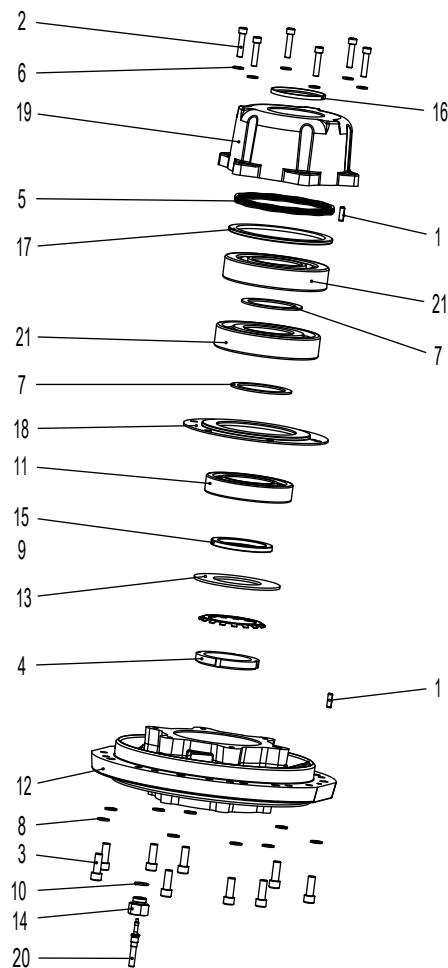


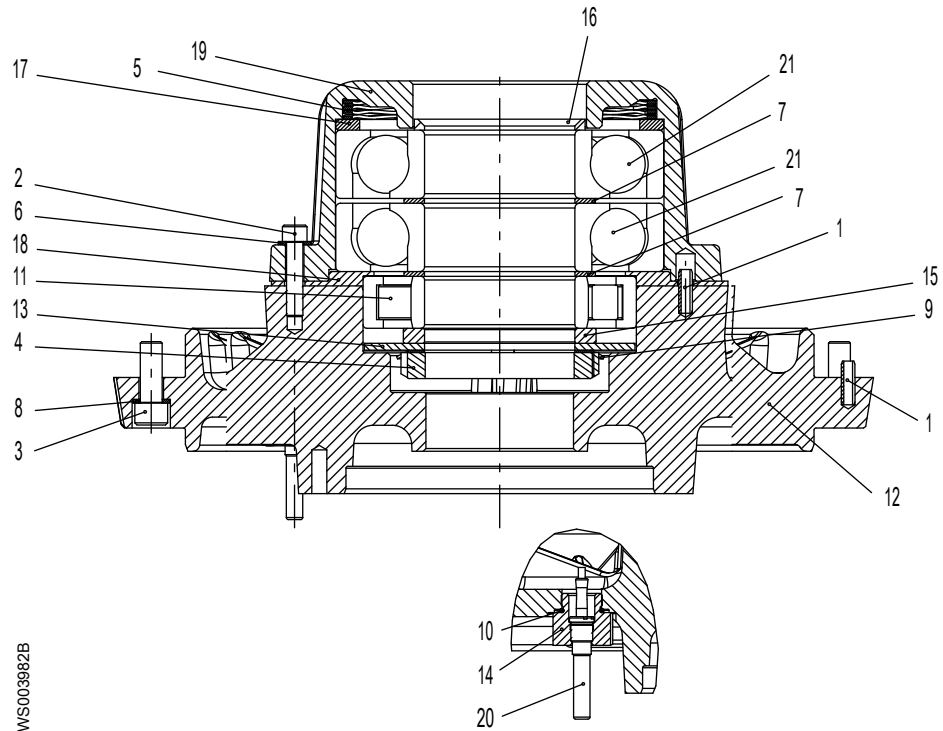
Spare parts marked with “EX” after the part number are subject to dimensional accuracy inspection.

| Item | Denomination | Part No. STD-units | Part No. EX-units | Qty. |
|------|--|-----------------------|----------------------|------|
| 1 | Tension pin | 80 58 95 | 80 58 95 | 2 |
| 2 | Hexagon socket head cap screw M12 x 55 | 82 00 74 | 82 00 74 | 6 |

| Item | Denomination | Part No. STD-units | Part No. EX-units | Qty. |
|------|---|-----------------------|----------------------|------|
| 3 | Hexagon socket head cap screw M16 x 45 | 82 01 06 | 82 01 06 | 9 |
| 4 | Round nut KM | 82 22 47 | 82 22 47 | 1 |
| 5 | Spring | 82 30 12 | 82 30 12 | 1 |
| 6 | Washer thick M12 | 82 35 20 | 82 35 20 | 6 |
| 7 | Supporting washer DI110 | 82 44 32 | 82 44 32 | 2 |
| 8 | Lock washer | 82 50 19 | 82 50 19 | 9 |
| 9 | Lock washer | 82 51 47 | 82 51 47 | 1 |
| 10 | Roller bearing | 83 57 64 | 83 57 64 | 1 |
| 11 | Bearing housing | 570 08 00 | 570 08 01 (EX) | 1 |
| 12 | Supporting washer | 571 45 00 | 571 45 00 | 1 |
| 13 | Washer | 664 24 00 | 664 24 00 | 1 |
| 14 | Washer | 709 40 00 | 709 40 00 | 1 |
| 15 | Washer | 714 72 00 | 714 72 00 | 1 |
| 16 | Bearing cover | 714 73 00 | 714 73 00 | 1 |
| 17 | Single-row angular contact ball bearing | 84 23 28 | 84 23 28 | 2 |

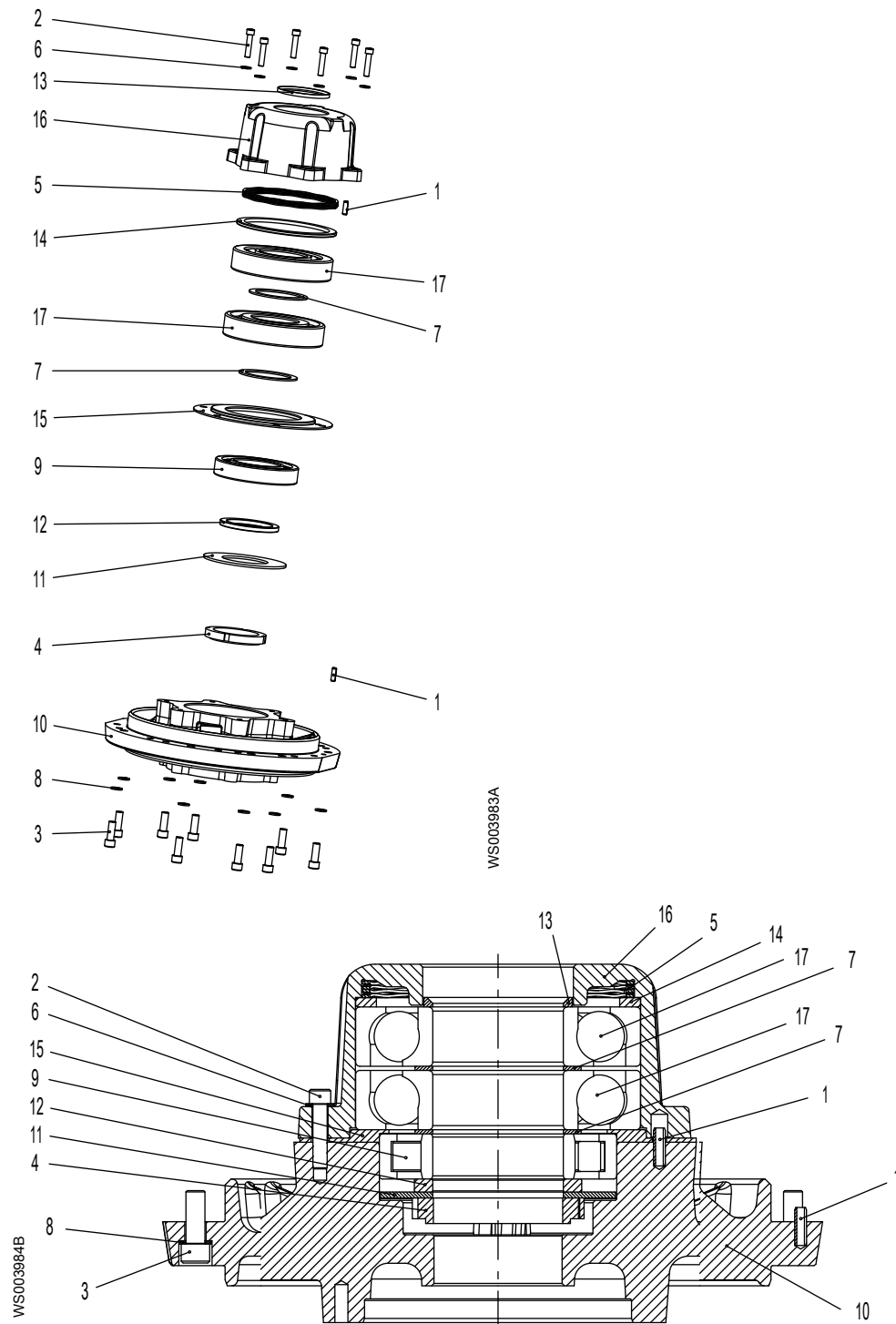
6.2.4 C- and N-pumps and horizontal P-pumps: X-arrangement with CLS





| Item | Denomination | Part No. STD-units | Qty. |
|------|---|-----------------------|------|
| 1 | Tension pin | 80 58 95 | 2 |
| 2 | Hexagon socket head cap screw M12 x 55 | 82 00 74 | 6 |
| 3 | Hexagon socket head cap screw M16 x 45 | 82 01 06 | 9 |
| 4 | Round nut KM | 82 22 47 | 1 |
| 5 | Spring | 82 30 12 | 1 |
| 6 | Washer thick M12 | 82 35 20 | 6 |
| 7 | Supporting washer DI110 | 82 44 32 | 2 |
| 8 | Lock washer | 82 50 19 | 9 |
| 9 | Lock washer | 82 51 47 | 1 |
| 10 | O-ring 26.2 x 3.0 | 82 73 93 | 1 |
| 11 | Roller bearing | 83 57 64 | 1 |
| 12 | Bearing housing | 570 08 04 | 1 |
| 13 | Supporting washer | 571 45 00 | 1 |
| 14 | Gland screw | 622 67 00 | 1 |
| 15 | Washer | 664 24 00 | 1 |
| 16 | Supporting washer | 687 64 00 | 1 |
| 17 | Washer | 709 40 00 | 1 |
| 18 | Washer | 714 72 00 | 1 |
| 19 | Bearing cover | 714 73 00 | 1 |
| 20 | Leakage sensor CLS | 505 12 00 | 1 |
| 21 | Single-row angular contact ball bearing | 84 23 28 | 2 |

6.2.5 C3240: X-arrangement

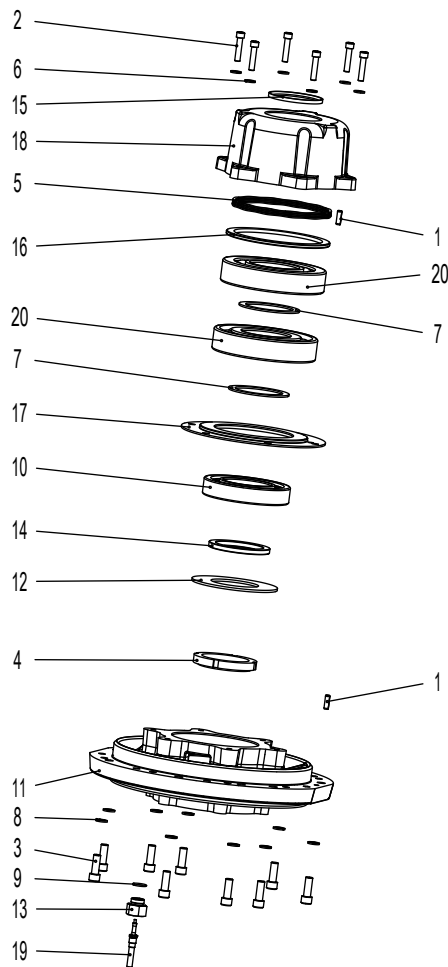


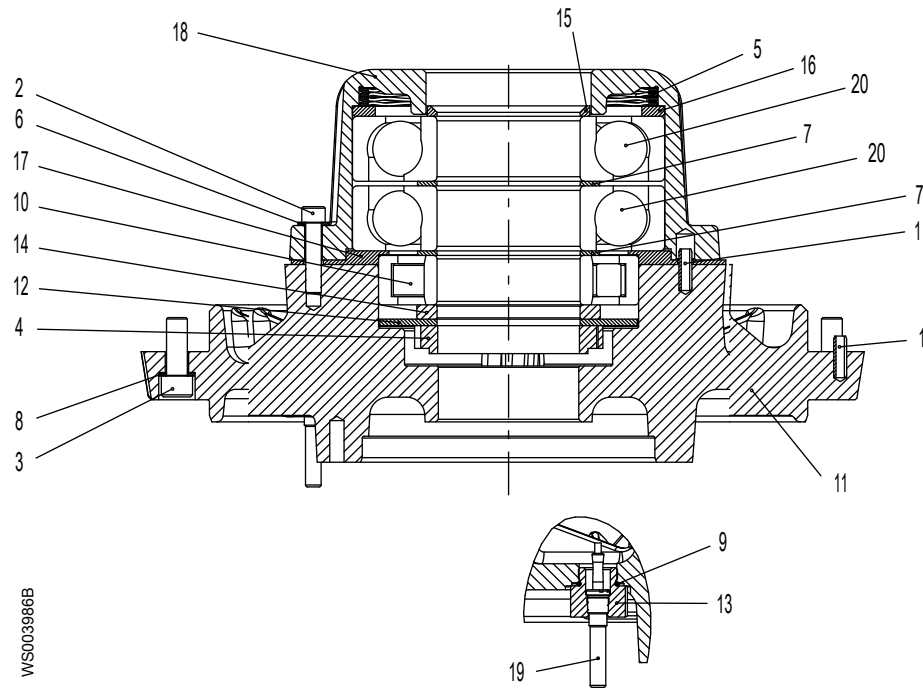
Spare parts marked with "EX" after the part number are subject to dimensional accuracy inspection.

| Item | Denomination | Part No. STD-units | Part No. EX-units | Qty. |
|------|--|-----------------------|----------------------|------|
| 1 | Tension pin | 80 58 95 | 80 58 95 | 2 |
| 2 | Hexagon socket head cap screw M12 x 55 | 82 00 74 | 82 00 74 | 6 |
| 3 | Hexagon socket head cap screw M16 x 45 | 82 01 06 | 82 01 06 | 9 |

| Item | Denomination | Part No. STD-units | Part No. EX-units | Qty. |
|------|---|-----------------------|----------------------|------|
| 4 | Round nut KM M110 x 2 | 82 22 42 | 82 22 42 | 1 |
| 5 | Spring | 82 30 12 | 82 30 12 | 1 |
| 6 | Washer thick M12 | 82 35 20 | 82 35 20 | 6 |
| 7 | Supporting washer DI110 | 82 44 32 | 82 44 32 | 2 |
| 8 | Lock washer | 82 50 19 | 82 50 19 | 9 |
| 9 | Roller bearing | 83 57 64 | 83 57 64 | 1 |
| 10 | Bearing housing | 570 08 00 | 570 08 01 (EX) | 1 |
| 11 | Supporting washer | 571 45 00 | 571 45 00 | 1 |
| 12 | Washer | 664 24 00 | 664 24 00 | 1 |
| 13 | Supporting washer | 687 64 00 | 687 64 00 | 1 |
| 14 | Washer | 709 40 00 | 709 40 00 | 1 |
| 15 | Washer | 714 72 00 | 714 72 00 | 1 |
| 16 | Bearing cover | 714 73 00 | 714 73 00 | 1 |
| 17 | Single-row angular contact ball bearing | 84 23 28 | 84 23 28 | 2 |

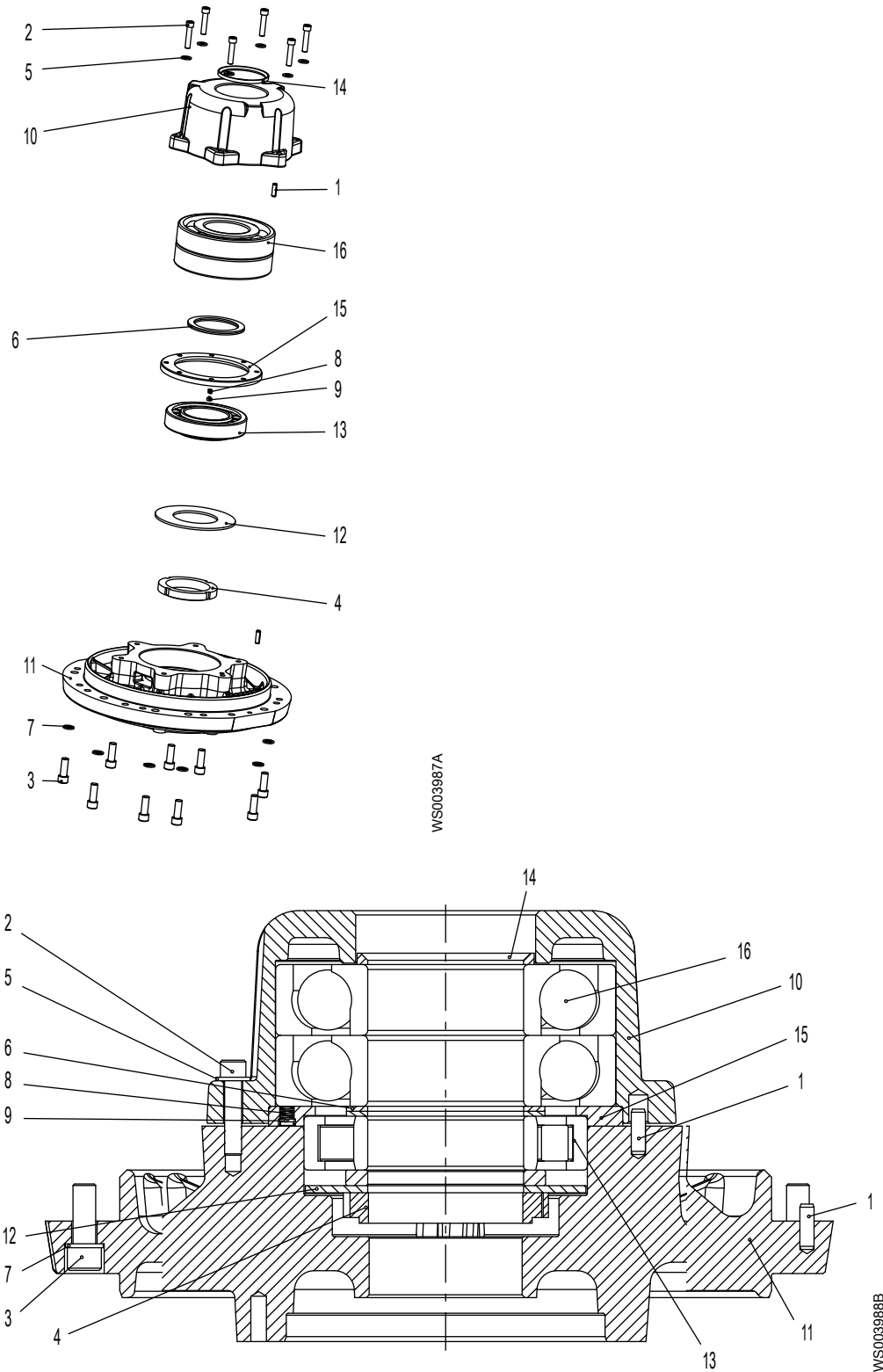
6.2.6 C3240: X-arrangement with CLS





| Item | Denomination | Part No. STD-units | Qty. |
|------|---|-----------------------|------|
| 1 | Tension pin | 80 58 95 | 2 |
| 2 | Hexagon socket head cap screw M12 x 55 | 82 00 74 | 6 |
| 3 | Hexagon socket head cap screw M16 x 45 | 82 01 06 | 9 |
| 4 | Round nut KM M110 x 2 | 82 22 42 | 1 |
| 5 | Spring | 82 30 12 | 1 |
| 6 | Washer thick M12 | 82 35 20 | 6 |
| 7 | Supporting washer DI110 | 82 44 32 | 2 |
| 8 | Lock washer | 82 50 19 | 9 |
| 9 | O-ring 26.2 x 3.0 | 82 73 93 | 1 |
| 10 | Roller bearing | 83 57 64 | 1 |
| 11 | Bearing housing | 570 08 04 | 1 |
| 12 | Supporting washer | 571 45 00 | 1 |
| 13 | Gland screw | 622 67 00 | 1 |
| 14 | Washer | 664 24 00 | 1 |
| 15 | Supporting washer | 687 64 00 | 1 |
| 16 | Washer | 709 40 00 | 1 |
| 17 | Washer | 714 72 00 | 1 |
| 18 | Bearing cover | 714 73 00 | 1 |
| 19 | Leakage sensor CLS | 505 12 00 | 1 |
| 20 | Single-row angular contact ball bearing | 84 23 28 | 2 |

6.2.7 Vertical P-, L-pumps: Tandem arrangement

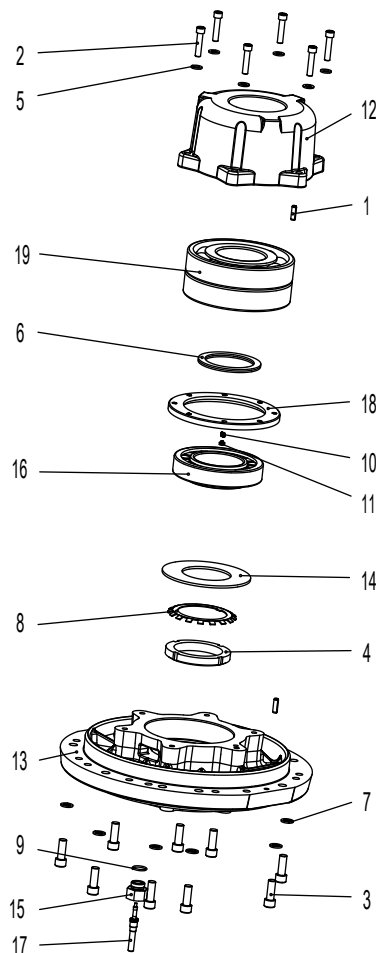


Spare parts marked with “EX” after the part number are subject to dimensional accuracy inspection.

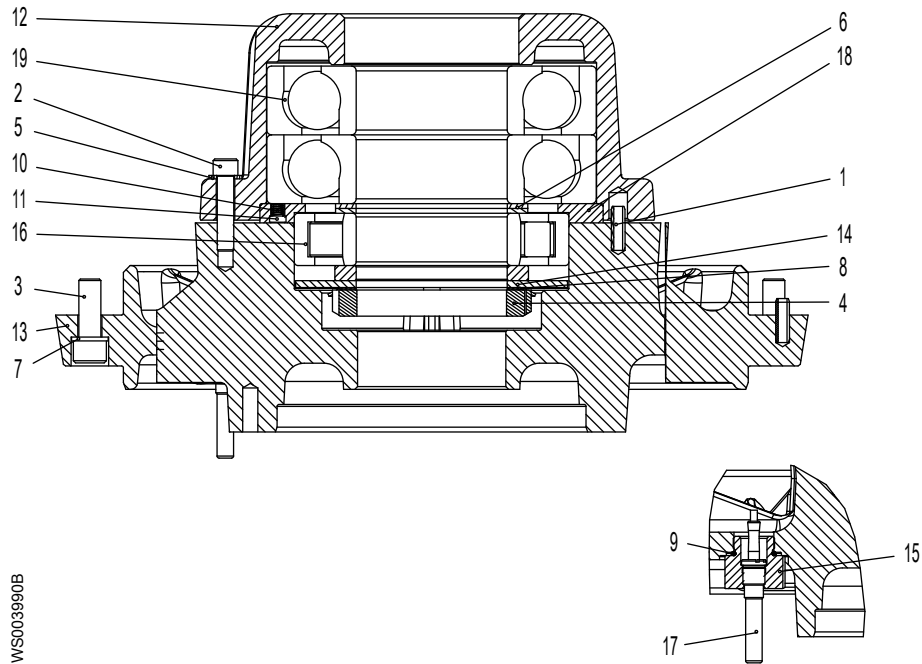
| Item | Denomination | Part No. STD-units | Part No. EX-units | Qty. |
|------|--------------|-----------------------|----------------------|------|
| 1 | Tension pin | 80 58 95 | 80 58 95 | 2 |

| Item | Denomination | Part No. STD-units | Part No. EX-units | Qty. |
|------|---|-----------------------|----------------------|------|
| 2 | Hexagon socket head cap screw M12 x 55 | 82 00 74 | 82 00 74 | 6 |
| 3 | Hexagon socket head cap screw M16 x 45 | 82 01 06 | 82 01 06 | 9 |
| 4 | Round nut KM M110 x 2 | 82 22 42 | 82 22 42 | 1 |
| 5 | Washer thick M12 | 82 35 20 | 82 35 20 | 6 |
| 6 | Supporting washer DI110 | 82 44 32 | 82 44 32 | 2 |
| 7 | Lock washer | 82 50 19 | 82 50 19 | 9 |
| 8 | Compression spring | 83 38 02 | 83 38 02 | 8 |
| 9 | Plug | 520 08 00 | 520 08 00 | 8 |
| 10 | Bearing cover | 560 17 00 | 560 17 00 | 1 |
| 11 | Bearing housing | 570 08 00 | 570 08 01 (EX) | 1 |
| 12 | Supporting washer | 571 45 00 | 571 45 00 | 1 |
| 13 | Roller bearing unit | 664 34 00 | 664 34 00 | 1 |
| 14 | Supporting washer | 687 64 00 | 687 64 00 | 1 |
| 15 | Washer | 571 44 00 | 571 44 00 | 1 |
| 16 | Single-row angular contact ball bearing | 84 23 28 | 84 23 28 | 2 |

6.2.8 Vertical P-, L-pumps: Tandem arrangement with CLS



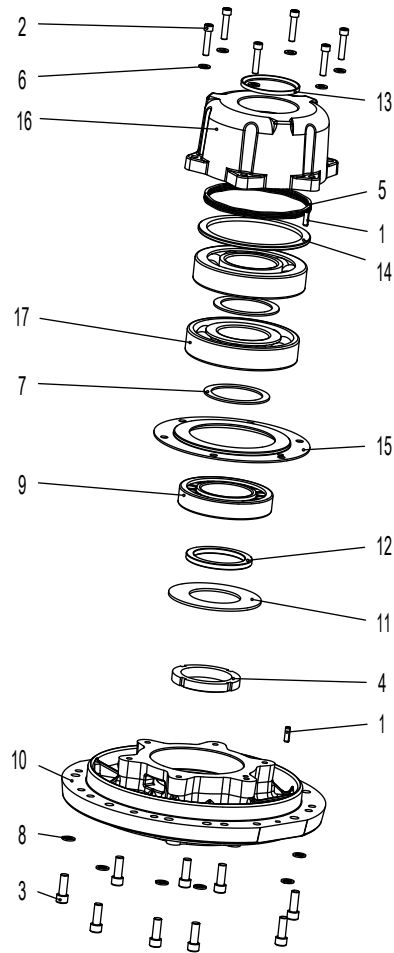
WS003989A



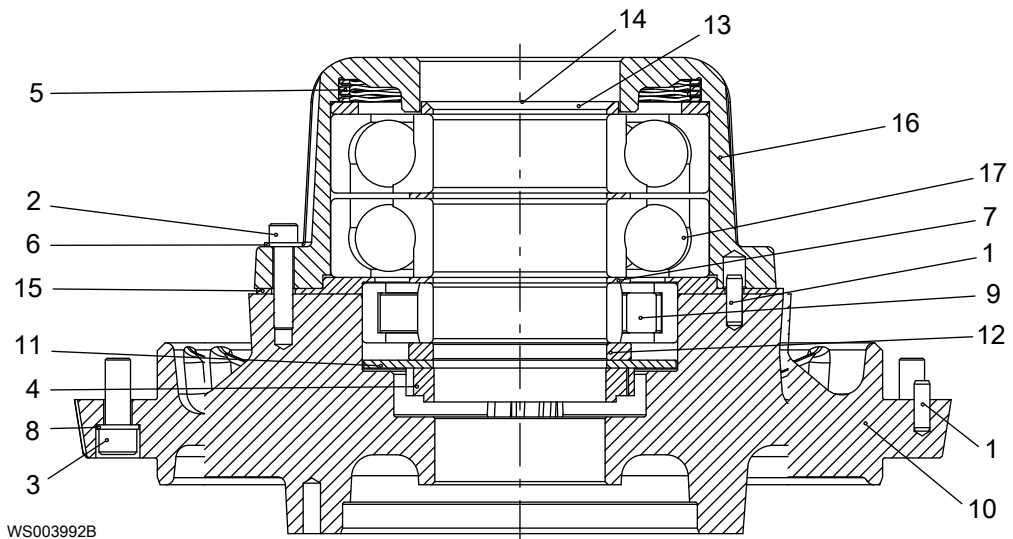
WS003990B

| Item | Denomination | Part No. STD-units | Qty. |
|------|---|-----------------------|------|
| 1 | Tension pin | 80 58 95 | 2 |
| 2 | Hexagon socket head cap screw M12 x 55 | 82 00 74 | 6 |
| 3 | Hexagon socket head cap screw M16 x 45 | 82 01 06 | 9 |
| 4 | Round nut KM | 82 22 47 | 1 |
| 5 | Washer thick M12 | 82 35 20 | 6 |
| 6 | Supporting washer DI110 | 82 44 32 | 2 |
| 7 | Lock washer | 82 50 19 | 9 |
| 8 | Lock washer | 82 51 47 | 1 |
| 9 | O-ring 26.2 x 3.0 | 82 73 93 | 1 |
| 10 | Compression spring | 83 38 02 | 8 |
| 11 | Plug | 520 08 00 | 8 |
| 12 | Bearing cover | 560 17 00 | 1 |
| 13 | Bearing housing | 570 08 04 | 1 |
| 14 | Supporting washer | 571 45 00 | 1 |
| 15 | Gland screw | 622 67 00 | 1 |
| 16 | Roller bearing unit | 664 34 00 | 1 |
| 17 | Leakage sensor CLS | 505 12 00 | 1 |
| 18 | Washer | 571 44 00 | 1 |
| 19 | Single-row angular contact ball bearing | 84 23 28 | 2 |

6.2.9 C- and N-pumps and horizontal P-pumps: X-arrangement



WS003991A



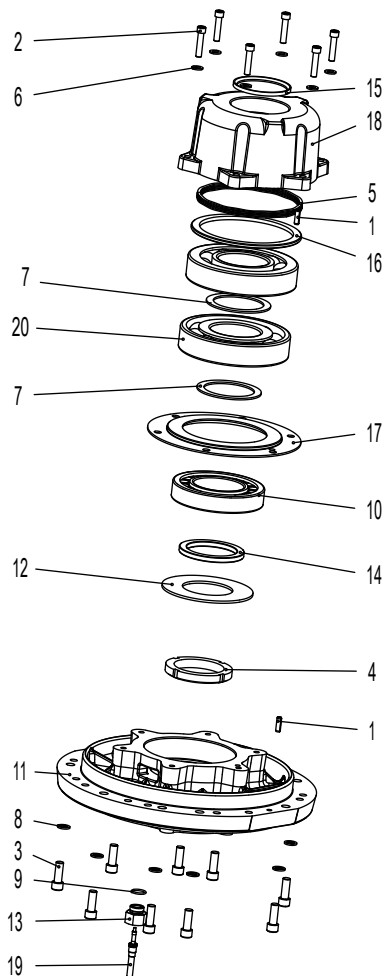
WS003992B

Spare parts marked with "EX" after the part number are subject to dimensional accuracy inspection.

