

**Date:** 18/02/2019

Qty. | Description

1 | CR 150-4-1 A-F-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 95922379

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via DIN flanges.

The pump is fitted with a 3-phase, fan-cooled asynchronous motor.

#### Further product details

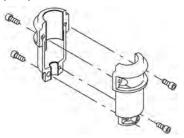
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An integral part of the process is a pretreatment. The entire process consists of these elements:

- 1) Alkaline-based cleaning.
- 2) Zinc phosphating.
- 3) Cathodic electro-deposition.
- 4) Curing to a dry film thickness 18-22 my m.

The colour code for the finished product is NCS 9000/RAL 9005.

#### **Pump**

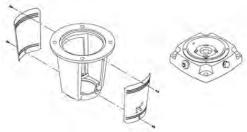
A long split coupling connects the pump and motor shaft. It is enclosed in the motor stool by means of two coupling guards. The long coupling makes it possible to replace the shaft seal without removing the motor from the pump.



The motor stool connects the pump head and motor. The pump head has a combined 1/2" priming plug and vent screw.



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The pump is fitted with a balanced O-ring seal unit with a rigid torque-transmission system. This seal type is assembled in a cartridge unit which makes replacement safe and easy. Due to the balancing, this seal type is suitable for high-pressure applications. The cartridge construction also protects the pump shaft from possible wear from a dynamic O-ring between pump shaft and shaft seal.

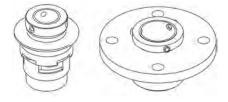
#### Primary seal:

- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Secondary seal material: EPDM (ethylene-propylene rubber)

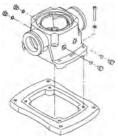
EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



The shaft seal is retained in the pump head by a cover and screws. It can be replaced without removing the motor.

The chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PTFE neck ring offering improved sealing and high efficiency. The impellers have smooth surfaces, and the shape of the blades ensure a high efficiency.

The base is made of cast iron and mounted on a separate cast-iron base plate. Both the inlet and the outlet side of the base have two pressure gauge tappings. The pump is secured to the foundation by four bolts through the base plate. The flanges are fastened to the base by means of locking rings.



#### Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with free-hole flange (FF).

Motor-mounting designation in accordance with IEC 60034-7: IM B 5 (Code I) / IM 3001 (Code II). Electrical tolerances comply with IEC 60034.

The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.

The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.



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Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations.

A variable speed drive makes adjustment of pump performance to any duty point possible. If the motor is to be connected to a variable speed drive, the pump must be ordered with an electrically insulated motor bearing.

#### **Technical data**

Controls:

Frequency converter: NONE

Liquid:

Pumped liquid: Water

Liquid temperature range: -30 .. 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³

Technical:

Pump speed on which pump data are based: 2960 rpm

Rated flow: 150 m³/h
Rated head: 81.4 m
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQE

Approvals on nameplate: CE, EAC,ACS Curve tolerance: ISO9906:2012 3B

Materials:

Base: Cast iron

EN 1563 EN-GJS-500-7 ASTM A536 80-55-06

Impeller: Stainless steel

EN 1.4301 AISI 304 SIC

Bearing: SIC Support bearing: Graflon

Installation:

Maximum ambient temperature: 55 °C Maximum operating pressure: 30 bar

Max pressure at stated temp: 30 bar / 120 °C

30 bar / -30 °C

Type of connection: DIN
Size of inlet connection: DN 125
Size of outlet connection: DN 125
Pressure rating for pipe connection: PN 40
Flange size for motor: FF400

Electrical data:

Motor standard: IEC
Motor type: SIEMENS
IE Efficiency class: IE3
Rated power - P2: 45 kW
Power (P2) required by pump: 45 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-420D/660-725Y V Rated current: 81,0-74,0/47,0-43,0 A

Starting current: 690-690 % Cos phi - power factor: 0.89



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Rated speed: 2960 rpm
Efficiency: IE3 94,0%
Motor efficiency at full load: 94.0-94.0 %
Motor efficiency at 3/4 load: 94.5-94.5 %
Motor efficiency at 1/2 load: 94.4-94.4 %

Number of poles: 2

Enclosure class (IEC 34-5): 55 Dust/Jetting

Insulation class (IEC 85): F

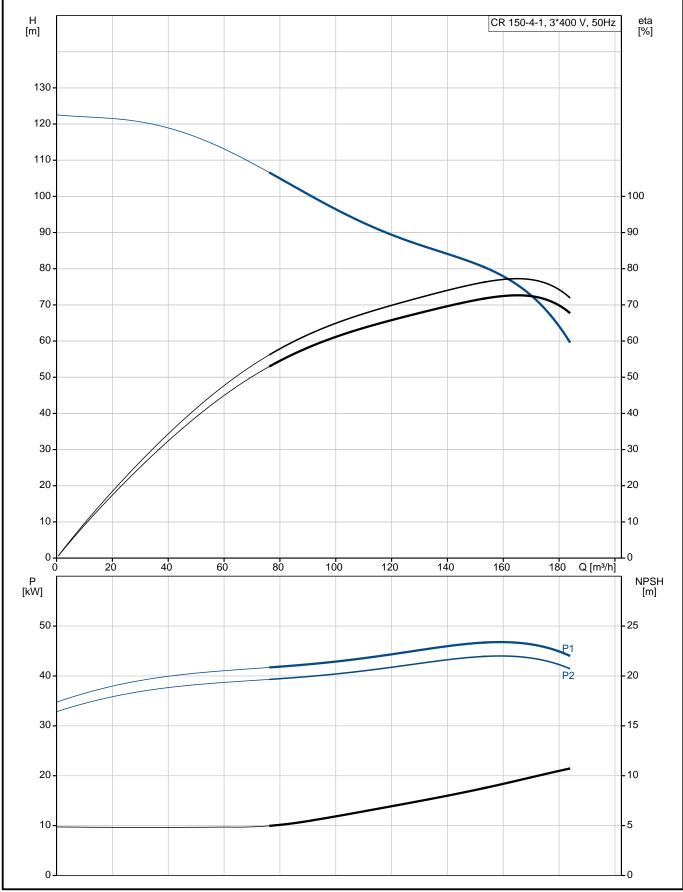
#### Others:

Minimum efficiency index, MEI ≥: 0.70 Net weight: 477 kg Gross weight: 554 kg Shipping volume: 1.32 m³



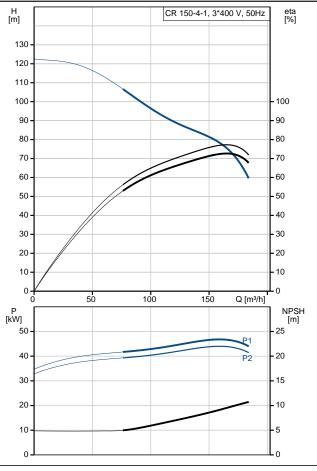
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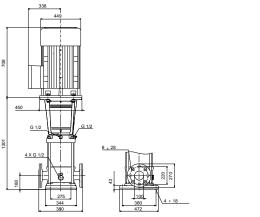
## 95922379 CR 150-4-1 A-F-A-E-HQQE 50 Hz