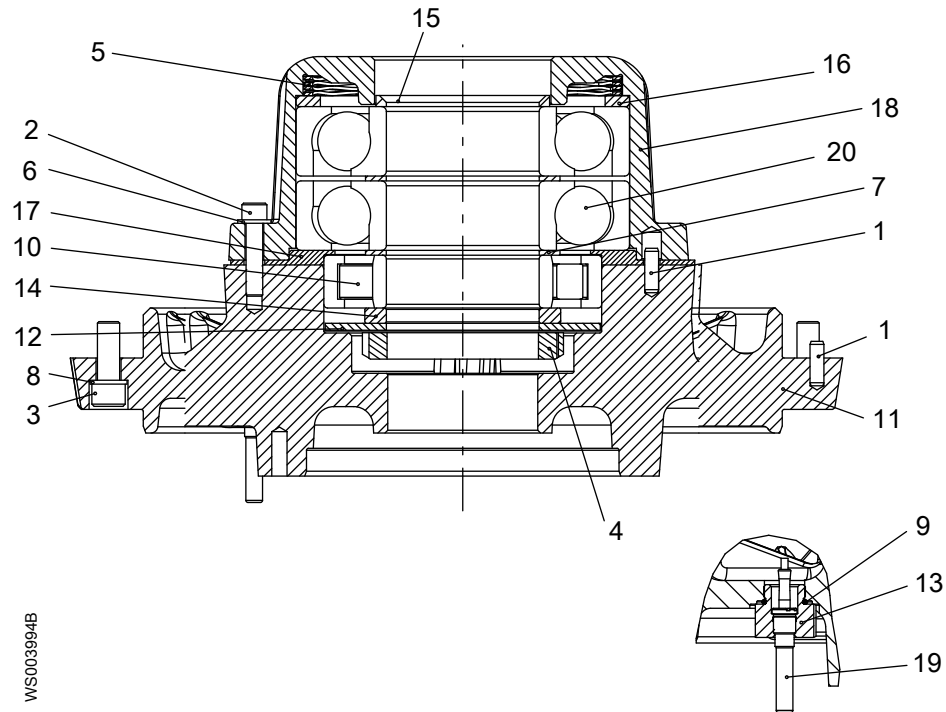
| Item | Denomination | Part No. | Part No. | Qty. |
|------|--|-----------|----------|------|
| | | STD-units | EX-units | |
| 1 | Tension pin | 80 58 95 | 80 58 95 | 2 |
| 2 | Hexagon socket head cap screw M12 x 55 | 82 00 74 | 82 00 74 | 6 |

| Item | Denomination | Part No. STD-units | Part No. EX-units | Qty. |
|------|---|-----------------------|----------------------|------|
| 3 | Hexagon socket head cap screw M16 x 45 | 82 01 06 | 82 01 06 | 9 |
| 4 | Round nut KM M110 x 2 | 82 22 42 | 82 22 42 | 1 |
| 5 | Spring | 82 30 12 | 82 30 12 | 1 |
| 6 | Washer thick M12 | 82 35 20 | 82 35 20 | 6 |
| 7 | Supporting washer DI110 | 82 44 32 | 82 44 32 | 2 |
| 8 | Lock washer | 82 50 19 | 82 50 19 | 9 |
| 9 | Roller bearing | 83 57 64 | 83 57 64 | 1 |
| 10 | Bearing housing | 570 08 00 | 570 08 01 (EX) | 1 |
| 11 | Supporting washer | 571 45 00 | 571 45 00 | 1 |
| 12 | Washer | 664 24 00 | 664 24 00 | 1 |
| 13 | Supporting washer | 687 64 00 | 687 64 00 | 1 |
| 14 | Washer | 709 40 00 | 709 40 00 | 1 |
| 15 | Washer | 714 72 00 | 714 72 00 | 1 |
| 16 | Bearing cover | 714 73 01 | 714 73 01 | 1 |
| 17 | Single-row angular contact ball bearing | 84 23 28 | 84 23 28 | 2 |

6.2.10 C- and N-pumps and horizontal P-pumps: X-arrangement with CLS



WS003993B

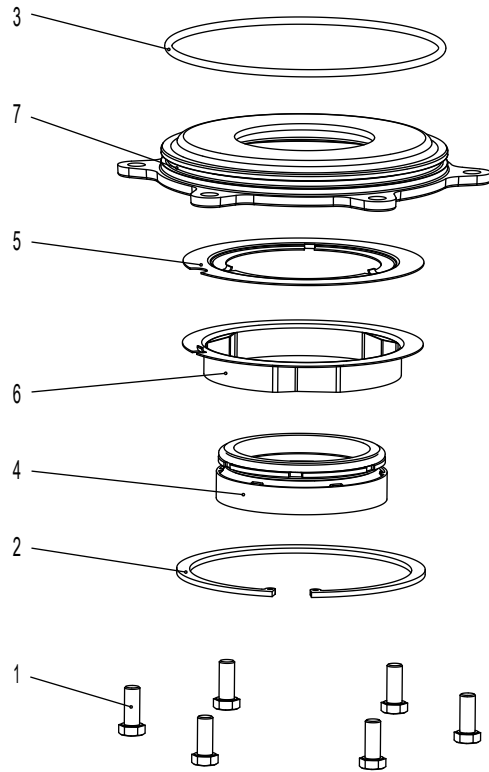


WS003994B

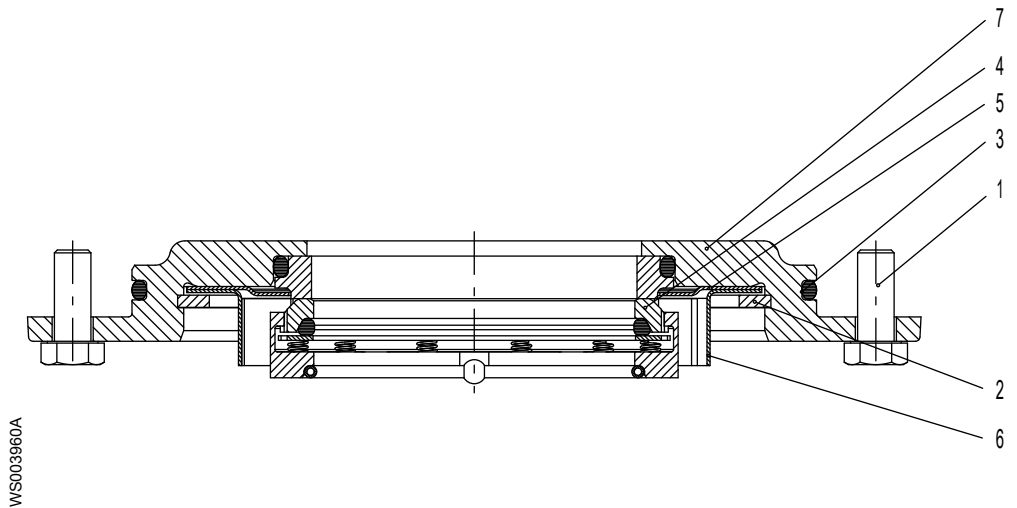
| Item | Denomination | | Part No. STD-units | Qty. |
|------|---|---------------------|-----------------------|------|
| 1 | Tension pin | | 80 58 95 | 2 |
| 2 | Hexagon socket head cap screw | M12 x 55 | 82 00 74 | 6 |
| 3 | Hexagon socket head cap screw | M16 x 45 | 82 01 06 | 9 |
| 4 | Round nut | KM | 82 22 42 | 1 |
| 5 | Spring | | 82 30 12 | 1 |
| 6 | Washer thick | 13.0 x 24.0 x 2.5 | 82 35 20 | 6 |
| 7 | Supporting washer DI110 | 110.1 x 140.0 x 3.5 | 82 44 32 | 2 |
| 8 | Lock washer | M16 | 82 50 19 | 9 |
| 9 | O-ring | 26.2 x 3.0 | 82 73 93 | 1 |
| 10 | Roller bearing | | 83 57 64 | 1 |
| 11 | Bearing housing | | 570 08 04 | 1 |
| 12 | Supporting washer | | 571 45 00 | 1 |
| 13 | Gland screw | | 622 67 00 | 1 |
| 14 | Washer | | 664 24 00 | 1 |
| 15 | Supporting washer | | 687 64 00 | 1 |
| 16 | Washer | | 709 40 00 | 1 |
| 17 | Washer | | 709 40 00 | 1 |
| 18 | Bearing cover | | 714 73 01 | 1 |
| 19 | Leakage sensor CLS | | 714 73 00 | 1 |
| 20 | Single-row angular contact ball bearing | | 84 23 28 | 2 |

7 Mechanical Shaft Seals

7.1 Inner



WS003961A

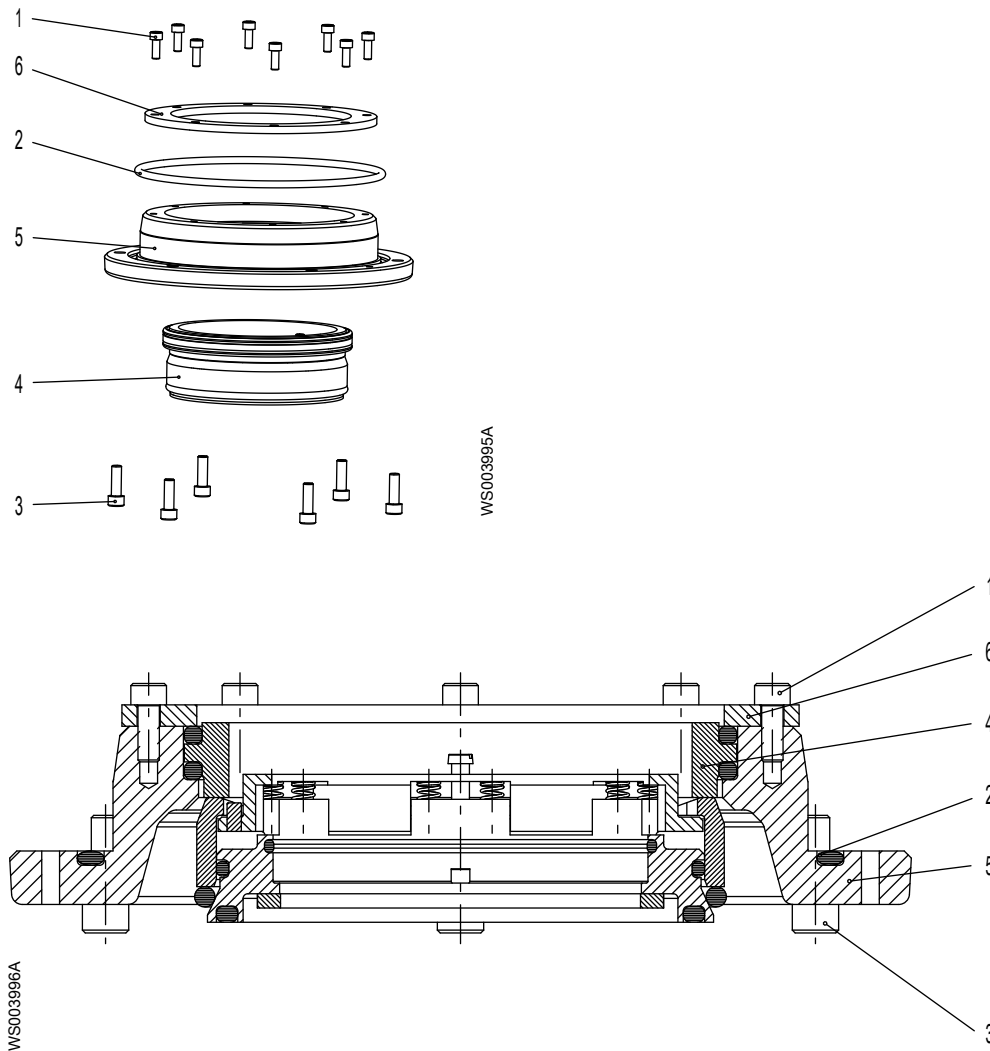


WS003960A

| Item | Denomination | Part No. | Qty. |
|------|-----------------------------|-----------|------|
| 1 | Hexagon head screw M12 x 30 | 81 41 55 | 6 |
| 2 | Circlip | 82 62 49 | 1 |
| 3 | O-ring 209.3 x 5.7 | 82 74 94 | 1 |
| 4 | Mechanical seal, WCCR | 559 80 30 | 1 |
| 5 | Locking washer | 566 40 00 | 1 |

| Item | Denomination | Part No. | Qty. |
|------|--------------|-----------|------|
| 6 | Ring | 566 41 00 | 1 |
| 7 | Seal housing | 566 42 00 | 1 |

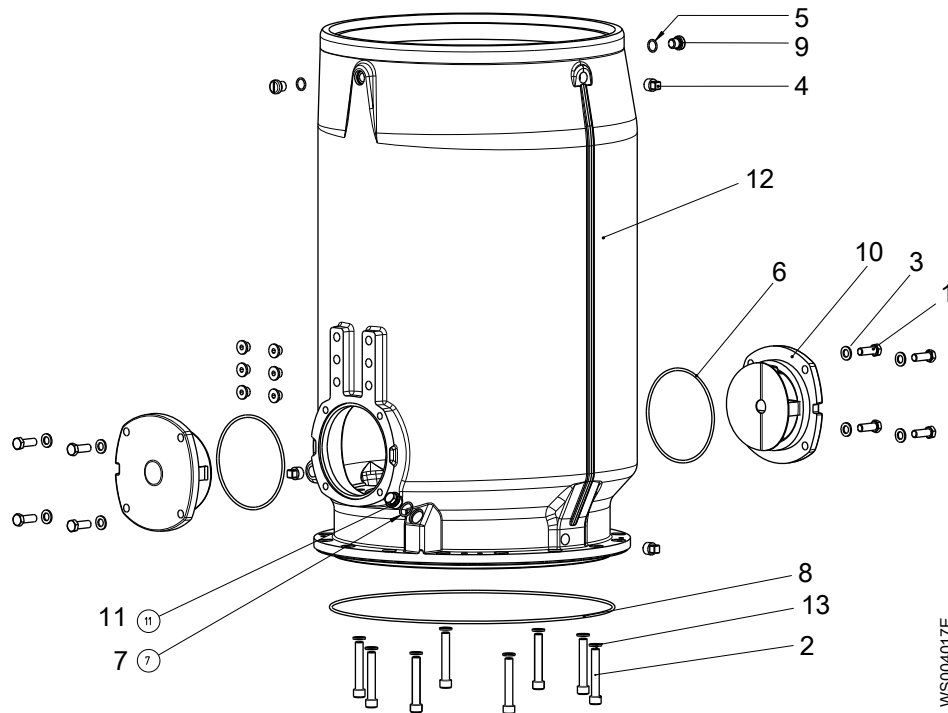
7.2 Outer



| Item | Denomination | Part No. | Qty. |
|------|---------------------------------------|-----------|------|
| 1 | Hexagon socket head cap screw M6 x 16 | 82 00 13 | 8 |
| 2 | O-ring 194.3 x 5.7 | 82 74 92 | 1 |
| 3 | Hexagon socket head cap screw M8 x 25 | 83 02 01 | 6 |
| 4 | Mechanical seal, WCCR | 585 26 01 | 1 |
| 4 | Mechanical seal, RSiC | 585 26 02 | |
| 5 | Seal holder | 585 28 00 | 1 |
| 6 | Ring | 586 86 00 | 1 |

8 Cooling Jacket

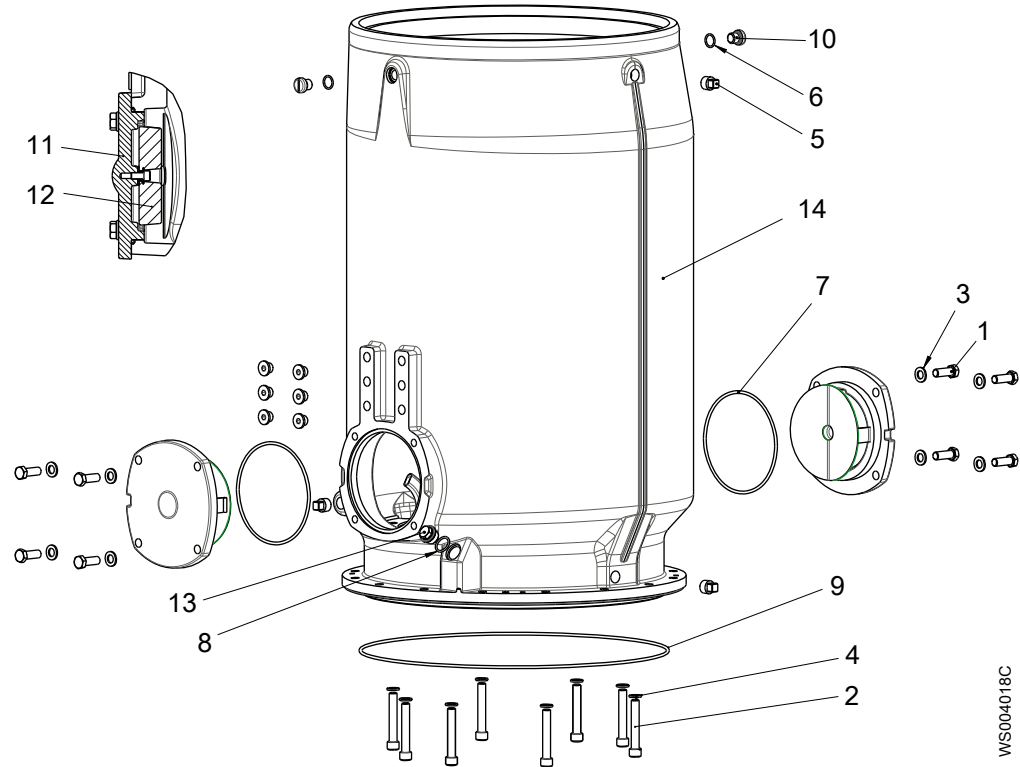
8.1 External cooling



WS004017E

| Item | Denomination | | Part No. | Qty. |
|------|-------------------------------|--------------------------|-----------|------|
| 1 | Hexagon head screw | M16 x 45 | 81 49 32 | 8 |
| 2 | Hexagon socket head cap screw | M16 x 100 | 82 01 15 | 8 |
| 3 | Washer | 17.0 x 30.0 x 3.0 | 82 35 23 | 8 |
| 4 | Plug | | 82 71 78 | 3 |
| 5 | O-ring | 22.20 x 3.0 | 82 73 91 | 2 |
| 6 | O-ring | 199.30 x 5.70 | 82 74 93 | 2 |
| 7 | O-ring | 28.17 x 3.53 | 82 77 30 | 2 |
| 8 | O-ring | 594.0 x 5.70 | 82 78 97 | 1 |
| 9 | Slotted head screw | | 283 13 01 | 2 |
| 10 | Cover unit | | 560 72 00 | 2 |
| 11 | Plug | | 809 33 00 | 2 |
| 12 | Cooling jacket unit | Drive units: 805, 815 | 844 39 03 | 1 |
| | | Drive units: 835, 845 | 844 39 13 | |
| | | Drive units: 865, 875 | 844 39 23 | |
| | | Drive units: 885, 895 | 844 39 33 | |
| 13 | Lock washer | | 82 50 19 | 8 |

8.2 Integrated cooling: T and Z installations

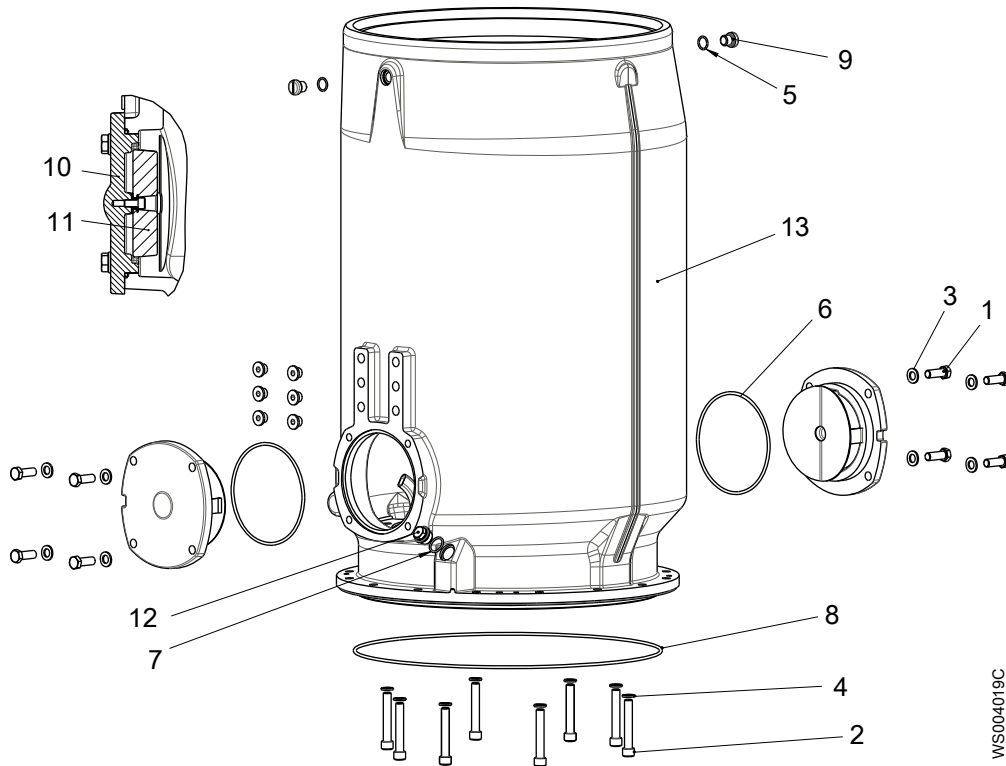


WS004018C

Parts marked with * are optional

| Item | Denomination | Part No. | Qty. | |
|------|-------------------------------|--------------------------|-------------|---|
| 1 | Hexagon head screw | M16 x 45 | 81 49 32 | 8 |
| 2 | Hexagon socket head cap screw | M16 x 100 | 82 01 15 | 8 |
| 3 | Washer | 17.0 x 30.0 x 3.0 | 82 35 23 | 8 |
| 4 | Lock washer | | 82 50 19 | 8 |
| 5 | Plug | | 82 71 78 | 3 |
| 6 | O-ring | 22.20 x 3.0 | 82 73 91 | 2 |
| 7 | O-ring | 199.30 x 5.70 | 82 74 93 | 2 |
| 8 | O-ring | 28.17 x 3.53 | 82 77 30 | 2 |
| 9 | O-ring | 594.0 x 5.70 | 82 78 97 | 1 |
| 10 | Slotted head screw | | 283 13 01 | 2 |
| 11 | Cover unit | | 560 72 00 | 2 |
| 12 | Anode | | 560 77 00 * | 2 |
| 13 | Plug | | 809 33 00 | 2 |
| 14 | Cooling jacket unit | Drive units: 805, 815 | 844 39 07 | 1 |
| | | Drive units: 835, 845 | 844 39 17 | |
| | | Drive units: 865, 875 | 844 39 27 | |
| | | Drive units: 885, 895 | 844 39 37 | |

8.3 Integrated cooling: P and S installations



Parts marked with * are optional

| Item | Denomination | Part No. | Qty. | |
|------|-------------------------------|--------------------------|-------------|---|
| 1 | Hexagon head screw | M16 x 45 | 81 49 32 | 8 |
| 2 | Hexagon socket head cap screw | M16 x 100 | 82 01 15 | 8 |
| 3 | Washer | 17.0 x 30.0 x 3.0 | 82 35 23 | 8 |
| 4 | Lock washer | | 82 50 19 | 8 |
| 5 | O-ring | 22.20 x 3.0 | 82 73 91 | 2 |
| 6 | O-ring | 199.30 x 5.70 | 82 74 93 | 2 |
| 7 | O-ring | 28.17 x 3.53 | 82 77 30 | 2 |
| 8 | O-ring | 594.0 x 5.70 | 82 78 97 | 1 |
| 9 | Slotted head screw | | 283 13 01 | 2 |
| 10 | Cover unit | | 560 72 00 | 2 |
| 11 | Anode | | 560 77 00 * | 2 |
| 12 | Plug | | 809 33 00 | 2 |
| 13 | Cooling jacket unit | Drive units: 805, 815 | 844 39 06 | 1 |
| | | Drive units: 835, 845 | 844 39 16 | |
| | | Drive units: 865, 875 | 844 39 26 | |
| | | Drive units: 885, 895 | 844 39 36 | |

| Item | Denomination | Part No. | Qty. |
|------|--------------|--------------------------|-----------|
| | | Drive units: 885, 895 | 844 39 36 |
| | | | |

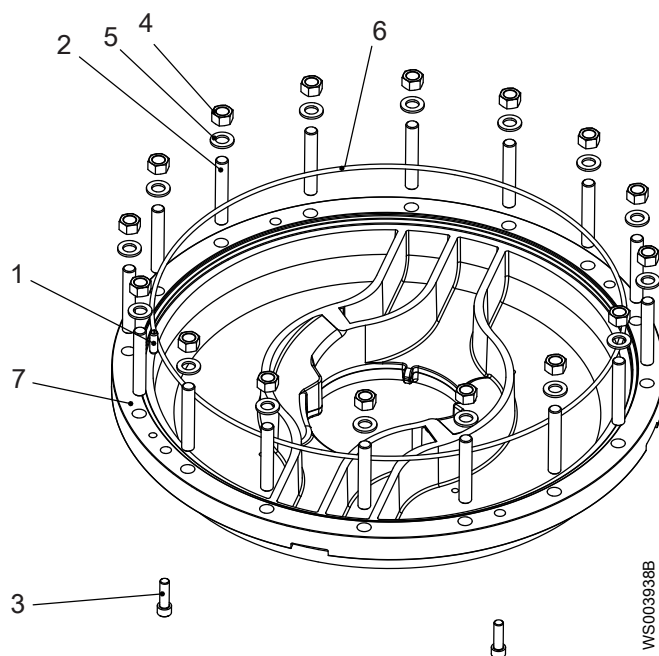
9 Adapters

9.1 C- and N-pumps 3240, 3312, 3400

| Pumps | Cooling Jacket | Anodes | Adapter |
|-------------------------------------|----------------|--------|--|
| C3240, C3312, C3400 N3312, N3400 | Yes | No | Guide ring, see No anodes on page 49. |
| | Yes | Yes | Guide ring, see With anodes on page 50. |
| | No | No | Oil housing, see No anodes on page 51. |
| | No | Yes | Oil housing, see With anodes on page 52. |

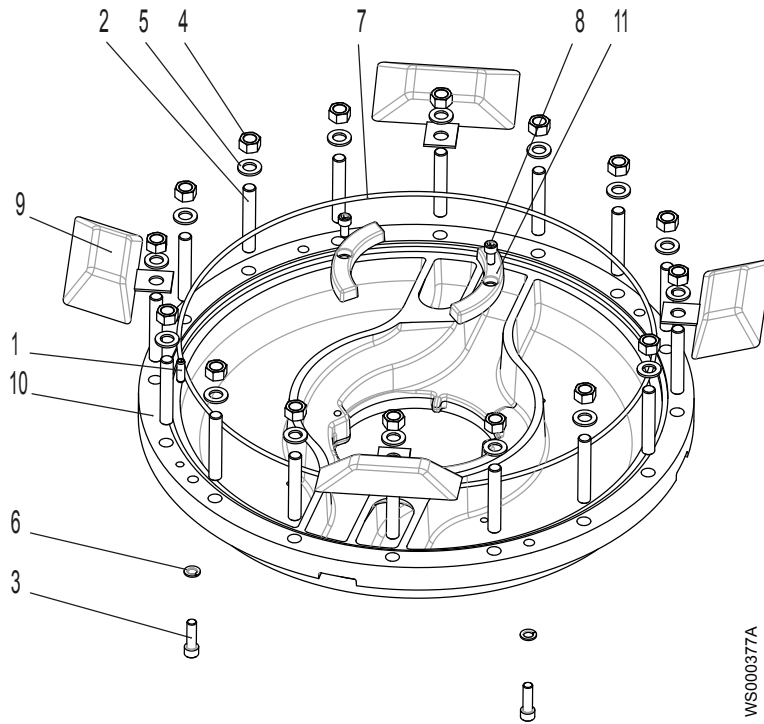
9.1.1 With cooling jacket

9.1.1.1 No anodes



| Item | Denomination | Part No. | Qty. |
|------|--|-----------|------|
| 1 | Tension pin | 80 58 95 | 1 |
| 2 | Stud | 80 95 58 | 16 |
| 3 | Hexagon socket head cap screw M12 x 40 | 80 00 71 | 4 |
| 4 | Nut M16 | 82 23 61 | 16 |
| 5 | Washer M16 | 82 35 23 | 16 |
| 6 | O-ring 594.0 x 5.7 | 82 78 97 | 1 |
| 7 | Guiding ring | 572 73 00 | 1 |

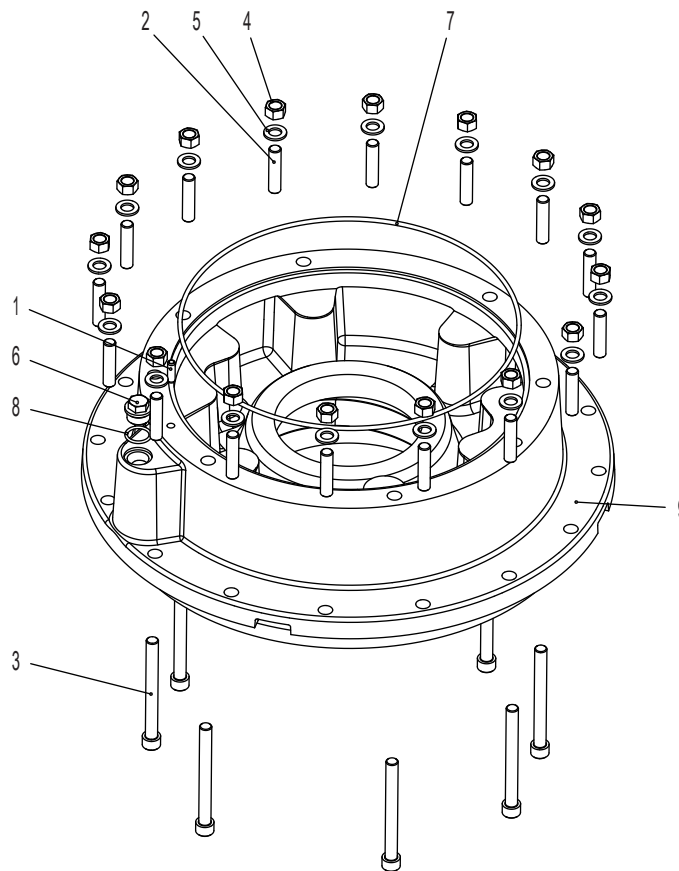
9.1.1.2 With anodes



| Item | Denomination | Part No. Internal and External Anodes | Part No. Internal Anodes | Qty. |
|------|--|---|-----------------------------|------|
| 1 | Tension pin | 80 58 95 | 80 58 95 | 1 |
| 2 | Stud M16x100 | 80 95 58 | 80 95 58 | 16 |
| 3 | Hexagon socket head cap screw M12 x 40 | 82 00 71 | 82 00 71 | 4 |
| 4 | Nut M16 | 82 23 61 | 82 23 61 | 16 |
| 5 | Washer 17.0 x 30.0 x 3.0 | 82 35 23 | 82 35 23 | 16 |
| 6 | Lock washer | 82 50 17 | 82 50 17 | 4 |
| 7 | O-ring 594.0 x 5.70 | 82 78 97 | 82 78 97 | 1 |
| 8 | Hexagon socket head cap screw M10 x 20 | 83 03 21 | 83 03 21 | 2 |
| 9 | Zinc anode | 518 72 00 | - | 4 |
| 10 | Guide ring | 572 73 01 | 572 73 01 | 1 |
| 11 | Anode | 572 83 00 | 572 83 00 | 2 |

9.1.2 No cooling jacket

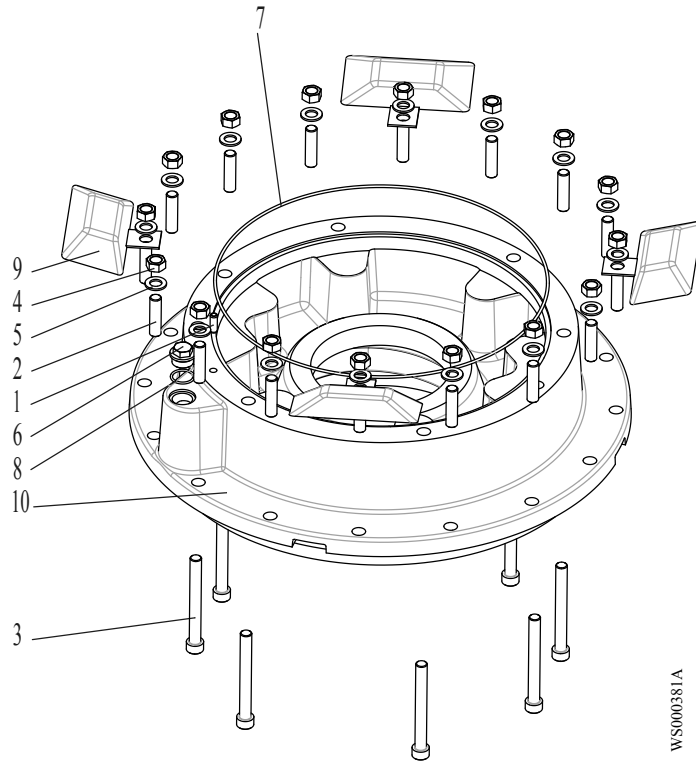
9.1.2.1 No anodes



WS003940A

| Item | Denomination | Part No. | Qty. |
|------|---|-----------|------|
| 1 | Tension pin | 80 58 95 | 1 |
| 2 | Stud | 80 95 52 | 16 |
| 3 | Hexagon socket head cap screw M16 x 160 | 82 01 21 | 8 |
| 4 | Nut M16 | 82 23 61 | 16 |
| 5 | Washer M16 | 82 35 23 | 16 |
| 6 | Plug | 809 33 00 | 1 |
| 7 | O-ring 439.3 x 5.7 | 82 75 10 | 1 |
| 8 | O-ring 28.2 x 3.5 | 82 77 30 | 1 |
| 9 | Oil housing | 646 90 02 | 1 |