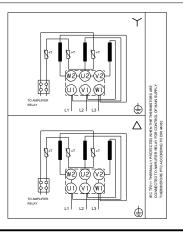




| Description                           | Value                      |
|---------------------------------------|----------------------------|
| General information:                  |                            |
| Product name:                         | CR 150-4-1<br>A-F-A-E-HQQE |
| Product No:                           | 95922379                   |
| EAN number:                           | 5700838935899              |
| Technical:                            | 0.000000000                |
| Pump speed on which pump data are     |                            |
| based:                                | 2960 rpm                   |
| Rated flow:                           | 150 m³/h                   |
| Rated head:                           | 81.4 m                     |
| Head max:                             | 121.7 m                    |
| Stages:                               | 4                          |
| Impellers:                            | 4                          |
| Number of reduced-diameter impellers: | 1                          |
| Low NPSH:                             | N                          |
| Pump orientation:                     | Vertical                   |
| Shaft seal arrangement:               | Single                     |
| Code for shaft seal:                  | HQQE                       |
| Approvals on nameplate:               | CE, EAC,ACS                |
| Curve tolerance:                      | ISO9906:2012 3B            |
| Pump version:                         | Α                          |
| Model:                                | A                          |
| Materials:                            |                            |
| Base:                                 | Cast iron                  |
|                                       | EN 1563 EN-GJS-500-7       |
|                                       | ASTM A536 80-55-06         |
| Impeller:                             | Stainless steel            |
|                                       | EN 1.4301                  |
|                                       | AISI 304                   |
| Material code:                        | A                          |
| Code for rubber:                      | E                          |
| Bearing:                              | SIC                        |
| Support bearing:                      | Graflon                    |
| Installation:                         |                            |
| Maximum ambient temperature:          | 55 °C                      |
| Maximum operating pressure:           | 30 bar                     |
| Max pressure at stated temp:          | 30 bar / 120 °C            |
|                                       | 30 bar / -30 °C            |
| Type of connection:                   | DIN                        |
| Size of inlet connection:             | DN 125                     |
| Size of outlet connection:            | DN 125                     |
| Pressure rating for pipe connection:  | PN 40                      |
| Flange size for motor:                | FF400                      |
| Connect code:                         | F                          |
| Liquid:                               |                            |
| Pumped liquid:                        | Water                      |
| Liquid temperature range:             | -30 120 °C                 |
| Liquid temperature during operation:  | 20 °C                      |
| Density:                              | 998.2 kg/m³                |
| Electrical data:                      | <u> </u>                   |
| Motor standard:                       | IEC                        |
| Motor type:                           | SIEMENS                    |
| IE Efficiency class:                  | IE3                        |
| Rated power - P2:                     | 45 kW                      |
| Power (P2) required by pump:          | 45 kW                      |
| Mains frequency:                      | 50 Hz                      |
|                                       |                            |
| Rated voltage:                        | 3 x 380-420D/660-725Y      |
| Rated voltage:  Rated current:        | 81,0-74,0/47,0-43,0 A      |







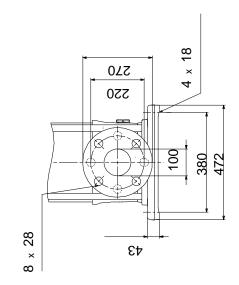


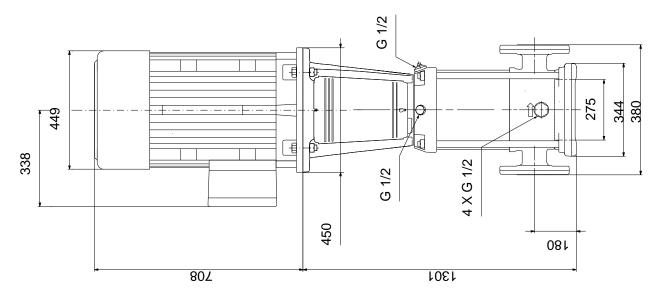
| Description                      | Value           |
|----------------------------------|-----------------|
| Starting current:                | 690-690 %       |
| Cos phi - power factor:          | 0.89            |
| Rated speed:                     | 2960 rpm        |
| Efficiency:                      | IE3 94,0%       |
| Motor efficiency at full load:   | 94.0-94.0 %     |
| Motor efficiency at 3/4 load:    | 94.5-94.5 %     |
| Motor efficiency at 1/2 load:    | 94.4-94.4 %     |
| Number of poles:                 | 2               |
| Enclosure class (IEC 34-5):      | 55 Dust/Jetting |
| Insulation class (IEC 85):       | F               |
| Motor protec:                    | PTC             |
| Motor No:                        | 81U15336        |
| Controls:                        |                 |
| Frequency converter:             | NONE            |
| Others:                          |                 |
| Minimum efficiency index, MEI ≥: | 0.70            |
| Net weight:                      | 477 kg          |
| Gross weight:                    | 554 kg          |
| Shipping volume:                 | 1.32 m³         |



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# 95922379 CR 150-4-1 A-F-A-E-HQQE 50 Hz