9.1.2.2 With anodes



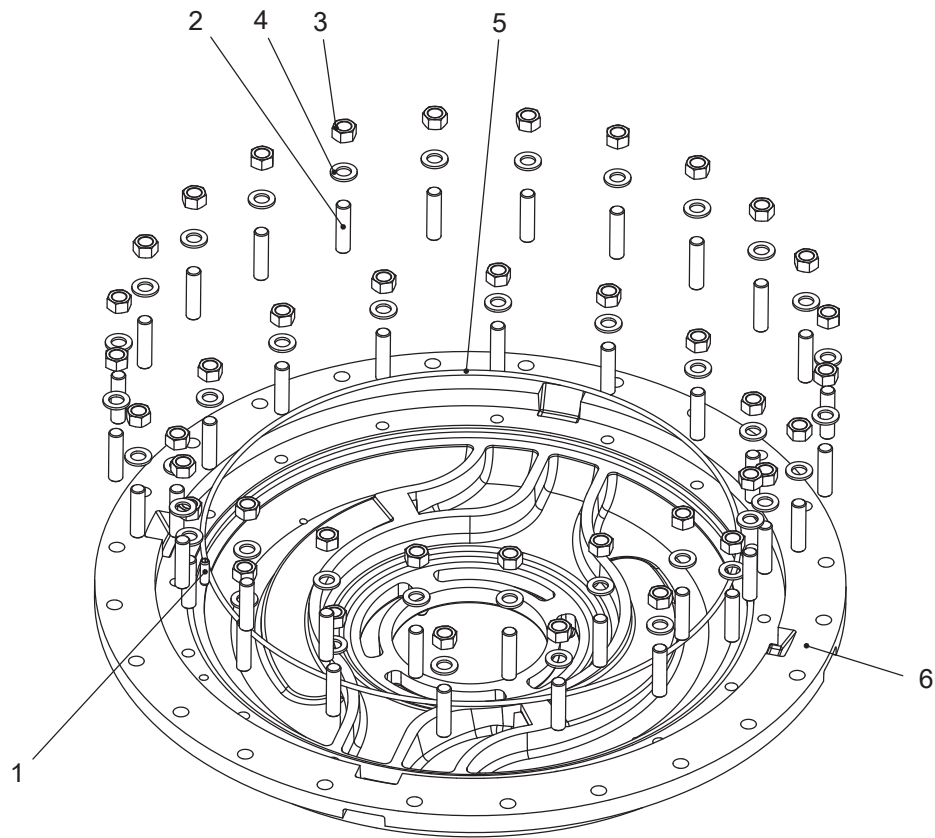
| Item | Denomination | Part No. | Qty. |
|------|---|-----------|------|
| 1 | Tension pin | 80 58 95 | 1 |
| 2 | Stud M16x70 | 80 95 52 | 16 |
| 3 | Hexagon socket head cap screw M16 x 160 | 82 01 21 | 8 |
| 4 | Nut M16 | 82 23 61 | 16 |
| 5 | Washer 17.0 x 30.0 x 3.0 | 82 35 23 | 16 |
| 6 | Plug | 809 33 00 | 1 |
| 7 | O-ring 460.0 x 4.0 | 82 75 10 | 1 |
| 8 | O-ring 28.17 x 3.0 | 82 77 30 | 1 |
| 9 | Zinc anode | 518 72 00 | 4 |
| 10 | Oil housing | 646 90 02 | 1 |

9.2 C- and N-pumps 3501, 3531, 3602

| Pumps | Cooling Jacket | Anodes | Adapter |
|------------------------------|----------------|--------|---|
| C3501, C3531, C3602 N3531 | Yes | No | Guide ring, see <i>No anodes</i> on page 53. |
| | Yes | Yes | Guide ring, see <i>With anodes</i> on page 54. |
| | No | No | Oil housing, see <i>No anodes</i> on page 55. |
| | No | Yes | Oil housing, see <i>With anodes</i> on page 56. |

9.2.1 With cooling jacket

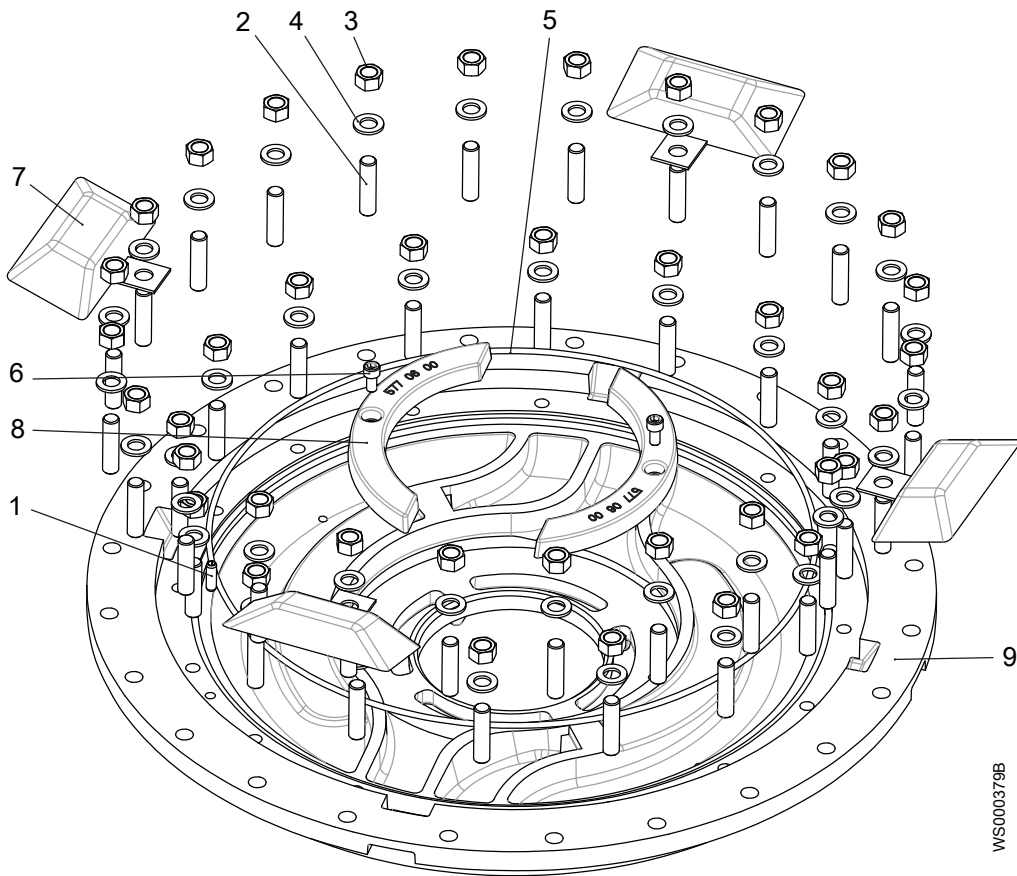
9.2.1.1 No anodes



WS003939A

| Item | Denomination | Part No. | Qty. |
|------|--------------------|-----------|------|
| 1 | Tension pin | 80 58 95 | 1 |
| 2 | Stud | 80 95 51 | 40 |
| 3 | Nut M16 | 82 23 61 | 40 |
| 4 | Washer M16 | 82 35 23 | 40 |
| 5 | O-ring 594.0 x 5.7 | 82 78 97 | 1 |
| 6 | Guide ring | 574 96 00 | 1 |

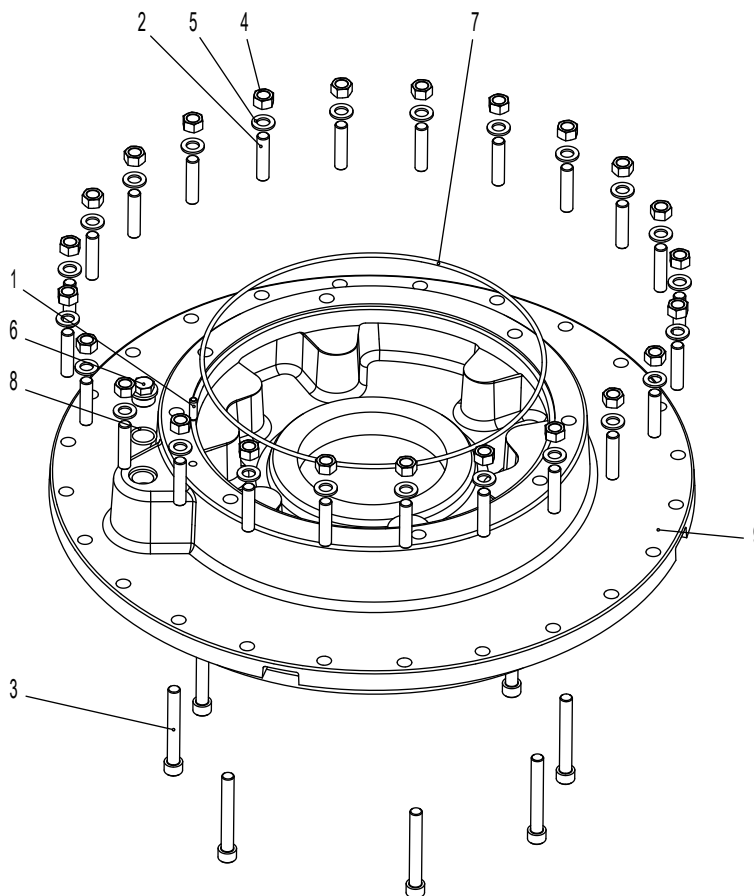
9.2.1.2 With anodes



| Item | Denomination | | Part No. Internal and External Anodes | Part No. Internal Anodes | Qty. |
|------|-------------------------------|-------------------|--|--------------------------------|------|
| 1 | Tension pin | | 80 58 95 | 80 58 95 | 1 |
| 2 | Stud | M16x65 | 80 95 51 | 80 95 51 | 40 |
| 3 | Nut | M16 | 82 23 61 | 82 23 61 | 40 |
| 4 | Washer | 17.0 x 30.0 x 3.0 | 82 35 23 | 82 35 23 | 40 |
| 5 | O-ring | 594.0 x 5.70 | 82 78 97 | 82 78 97 | 1 |
| 6 | Hexagon socket head cap screw | M10 x 20 | 83 03 21 | 83 03 21 | 2 |
| 7 | Zinc anode | | 518 72 00 | - | 4 |
| 8 | Anode | | 557 06 00 | 557 06 00 | 2 |
| 9 | Guide ring | | 574 96 01 | 574 96 01 | 1 |

9.2.2 No cooling jacket

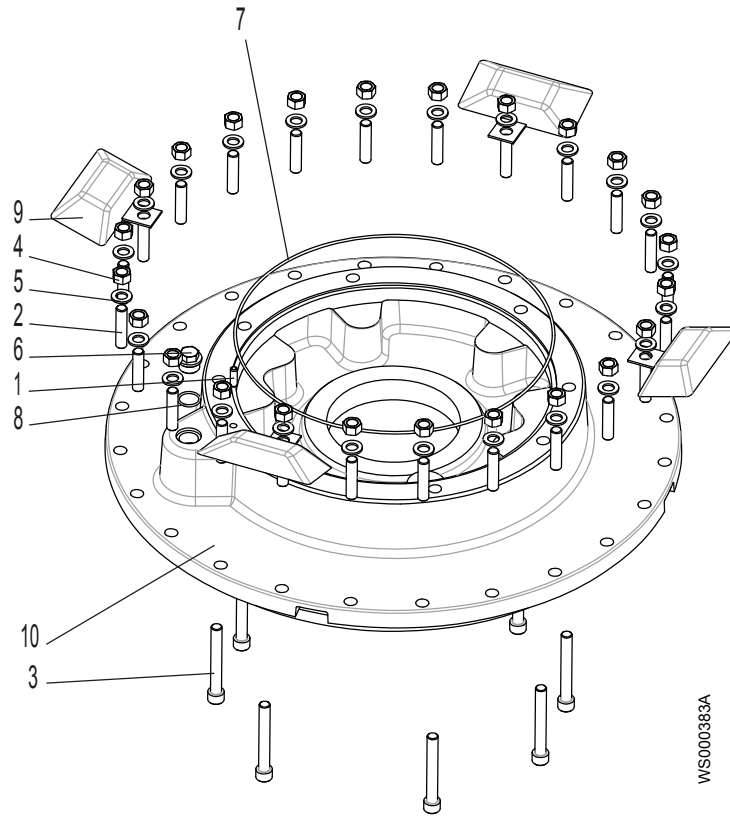
9.2.2.1 No anodes



WS003941A

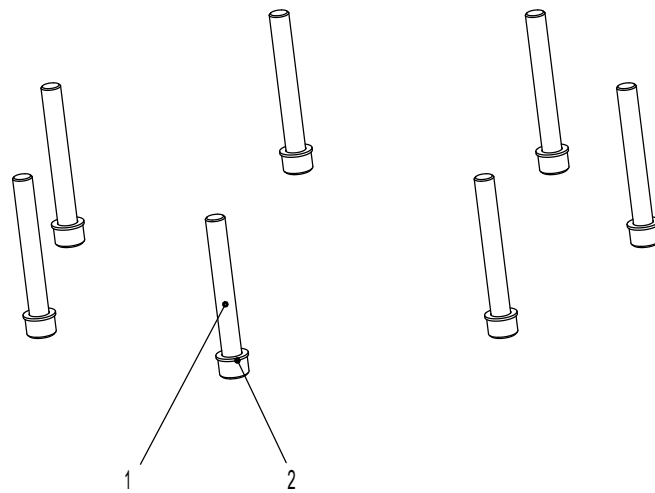
| Item | Denomination | Part No. | Qty. |
|------|---|-----------|------|
| 1 | Tension pin | 80 58 95 | 1 |
| 2 | Stud | 80 95 52 | 24 |
| 3 | Hexagon socket head cap screw M16 x 120 | 82 01 17 | 8 |
| 4 | Nut M16 | 82 23 61 | 24 |
| 5 | Washer M16 | 82 35 23 | 24 |
| 6 | Plug | 809 33 00 | 1 |
| 7 | O-ring 439.3 x 5.7 | 82 75 10 | 1 |
| 8 | O-ring 28.2 x 3.5 | 82 77 30 | 1 |
| 9 | Oil housing | 646 92 02 | 1 |

9.2.2.2 With anodes



| Item | Denomination | Part No. | Qty. |
|------|---|-----------|------|
| 1 | Tension pin | 80 58 95 | 1 |
| 2 | Stud M16x70 | 80 95 52 | 24 |
| 3 | Hexagon socket head cap screw M16 x 120 | 82 01 17 | 8 |
| 4 | Nut M16 | 82 23 61 | 24 |
| 5 | Washer 17.0 x 30.0 x 3.0 | 82 35 23 | 24 |
| 6 | Plug | 809 33 00 | 1 |
| 7 | O-ring 460.0 x 4.0 | 82 75 10 | 1 |
| 8 | O-ring 28.17 x 3.0 | 82 77 30 | 1 |
| 9 | Zinc anode | 518 72 00 | 4 |
| 10 | Oil housing | 646 92 02 | 1 |

9.3 Propeller pumps



WS003942A

Table 2: P7101, P7105

| Item | Denomination | Part No. | Qty. |
|------|--|----------|------|
| 1 | Hexagon socket head cap screw M16 x 55 | 82 01 08 | 7 |
| 2 | Lock washer | 82 50 19 | 7 |

Table 3: P7115

| Item | Denomination | Part No. | Qty. |
|------|---|----------|------|
| 1 | Hexagon socket head cap screw M16 x 150 | 82 01 20 | 7 |
| 2 | Lock washer | 82 50 19 | 7 |

Table 4: L3400

| Item | Denomination | Part No. | Qty. |
|------|---|----------|------|
| 1 | Hexagon socket head cap screw M16 x 150 | 82 01 20 | 7 |
| 2 | C. entr. washer 16/26 | 82 42 33 | 7 |

Table 5: L3602

| Item | Denomination | Part No. | Qty. |
|------|---|----------|------|
| 1 | Hexagon socket head cap screw M16 x 120 | 82 01 17 | 7 |
| 2 | C. entr. washer 16/26 | 82 42 33 | 7 |

10 Large Connection House

10.1 Horizontal: Up to 16 control leads

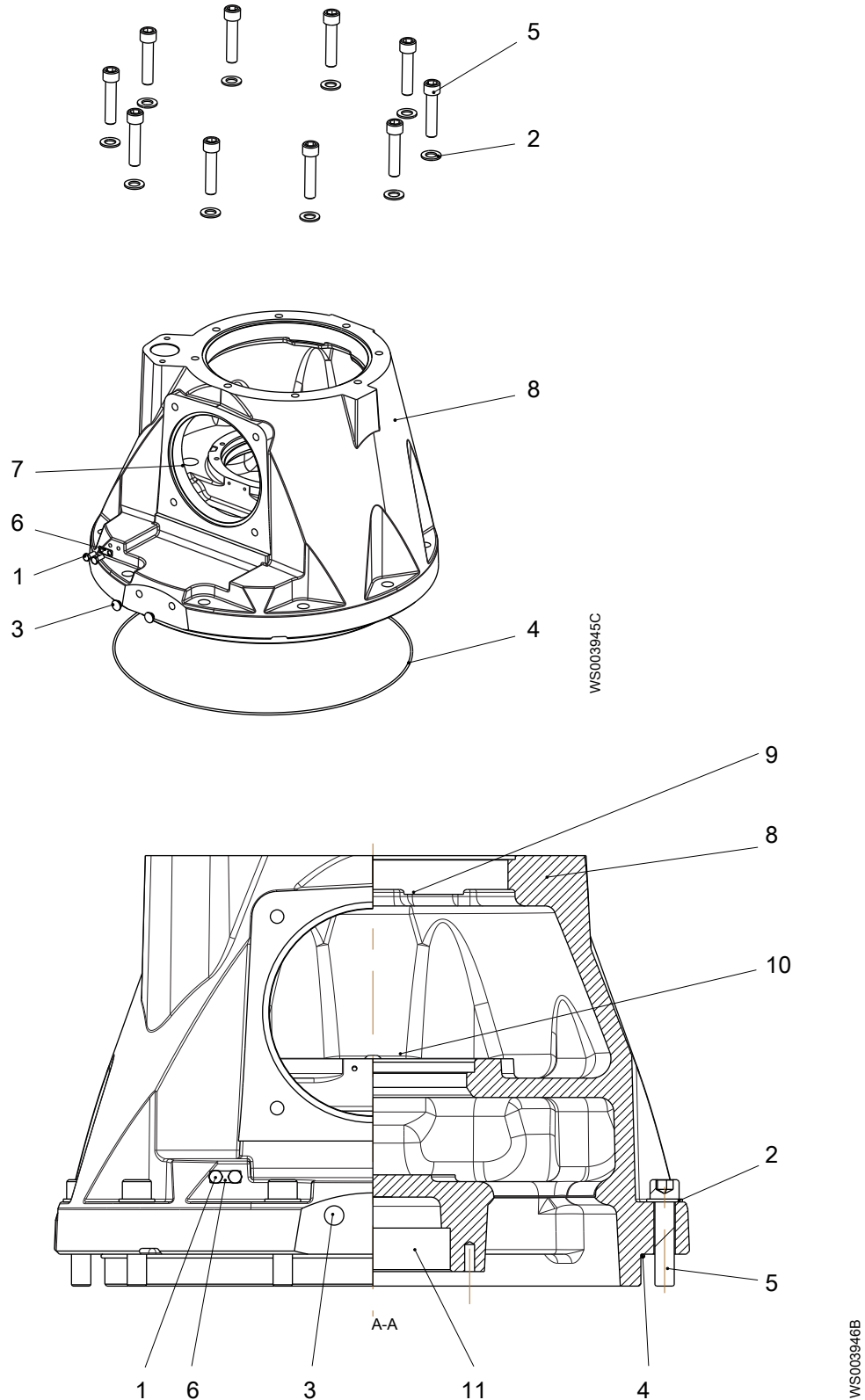
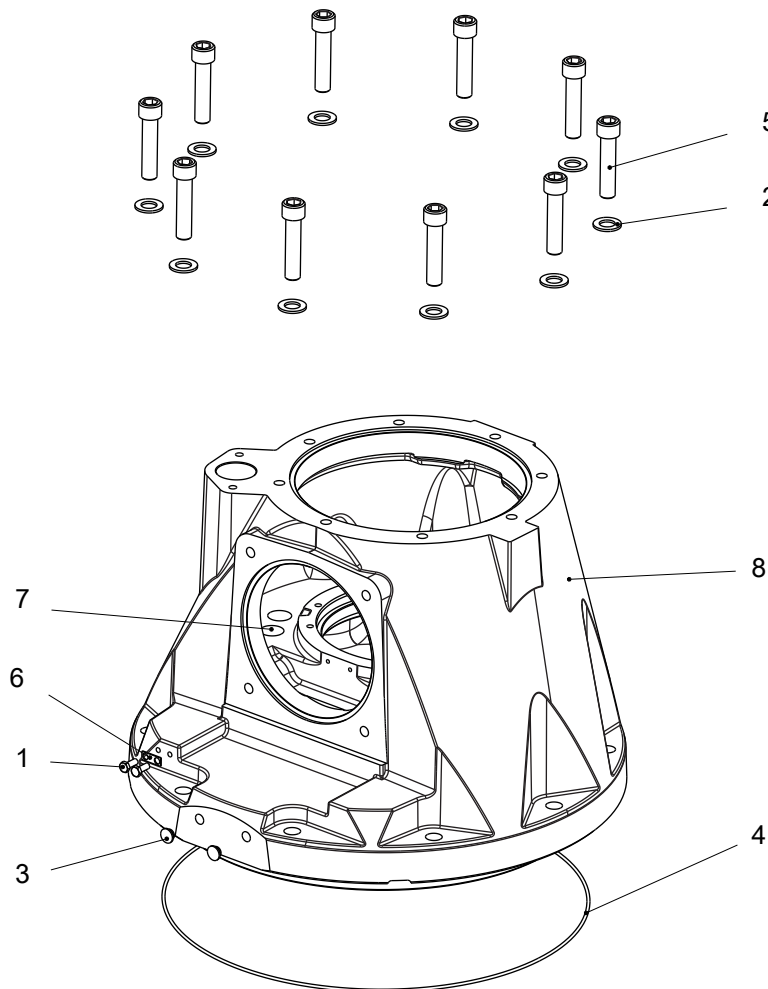


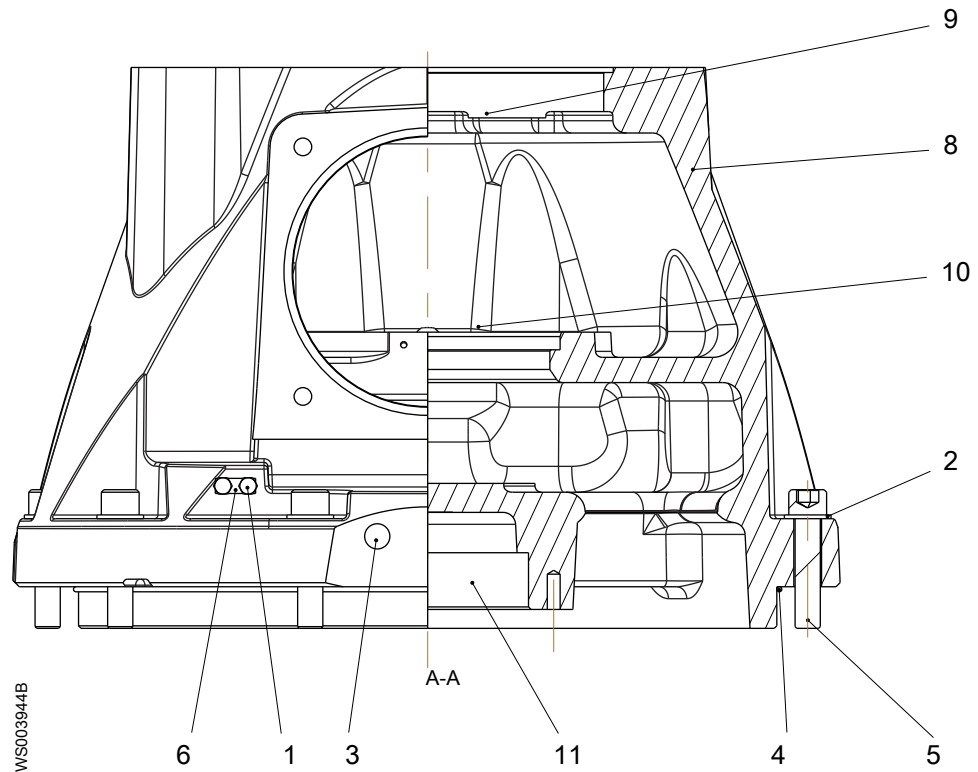
Table 6:

| Item | Denomination | Part No. | Qty. |
|------|---|---|------|
| 1 | Hexagon head screw M8 x 20 | 81 41 04 | 2 |
| 2 | Washer 21.0 x 37.0 x 3.0 | 82 35 26 | 10 |
| 3 | Protective plug | 82 69 41 | 4 |
| 4 | O-ring 529.30 x 5.70 | 82 78 92 | 1 |
| 5 | Hexagon socket head cap screw M20 x 90 | 82 84 00 | 10 |
| 6 | Earthing plate | 303 09 00 | 1 |
| 7 | EI lead through unit | 544 41 00 | 1 |
| 8 | Connection housing | See Connection housing variants on page 62. | 1 |
| 9 | Electrical components monitoring connection housing | See In connection house: Pumps equipped with MAS 711 on page 111. | 1 |
| 10 | Electrical components power | See Electrical components: Power on page 85. | 1 |
| 11 | Support bearing | See Support bearing on page 25. | 1 |

10.2 Horizontal: 17–32 control leads

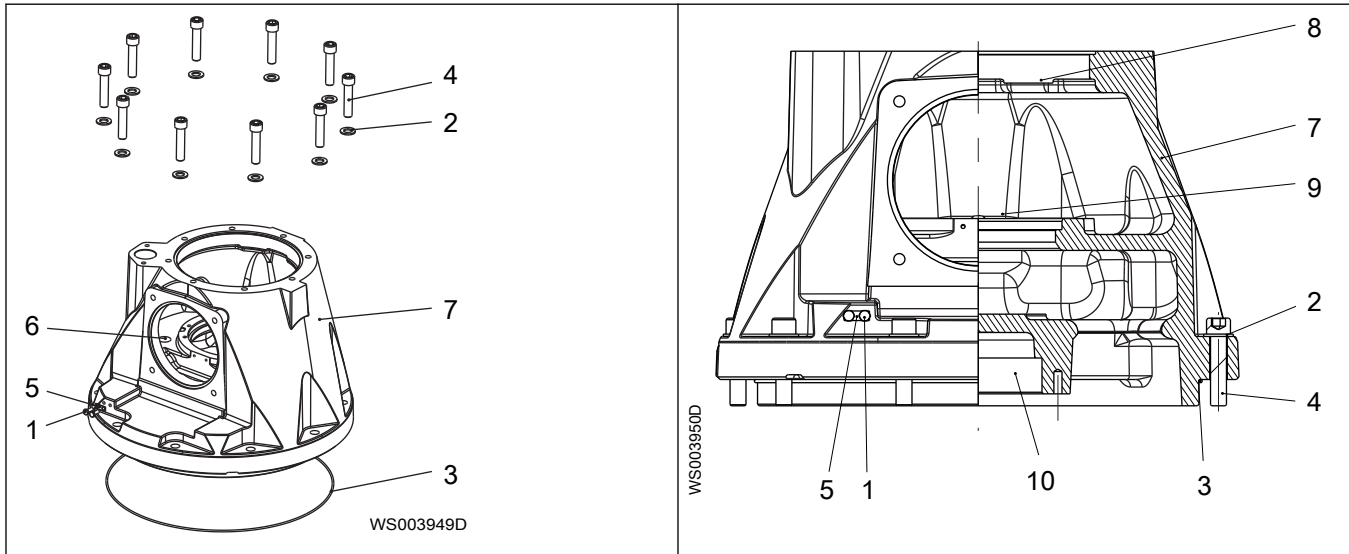


WS003943C



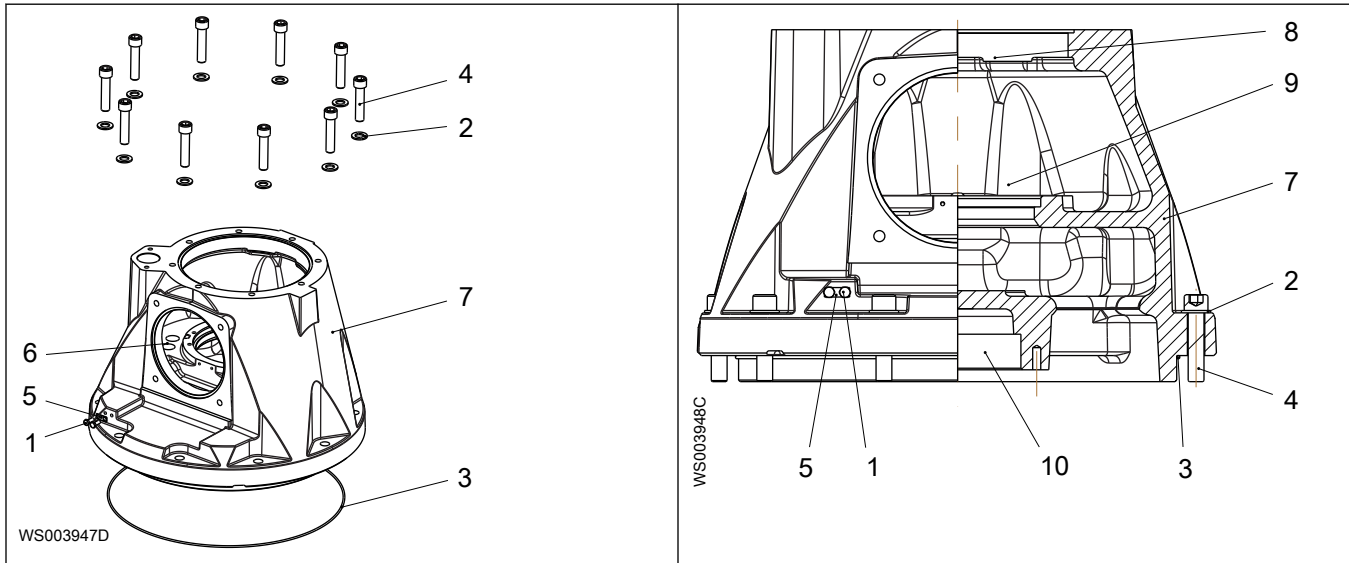
| Item | Denomination | Part No. | Qty. |
|------|---|--|------|
| 1 | Hexagon head screw M8 x 20 | 81 41 04 | 2 |
| 2 | Washer 21.0 x 37.0 x 3.0 | 82 35 26 | 10 |
| 3 | Protective plug | 82 69 41 | 4 |
| 4 | O-ring 529.30 x 5.70 | 82 78 92 | 1 |
| 5 | Hexagon socket head cap screw M20 x 90 | 82 84 00 | 10 |
| 6 | Earthing plate | 303 09 00 | 1 |
| 7 | EI lead through unit | 544 41 00 | 2 |
| 8 | Connection housing | See <i>Connection housing variants</i> on page 62. | 1 |
| 9 | Electrical components monitoring connection housing | See <i>In connection house: Pumps equipped with MAS 711</i> on page 111. | 1 |
| 10 | Electrical components power | See <i>Electrical components: Power</i> on page 85. | 1 |
| 11 | Support bearing | See <i>Support bearing</i> on page 25. | 1 |

10.3 Vertical: Up to 16 control leads



| Item | Denomination | Part No. | Qty. |
|------|---|--|------|
| 1 | Hexagon head screw M8 x 20 | 81 41 04 | 2 |
| 2 | Washer 21.0 x 37.0 x 3.0 | 82 35 26 | 10 |
| 3 | O-ring 529.30 x 5.70 | 82 78 92 | 1 |
| 4 | Hexagon socket head cap screw M20 x 90 | 82 84 00 | 10 |
| 5 | Earthing plate | 303 09 00 | 1 |
| 6 | EI lead through unit | 544 41 00 | 1 |
| 7 | Connection housing | See <i>Connection housing variants</i> on page 62. | 1 |
| 8 | Electrical components monitoring connection housing | See <i>In connection house: Pumps equipped with MAS 711</i> on page 111. | 1 |
| 9 | Electrical components power | See <i>Electrical components: Power</i> on page 85. | 1 |
| 10 | Support bearing | See <i>Support bearing</i> on page 25. | 1 |

10.4 Vertical: 17–32 control leads



| Item | Denomination | Part No. | Qty. |
|------|---|---|------|
| 1 | Hexagon head screw M8 x 20 | 81 41 04 | 2 |
| 2 | Washer 21.0 x 37.0 x 3.0 | 82 35 26 | 10 |
| 3 | O-ring 529.30 x 5.70 | 82 78 92 | 1 |
| 4 | Hexagon socket head cap screw M20 x 90 | 82 84 00 | 10 |
| 5 | Earthing plate | 303 09 00 | 1 |
| 6 | EI lead through unit | 544 41 00 | 2 |
| 7 | Connection housing | See Connection housing variants on page 62. | 1 |
| 8 | Electrical components monitoring connection housing | See In connection house: Pumps equipped with MAS 711 on page 111. | 1 |
| 9 | Electrical components power | See Electrical components: Power on page 85. | 1 |
| 10 | Support bearing | See Support bearing on page 25. | 1 |

10.5 Connection housing variants

Spare parts marked with EX after the part number are subject to dimensional accuracy inspection.

| Control cable | Number of control leads | Installation | Part No. Standard drive units | Part No. EX drive units |
|---------------|-------------------------|--------------|----------------------------------|----------------------------|
| Yes | Up to 16 | Horizontal | 845 94 04 | 845 94 05 (EX) |
| Yes | Up to 16 | Vertical | 845 94 00 | 845 94 01 (EX) |
| Yes | 17–32 | Horizontal | 845 94 06 | 845 94 07 (EX) |
| Yes | 17–32 | Vertical | 845 94 02 | 845 94 03 (EX) |
| No | Up to 16 | Horizontal | 845 94 12 | 845 94 13 (EX) |
| No | Up to 16 | Vertical | 845 94 08 | 845 94 09 (EX) |
| No | 17–32 | Horizontal | 845 94 14 | 845 94 15 (EX) |
| No | 17–32 | Vertical | 845 94 10 | 845 94 11 (EX) |

11 Lifting Handle

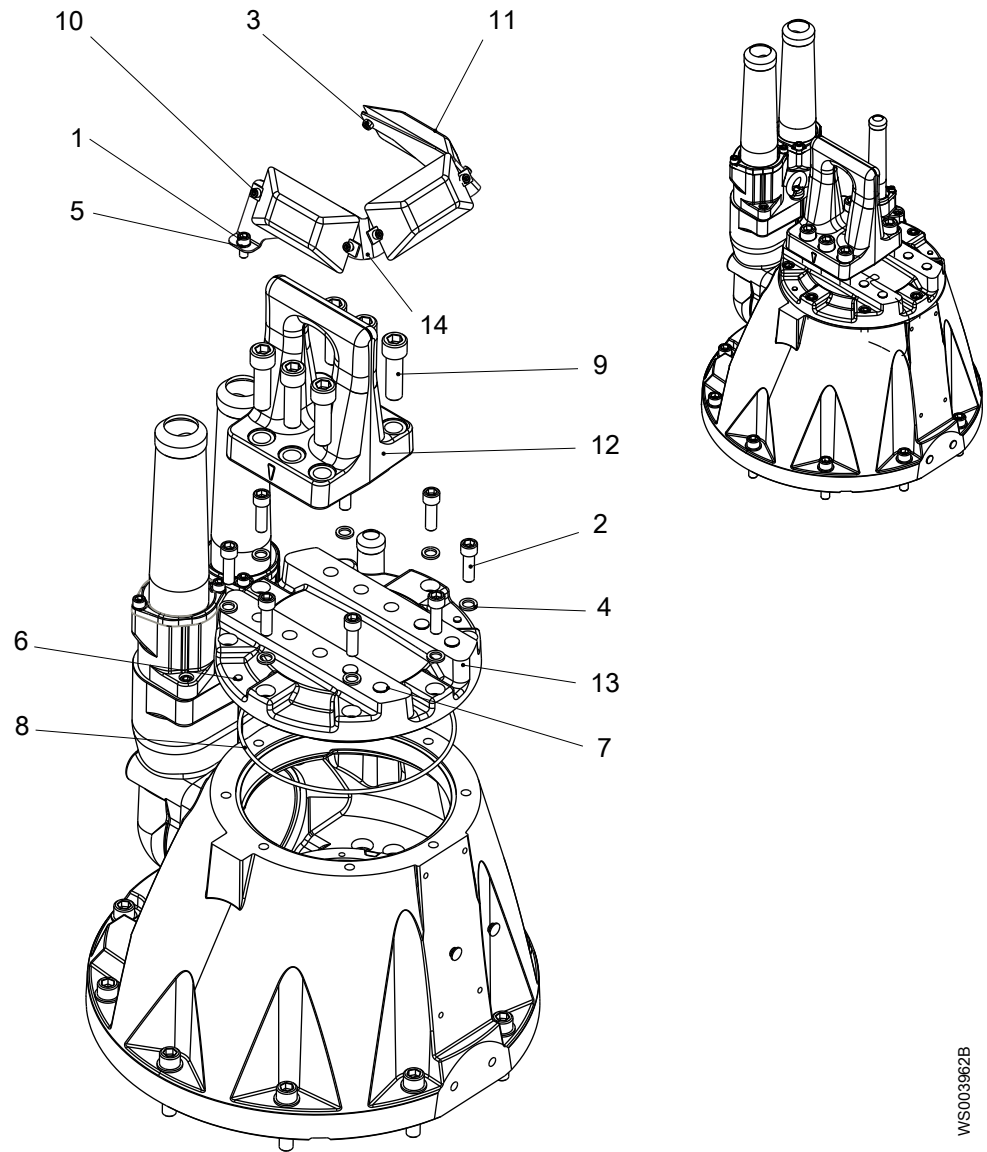
11.1 Configurations

| Pump | Drive Unit | | | |
|--|---|---|---|---|
| | 805/815 | 835/845 | 865/875 | 885/895 |
| <ul style="list-style-type: none"> L-, P-pumps Drive unit only (no hydraulic unit) | <i>Lifting handle: Configuration 1</i> on page 64 | <i>Lifting handle: Configuration 1</i> on page 64 | <i>Lifting handle: Configuration 1</i> on page 64 | <i>Lifting handle: Configuration 1</i> on page 64 |
| 3240 | <i>Lifting handle: Configuration 1</i> on page 64 | <i>Lifting handle: Configuration 1</i> on page 64 | <i>Lifting handle: Configuration 1</i> on page 64 | <i>Lifting handle: Configuration 1</i> on page 64 |
| 3312 | — | <i>Lifting handle: Configuration 1</i> on page 64 | <i>Lifting handle: Configuration 1</i> on page 64 | <i>Lifting handle: Configuration 1</i> on page 64 |
| 3400 | <i>Lifting handle: Configuration 2</i> on page 66 | <i>Lifting handle: Configuration 2</i> on page 66 | <i>Lifting handle: Configuration 1</i> on page 64 | <i>Lifting handle: Configuration 1</i> on page 64 |
| 3501 | <i>Lifting handle: Configuration 2</i> on page 66 | <i>Lifting handle: Configuration 2</i> on page 66 | <i>Lifting handle: Configuration 2</i> on page 66 | <i>Lifting handle: Configuration 2</i> on page 66 |
| 3531 | <i>Lifting handle: Configuration 2</i> on page 66 | <i>Lifting handle: Configuration 2</i> on page 66 | <i>Lifting handle: Configuration 2</i> on page 66 | <i>Lifting handle: Configuration 2</i> on page 66 |
| 3602 | <i>Lifting handle: Configuration 3</i> on page 68 | <i>Lifting handle: Configuration 3</i> on page 68 | <i>Lifting handle: Configuration 3</i> on page 68 | <i>Lifting handle: Configuration 3</i> on page 68 |

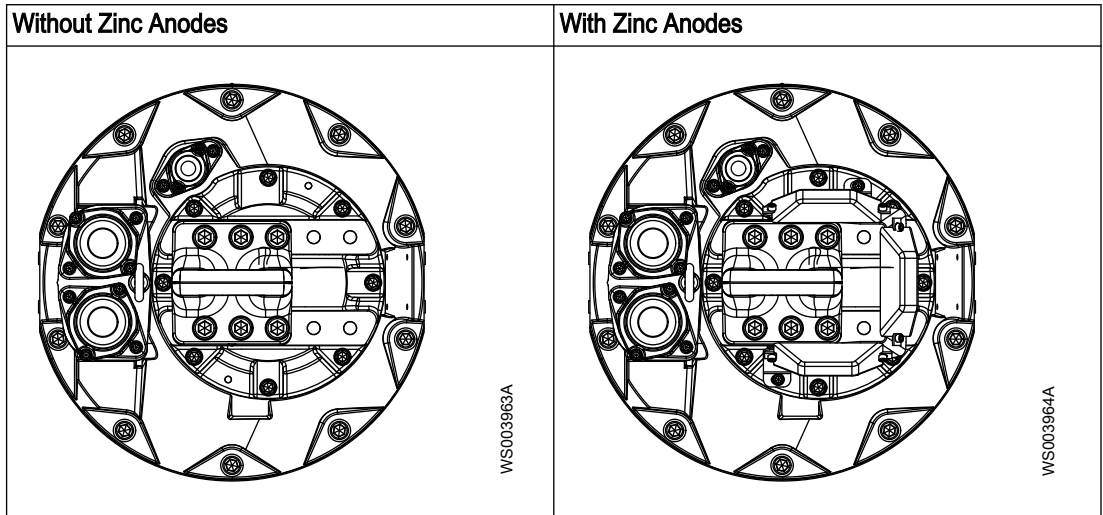
Turbines

The 12-ton lifting handle 663 47 00 must be used with turbines.

11.2 Lifting handle: Configuration 1



WS003962B



Spare parts marked with "EX" after the part number are subject to dimensional accuracy inspection.

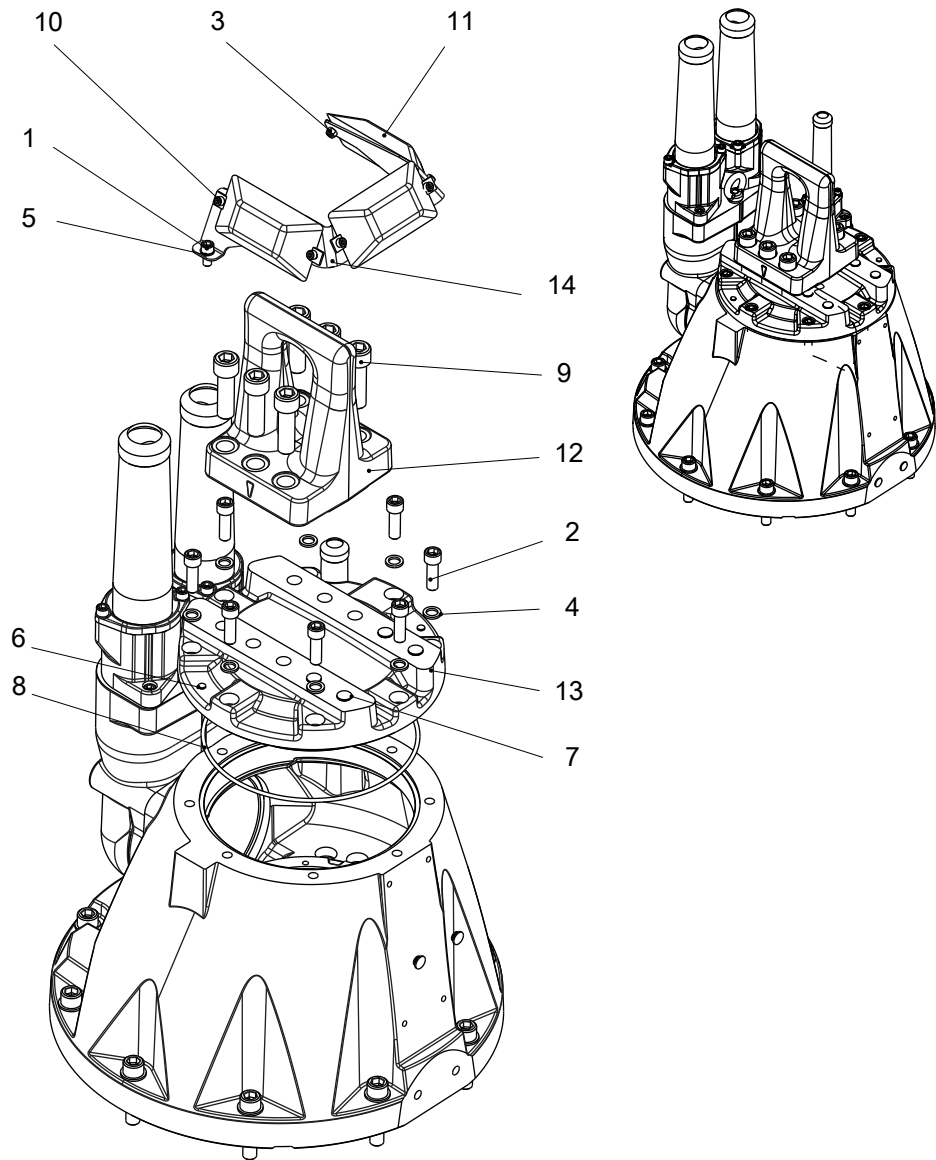
| Item | Denomination | Part No. | Part No. | Part No. | Part No. | Qty. |
|------|--|----------------------|----------------------|-------------|----------------|------|
| | | 805, 835, 865 | 815, 845, 875 | 885 | 895 | |
| 1 | Hexagon socket head cap screw M12 x 25 | 82 00 68 * | 82 00 68 * | 82 00 68 * | 82 00 68 * | 2 |
| 2 | Hexagon socket head cap screw M16 x 50 | 82 01 07 | 82 01 07 | 82 01 07 | 82 01 07 | 8 |
| 3 | Hexagon nut | 82 27 27 * | 82 27 27 * | 82 27 27 * | 82 27 27 * | 6 |
| 4 | Lock washer | 82 50 19 | 82 50 19 | 82 50 19 | 82 50 19 | 8 |
| 5 | Lock washer | 82 50 17 * | 82 50 17 * | 82 50 17 * | 82 50 17 * | 2 |
| 6 | Protective plug | 82 66 73 ** | 82 66 73 ** | 82 66 73 ** | 82 66 73 ** | 2 |
| 7 | Protective plug | 82 71 00 | 82 71 00 | 82 71 00 | 82 71 00 | 4 |
| 8 | O-ring 299.3 x 5.7 | 82 75 03 | 82 75 03 | 82 75 03 | 82 75 03 | 1 |
| 9 | Hexagon socket head cap screw M24 x 80 | 83 04 44 | 83 04 44 | 83 04 44 | 83 04 44 | 6 |
| 10 | Hexagon socket head cap screw M8 x 16 | 83 02 97 * | 83 02 97 * | 83 02 97 * | 83 02 97 * | 6 |
| 11 | Zinc anode | 84 55 73 * | 84 55 73 * | 84 55 73 * | 84 55 73 * | 3 |
| 12 | Lifting handle | 666 34 00 | 666 34 00 (EX) | 663 47 00 | 663 47 00 (EX) | 1 |
| 13 | Cover | 679 48 00 | 679 48 01 (EX) | 679 48 00 | 679 48 01 (EX) | 1 |
| 14 | Holder | 682 47 00 * | 682 47 00 * | 682 47 00 * | 682 47 00 * | 1 |

* Parts for the optional zinc anodes

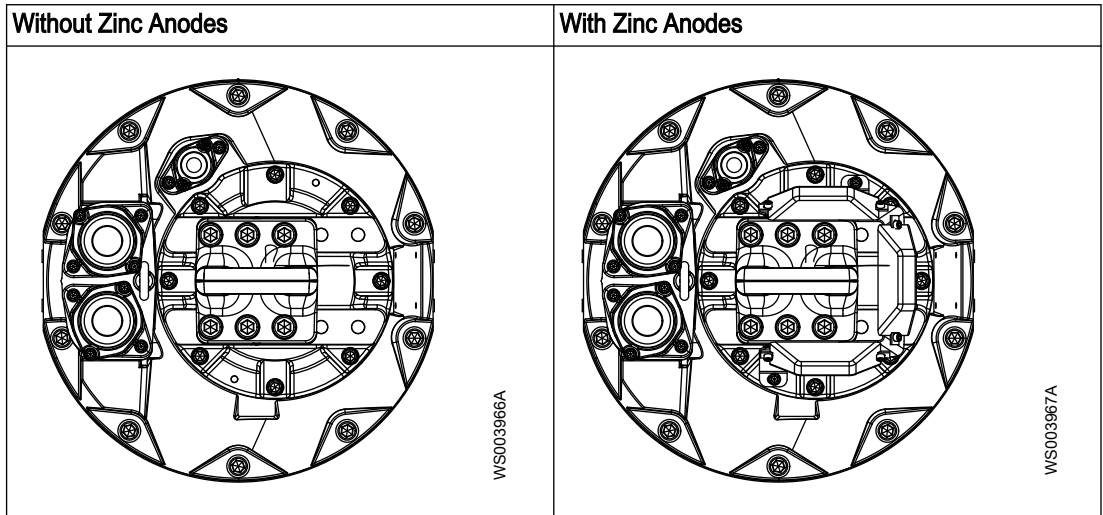
** Option without zinc anodes

(EX) Part is subject to dimensional accuracy inspection

11.3 Lifting handle: Configuration 2



WS003965B



Spare parts marked with "EX" after the part number are subject to dimensional accuracy inspection.

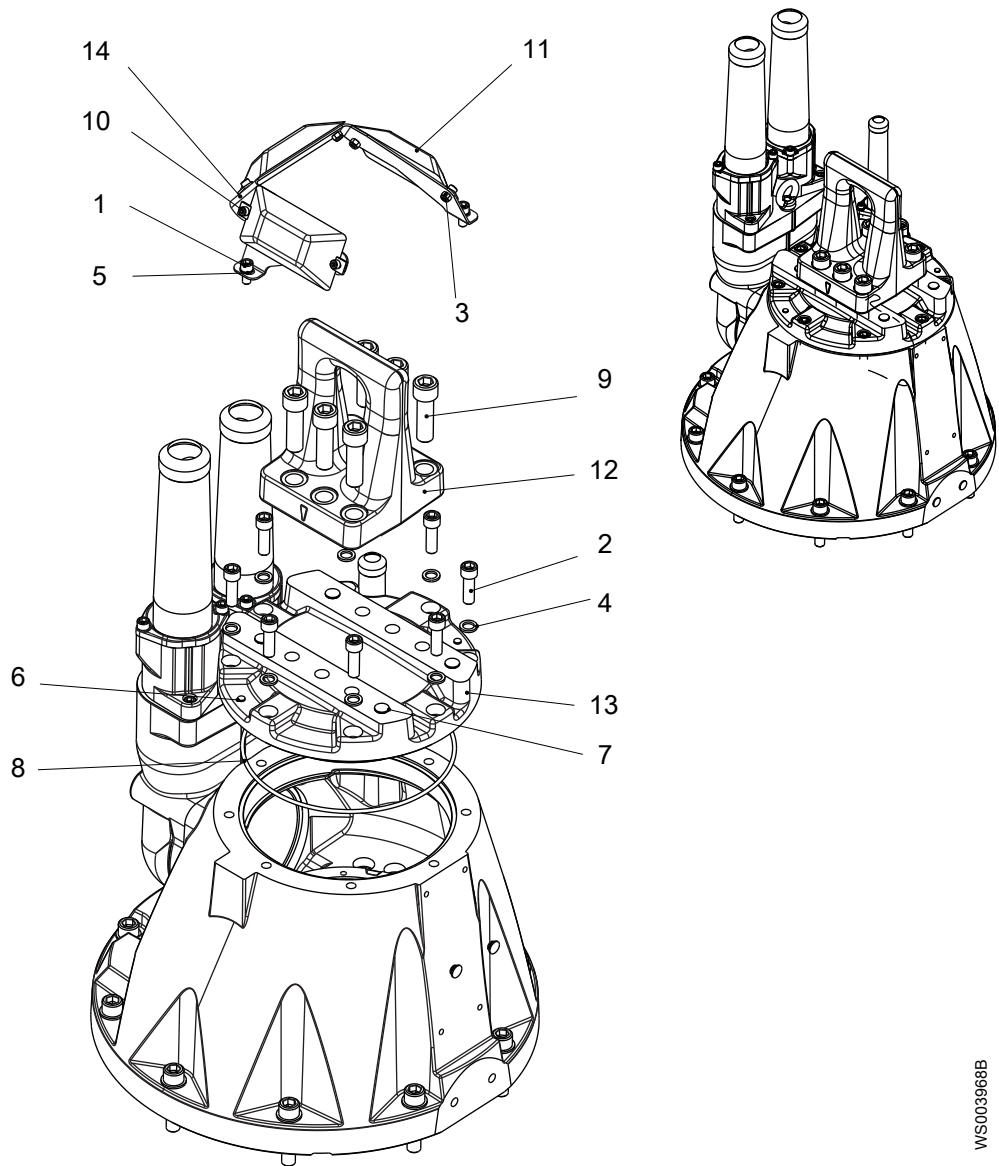
| Item | Denomination | Part No. | Part No. | Part No. | Part No. | Qty. |
|------|--|----------------------|----------------------|-------------|----------------|------|
| | | 805, 835, 865 | 815, 845, 875 | 885 | 895 | |
| 1 | Hexagon socket head cap screw M12 x 25 | 82 00 68 * | 82 00 68 * | 82 00 68 * | 82 00 68 * | 2 |
| 2 | Hexagon socket head cap screw M16 x 50 | 82 01 07 | 82 01 07 | 82 01 07 | 82 01 07 | 8 |
| 3 | Hexagon nut | 82 27 27 * | 82 27 27 * | 82 27 27 * | 82 27 27 * | 6 |
| 4 | Lock washer | 82 50 19 | 82 50 19 | 82 50 19 | 82 50 19 | 8 |
| 5 | Lock washer | 82 50 17 * | 82 50 17 * | 82 50 17 * | 82 50 17 * | 2 |
| 6 | Protective plug | 82 66 73 ** | 82 66 73 ** | 82 66 73 ** | 82 66 73 ** | 2 |
| 7 | Protective plug | 82 71 00 ** | 82 71 00 ** | 82 71 00 ** | 82 71 00 ** | 4 |
| 8 | O-ring 299.3 x 5.7 | 82 75 03 | 82 75 03 | 82 75 03 | 82 75 03 | 1 |
| 9 | Hexagon socket head cap screw M24 x 80 | 83 04 44 | 83 04 44 | 83 04 44 | 83 04 44 | 6 |
| 10 | Hexagon socket head cap screw M8 x 16 | 83 02 97 * | 83 02 97 * | 83 02 97 * | 83 02 97 * | 6 |
| 11 | Zinc anode | 84 55 73 * | 84 55 73 * | 84 55 73 * | 84 55 73 * | 3 |
| 12 | Lifting handle | 666 34 00 | 666 34 00 (EX) | 663 47 00 | 666 34 00 (EX) | 1 |
| 13 | Cover | 679 48 00 | 679 48 01 (EX) | 679 48 00 | 679 48 01 (EX) | 1 |
| 14 | Holder | 682 47 00 * | 682 47 00 * | 682 47 00 * | 682 47 00 * | 1 |

* Parts for the optional zinc anodes

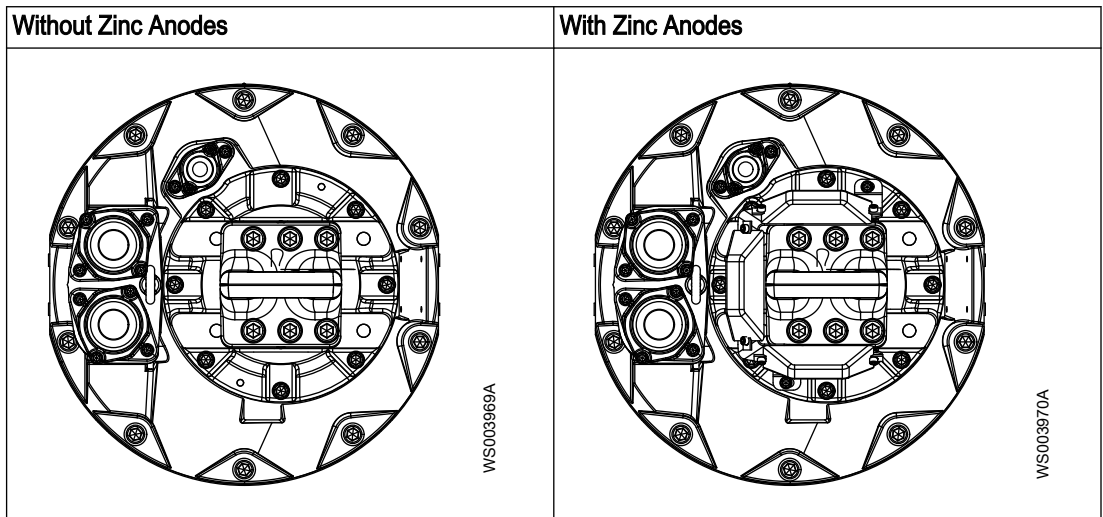
** Option without zinc anodes

(EX) Part is subject to dimensional accuracy inspection

11.4 Lifting handle: Configuration 3



WS003968B



Spare parts marked with "EX" after the part number are subject to dimensional accuracy inspection.

| Item | Denomination | Part No. | Part No. | Part No. | Part No. | Qty. |
|------|--|--------------------------|--------------------------|-------------|-------------------|------|
| | | 805, 835, 865 | 815, 845, 875 | 885 | 895 | |
| 1 | Hexagon socket head cap screw M12 x 25 | 82 00 68 * | 82 00 68 * | 82 00 68 * | 82 00 68 * | 2 |
| 2 | Hexagon socket head cap screw M16 x 50 | 82 01 07 | 82 01 07 | 82 01 07 | 82 01 07 | 8 |
| 3 | Hexagon nut | 82 27 27 * | 82 27 27 * | 82 27 27 * | 82 27 27 * | 6 |
| 4 | Lock washer | 82 50 19 | 82 50 19 | 82 50 19 | 82 50 19 | 8 |
| 5 | Lock washer | 82 50 17 * | 82 50 17 * | 82 50 17 * | 82 50 17 * | 2 |
| 6 | Protective plug | 82 66 73 | 82 66 73 | 82 66 73 | 82 66 73 | 2 |
| 7 | Protective plug | 82 71 00 ** | 82 71 00 ** | 82 71 00 ** | 82 71 00 ** | 4 |
| 8 | O-ring 299.3 x 5.7 | 82 75 03 | 82 75 03 | 82 75 03 | 82 75 03 | 1 |
| 9 | Hexagon socket head cap screw M24 x 80 | 83 04 44 | 83 04 44 | 83 04 44 | 83 04 44 | 6 |
| 10 | Hexagon socket head cap screw M8 x 16 | 83 02 97 * | 83 02 97 * | 83 02 97 * | 83 02 97 * | 6 |
| 11 | Zinc anode | 84 55 73 * | 84 55 73 * | 84 55 73 * | 84 55 73 * | 3 |
| 12 | Lifting handle | 666 34 00 | 666 34 00 (EX) | 663 47 00 | 663 47 00 (EX) | 1 |
| 13 | Cover | 679 48 00 | 679 48 01 (EX) | 679 48 00 | 679 48 01 (EX) | 1 |
| 14 | Holder | 682 47 00 * | 682 47 00 * | 682 47 00 * | 682 47 00 * | 1 |

* Parts for the optional zinc anodes

** Option without zinc anodes

(EX) Part is subject to dimensional accuracy inspection

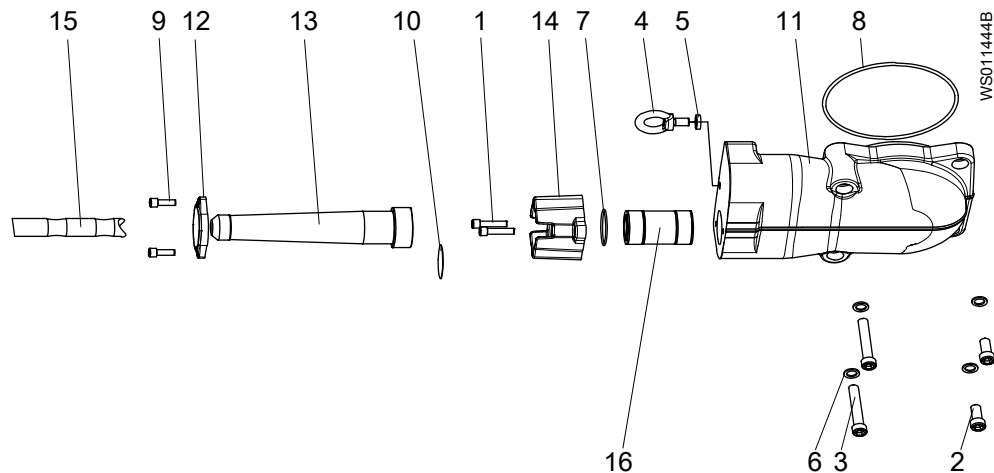
12 Cable Entry

12.1 Power cable

12.1.1 1 cable

70 mm entry

Cable sleeve units must be chosen to fit the precise cable diameter. Measure the replacement cable on site and choose the appropriate cable sleeve unit, see [70 mm](#) on page 77.



Spare parts marked with “EX” after the part number are subject to dimensional accuracy inspection.

| Item | Denomination | | Part No. Standard units | Part No. Ex-proof units | Qty. |
|------|-------------------------------|-------------------|-------------------------------|-------------------------------|------|
| 1 | Hexagon socket head cap screw | M12 x 45 | 82 00 72 | 82 00 72 | 2 |
| 2 | Hexagon socket head cap screw | M16 x 45 | 82 01 06 | 82 01 06 | 2 |
| 3 | Hexagon socket head cap screw | M16 x 120 | 82 01 17 | 82 01 17 | 2 |
| 4 | Lifting eye bolt | | 82 31 15 | 82 31 15 | 1 |
| 5 | Washer | 17.0 x 30.0 x 6.0 | 82 37 07 | 82 37 07 | 1 |
| 6 | Lock washer | | 82 50 19 | 82 50 19 | 4 |
| 7 | O-ring | 69.50 x 3.0 | 82 74 67 | 82 74 67 | 1 |
| 8 | O-ring | 209.30 x 5.70 | 82 74 94 | 82 74 94 | 1 |
| 9 | Hexagon socket head cap screw | M12 x 30 | 83 03 46 | 83 03 46 | 2 |
| 10 | Plate | | 433 47 06 ⁽¹⁾ | 433 47 06 ⁽¹⁾ | 1 |
| 11 | Entrance flange | | 543 97 02 | 543 97 03 (EX) | 1 |
| 12 | Connection flange | | 627 63 00 | 627 63 00 (EX) | 1 |
| 13 | Bending protection | | 627 66 00 | 627 66 00 | 1 |
| 14 | Entrance flange | | 734 36 00 | 734 36 01 (EX) | 1 |

| Item | Denomination | Part No. Standard units | Part No. Ex-proof units | Qty. |
|------|-------------------|--|-------------------------|------|
| 15 | Cable | | | 1 |
| 16 | Cable sleeve unit | See Seal sleeves and washers . | | 1 |

(1) The plate is used with the no-cable option.

90 mm entry

Cable sleeve units must be chosen to fit the precise cable diameter. Measure the replacement cable on site and choose the appropriate cable sleeve unit, see [90 mm](#) on page 78.

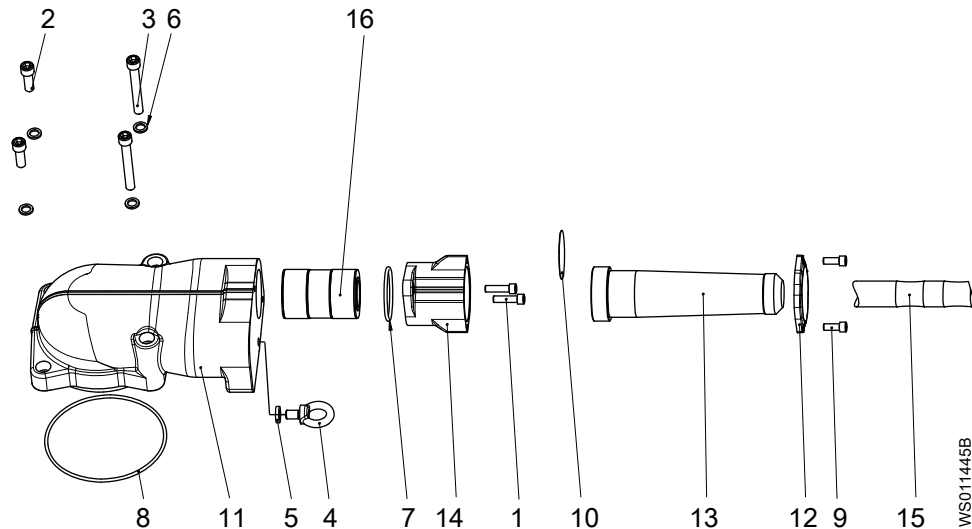


Figure 3: 730 70 00 rev 4, sheet 3.

Spare parts marked with “EX” after the part number are subject to dimensional accuracy inspection.

| Item | Denomination | Part No. Standard units | Part No. Ex-proof units | Qty. | |
|------|-------------------------------|-------------------------|--------------------------|--------------------------|---|
| 1 | Hexagon socket head cap screw | M12 x 45 | 82 00 72 | 82 00 72 | 2 |
| 2 | Hexagon socket head cap screw | M16 x 45 | 82 01 06 | 82 01 06 | 2 |
| 3 | Hexagon socket head cap screw | M16 x 120 | 82 01 17 | 82 01 17 | 2 |
| 4 | Lifting eye bolt | | 82 31 15 | 82 31 15 | 1 |
| 5 | Washer | 17.0 x 30.0 x 6.0 | 82 37 07 | 82 37 07 | 1 |
| 6 | Lock washer | | 82 50 19 | 82 50 19 | 4 |
| 7 | O-ring | 89.10 x 5.70 | 82 74 10 | 82 74 10 | 1 |
| 8 | O-ring | 209.30 x 5.70 | 82 74 94 | 82 74 94 | 1 |
| 9 | Hexagon socket head cap screw | M12 x 30 | 83 03 46 | 83 03 46 | 2 |
| 10 | Plate | | 433 47 08 ⁽¹⁾ | 433 47 08 ⁽¹⁾ | 1 |
| 11 | Entrance flange | | 543 97 00 | 543 97 01 (EX) | 1 |

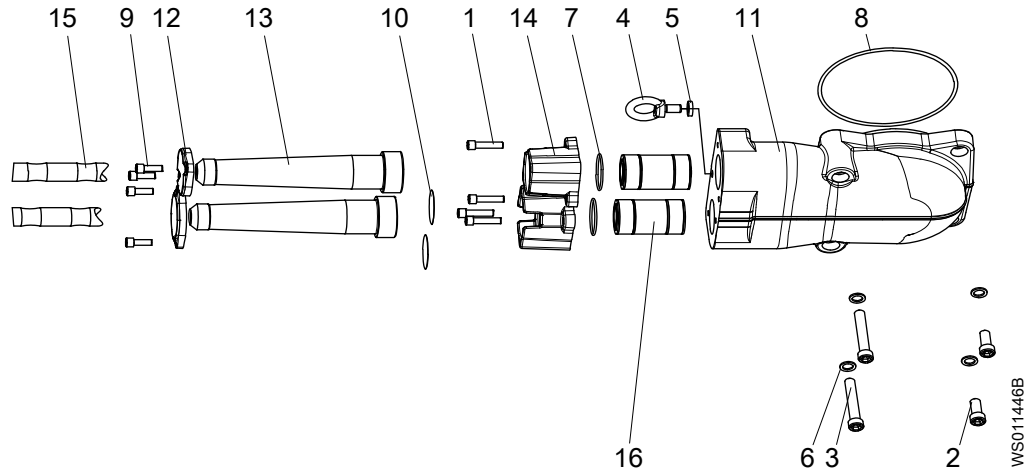
| Item | Denomination | Part No. Standard units | Part No. Ex-proof units | Qty. |
|------|--------------------|--------------------------------------|-------------------------|------|
| 12 | Connection flange | 627 64 00 | 627 64 00 (EX) | 1 |
| 13 | Bending protection | 627 68 00 | 627 68 00 | 1 |
| 14 | Entrance flange | 734 37 00 | 734 37 01 (EX) | 1 |
| 15 | Cable | | | 1 |
| 16 | Cable sleeve unit | See <i>Seal sleeves and washers.</i> | | 1 |

(1) The plate is used with the no-cable option.

12.1.2 2 cables

70 mm entry

Cable sleeve units must be chosen to fit the precise cable diameter. Measure the replacement cable on site and choose the appropriate cable sleeve unit, see [70 mm](#) on page 77.



Spare parts marked with “EX” after the part number are subject to dimensional accuracy inspection.

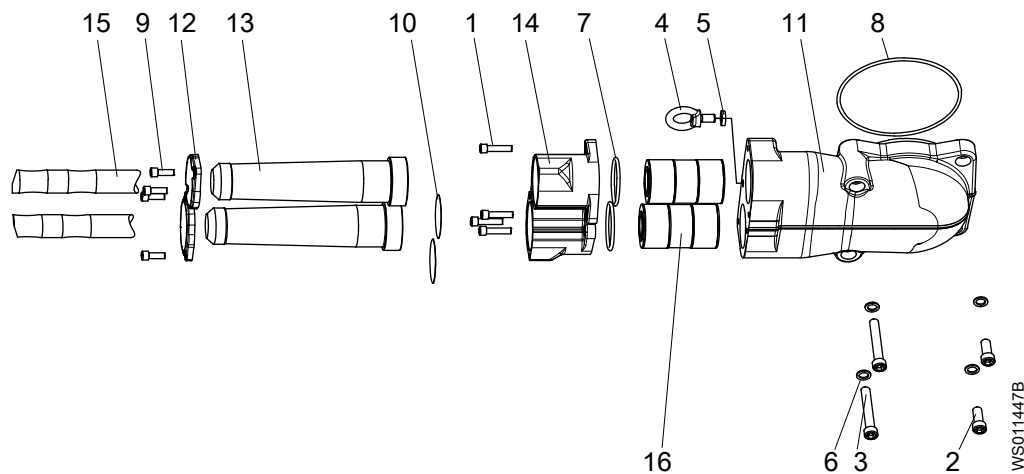
| Item | Denomination | Part No. Standard units | Part No. Ex-proof units | Qty. | |
|------|-------------------------------|-------------------------|-------------------------|----------|---|
| 1 | Hexagon socket head cap screw | M12 x 45 | 82 00 72 | 82 00 72 | 4 |
| 2 | Hexagon socket head cap screw | M16 x 45 | 82 01 06 | 82 01 06 | 2 |
| 3 | Hexagon socket head cap screw | M16 x 120 | 82 01 17 | 82 01 17 | 2 |
| 4 | Lifting eye bolt | | 82 31 15 | 82 31 15 | 1 |
| 5 | Washer | 17.0 x 30.0 x 6.0 | 82 37 07 | 82 37 07 | 1 |
| 6 | Lock washer | | 82 50 19 | 82 50 19 | 4 |
| 7 | O-ring | 69.50 x 3.0 | 82 74 67 | 82 74 67 | 2 |
| 8 | O-ring | 209.30 x 5.70 | 82 74 94 | 82 74 94 | 1 |
| 9 | Hexagon socket head cap screw | M12 x 30 | 83 03 46 | 83 03 46 | 4 |

| Item | Denomination | Part No. Standard units | Part No. Ex-proof units | Qty. |
|------|--------------------|--------------------------------------|--------------------------|------|
| 10 | Plate | 433 47 06 ⁽¹⁾ | 433 47 06 ⁽¹⁾ | 2 |
| 11 | Entrance flange | 543 97 08 | 543 97 09 (EX) | 1 |
| 12 | Connection flange | 627 63 00 | 627 63 00 (EX) | 2 |
| 13 | Bending protection | 627 66 00 | 627 66 00 | 2 |
| 14 | Entrance flange | 734 36 00 | 734 36 01 (EX) | 2 |
| 15 | Cable | | | 2 |
| 16 | Cable sleeve unit | See <i>Seal sleeves and washers.</i> | | 2 |

⁽¹⁾ The plate is used with the no-cable option.

90 mm entry

Cable sleeve units must be chosen to fit the precise cable diameter. Measure the replacement cable on site and choose the appropriate cable sleeve unit, see [90 mm](#) on page 78.



Spare parts marked with “EX” after the part number are subject to dimensional accuracy inspection.

| Item | Denomination | | Part No. Standard units | Part No. Ex-proof units | Qty. |
|------|-------------------------------|-------------------|-------------------------|-------------------------|------|
| 1 | Hexagon socket head cap screw | M12 x 45 | 82 00 72 | 82 00 72 | 4 |
| 2 | Hexagon socket head cap screw | M16 x 45 | 82 01 06 | 82 01 06 | 2 |
| 3 | Hexagon socket head cap screw | M16 x 120 | 82 01 17 | 82 01 17 | 2 |
| 4 | Lifting eye bolt | | 82 31 15 | 82 31 15 | 1 |
| 5 | Washer | 17.0 x 30.0 x 6.0 | 82 37 07 | 82 37 07 | 1 |
| 6 | Lock washer | | 82 50 19 | 82 50 19 | 4 |
| 7 | O-ring | 89.10 x 5.70 | 82 74 10 | 82 74 10 | 2 |
| 8 | O-ring | 209.30 x 5.70 | 82 74 94 | 82 74 94 | 1 |

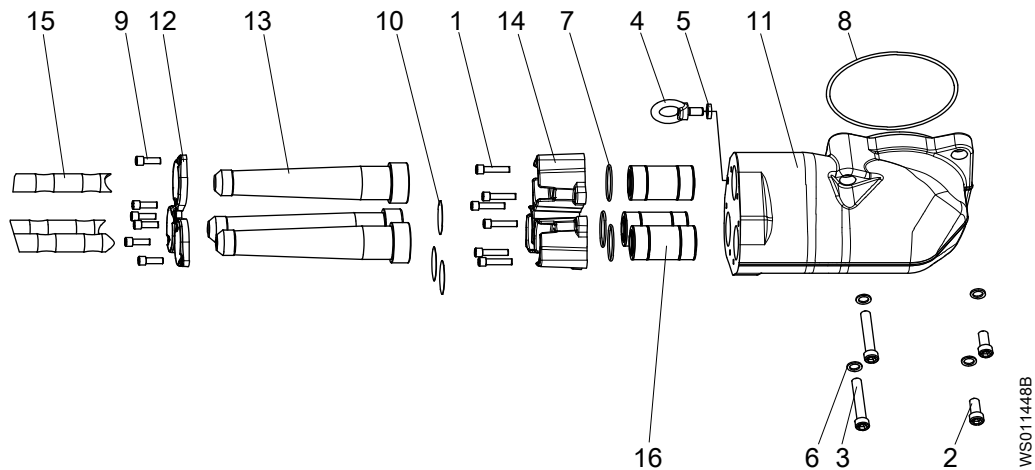
| Item | Denomination | | Part No. Standard units | Part No. Ex-proof units | Qty. |
|------|-------------------------------|----------|--------------------------------------|----------------------------|------|
| 9 | Hexagon socket head cap screw | M12 x 30 | 83 03 46 | 83 03 46 | 4 |
| 10 | Plate | | 433 47 08 ⁽¹⁾ | 433 47 08 ⁽¹⁾ | 2 |
| 11 | Entrance flange | | 543 97 06 | 543 97 07 (EX) | 1 |
| 12 | Connection flange | | 627 64 00 | 627 64 00 (EX) | 2 |
| 13 | Bending protection | | 627 68 00 | 627 68 00 | 2 |
| 14 | Entrance flange | | 734 37 00 | 734 37 01 (8EX) | 2 |
| 15 | Cable | | | | 2 |
| 16 | Cable sleeve unit | | See <i>Seal sleeves and washers.</i> | | 2 |

⁽¹⁾ The plate is used with the no-cable option.

12.1.3 3 cables

70 mm entry

Cable sleeve units must be chosen to fit the precise cable diameter. Measure the replacement cable on site and choose the appropriate cable sleeve unit, see [70 mm](#) on page 77.



Spare parts marked with “EX” after the part number are subject to dimensional accuracy inspection.

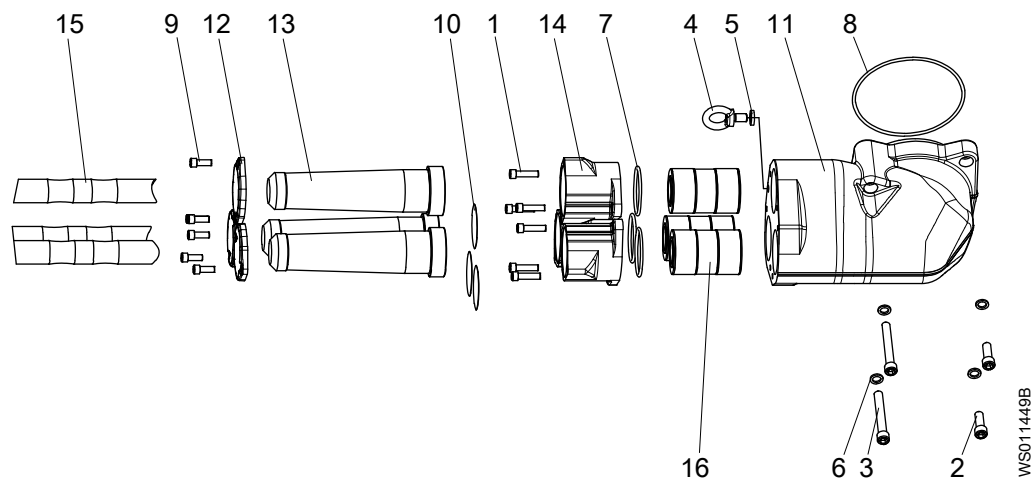
| Item | Denomination | | Part No. Standard units | Part No. Ex-proof units | Qty. |
|------|-------------------------------|-------------------|----------------------------|----------------------------|------|
| 1 | Hexagon socket head cap screw | M12 x 45 | 82 00 72 | 82 00 72 | 6 |
| 2 | Hexagon socket head cap screw | M16 x 45 | 82 01 06 | 82 01 06 | 2 |
| 3 | Hexagon socket head cap screw | M16 x 120 | 82 01 17 | 82 01 17 | 2 |
| 4 | Lifting eye bolt | | 82 31 15 | 82 31 15 | 1 |
| 5 | Washer | 17.0 x 30.0 x 6.0 | 82 37 07 | 82 37 07 | 1 |
| 6 | Lock washer | | 82 50 19 | 82 50 19 | 4 |

| Item | Denomination | | Part No. | Part No. | Qty. |
|------|-------------------------------|---------------|--|--------------------------|------|
| | | | Standard units | Ex-proof units | |
| 7 | O-ring | 69.50 x 3.0 | 82 74 67 | 82 74 67 | 3 |
| 8 | O-ring | 209.30 x 5.70 | 82 74 94 | 82 74 94 | 1 |
| 9 | Hexagon socket head cap screw | M12 x 30 | 83 03 46 | 83 03 46 | 6 |
| 10 | Plate | | 433 47 06 ⁽¹⁾ | 433 47 06 ⁽¹⁾ | 3 |
| 11 | Entrance flange | | 543 96 02 | 543 96 03 (EX) | 1 |
| 12 | Connection flange | | 627 63 00 | 627 63 00 (EX) | 3 |
| 13 | Bending protection | | 627 66 00 | 627 66 00 | 3 |
| 14 | Entrance flange | | 734 36 00 | 734 36 01 (EX) | 3 |
| 15 | Cable | | | | 3 |
| 16 | Cable sleeve unit | | See Seal sleeves and washers . | | 3 |

⁽¹⁾ The plate is used with the no-cable option.

90 mm entry

Cable sleeve units must be chosen to fit the precise cable diameter. Measure the replacement cable on site and choose the appropriate cable sleeve unit, see [90 mm](#) on page 78.



Spare parts marked with “EX” after the part number are subject to dimensional accuracy inspection.

| Item | Denomination | | Part No. | Part No. | Qty. |
|------|-------------------------------|-------------------|----------------|----------------|------|
| | | | Standard units | Ex-proof units | |
| 1 | Hexagon socket head cap screw | M12 x 45 | 82 00 72 | 82 00 72 | 6 |
| 2 | Hexagon socket head cap screw | M16 x 45 | 82 01 06 | 82 01 06 | 2 |
| 3 | Hexagon socket head cap screw | M16 x 120 | 82 01 17 | 82 01 17 | 2 |
| 4 | Lifting eye bolt | | 82 31 15 | 82 31 15 | 1 |
| 5 | Washer | 17.0 x 30.0 x 6.0 | 82 37 07 | 82 37 07 | 1 |
| 6 | Lock washer | | 82 50 19 | 82 50 19 | 4 |

| Item | Denomination | | Part No. | Part No. | Qty. |
|------|-------------------------------|---------------|---|--------------------------|------|
| | | | Standard units | Ex-proof units | |
| 7 | O-ring | 89.10 x 5.70 | 82 74 10 | 82 74 10 | 3 |
| 8 | O-ring | 209.30 x 5.70 | 82 74 94 | 82 74 94 | 1 |
| 9 | Hexagon socket head cap screw | M12 x 30 | 83 03 46 | 83 03 46 | 6 |
| 10 | Plate | | 433 47 08 ⁽¹⁾ | 433 47 08 ⁽¹⁾ | 3 |
| 11 | Entrance flange | | 543 96 00 | 543 96 01 (EX) | 1 |
| 12 | Connection flange | | 627 64 00 | 627 64 00 (EX) | 3 |
| 13 | Bending protection | | 627 68 00 | 627 68 00 | 3 |
| 14 | Entrance flange | | 734 37 00 | 734 37 01 (EX) | 3 |
| 15 | Cable | | | | 3 |
| 16 | Cable sleeve unit | | See Seal sleeves and washers. | | 3 |

⁽¹⁾ The plate is used with the no-cable option.

12.1.4 Cable part numbers

Cables, from cycle 20126 (17 August 2012)

The following cables contain power cores and a screened control element. The control element is used with the MAS 801 system. The control element should be capped when not in use.

| Type | Cable | Diameter, mm | Part No. | |
|-----------------|-----------------------------|--------------|----------|----------|
| Screened SUBCAB | S3x25 + 3x16/3 + S(4x0.5) | VFD | 29 - 31 | 94 19 94 |
| | S3x35 + 3x16/3 + S(4x0.5) | VFD | 32 - 34 | 94 19 95 |
| | S3x50 + 3x25/3 + S(4x0.5) | VFD | 38 - 40 | 94 19 96 |
| | S3x70 + 3x35/3 + 2S(2x0.5) | VFD | 42 - 44 | 94 19 97 |
| | S3x95 + 3x50/3 + 2S(2x0.5) | VFD | 44 - 47 | 94 19 98 |
| | S3x120 + 3x70/3 + 2S(2x0.5) | VFD | 50 - 52 | 94 19 99 |
| | S6x 95 + 95 + S(4x0.5) | VFD | 57 - 60 | 94 20 00 |
| SUBCAB | 4G25 + S(2x0.5) | | 32 - 34 | 94 19 83 |
| | 4G25 + S(2x0.5) | | 35 - 37 | 94 19 84 |
| | 3x50 + 2G35/2 + S(2x0.5) | | 35 - 37 | 94 19 85 |
| | 3x70 + 2G35/2 + S(2x0.5) | | 38 - 41 | 94 19 86 |
| | 3x95 + 2G50/2 + S(2x0.5) | | 47 - 50 | 94 19 87 |
| | 3x120 + 2G70/2 + S(2x0.5) | | 54 - 56 | 94 19 88 |

Table 7: Caps for unused control elements

| Type | Cable | Cap Part No. | Qty. |
|-----------------|-----------------------------|--------------|------|
| Screened SUBCAB | S3x25 + 3x16/3 + S(4x0.5) | 82 70 89 | 1 |
| | S3x35 + 3x16/3 + S(4x0.5) | 82 97 60 | |
| | S3x50 + 3x25/3 + S(4x0.5) | 82 97 61 | |
| | S3x70 + 3x35/3 + 2S(2x0.5) | 82 70 87 | |
| | S3x95 + 3x50/3 + 2S(2x0.5) | 82 70 88 | |
| | S3x120 + 3x70/3 + 2S(2x0.5) | 82 70 89 | |
| | S6x 95 + 95 + S(4x0.5) | 82 70 88 | |

| Type | Cable | Cap Part No. | Qty. |
|--------|---------------------------|--------------|------|
| SUBCAB | 4G25 + S(2x0.5) | 82 70 89 | |
| | 4G35 + S(2x0.5) | 82 97 60 | |
| | 3x50 + 2G35/2 + S(2x0.5) | 82 70 86 | |
| | 3x70 + 2G35/2 + S(2x0.5) | 82 70 86 | |
| | 3x95 + 2G50/2 + S(2x0.5) | 82 70 86 | |
| | 3x120 + 2G70/2 + S(2x0.5) | 82 70 86 | |

Support grip

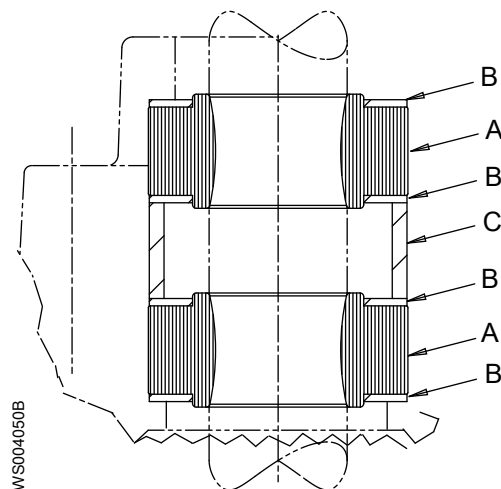
| Denomination | Size, mm (in) | Part No. | Qty. |
|--------------|------------------------------|----------|-------|
| Support grip | 25 - 36 mm (0.98 - 1.42 in.) | 83 57 25 | 1 - 3 |
| | 37 - 49 mm (1.46 - 1.93 in.) | 83 57 26 | |
| | 50 - 59 mm (1.97 - 2.32) | 83 57 27 | |
| | 60 - 74 mm (2.36 - 2.91) | 83 57 28 | |

Discontinued power cables

Before cycle 20126 (17 August 2012), power cables contained only power cores. These cables have been replaced by cables containing both power cores and a control element. To find the replacement cable numbers for discontinued power cables, see [Replacement cables for discontinued power cables](#) on page 78.

12.1.5 Cable sleeves and washers

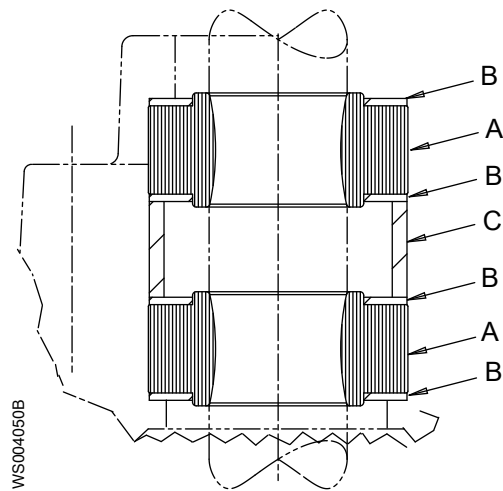
12.1.5.1 70 mm



| Cable diameter | Sleeve (A) | Washer (B) | Ring (C) | Material |
|----------------|---------------|------------|----------------|----------|
| 23-26 | 84 19 29 (EX) | 82 41 36 | 611 14 05 (EX) | Std. NBR |
| 26-29 | 84 19 30 (EX) | 82 41 36 | 611 14 05 (EX) | Std. NBR |
| 29-32 | 84 19 31 (EX) | 82 41 36 | 611 14 05 (EX) | Std. NBR |
| 32-35 | 84 19 32 (EX) | 82 41 36 | 611 14 05 (EX) | Std. NBR |
| 35-38 | 84 19 33 (EX) | 82 41 39 | 611 14 05 (EX) | Std. NBR |
| 38-41 | 84 19 34 (EX) | 82 41 39 | 611 14 05 (EX) | Std. NBR |
| 41-44 | 84 19 35 (EX) | 82 41 39 | 611 14 05 (EX) | Std. NBR |
| 44-47 | 84 19 36 (EX) | 82 41 39 | 611 14 05 (EX) | Std. NBR |
| 47-50 | 84 19 37 (EX) | 82 41 39 | 611 14 05 (EX) | Std. NBR |

| Cable diameter | Sleeve (A) | Washer (B) | Ring (C) | Material |
|----------------|---------------|------------|----------------|----------|
| 50-53 | 84 19 38 (EX) | 82 41 39 | 611 14 05 (EX) | Std. NBR |
| 23-26 | 84 19 29 (EX) | 82 43 07 | 611 14 05 (EX) | SS.NBR |
| 26-29 | 84 19 30 (EX) | 82 43 07 | 611 14 05 (EX) | SS.NBR |
| 29-32 | 84 19 31 (EX) | 82 43 07 | 611 14 05 (EX) | SS.NBR |
| 32-35 | 84 19 32 (EX) | 82 43 07 | 611 14 05 (EX) | SS.NBR |
| 35-38 | 84 19 33 (EX) | 82 43 10 | 611 14 05 (EX) | SS.NBR |
| 38-41 | 84 19 34 (EX) | 82 43 10 | 611 14 05 (EX) | SS.NBR |
| 41-44 | 84 19 35 (EX) | 82 43 10 | 611 14 05 (EX) | SS.NBR |
| 44-47 | 84 19 36 (EX) | 82 43 10 | 611 14 05 (EX) | SS.NBR |
| 47-50 | 84 19 37 (EX) | 82 43 10 | 611 14 05 (EX) | SS.NBR |
| 50-53 | 84 19 38 (EX) | 82 43 10 | 611 14 05 (EX) | SS.NBR |

12.1.5.2 90 mm



| Cable diam | Sleeve (A) | Washer (B) | Ring (C) |
|------------|---------------|------------|----------------|
| 48-50 | 81 08 25 (EX) | 82 41 62 | 604 89 03 (EX) |
| 50-52 | 81 08 26 (EX) | 82 41 62 | 604 89 03 (EX) |
| 52-54 | 81 08 27 (EX) | 82 41 62 | 604 89 03 (EX) |
| 54-56 | 81 08 28 (EX) | 82 41 62 | 604 89 03 (EX) |
| 56-58 | 81 08 29 (EX) | 82 41 62 | 604 89 03 (EX) |
| 58-60 | 81 08 30 (EX) | 82 41 62 | 604 89 03 (EX) |
| 60-62 | 81 08 31 (EX) | 82 41 67 | 604 89 03 (EX) |
| 62-64 | 81 08 32 (EX) | 82 41 67 | 604 89 03 (EX) |
| 64-66 | 81 08 33 (EX) | 82 41 67 | 604 89 03 (EX) |
| 66-68 | 81 08 34 (EX) | 82 41 67 | 604 89 03 (EX) |
| 68-70 | 81 08 35 (EX) | 82 41 67 | 604 89 03 (EX) |

12.1.6 Replacement cables for discontinued power cables

The SUBCAB[®] power cables containing only power cores have been replaced by cables containing both power cores and a screened control element. The control element is reserved for future use. For more information, see the Technical Bulletin.

Table 8: Screened SUBCAB®

| Discontinued Cables | | | Replacement Cables | |
|-----------------------------|----------|--------------------|---------------------------------------|----------|
| Cable With Power Cores Only | Part No. | Technical Bulletin | Cable With Power and Control Elements | Part No. |
| S3x16 + 3x16/3 + 4x1.5 | 94 17 84 | TB_8100_06_14 | S3x16 + 3x16/3 + S(4x0.5) | 94 19 93 |
| S3x25 + 3x16/3 + 4x1.5 | 94 17 85 | TB_8100_06_15 | S3x25 + 3x16/3 + S(4x0.5) | 94 19 94 |
| S3x35 + 3x16/3 + 4x1.5 | 94 17 86 | TB_8100_06_16 | S3x35 + 3x16/3 + S(4x0.5) | 94 19 95 |
| S3x50 + 3x25/3 + 4x1.5 | 94 17 87 | TB_600_06_14 | S3x50 + 3x25/3 + S(4x0.5) | 94 19 96 |
| S3x70 + 3x35/3 + 4x1.5 | 94 17 88 | TB_600_06_15 | S3x70 + 3x35/3 + 2S(2x0.5) | 94 19 97 |
| S3x95 + 3x50/3 + 4x1.5 | 94 17 89 | TB_800_06_22 | S3x95 + 3x50/3 + 2S(2x0.5) | 94 19 98 |
| S3x120 + 3x70/3 + 4x1.5 | 94 17 90 | TB_800_06_23 | S3x120 + 3x70/3 + 2S(2x0.5) | 94 19 99 |

Table 9: SUBCAB®

| Discontinued Cables | | | Replacement Cables | |
|-----------------------------|----------|--------------------|---------------------------------------|----------|
| Cable With Power Cores Only | Part No. | Technical Bulletin | Cable With Power and Control Elements | Part No. |
| 4 G 16 | 94 20 46 | TB_8100_06_03 | 4G16 + S(2x0.5) | 94 19 82 |
| 4 G 25 | 94 20 47 | TB_8100_06_04 | 4G25 + S(2x0.5) | 94 19 83 |
| 4 G 35 | 94 20 48 | TB_8100_06_05 | 4G35 + S(2x0.5) | 94 19 84 |
| 4 G 50 | 94 20 66 | TB_600_06_12 | 3x50 + 2G35/2 + S(2x0.5) | 94 19 85 |
| 4 G 70 | 94 20 67 | TB_600_06_13 | 3x70 + 2G35/2 + S(2x0.5) | 94 19 86 |
| 4 G 95 | 92 20 68 | TB_700_06_22 | 3x95 + 2G50/2 + S(2x0.5) | 94 19 87 |
| 4 G 120 | 90 20 69 | TB_700_06_23 | 3x120 + 2G70/2 + S(2x0.5) | 94 19 88 |

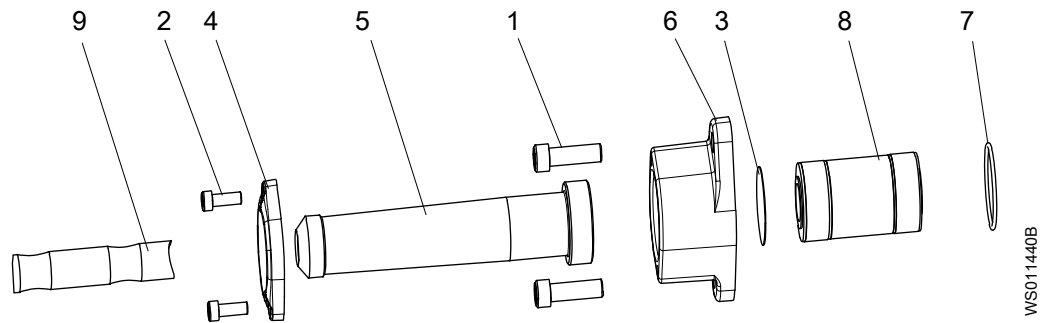
Table 10: Replacement cables for SUBCAB AWG®

| Discontinued Cables | | Replacement Cables | |
|-----------------------------|----------|---------------------------------------|----------|
| Cable With Power Cores Only | Part No. | Cable With Power and Control Elements | Part No. |
| 4 AWG/3-2-1-GC | 94 21 10 | 4G25 + S(2x0,5) | 94 19 83 |
| 1 AWG/3-2-1-GC | 94 21 11 | 3x50 + 2G35/2 + S(2x0,5) | 94 19 85 |

12.2 Control cable

This section does not apply to units equipped with the MAS 801 system.

12.2.1 12x1.5: 17–23 mm cables



Spare parts marked with EX after the part number are subject to dimensional accuracy inspection.

| Item | Denomination | | Part No. Standard units | Part No. Ex-proof units | Qty. |
|------|-------------------------------|----------|--------------------------------------|----------------------------|------|
| 1 | Hexagon socket head cap screw | M12 x 45 | 82 00 72 | 82 00 72 | 2 |
| 2 | Hexagon socket head cap screw | M8 x 25 | 83 02 01 | 83 02 01 | 2 |
| 3 | Plate | | 433 47 04 ⁽¹⁾ | 433 47 04 ⁽¹⁾ | 1 |
| 4 | Connection flange | | 627 62 00 | 627 62 00 (EX) | 1 |
| 5 | Bending protection | | 627 65 00 | 627 65 00 | 1 |
| 6 | Entrance flange | | 734 65 00 | 734 65 01 (EX) | 1 |
| 7 | O-ring | | 82 74 63 | 82 74 63 | 1 |
| 8 | Cable sleeve unit | | See <i>Seal sleeves and washers.</i> | | 1 |
| 9 | Cable | 12x1.5 | | | 1 |

⁽¹⁾ The plate is used with the no-cable option.

12.2.2 s12x1.5: 26–32 mm cables

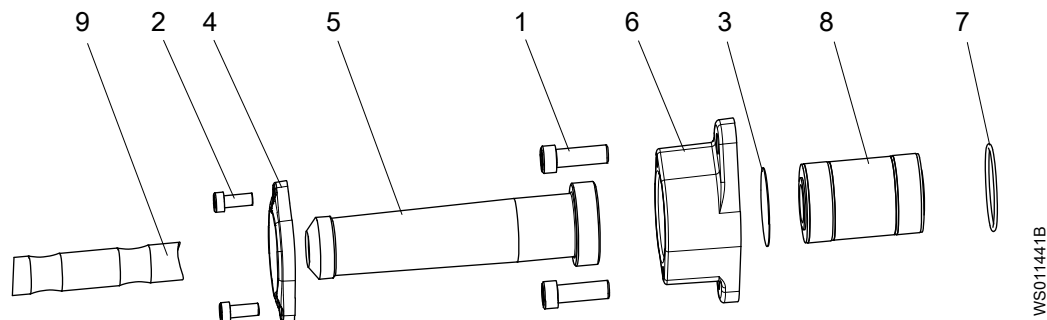


Figure 4: 730 69 00 rev 4, sheet 3.

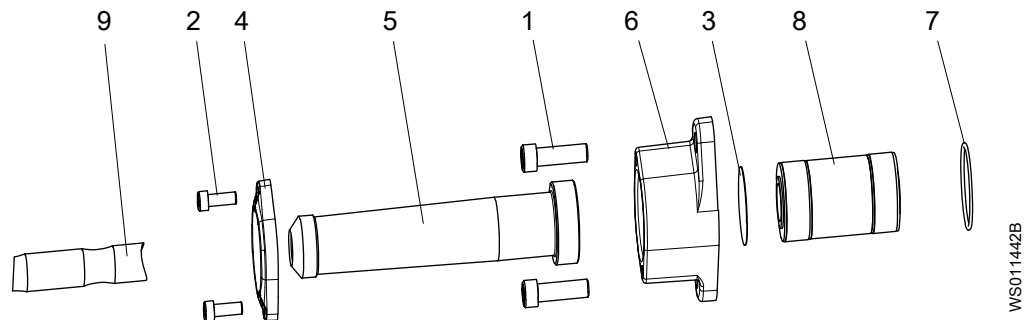
Spare parts marked with EX after the part number are subject to dimensional accuracy inspection.

| Item | Denomination | | Part No. Standard units | Part No. Ex-proof units | Qty. |
|------|-------------------------------|----------|-------------------------------|----------------------------|------|
| 1 | Hexagon socket head cap screw | M12 x 45 | 82 00 72 | 82 00 72 | 2 |

| Item | Denomination | | Part No. Standard units | Part No. Ex-proof units | Qty. |
|------|----------------------------------|---------|--------------------------------------|----------------------------|------|
| 2 | Hexagon socket head cap screw | M8 x 25 | 83 02 01 | 83 02 01 | 2 |
| 3 | Plate | | 433 47 04 ⁽¹⁾ | 433 47 04 ⁽¹⁾ | 1 |
| 4 | Connection flange | | 627 62 00 | 627 62 00 (EX) | 1 |
| 5 | Bending protection | | 627 65 00 | 627 65 00 | 1 |
| 6 | Entrance flange | | 734 65 00 | 734 65 01 (EX) | 1 |
| 7 | O-ring | | 82 74 63 | 82 74 63 | 1 |
| 8 | Cable sleeve unit | | See <i>Seal sleeves and washers.</i> | | 1 |
| 9 | Cable | s12x1.5 | | | 1 |

⁽¹⁾ The plate is used with the no-cable option.

12.2.3 24x1.5: 23–32 mm cables

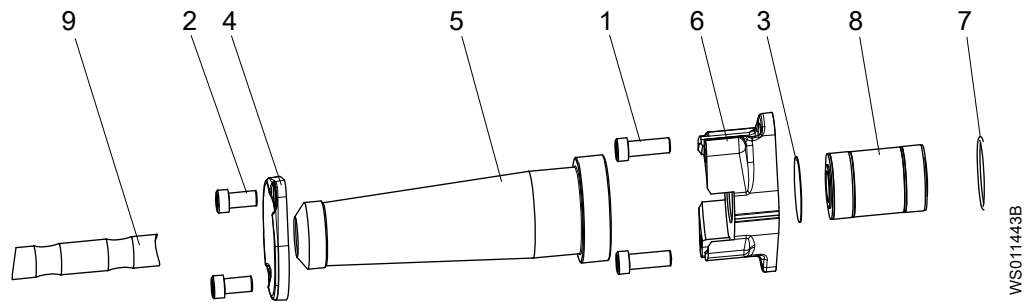


Spare parts marked with EX after the part number are subject to dimensional accuracy inspection.

| Item | Denomination | | Part No. Standard units | Part No. Ex-proof units | Qty. |
|------|----------------------------------|----------|--------------------------------------|----------------------------|------|
| 1 | Hexagon socket head cap screw | M12 x 45 | 82 00 72 | 82 00 72 | 2 |
| 2 | Hexagon socket head cap screw | M8 x 25 | 83 02 01 | 83 02 01 | 2 |
| 3 | Plate | | 433 47 04 ⁽¹⁾ | 433 47 04 ⁽¹⁾ | 1 |
| 4 | Connection flange | | 627 62 00 | 627 62 00 (EX) | 1 |
| 5 | Bending protection | | 627 65 00 | 627 65 00 | 1 |
| 6 | Entrance flange | | 734 65 00 | 734 65 01 (EX) | 1 |
| 7 | O-ring | | 82 74 63 | 82 74 63 | 1 |
| 8 | Cable sleeve unit | | See <i>Seal sleeves and washers.</i> | | 1 |
| 9 | Cable | 24x1.5 | | | 1 |

⁽¹⁾ The plate is used with the no-cable option.

12.2.4 s24x1.5: 32-38 mm



Spare parts marked with EX after the part number are subject to dimensional accuracy inspection.

| Item | Denomination | | Part No. Standard units | Part No. Ex-proof units | Qty. |
|------|----------------------------------|----------|---|-------------------------------|------|
| 1 | Hexagon socket head cap screw | M12 x 45 | 82 00 72 | 82 00 72 | 2 |
| 2 | Hexagon socket head cap screw | M12 x 30 | 83 03 46 | 83 03 46 | 2 |
| 3 | Plate | | 433 47 04 ⁽¹⁾ | 433 47 04 ⁽¹⁾ | 1 |
| 4 | Connection flange | | 627 63 00 | 627 63 00 (EX) | 1 |
| 5 | Bending protection | | 627 66 00 | 627 66 00 | 1 |
| 6 | Entrance flange | | 733 99 00 | 733 99 01 (EX) | 1 |
| 7 | O-ring | | 82 74 63 | 82 74 63 | 1 |
| 8 | Cable sleeve unit | | See Seal sleeves and washers. | | 1 |
| 9 | Cable | s24x1.5 | | | 1 |

⁽¹⁾ The plate is used with the no-cable option.

12.2.5 Control cables

This section does not apply to units equipped with the MAS 801 system.

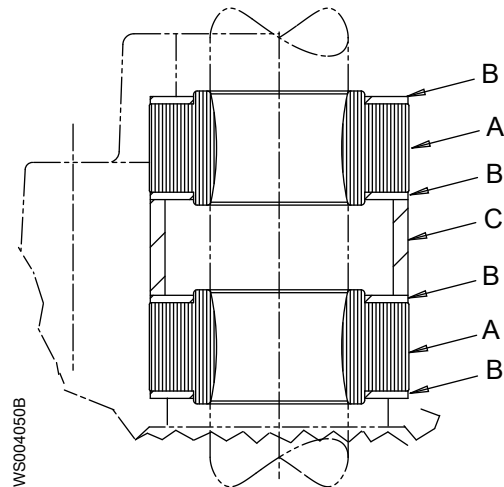
Cable part numbers

| Type | Cable | Diameter, mm (in) | Part No. | Qty. |
|--------|-------------------------|---------------------------|----------|------|
| SUBCAB | 12x1.5 mm ² | 18.2 - 21.2 (0.72 - 0.83) | 94 19 20 | 1 |
| | 24x1.5 mm ² | 24.9 - 28.9 (0.98 - 1.14) | 94 19 21 | |
| | S12x1.5 mm ² | 29.0 - 31.0 (1.14 - 1.22) | 94 08 94 | |
| | S24x1.5 mm ² | 35.0 - 37.0 (1.38 - 1.46) | 94 08 95 | |

Support grip

| Denomination | Size, mm (in) | Part No. | Qty. |
|--------------|---------------------------------|----------|------|
| Support grip | 19 - 24 mm (0.75 - 0.94 in.) | 83 57 24 | 1 |
| | 25 - 36 mm (0.98 - 1.42 in.) | 83 57 25 | |
| | 37 - 49 mm (1.46 - 1.93) | 83 57 26 | |

12.2.6 Cable sleeves and washers



NBR

| Cable diameter | Sleeve (A) | Washer (B) | Ring (C) | Material |
|----------------|---------------|------------|----------------|----------|
| 14-17 | 84 18 00 (EX) | 82 40 81 | 597 98 04 (EX) | Std. NBR |
| 17-20 | 84 18 01 (EX) | 82 40 81 | 597 98 04 (EX) | |
| 20-23 | 84 18 02 (EX) | 82 40 82 | 597 98 04 (EX) | |
| 23-26 | 84 18 03 (EX) | 82 40 82 | 597 98 04 (EX) | |
| 26-29 | 84 18 04 (EX) | 82 40 82 | 597 98 04 (EX) | |
| 29-32 | 84 18 05 (EX) | 82 40 82 | 597 98 04 (EX) | |
| 32-35 | 84 18 06 (EX) | 82 40 69 | 597 98 04 (EX) | |
| 36-38 | 84 18 07 (EX) | 82 40 71 | 597 98 04 (EX) | |
| 38-41 | 84 18 08 (EX) | 82 40 73 | 597 98 04 (EX) | |
| 41-43 | 84 18 09 (EX) | 82 40 73 | 597 98 04 (EX) | |
| 14-17 | 84 18 00 (EX) | 82 42 71 | 597 98 04 (EX) | SS.NBR |
| 17-20 | 84 18 01 (EX) | 82 42 71 | 597 98 04 (EX) | |
| 20-23 | 84 18 02 (EX) | 82 42 72 | 597 98 04 (EX) | |
| 23-26 | 84 18 03 (EX) | 82 42 72 | 597 98 04 (EX) | |
| 26-29 | 84 18 04 (EX) | 82 42 72 | 597 98 04 (EX) | |
| 29-32 | 84 18 05 (EX) | 82 42 72 | 597 98 04 (EX) | |
| 32-35 | 84 18 06 (EX) | 82 42 73 | 597 98 04 (EX) | |
| 36-38 | 84 18 07 (EX) | 82 42 75 | 597 98 04 (EX) | |

FPM

| Cable diameter | Sleeve (A) | Washer (B) | Ring (C) | Material |
|----------------|---------------|------------|----------------|----------|
| 14-17 | 84 19 40 (EX) | 82 40 81 | 597 98 04 (EX) | Std. FPM |
| 17-20 | 84 19 41 (EX) | 82 40 81 | 597 98 04 (EX) | |
| 20-23 | 84 19 42 (EX) | 82 40 82 | 597 98 04 (EX) | |
| 23-26 | 84 19 43 (EX) | 82 40 82 | 597 98 04 (EX) | |
| 26-29 | 84 19 44 (EX) | 82 40 82 | 597 98 04 (EX) | |
| 29-32 | 84 19 45 (EX) | 82 40 82 | 597 98 04 (EX) | |
| 32-35 | 84 19 46 (EX) | 82 40 69 | 597 98 04 (EX) | |
| 36-38 | 84 19 47 (EX) | 82 40 71 | 597 98 04 (EX) | |

| Cable diameter | Sleeve (A) | Washer (B) | Ring (C) | Material |
|-----------------------|-------------------|-------------------|-----------------|-----------------|
| 14-17 | 84 19 40 (EX) | 82 42 71 | 597 98 04 (EX) | SS.FPM |
| 17-20 | 84 19 41 (EX) | 82 42 71 | 597 98 04 (EX) | |
| 20-23 | 84 19 42 (EX) | 82 42 72 | 597 98 04 (EX) | |
| 23-26 | 84 19 43 (EX) | 82 42 72 | 597 98 04 (EX) | |
| 26-29 | 84 19 44 (EX) | 82 42 72 | 597 98 04 (EX) | |
| 29-32 | 84 19 45 (EX) | 82 42 72 | 597 98 04 (EX) | |
| 32-35 | 84 19 46 (EX) | 82 42 73 | 597 98 04 (EX) | |
| 36-38 | 84 19 47 (EX) | 82 42 75 | 597 98 04 (EX) | |

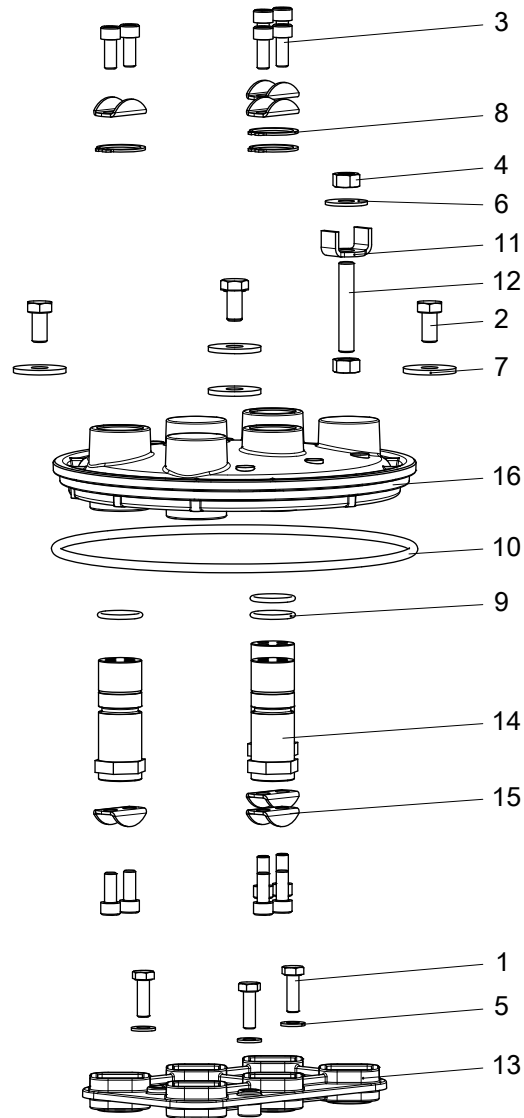
13 Electrical components: Power

13.1 D-connection

Table 11: D-connection configurations

| Number of cables | Sizes | Reference |
|------------------|---|---------------------------------|
| 1 | <ul style="list-style-type: none"> • 4 x 16 mm² • 4 x 25 mm² • 4 x 35 mm² • 3 x 50 mm² + 25 mm² • 3 x 50 mm² + 35 mm² | D: 1 on page 86 |
| | <ul style="list-style-type: none"> • 6 AWG • 4 AWG • 1 AWG | D: 2 on page 87 |
| | <ul style="list-style-type: none"> • 3 x 70 mm² + 35 mm² • 3 x 95 mm² + 50 mm² • 3 x 120 mm² + 70 mm² | D: 3 on page 88 |
| 2 | <ul style="list-style-type: none"> • 4 x 25 mm² • 4 x 35 mm² | D: 3 on page 88 |
| | <ul style="list-style-type: none"> • 3 x 50 mm² + 25 mm² • 3 x 50 mm² + 35 mm² • 3 x 70 mm² + 35 mm² • 3 x 95 mm² + 50 mm² • 3 x 120 mm² + 120 mm² | D: 4 on page 90 |
| | <ul style="list-style-type: none"> • 3 x 120 mm² + 70 mm² • 6 x 95 mm² + 95 mm² | D: 5 on page 91 |
| 3 | <ul style="list-style-type: none"> • 3 x 70 mm² + 35 mm² • 3 x 95 mm² + 50 mm² • 3 x 120 mm² + 70 mm² • 6 x 95 mm² + 95 mm² | D: 6 on page 93 |
| 4 | <ul style="list-style-type: none"> • 6 x 95 mm² + 95 mm² | D: 6 on page 93 |

13.1.1 D: 1

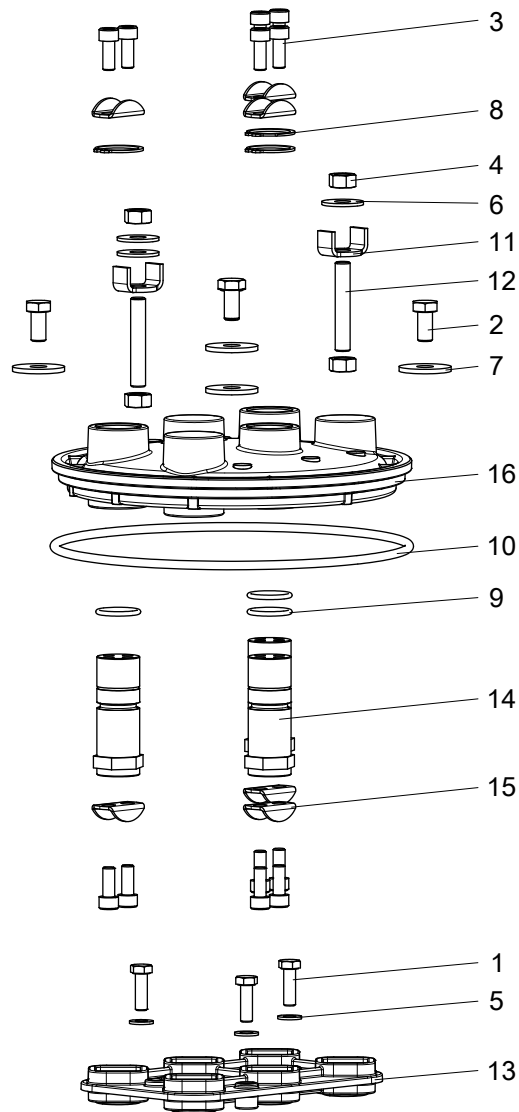


WS00403B

| Item | Denomination | | Part No. | Qty. |
|------|-------------------------------|-------------------|-----------|------|
| 1 | Hexagon head screw | M8 x 25 | 81 41 06 | 3 |
| 2 | Hexagon head screw | M10 x 20 | 81 48 79 | 4 |
| 3 | Hexagon socket head cap screw | M8 x 20 | 82 00 32 | 12 |
| 4 | Hexagon nut | | 82 23 33 | 2 |
| 5 | Washer | 8.4 x 16.0 x 1.6 | 82 35 16 | 3 |
| 6 | Washer | 10.5 x 28.0 x 2.0 | 82 36 87 | 1 |
| 7 | Plain washer | | 82 37 44 | 4 |
| 8 | Retaining ring | SgA29 x 1.50 | 82 58 99 | 3 |
| 9 | O-ring | 24.20 x 3.0 | 82 73 92 | 3 |
| 10 | O-ring | 229.30 x 5.70 | 82 81 82 | 1 |
| 11 | Cable washer | | 83 39 61 | 1 |
| 12 | Stud | M10x59 | 84 46 18 | 1 |
| 13 | Holder | | 550 14 00 | 1 |
| 14 | Terminal | | 550 16 00 | 3 |

| Item | Denomination | Part No. | Qty. |
|------|----------------|-----------|------|
| 15 | Cable clamp | 550 17 00 | 6 |
| 16 | Terminal plate | 550 19 01 | 1 |

13.1.2 D: 2

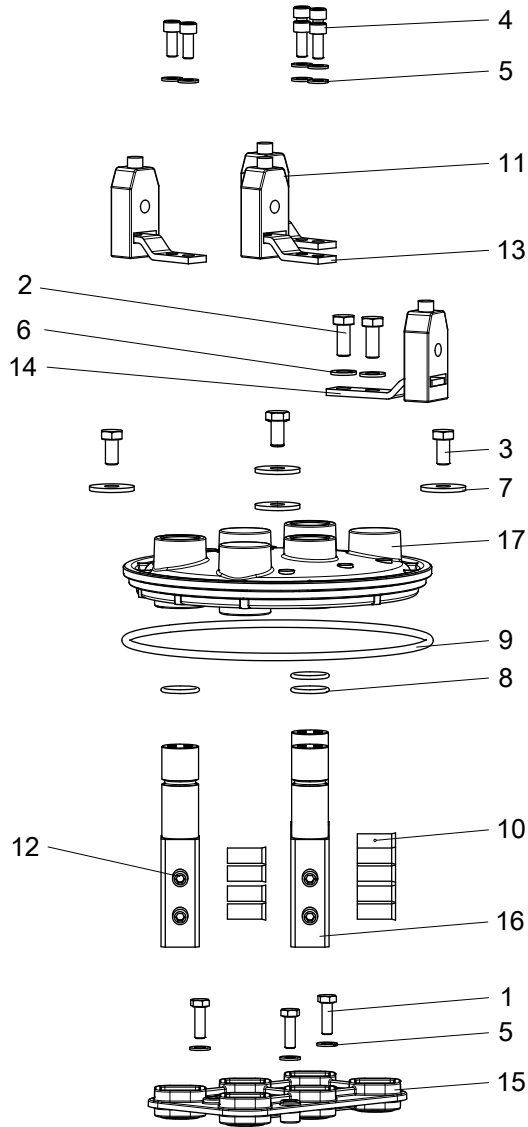


WS004034B

| Item | Denomination | | Part No. | Qty. |
|------|-------------------------------|-------------------|----------|------|
| 1 | Hexagon head screw | M8 x 25 | 81 41 06 | 3 |
| 2 | Hexagon head screw | M10 x 20 | 81 48 79 | 4 |
| 3 | Hexagon socket head cap screw | M8 x 20 | 82 00 32 | 12 |
| 4 | Hexagon nut | | 82 23 33 | 4 |
| 5 | Washer | 8.4 x 16.0 x 1.6 | 82 35 16 | 3 |
| 6 | Washer | 10.5 x 28.0 x 2.0 | 82 36 87 | 3 |
| 7 | Plain washer | | 82 37 44 | 4 |
| 8 | Retaining ring | SgA29 x 1.50 | 82 58 99 | 3 |
| 9 | O-ring | 24.20 x 3.0 | 82 73 92 | 3 |
| 10 | O-ring | 229.30 x 5.70 | 82 81 82 | 1 |

| Item | Denomination | Part No. | Qty. |
|------|----------------|-----------|------|
| 11 | Cable washer | 83 39 61 | 2 |
| 12 | Stud | M10x59 | 2 |
| 13 | Holder | 550 14 00 | 1 |
| 14 | Terminal | 550 16 00 | 3 |
| 15 | Cable clamp | 550 17 00 | 6 |
| 16 | Terminal plate | 550 19 01 | 1 |

13.1.3 D: 3

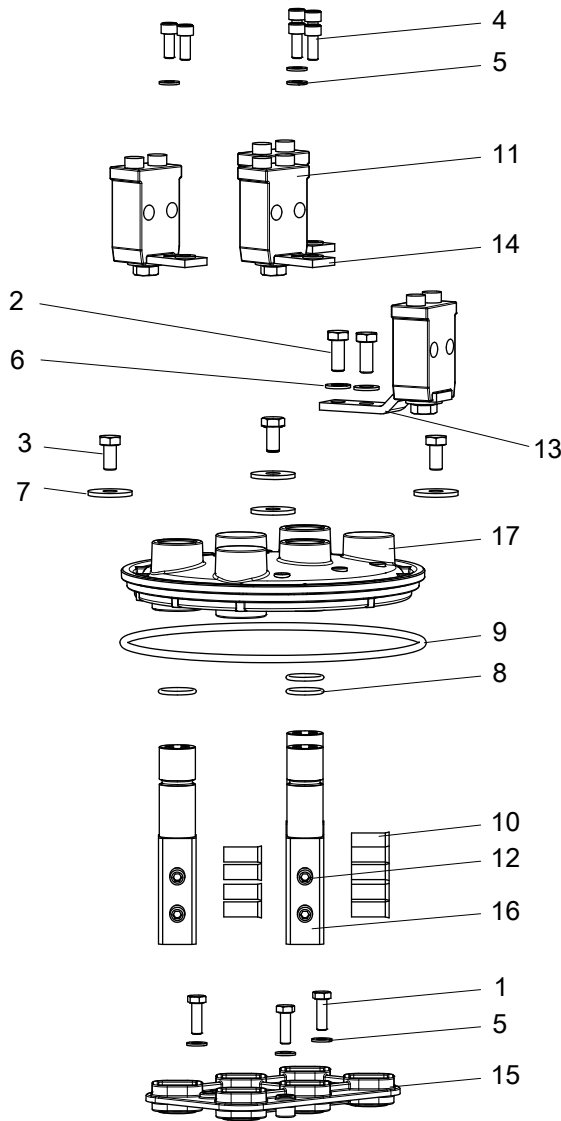


WS004035B

| Item | Denomination | Part No. | Qty. | |
|------|-------------------------------|-------------------|----------|---|
| 1 | Hexagon head screw | M8 x 25 | 81 41 06 | 3 |
| 2 | Hexagon head screw | M10 x 25 | 81 41 31 | 2 |
| 3 | Hexagon head screw | M10 x 20 | 81 48 79 | 4 |
| 4 | Hexagon socket head cap screw | M8 x 20 | 82 00 32 | 6 |
| 5 | Washer | 8.4 x 16.0 x 1.6 | 82 35 16 | 9 |
| 6 | Washer | 10.5 x 20.0 x 2.0 | 82 35 76 | 2 |

| Item | Denomination | | Part No. | Qty. |
|---|---------------------------|-----------------------|-----------|------|
| 7 | Plain washer | | 82 37 44 | 4 |
| 8 | O-ring | 24.20 x 3.0 | 82 73 92 | 3 |
| 9 | O-ring | 229.30 x 5.70 | 82 81 82 | 1 |
| 10 | End-sleeve ⁽¹⁾ | 6 mm ² | 83 43 28 | 12 |
| | | 10 mm ² | 83 43 29 | |
| | | 16 mm ² | 83 43 25 | |
| | | 25 mm ² | 83 43 26 | |
| | | 35-50 mm ² | 83 43 27 | |
| | | 50 mm ² | 83 42 22 | |
| 11 | Cable clamp | | 84 66 51 | 4 |
| 12 | Set screw | | 498 87 01 | 12 |
| 13 | Plate | | 548 93 00 | 3 |
| 14 | Earthing plate | | 548 95 00 | 1 |
| 15 | Holder | | 550 14 00 | 1 |
| 16 | Terminal | | 550 15 00 | 3 |
| 17 | Terminal plate | | 550 19 01 | 1 |
| ⁽¹⁾ Select the end-sleeve to fit the stator lead size. | | | | |

13.1.4 D: 4



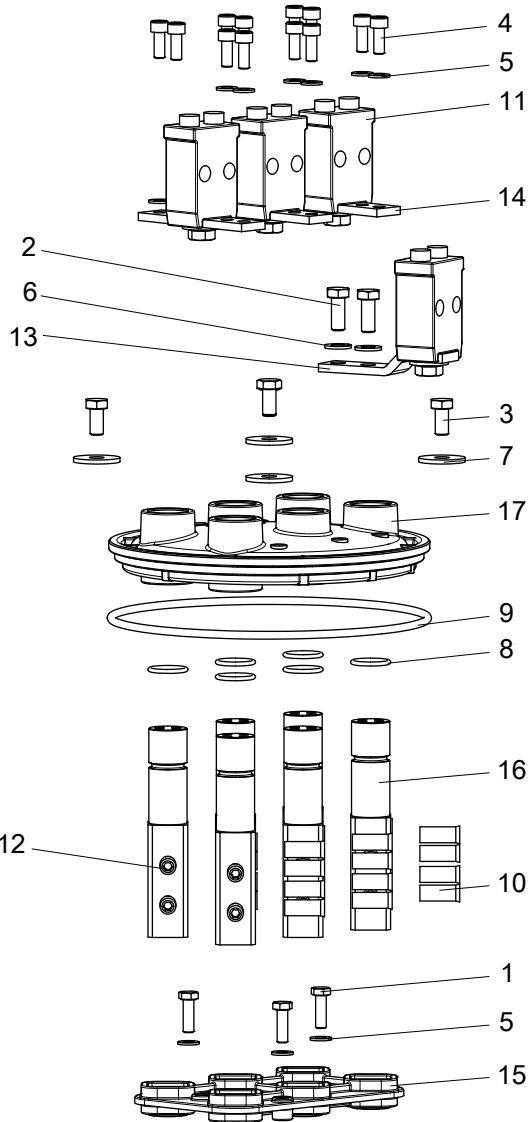
W5004036B

| Item | Denomination | | Part No. | Qty. |
|------|-------------------------------|-----------------------|----------|------|
| 1 | Hexagon head screw | M8 x 25 | 81 41 06 | 3 |
| 2 | Hexagon head screw | M10 x 25 | 81 41 31 | 2 |
| 3 | Hexagon head screw | M10 x 20 | 81 48 79 | 4 |
| 4 | Hexagon socket head cap screw | M8 x 20 | 82 00 32 | 6 |
| 5 | Washer | 8.4 x 16.0 x 1.6 | 82 35 16 | 9 |
| 6 | Washer | 10.5 x 20.0 x 2.0 | 82 35 76 | 2 |
| 7 | Plain washer | | 82 37 44 | 4 |
| 8 | O-ring | 24.20 x 3.0 | 82 73 92 | 3 |
| 9 | O-ring | 229.30 x 5.70 | 82 81 82 | 1 |
| 10 | End-sleeve ⁽¹⁾ | 6 mm ² | 83 43 28 | 12 |
| | | 10 mm ² | 83 43 29 | |
| | | 16 mm ² | 83 43 25 | |
| | | 25 mm ² | 83 43 26 | |
| | | 35-50 mm ² | 83 43 27 | |

| Item | Denomination | Part No. | Qty. |
|------|----------------|--------------------|------|
| | | 50 mm ² | |
| 11 | Cable clamp | 84 66 52 | 4 |
| 12 | Set screw | 498 87 01 | 12 |
| 13 | Earthing plate | 548 94 00 | 1 |
| 14 | Plate | 548 96 01 | 3 |
| 15 | Holder | 550 14 00 | 1 |
| 16 | Terminal | 550 15 00 | 3 |
| 17 | Terminal plate | 550 19 01 | 1 |

(1) Select the end-sleeve to fit the stator lead size.

13.1.5 D: 5

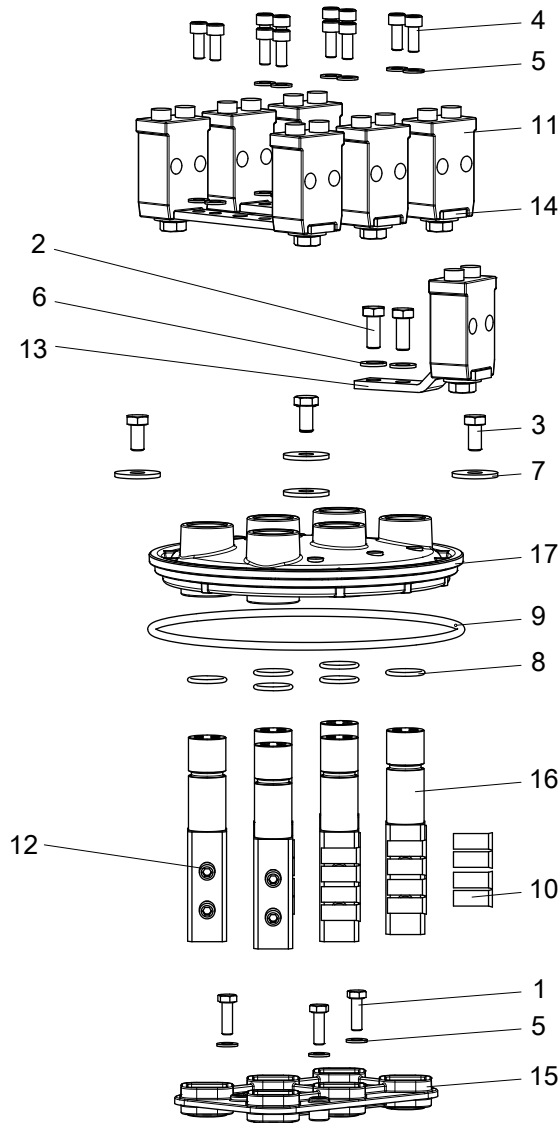


WS004037B

| Item | Denomination | Part No. | Qty. | |
|------|--------------------|----------|----------|---|
| 1 | Hexagon head screw | M8 x 25 | 81 41 06 | 3 |
| 2 | Hexagon head screw | M10 x 25 | 81 41 31 | 2 |

| Item | Denomination | | Part No. | Qty. |
|---|-------------------------------|-----------------------|-----------|------|
| 3 | Hexagon head screw | M10 x 20 | 81 48 79 | 4 |
| 4 | Hexagon socket head cap screw | M8 x 20 | 82 00 32 | 12 |
| 5 | Washer | 8.4 x 16.0 x 1.6 | 82 35 16 | 15 |
| 6 | Washer | 10.5 x 20.0 x 2.0 | 82 35 76 | 2 |
| 7 | Plain washer | | 82 37 44 | 4 |
| 8 | O-ring | 24.20 x 3.0 | 82 73 92 | 6 |
| 9 | O-ring | 229.30 x 5.70 | 82 81 82 | 1 |
| 10 | End-sleeve ⁽¹⁾ | 6 mm ² | 83 43 28 | 24 |
| | | 10 mm ² | 83 43 29 | |
| | | 16 mm ² | 83 43 25 | |
| | | 25 mm ² | 83 43 26 | |
| | | 35-50 mm ² | 83 43 27 | |
| | | 50 mm ² | 83 42 22 | |
| 11 | Cable clamp | | 84 66 52 | 4 |
| 12 | Set screw | | 498 87 01 | 24 |
| 13 | Earthing plate | | 548 94 00 | 1 |
| 14 | Plate | | 548 96 02 | 3 |
| 15 | Holder | | 550 14 00 | 1 |
| 16 | Terminal | | 550 15 00 | 6 |
| 17 | Terminal plate | | 550 19 00 | 1 |
| ⁽¹⁾ Select the end-sleeve to fit the stator lead size. | | | | |

13.1.6 D: 6



WS004038B

| Item | Denomination | | Part No. | Qty. |
|------|-------------------------------|-----------------------|----------|------|
| 1 | Hexagon head screw | M8 x 25 | 81 41 06 | 3 |
| 2 | Hexagon head screw | M10 x 25 | 81 41 31 | 2 |
| 3 | Hexagon head screw | M10 x 20 | 81 48 79 | 4 |
| 4 | Hexagon socket head cap screw | M8 x 20 | 82 00 32 | 12 |
| 5 | Washer | 8.4 x 16.0 x 1.6 | 82 35 16 | 15 |
| 6 | Washer | 10.5 x 20.0 x 2.0 | 82 35 76 | 2 |
| 7 | Plain washer | | 82 37 44 | 4 |
| 8 | O-ring | 24.20 x 3.0 | 82 73 92 | 6 |
| 9 | O-ring | 229.30 x 5.70 | 82 81 82 | 1 |
| 10 | End-sleeve | 6 mm ² | 83 43 28 | 24 |
| | | 10 mm ² | 83 43 29 | |
| | | 16 mm ² | 83 43 25 | |
| | | 25 mm ² | 83 43 26 | |
| | | 35-50 mm ² | 83 43 27 | |

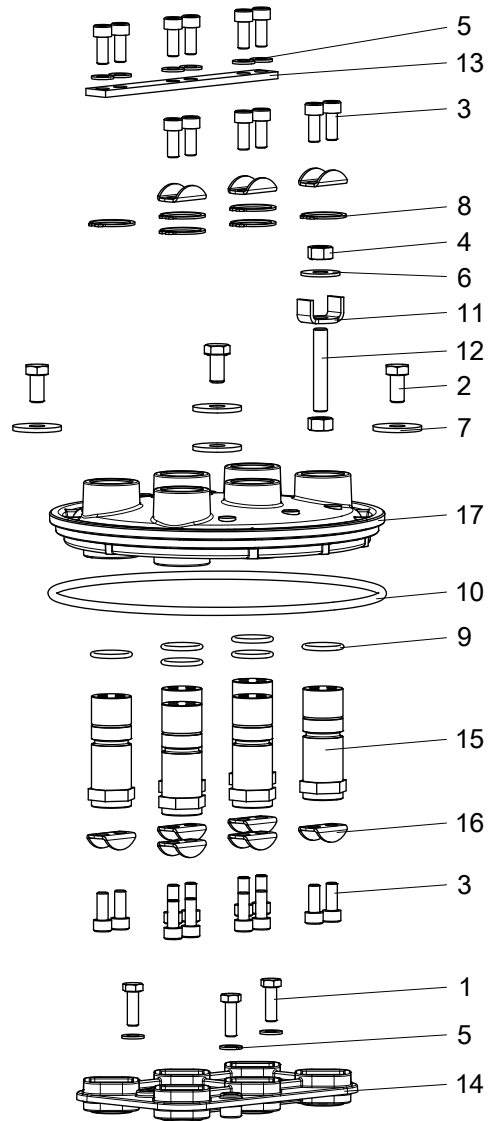
| Item | Denomination | Part No. | Qty. |
|------|----------------|--------------------|----------|
| | | 50 mm ² | 83 42 22 |
| 11 | Cable clamp | 84 6 652 | 7 |
| 12 | Set screw | 498 87 01 | 24 |
| 13 | Earthing plate | 548 94 00 | 1 |
| 14 | Plate | 548 96 00 | 3 |
| 15 | Holder | 550 14 00 | 1 |
| 16 | Terminal | 550 15 00 | 6 |
| 17 | Terminal plate | 550 19 00 | 1 |

13.2 Y-connection

Table 12: Y-connection configurations

| Number of cables | Sizes | Reference |
|------------------|--|---------------------------------|
| 1 | <ul style="list-style-type: none"> • 4 x 16 mm² • 4 x 25 mm² • 4 x 35 mm² • 3 x 25 mm² + 25 mm² • 3 x 25 mm² + 35 mm² | Y: 1 on page 95 |
| | <ul style="list-style-type: none"> • 6 AWG • 4 AWG • 1 AWG | Y: 2 on page 96 |
| | <ul style="list-style-type: none"> • 3 x 70 mm² + 35 mm² • 3x 95 mm² + 50 mm² • 3 x 120 mm² + 70 mm² | Y: 3 on page 97 |
| 2 | <ul style="list-style-type: none"> • 3 x 50 mm² + 25 mm² • 3 x 50 mm² + 35 mm² • 3 x 70 mm² + 35 mm² • 3 x 95 mm² + 50 mm² • 3 x 120 mm² + 70 mm² | Y: 4 on page 99 |

13.2.1 Y: 1

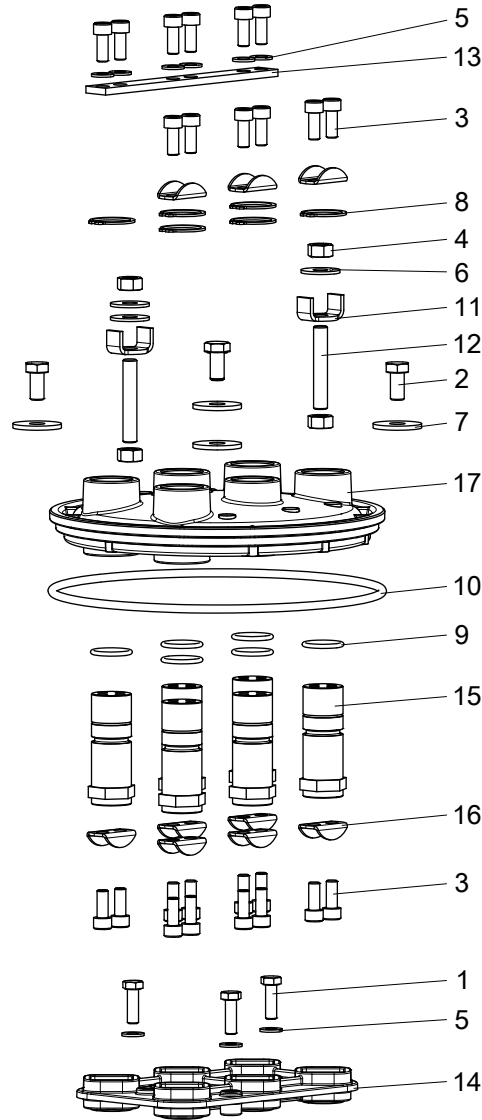


W5004039B

| Item | Denomination | | Part No. | Qty. |
|------|-------------------------------|-------------------|----------|------|
| 1 | Hexagon head screw | M8 x 25 | 81 41 06 | 3 |
| 2 | Hexagon head screw | M10 x 20 | 81 48 79 | 4 |
| 3 | Hexagon socket head cap screw | M8 x 20 | 82 00 32 | 24 |
| 4 | Hexagon nut | | 82 23 33 | 2 |
| 5 | Washer | 8.4 x 16.0 x 1.6 | 82 35 16 | 9 |
| 6 | Washer | 10.5 x 28.0 x 2.0 | 82 36 87 | 1 |
| 7 | Plain washer | | 82 37 44 | 4 |
| 8 | Retaining ring | SgA29 x 1.50 | 82 58 99 | 6 |
| 9 | O-ring | 24.20 x 3.0 | 82 73 92 | 6 |
| 10 | O-ring | 229.30 x 5.70 | 82 81 82 | 1 |
| 11 | Cable washer | | 83 39 61 | 1 |
| 12 | Stud | M10x59 | 84 46 18 | 1 |

| Item | Denomination | Part No. | Qty. |
|------|----------------|-----------|------|
| 13 | Plate | 536 65 00 | 1 |
| 14 | Holder | 550 14 00 | 1 |
| 15 | Terminal | 550 16 00 | 6 |
| 16 | Cable clamp | 550 17 00 | 9 |
| 17 | Terminal plate | 550 19 00 | 1 |

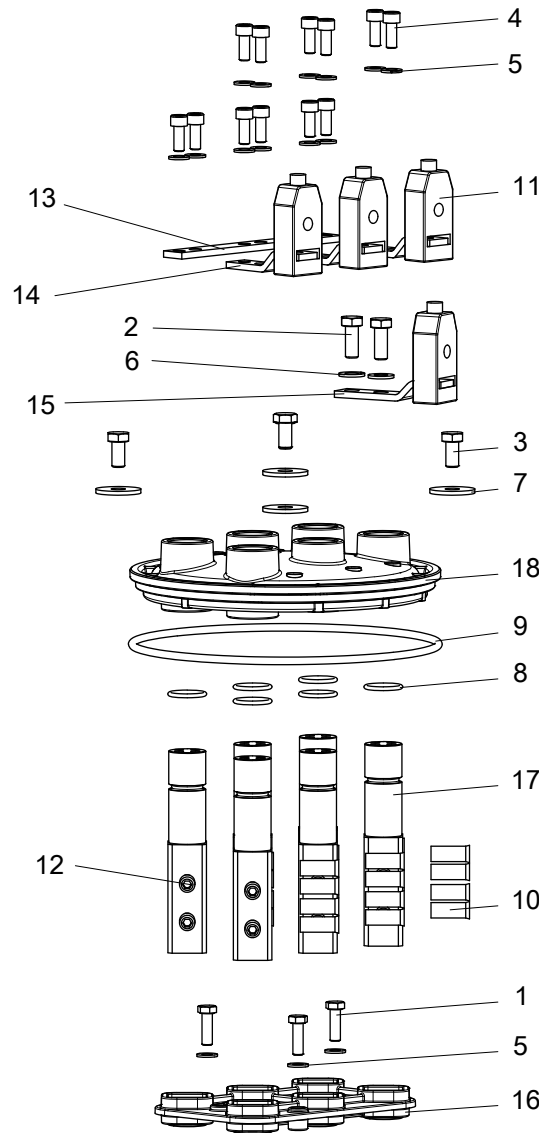
13.2.2 Y: 2



| Item | Denomination | Part No. | Qty. | |
|------|-------------------------------|-------------------|----------|----|
| 1 | Hexagon head screw | M8 x 25 | 81 41 06 | 3 |
| 2 | Hexagon head screw | M10 x 20 | 81 48 79 | 4 |
| 3 | Hexagon socket head cap screw | M8 x 20 | 82 00 32 | 24 |
| 4 | Hexagon nut | | 82 23 33 | 4 |
| 5 | Washer | 8.4 x 16.0 x 1.6 | 82 35 16 | 9 |
| 6 | Washer | 10.5 x 28.0 x 2.0 | 82 36 87 | 3 |
| 7 | Plain washer | | 82 37 44 | 4 |

| Item | Denomination | Part No. | Qty. |
|------|----------------|---------------|------|
| 8 | Retaining ring | SgA29 x 1.50 | 6 |
| 9 | O-ring | 24.20 x 3.0 | 6 |
| 10 | O-ring | 229.30 x 5.70 | 1 |
| 11 | Cable washer | | 2 |
| 12 | Stud | M10x59 | 2 |
| 13 | Plate | | 1 |
| 14 | Holder | | 1 |
| 15 | Terminal | | 6 |
| 16 | Cable clamp | | 9 |
| 17 | Terminal plate | | 1 |

13.2.3 Y: 3

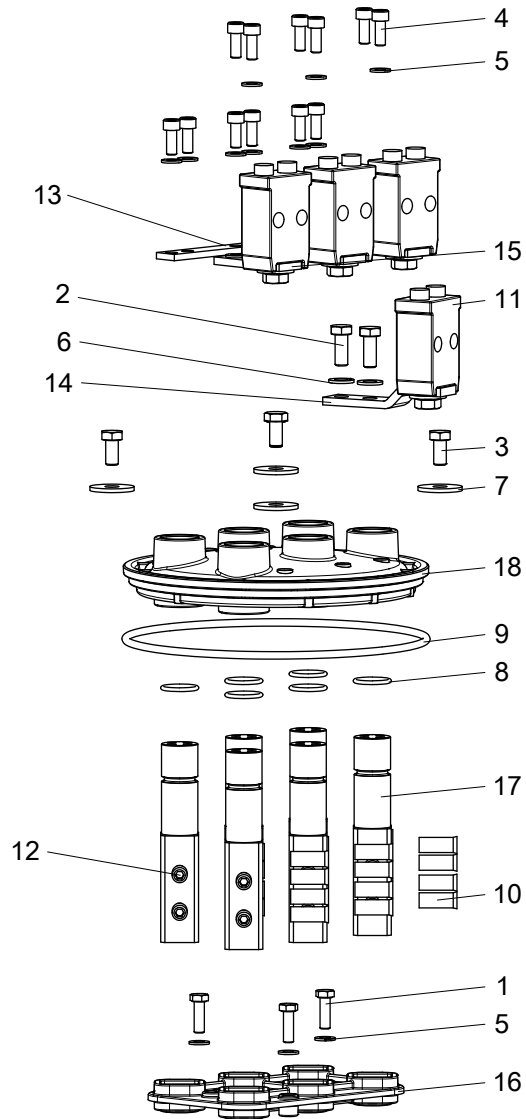


WS004041B

| Item | Denomination | Part No. | Qty. |
|------|--------------------|----------|------|
| 1 | Hexagon head screw | M8 x 25 | 3 |
| 2 | Hexagon head screw | M10 x 25 | 2 |
| 3 | Hexagon head screw | M10 x 20 | 4 |

| Item | Denomination | | Part No. | Qty. |
|------|-------------------------------|-----------------------|-----------|------|
| 4 | Hexagon socket head cap screw | M8 x 20 | 82 00 32 | 12 |
| 5 | Washer | 8.4 x 16.0 x 1.6 | 82 35 16 | 15 |
| 6 | Washer | 10.5 x 20.0 x 2.0 | 82 35 76 | 2 |
| 7 | Plain washer | | 82 37 44 | 4 |
| 8 | O-ring | 24.20 x 3.0 | 82 73 92 | 6 |
| 9 | O-ring | 229.30 x 5.70 | 82 81 82 | 1 |
| 10 | End-sleeve | 6 mm ² | 83 43 28 | 24 |
| | | 10 mm ² | 83 43 29 | |
| | | 16 mm ² | 83 43 25 | |
| | | 25 mm ² | 83 43 26 | |
| | | 35-50 mm ² | 83 43 27 | |
| | | 50 mm ² | 83 42 22 | |
| 11 | Cable clamp | | 84 66 51 | 4 |
| 12 | Set screw | | 498 87 01 | 24 |
| 13 | Plate | | 536 65 00 | 1 |
| 14 | Plate | | 548 93 00 | 3 |
| 15 | Earthing plate | | 548 95 00 | 1 |
| 16 | Holder | | 550 14 00 | 1 |
| 17 | Terminal | | 550 15 00 | 6 |
| 18 | Terminal plate | | 550 19 00 | 1 |

13.2.4 Y: 4



WS004042B

| Item | Denomination | | Part No. | Qty. |
|------|-------------------------------|-----------------------|----------|------|
| 1 | Hexagon head screw | M8 x 25 | 81 41 06 | 3 |
| 2 | Hexagon head screw | M10 x 25 | 81 41 31 | 2 |
| 3 | Hexagon head screw | M10 x 20 | 81 48 79 | 4 |
| 4 | Hexagon socket head cap screw | M8 x 20 | 82 00 32 | 12 |
| 5 | Washer | 8.4 x 16.0 x 1.6 | 82 35 16 | 15 |
| 6 | Washer | 10.5 x 20.0 x 2.0 | 82 35 76 | 2 |
| 7 | Plain washer | | 82 37 44 | 4 |
| 8 | O-ring | 24.20 x 3.0 | 82 73 92 | 6 |
| 9 | O-ring | 229.30 x 5.70 | 82 81 82 | 1 |
| 10 | End-sleeve ⁽¹⁾ | 6 mm ² | 83 43 28 | 24 |
| | | 10 mm ² | 83 43 29 | |
| | | 16 mm ² | 83 43 25 | |
| | | 25 mm ² | 83 43 26 | |
| | | 35-50 mm ² | 83 43 27 | |

| Item | Denomination | Part No. | Qty. |
|------|----------------|--------------------|----------|
| | | 50 mm ² | 83 42 22 |
| 11 | Cable clamp | 84 66 52 | 4 |
| 12 | Set screw | 498 87 01 | 24 |
| 13 | Plate | 536 65 00 | 1 |
| 14 | Earthing plate | 548 94 00 | 1 |
| 15 | Plate | 548 96 01 | 3 |
| 16 | Holder | 550 14 00 | 1 |
| 17 | Terminal | 550 15 00 | 6 |
| 18 | Terminal plate | 550 19 00 | 1 |

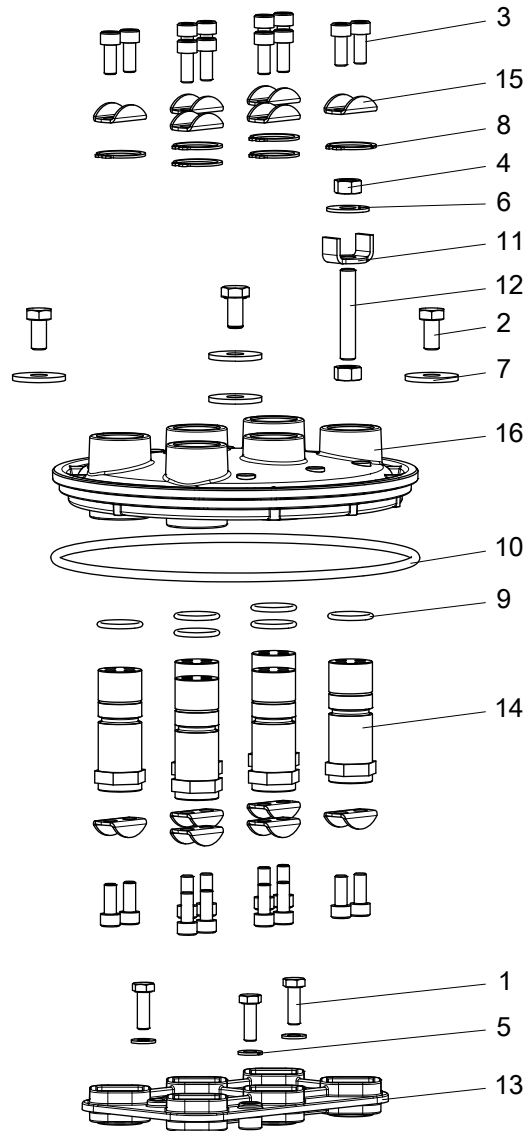
(1) Select the end-sleeve to fit the stator lead size.

13.3 Y/D-connection

Table 13: Y/D-connection configurations

| Number of cables | Sizes | Reference |
|------------------|--|------------------------------------|
| 2 | <ul style="list-style-type: none"> • 4 x 16 mm² • 4 x 25 mm² | Y/D: 1 on page 101 |
| | <ul style="list-style-type: none"> • 6 AWG • 4 AWG • 1 AWG | Y/D: 2 on page 102 |
| | <ul style="list-style-type: none"> • 4 x 35 mm² • 3 x 25 mm² + 25 mm² • 3 x 25 mm² + 35 mm² | Y/D: 3 on page 103 |
| | <ul style="list-style-type: none"> • 3 x 70 mm² + 35 mm² • 3 x 95 mm² + 50 mm² • 3 x 120 mm² + 70 mm² | Y/D: 4 on page 104 |
| | <ul style="list-style-type: none"> • 6 x 95 mm² + 95 mm² | Y/D: 5 on page 106 |

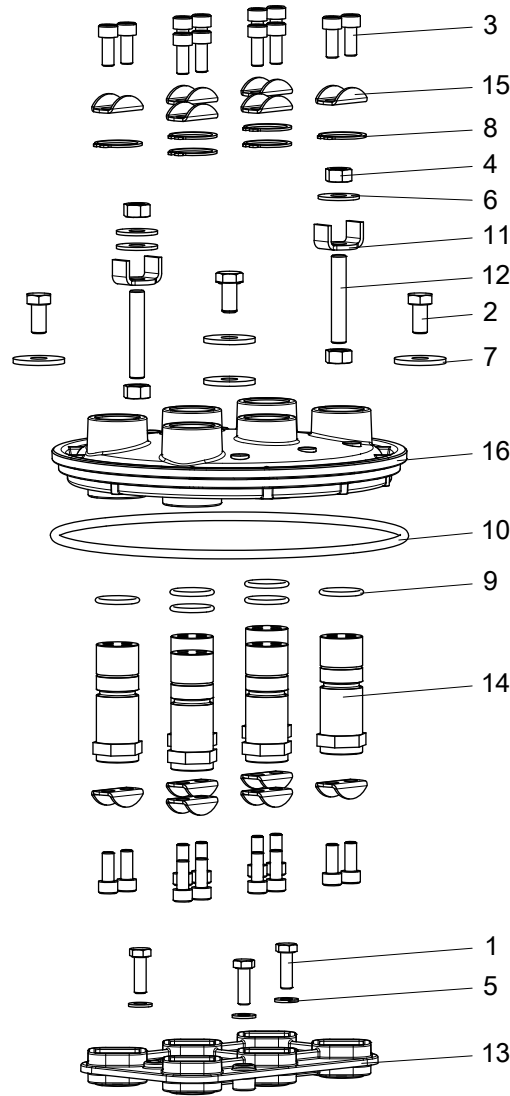
13.3.1 Y/D: 1



| Item | Denomination | | Part No. | Qty. |
|------|-------------------------------|-------------------|-----------|------|
| 1 | Hexagon head screw | M8 x 25 | 81 41 06 | 3 |
| 2 | Hexagon head screw | M10 x 20 | 81 48 79 | 4 |
| 3 | Hexagon socket head cap screw | M8 x 20 | 82 00 32 | 24 |
| 4 | Hexagon nut | | 82 23 33 | 2 |
| 5 | Washer | 8.4 x 16.0 x 1.6 | 82 35 16 | 3 |
| 6 | Washer | 10.5 x 28.0 x 2.0 | 82 36 87 | 1 |
| 7 | Plain washer | | 82 37 44 | 4 |
| 8 | Retaining ring | SgA29 x 1.50 | 82 58 99 | 6 |
| 9 | O-ring | 24.20 x 3.0 | 82 73 92 | 6 |
| 10 | O-ring | 229.30 x 5.70 | 82 81 82 | 1 |
| 11 | Cable washer | | 83 39 61 | 1 |
| 12 | Stud | M10 x 59 | 84 46 18 | 1 |
| 13 | Holder | | 550 14 00 | 1 |
| 14 | Terminal | | 550 16 00 | 6 |

| Item | Denomination | Part No. | Qty. |
|------|----------------|-----------|------|
| 15 | Cable clamp | 550 17 00 | 12 |
| 16 | Terminal plate | 550 19 00 | 1 |

13.3.2 Y/D: 2

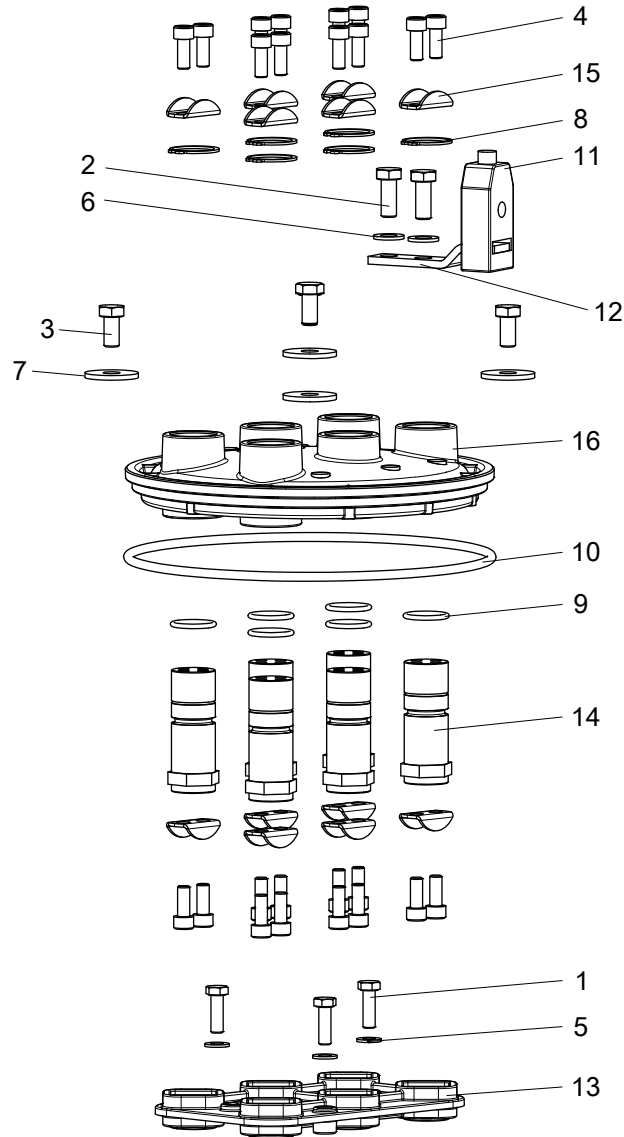


WS004044B

| Item | Denomination | | Part No. | Qty. |
|------|-------------------------------|-------------------|----------|------|
| 1 | Hexagon head screw | M8 x 25 | 81 41 06 | 3 |
| 2 | Hexagon head screw | M10 x 20 | 81 48 79 | 4 |
| 3 | Hexagon socket head cap screw | M8 x 20 | 82 00 32 | 24 |
| 4 | Hexagon nut | | 82 23 33 | 4 |
| 5 | Washer | 8.4 x 16.0 x 1.6 | 82 35 16 | 3 |
| 6 | Washer | 10.5 x 28.0 x 2.0 | 82 36 87 | 3 |
| 7 | Plain washer | | 82 37 44 | 4 |
| 8 | Retaining ring | SgA29 x 1.50 | 82 58 99 | 6 |
| 9 | O-ring | 24.20 x 3.0 | 82 73 92 | 6 |
| 10 | O-ring | 229.30 x 5.70 | 82 81 82 | 1 |
| 11 | Cable washer | | 83 39 61 | 2 |

| Item | Denomination | Part No. | Qty. | |
|------|----------------|----------|-----------|----|
| 12 | Stud | M10x59 | 84 46 18 | 2 |
| 13 | Holder | | 550 14 00 | 1 |
| 14 | Terminal | | 550 16 00 | 6 |
| 15 | Cable clamp | | 550 17 00 | 12 |
| 16 | Terminal plate | | 550 19 00 | 1 |

13.3.3 Y/D: 3

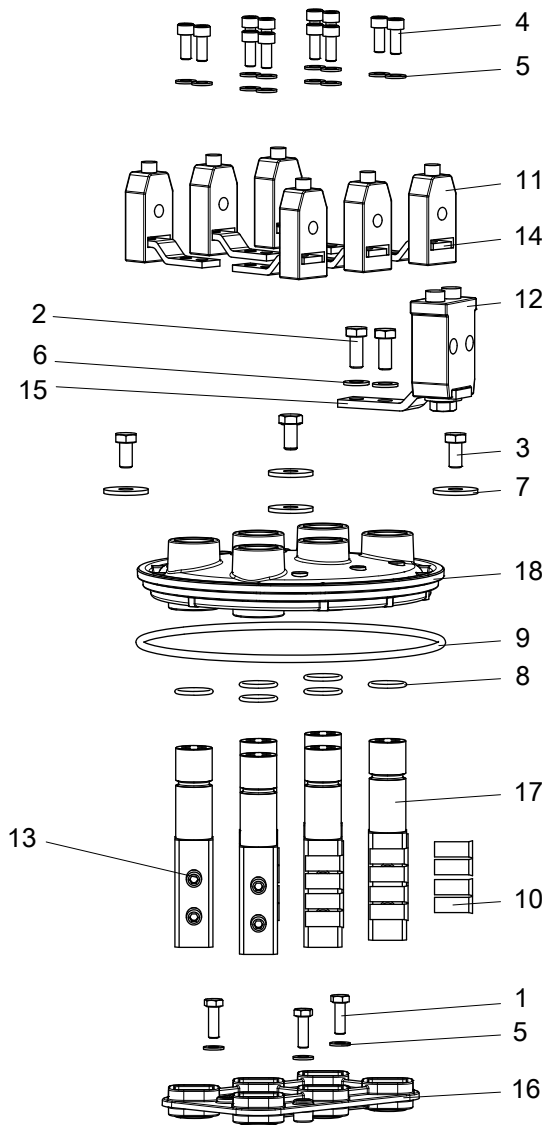


W5004045B

| Item | Denomination | Part No. | Qty. | |
|------|-------------------------------|-------------------|----------|----|
| 1 | Hexagon head screw | M8 x 25 | 81 41 06 | 3 |
| 2 | Hexagon head screw | M10 x 25 | 81 41 31 | 2 |
| 3 | Hexagon head screw | M10 x 20 | 81 48 79 | 4 |
| 4 | Hexagon socket head cap screw | M8 x 20 | 82 00 32 | 24 |
| 5 | Washer | 8.4 x 16.0 x 1.6 | 82 35 16 | 3 |
| 6 | Washer | 10.5 x 20.0 x 2.0 | 82 35 76 | 2 |
| 7 | Plain washer | | 82 37 44 | 4 |

| Item | Denomination | Part No. | Qty. |
|------|----------------|---------------|------|
| 8 | Retaining ring | SgA29 x 1.50 | 6 |
| 9 | O-ring | 24.20 x 3.0 | 6 |
| 10 | O-ring | 229.30 x 5.70 | 1 |
| 11 | Cable clamp | | 1 |
| 12 | Earthing plate | | 1 |
| 13 | Holder | | 1 |
| 14 | Terminal | | 6 |
| 15 | Cable clamp | | 12 |
| 16 | Terminal plate | | 1 |

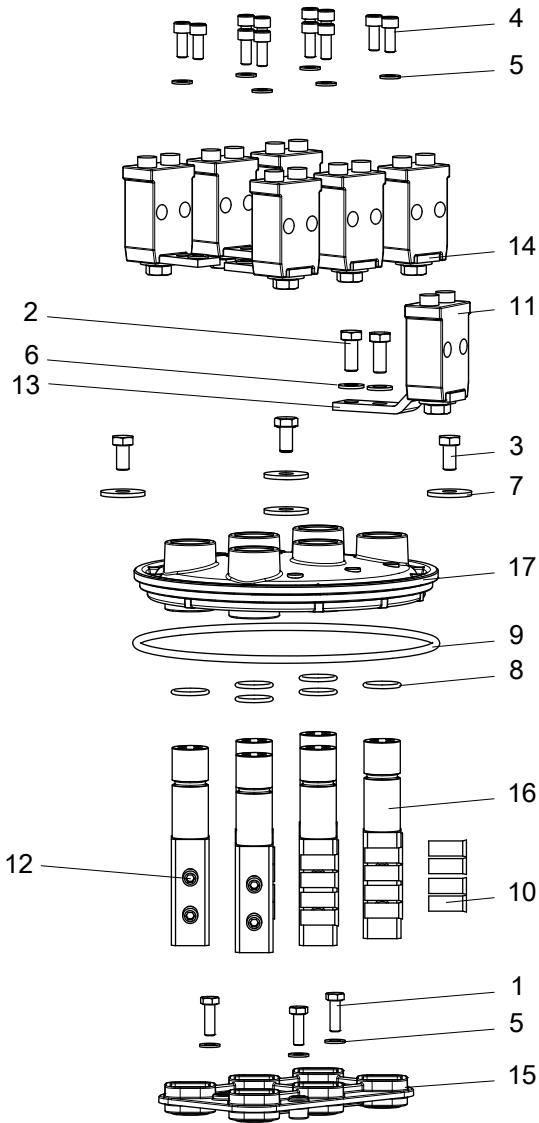
13.3.4 Y/D: 4



| Item | Denomination | Part No. | Qty. |
|------|--------------------|----------|------|
| 1 | Hexagon head screw | M8 x 25 | 3 |
| 2 | Hexagon head screw | M10 x 25 | 2 |
| 3 | Hexagon head screw | M10 x 20 | 4 |

| Item | Denomination | | Part No. | Qty. |
|------|-------------------------------|-----------------------|-----------|------|
| 4 | Hexagon socket head cap screw | M8 x 20 | 82 00 32 | 12 |
| 5 | Washer | 8.4 x 16.0 x 1.6 | 82 35 16 | 15 |
| 6 | Washer | 10.5 x 20.0 x 2.0 | 82 35 76 | 2 |
| 7 | Plain washer | | 82 37 44 | 4 |
| 8 | O-ring | 24.20 x 3.0 | 82 73 92 | 6 |
| 9 | O-ring | 229.30 x 5.70 | 82 81 82 | 1 |
| 10 | End-sleeve | 6 mm ² | 83 43 28 | 24 |
| | | 10 mm ² | 83 43 29 | |
| | | 16 mm ² | 83 43 25 | |
| | | 25 mm ² | 83 43 26 | |
| | | 35-50 mm ² | 83 43 27 | |
| | | 50 mm ² | 83 42 22 | |
| 11 | Cable clamp | | 84 66 51 | 6 |
| 12 | Cable clamp | | 84 66 52 | 1 |
| 13 | Set screw | | 498 87 01 | 24 |
| 14 | Plate | | 548 93 00 | 6 |
| 15 | Earthing plate | | 548 94 00 | 1 |
| 16 | Holder | | 550 14 00 | 1 |
| 17 | Terminal | | 550 15 00 | 6 |
| 18 | Terminal plate | | 550 19 00 | 1 |

13.3.5 Y/D: 5



WS004047B

| Item | Denomination | | Part No. | Qty. |
|------|-------------------------------|-----------------------|----------|------|
| 1 | Hexagon head screw | M8 x 25 | 81 41 06 | 3 |
| 2 | Hexagon head screw | M10 x 25 | 81 41 31 | 2 |
| 3 | Hexagon head screw | M10 x 20 | 81 48 79 | 4 |
| 4 | Hexagon socket head cap screw | M8 x 20 | 82 00 32 | 12 |
| 5 | Washer | 8.4 x 16.0 x 1.6 | 82 35 16 | 15 |
| 6 | Washer | 10.5 x 20.0 x 2.0 | 82 35 76 | 2 |
| 7 | Plain washer | | 82 37 44 | 4 |
| 8 | O-ring | 24.20 x 3.0 | 82 73 92 | 6 |
| 9 | O-ring | 229.30 x 5.70 | 82 81 82 | 1 |
| 10 | End-sleeve ⁽¹⁾ | 6 mm ² | 83 43 28 | 24 |
| | | 10 mm ² | 83 43 29 | |
| | | 16 mm ² | 83 43 25 | |
| | | 25 mm ² | 83 43 26 | |
| | | 35-50 mm ² | 83 43 27 | |

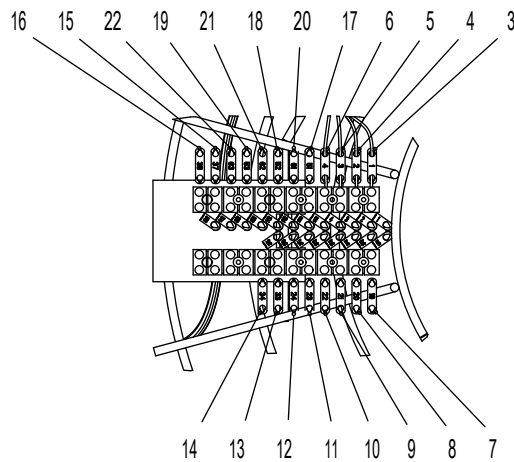
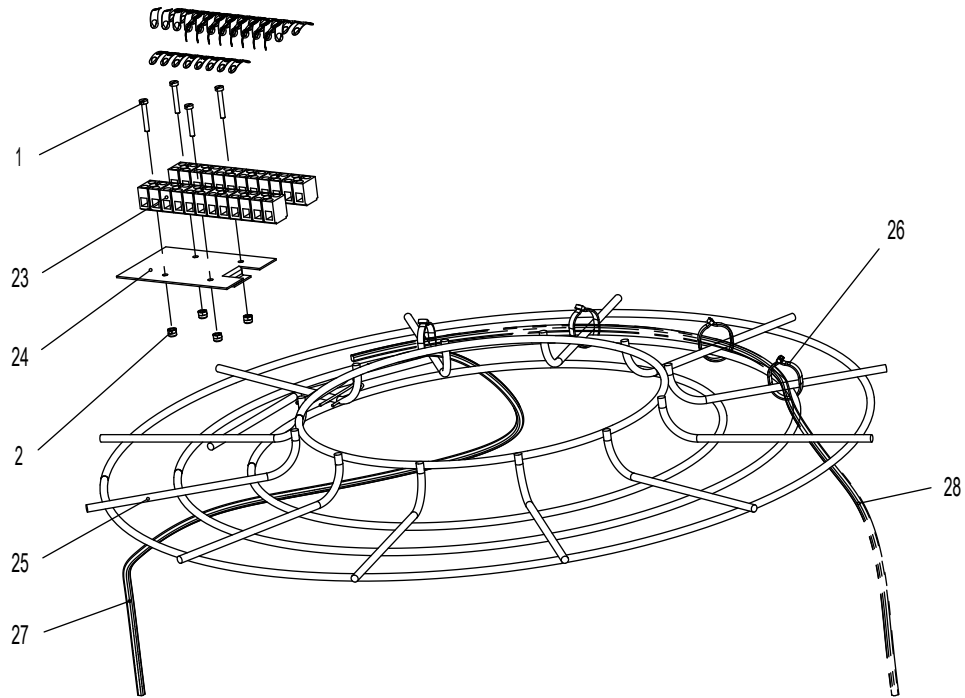
| Item | Denomination | Part No. | Qty. |
|--|----------------|--------------------|----------|
| | | 50 mm ² | 83 42 22 |
| 11 | Cable clamp | 84 66 52 | 7 |
| 12 | Set screw | 498 87 01 | 24 |
| 13 | Earthing plate | 548 94 00 | 1 |
| 14 | Plate | 548 96 01 | 6 |
| 15 | Holder | 550 14 00 | 1 |
| 16 | Terminal | 550 15 00 | 6 |
| 17 | Terminal plate | 550 19 00 | 1 |
| (1) Select the end-sleeve to fit the stator lead size. | | | |

14 Monitoring and Sensors

14.1 Electrical components: Monitoring

14.1.1 In stator housing

Above stator

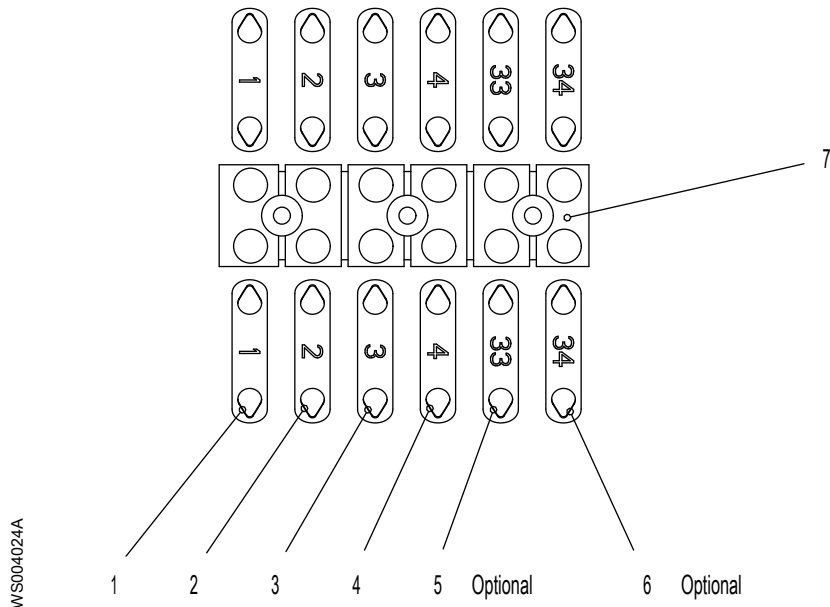


WS004023A

| Item | Denomination | Part No. | Qty. |
|------|--------------------------------|----------|------|
| 1 | Slotted head screw MCS M3 x 20 | 81 73 32 | 4 |
| 2 | Lock nut M3 | 82 27 25 | 4 |
| 3 | Marking plate | 83 50 11 | 2 |
| 4 | Marking plate | 83 50 12 | 2 |
| 5 | Marking plate | 83 50 13 | 2 |
| 6 | Marking plate | 83 50 14 | 2 |

| Item | Denomination | Part No. | Qty. |
|------|-----------------|-----------|------|
| 7 | Marking plate | 83 50 29 | 2 |
| 8 | Marking plate | 83 50 30 | 2 |
| 9 | Marking plate | 83 50 31 | 2 |
| 10 | Marking plate | 83 50 32 | 2 |
| 11 | Marking plate | 83 50 33 | 2 |
| 12 | Marking plate | 83 50 34 | 2 |
| 13 | Marking plate | 83 50 43 | 2 |
| 14 | Marking plate | 83 50 44 | 2 |
| 15 | Marking plate | 83 50 47 | 2 |
| 16 | Marking plate | 83 50 48 | 2 |
| 17 | Marking plate | 83 50 51 | 2 |
| 18 | Marking plate | 83 50 52 | 2 |
| 19 | Marking plate | 83 50 53 | 2 |
| 20 | Marking plate | 83 50 54 | 2 |
| 21 | Marking plate | 83 50 55 | 2 |
| 22 | Marking plate | 83 50 56 | 2 |
| 23 | Terminal block | 81 53 70 | 2 |
| 24 | Plate | 545 56 00 | 1 |
| 25 | Protective grid | 574 72 00 | 1 |
| 26 | Cable tie | 83 45 60 | 4 |
| 27 | Control cable | 94 17 40 | 1 |
| 28 | Control cable | 94 17 40 | 1 |

Below stator

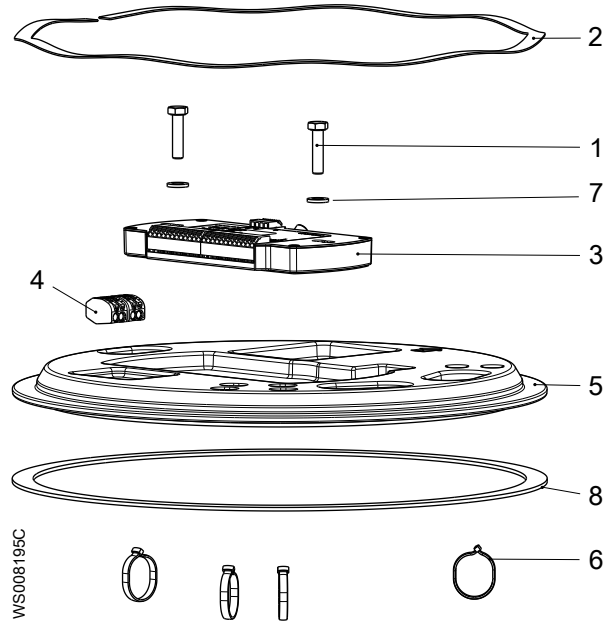


| Item | Denomination | Part No. | Qty. |
|------|---------------|----------|------|
| 1 | Marking plate | 83 50 11 | 2 |
| 2 | Marking plate | 83 50 12 | 2 |
| 3 | Marking plate | 83 50 13 | 2 |

| Item | Denomination | Part No. | Qty. |
|------|----------------|----------|------|
| 4 | Marking plate | 83 50 14 | 2 |
| 5 | Marking plate | 83 50 43 | 2 |
| 6 | Marking plate | 83 50 44 | 2 |
| 7 | Terminal block | 83 53 71 | 1 |

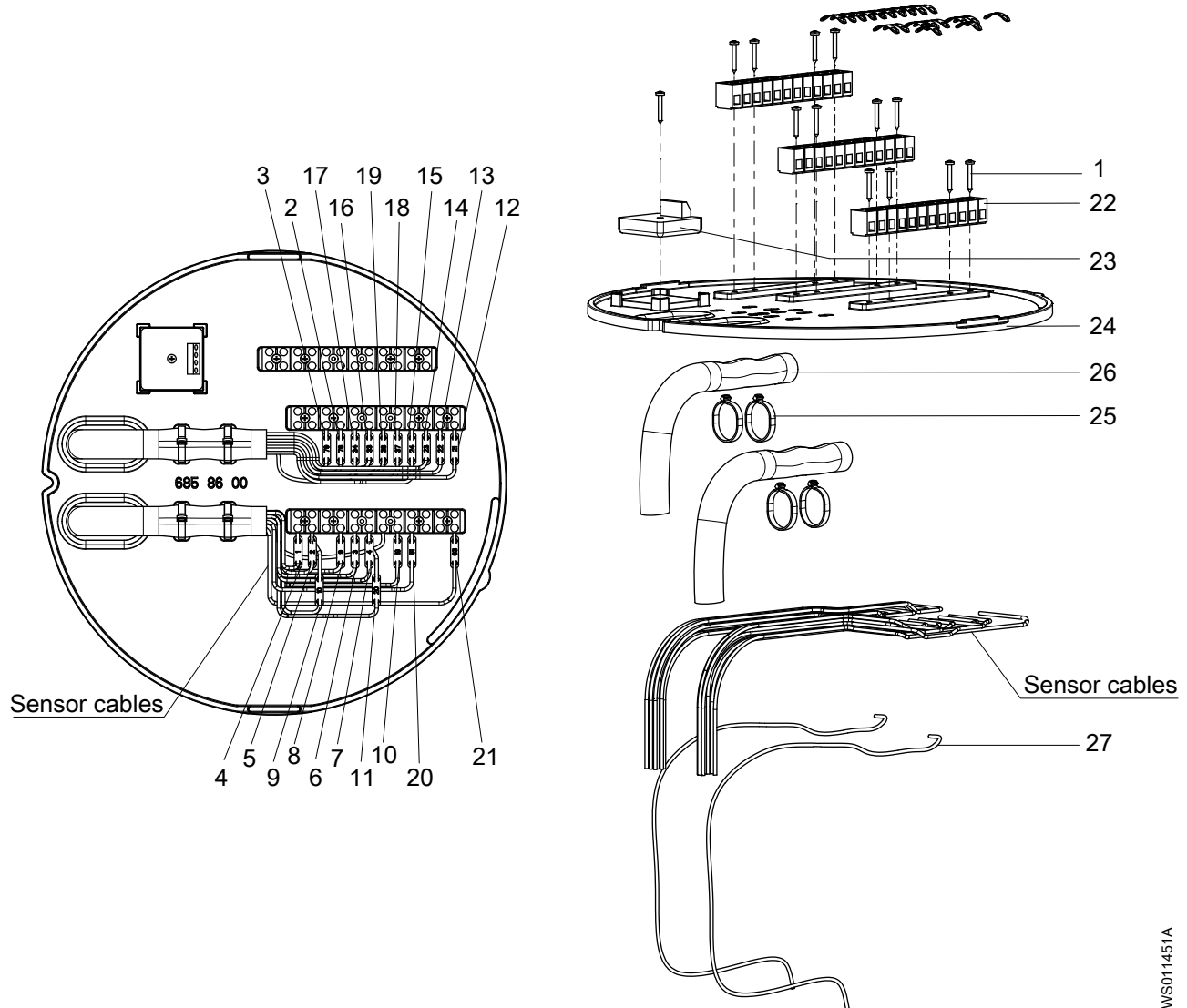
14.1.2 In connection house: Pumps equipped with MAS 801

This section is applicable for drive units equipped with the MAS 801.



| Item | Denomination | | Part No. | Qty. |
|------|-------------------------------|---------------------------|-----------|------|
| 1 | Hexagon socket head cap screw | M6 x 25 | 81 48 30 | 2 |
| 2 | Spring | Large connection house | 82 30 13 | 1 |
| 3 | PEM | | 823 05 00 | 1 |
| 4 | Terminal block | Ex-proof drive units only | 83 42 65 | 2 |
| 5 | Terminal plate | | 777 04 00 | 1 |
| 6 | Cable tie | | 83 45 60 | 4 |
| 7 | Washer | 6.4 x 12.0 x 1.6 | 82 35 73 | 2 |
| 8 | Gasket | | 846 85 00 | 1 |

14.1.3 In connection house: Pumps equipped with MAS 711



WS011451A

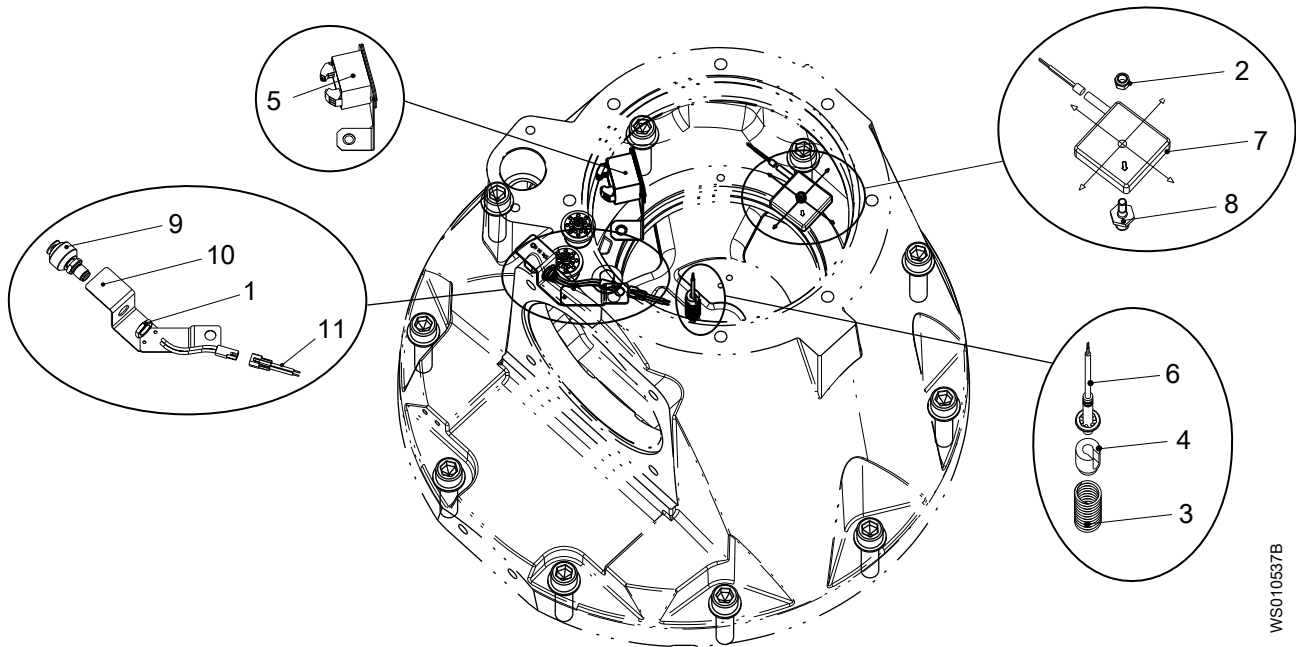
| Item | Denomination | | Part No. | Qty. |
|------|---------------|----------|----------|------|
| 1 | Tapping screw | ST2.9x19 | 82 20 05 | 13 |
| 2 | Marking plate | | 82 97 59 | 1 |
| 3 | Marking plate | | 82 98 50 | 1 |
| 4 | Marking plate | | 83 50 11 | 1 |
| 5 | Marking plate | | 83 50 12 | 1 |
| 6 | Marking plate | | 83 50 13 | 1 |
| 7 | Marking plate | | 83 50 14 | 1 |
| 8 | Marking plate | | 83 50 19 | 1 |
| 9 | Marking plate | | 83 50 20 | 1 |
| 10 | Marking plate | | 83 50 29 | 1 |
| 11 | Marking plate | | 83 50 30 | 1 |
| 12 | Marking plate | | 83 50 31 | 1 |
| 13 | Marking plate | | 83 50 32 | 1 |
| 14 | Marking plate | | 83 50 33 | 1 |
| 15 | Marking plate | | 83 50 34 | 1 |

| Item | Denomination | Part No. | Qty. |
|------|------------------|-----------|------|
| 16 | Marking plate | 83 50 43 | 1 |
| 17 | Marking plate | 83 50 44 | 1 |
| 18 | Marking plate | 83 50 47 | 1 |
| 19 | Marking plate | 83 50 48 | 1 |
| 20 | Marking plate | 83 50 51 | 1 |
| 21 | Marking plate | 83 50 56 | 1 |
| 22 | Terminal block | 83 53 70 | 3 |
| 23 | Pump memory | 84 00 90 | 1 |
| 24 | Terminal plate | 685 86 00 | 1 |
| 25 | Cable tie | 83 45 60 | 4 |
| 26 | Insulation hose | 94 05 89 | 2 |
| 27 | Single conductor | 94 18 29 | 2 |

14.2 Sensors

14.2.1 Connection housing

14.2.1.1 Horizontal installation

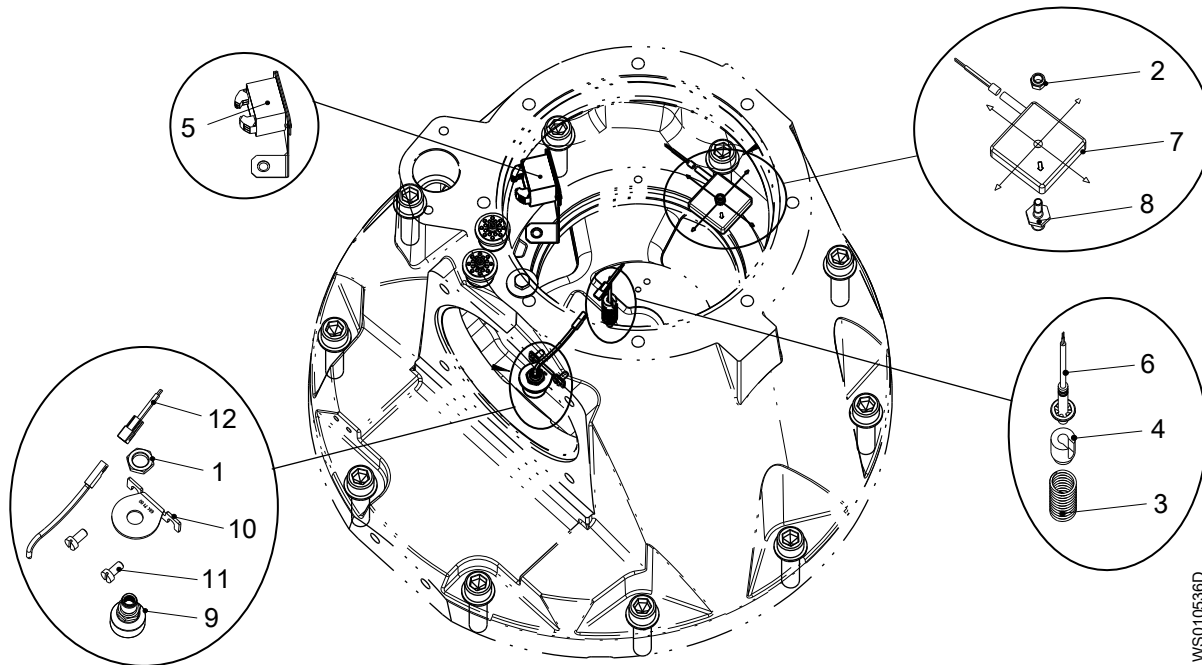


Spare parts marked with “EX” after the part number are subject to dimensional accuracy inspection.

| Item | Denomination | Part No. STD-units | Part No. EX-units | Qty. |
|------|-------------------------------|--------------------|-------------------|------|
| 1 | Nut M12 | 82 25 99 | 82 25 99 | 1 |
| 2 | Hexagon nut | 82 27 26 | 82 27 26 | 1 |
| 3 | Compression spring | 544 46 02 | 544 46 02 | 1 |
| 4 | Sleeve | 545 26 00 | 545 26 00 | 1 |
| 5 | Noise suppression filter unit | 604 68 04 | - | 1 |
| 6 | Pt100 sensor unit | 648 55 00 | 648 55 00 | 1 |

| Item | Denomination | | Part No. STD-units | Part No. EX-units | Qty. |
|------|-------------------------|---|-----------------------|----------------------|------|
| 7 | Vibrations sensor VIS10 | Only drive units equipped with MAS 711. | 669 88 01 | 669 88 01 | 1 |
| 8 | Screw | | 690 25 00 | 690 25 00 | 1 |
| 9 | Level sensor | | 791 99 00 | 663 04 00 (EX) | 1 |
| 10 | Holder | | 574 94 03 | 574 94 03 | 1 |
| 11 | Cable unit | FLS | 650 51 00 | 650 51 00 | 1 |

14.2.1.2 Vertical installation



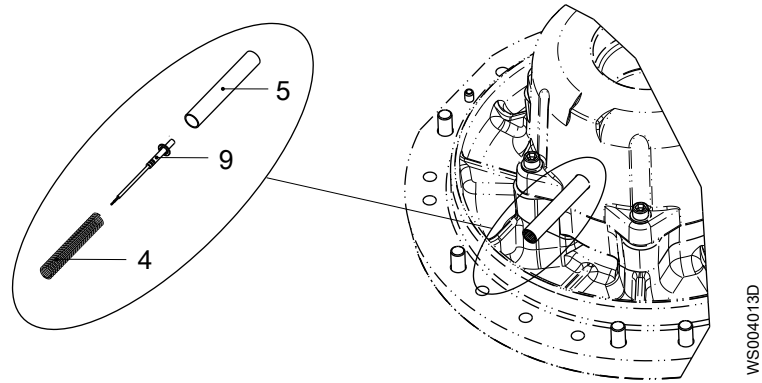
WS010536D

Spare parts marked with “EX” after the part number are subject to dimensional accuracy inspection.

| Item | Denomination | | Part No. STD-units | Part No. EX-units | Qty. |
|------|-------------------------------|---|-----------------------|----------------------|------|
| 1 | Nut | M12 | 82 25 99 | 82 25 99 | 1 |
| 2 | Hexagon nut | | 82 27 26 | 82 27 26 | 1 |
| 3 | Compression spring | | 544 46 02 | 544 46 02 | 1 |
| 4 | Sleeve | | 545 26 00 | 545 26 00 | 1 |
| 5 | Noise suppression filter unit | | 604 68 04 | - | 1 |
| 6 | Pt100 sensor unit | | 648 55 00 | 648 55 00 | 1 |
| 7 | Vibrations sensor VIS10 | Only drive units equipped with MAS 711. | 669 88 01 | 669 88 01 | 1 |
| 8 | Screw | | 690 25 00 | 690 25 00 | 1 |
| 9 | Level sensor | FLS | 791 99 00 | 663 04 00 (EX) | 1 |
| 10 | Holder complete | | 684 71 00 | 684 71 00 | 1 |
| 11 | Slotted head screw | MCS M6 x 12 | 81 71 48 | 81 71 48 | 2 |
| 12 | Cable unit | FLS | 650 51 00 | 650 51 00 | 1 |

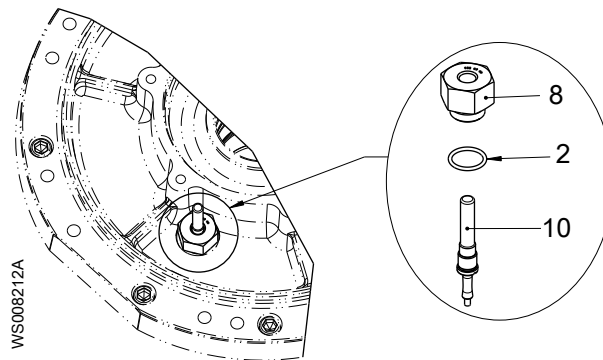
14.2.2 In main bearing holder

Pt100



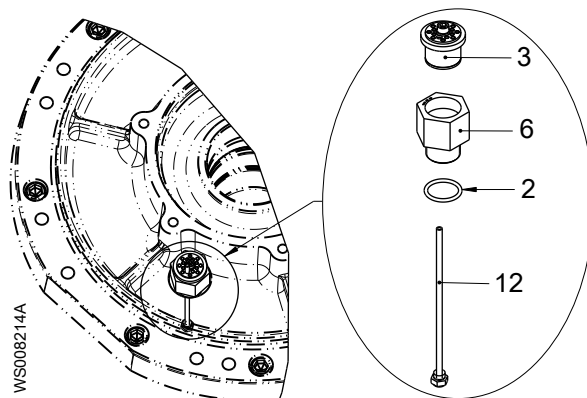
| Item | Denomination | Part No. | Qty. |
|------|--------------------|-----------|------|
| 4 | Compression spring | 544 46 00 | 1 |
| 5 | Pipe | 544 48 01 | 1 |
| 9 | Pt100 sensor unit | 648 55 00 | 1 |

CLS



| Item | Denomination | | Part No. STD-units | Part No. EX-units | Qty. |
|------|--------------------|-------------|-----------------------|----------------------|------|
| 2 | O-ring | 26.20 x 3.0 | 82 73 93 | 82 73 93 | 1 |
| 8 | Gland screw | | 622 67 00 | 622 67 00 | 1 |
| 10 | Leakage sensor CLS | | 505 12 00 | — | 1 |

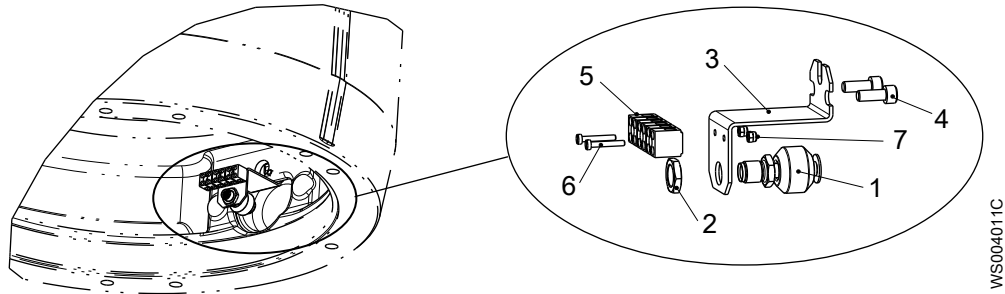
Hydroturbines: Pressure equalizer



| Item | Denomination | Part No. | Qty. | |
|------|------------------------------|-------------|-----------|---|
| 2 | O-ring | 26.20 x 3.0 | 82 73 93 | 1 |
| 3 | Electrical lead through unit | | 544 41 01 | 1 |
| 6 | Gland screw | | 548 92 00 | 1 |
| 12 | Filter plug complete | | 438 73 01 | 1 |

14.2.3 FLS in stator housing

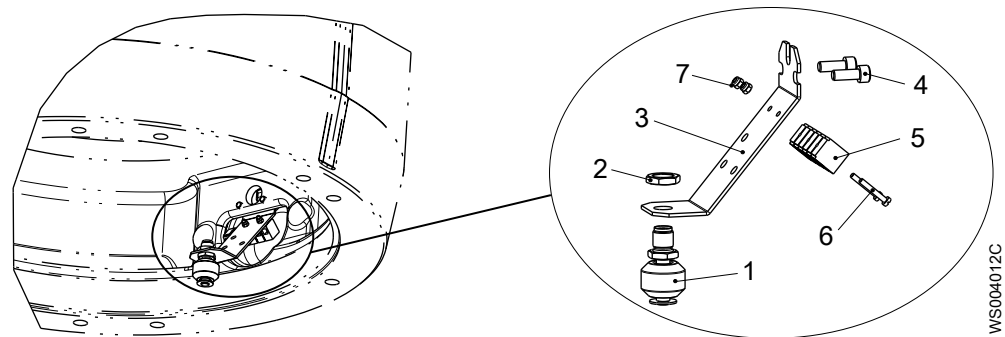
Horizontal installations



WS004011C

| Item | Denomination | Part No. | Qty. | |
|------|-------------------------------|----------------------|-----------|---|
| 1 | Level sensor | EX drive units | 663 04 00 | 1 |
| | | Standard drive units | 791 99 00 | |
| 2 | Nut | M12 | 82 25 99 | 1 |
| 3 | Holder | | 575 69 03 | 1 |
| 4 | Hexagon socket head cap screw | M6 x 16 | 82 00 13 | 2 |
| 5 | Terminal block | | 83 53 71 | 1 |
| 6 | Slotted head screw | MCS M3 x 20 | 81 73 32 | 2 |
| 7 | Hexagon nut | | 82 27 25 | 2 |

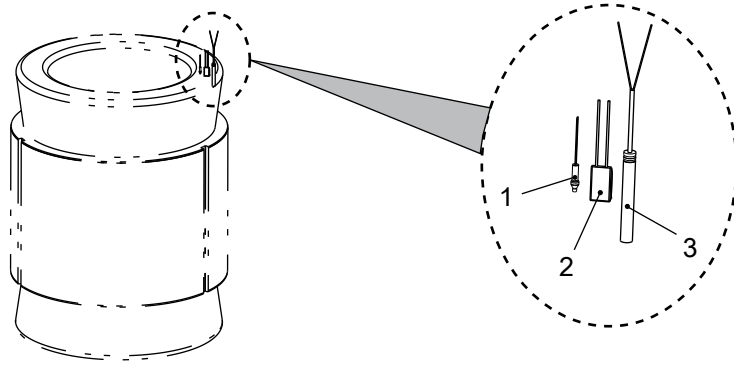
Vertical installations



WS004012C

| Item | Denomination | Part No. | Qty. | |
|------|-------------------------------|----------------------|-----------|---|
| 1 | Level sensor | EX drive units | 663 04 00 | 1 |
| | | Standard drive units | 791 99 00 | |
| 2 | Nut | | 82 25 99 | 1 |
| 3 | Holder | M12 | 575 68 01 | 2 |
| 4 | Hexagon socket head cap screw | M6 x 16 | 82 00 13 | 1 |
| 5 | Terminal block | | 83 53 71 | 1 |
| 6 | Slotted head screw | MCS M3 x 20 | 81 73 32 | 2 |
| 7 | Hexagon nut | | 82 27 25 | 2 |

14.2.4 Stator winding temperature



WS004016B

| Item | Denomination | Part No. | Qty. | |
|------|-------------------|---|----------|--------|
| 1 | Thermistor | 85 06 37 is 3 thermistors in series. | 85 06 37 | 1 |
| 2 | Thermal contact | 85 06 38 is 3 thermal contacts in series. | 85 06 38 | 1 |
| 3 | Thermal detectors | Pt100 | 83 97 84 | 1 or 3 |

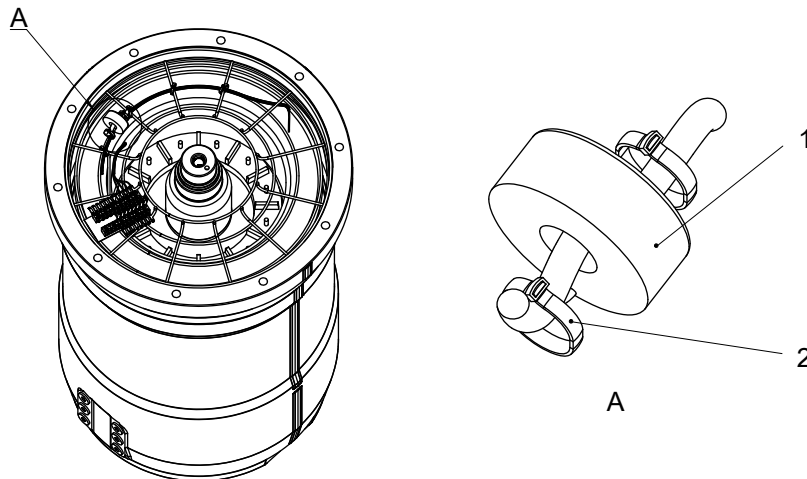
The drive unit is equipped with Pt100 thermal detectors, and one of the following:

- Thermistors
- Thermal contacts

Contact your local sales representative with the serial number, to find out which temperature sensors are in the drive unit.

14.2.5 Current transformer: Units equipped with MAS 801

If the current transformer was installed at the factory, then it is located in the stator house. The current transformer is installed on one stator lead, as shown in the following figure.



WS010539A

| Item | Denomination | Part No. | Qty. |
|------|---------------------|----------|------|
| 1 | Current transformer | 82 62 75 | 1 |
| 2 | Cable tie | 83 45 60 | 2 |

If the drive unit has been retrofitted with MAS 801, then the current transformer is in the connection house.

15 Accessories

15.1 Lifting eye bracket 494 01 01



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- 2) a leading global water technology company.

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Xylem Water Solutions Global
Services AB 556782-9253
361 80 Emmaboda
Sweden
Tel: +46-471-24 70 00
Fax: +46-471-24 74 01
<http://tpi.xylem.com>
[www.xylemwatersolutions.com/
contacts/](http://www.xylemwatersolutions.com/contacts/)

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

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