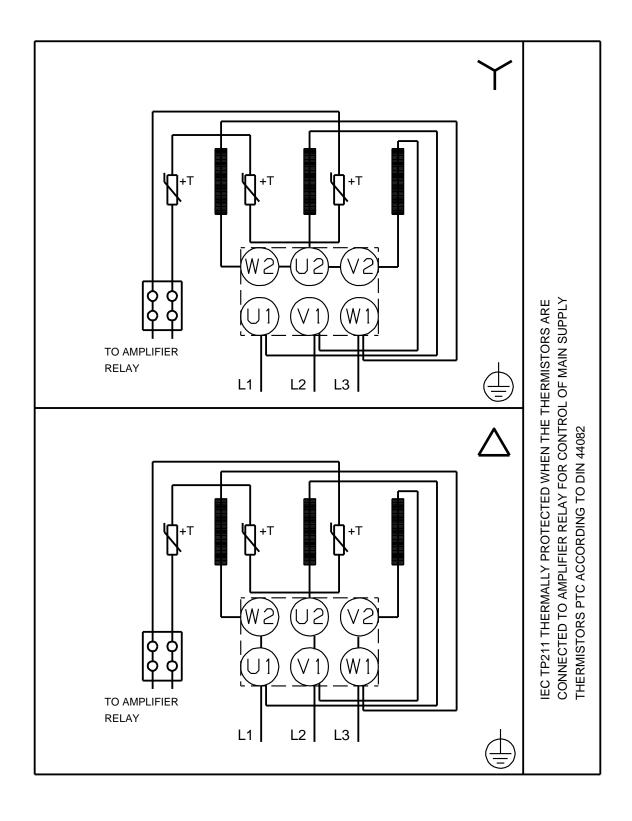


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



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## 95922379 CR 150-4-1 A-F-A-E-HQQE 50 Hz



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



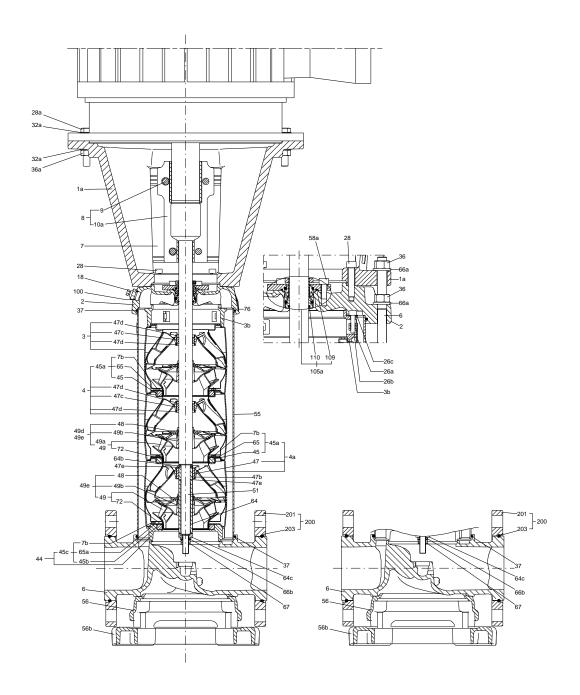
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(TM065565 XLCR) -26b -26c 47d -47c -47d -65 -47c -47d 66a 58a 58 36 66a -23 -100 -60 -47e -47b -64



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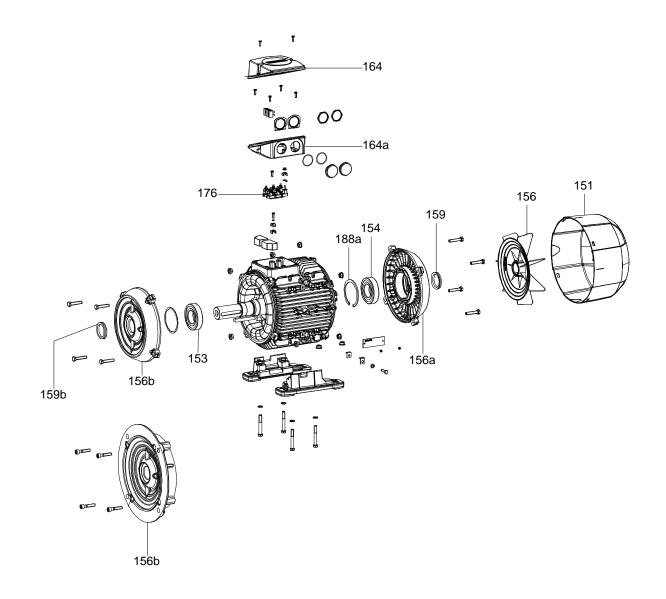
## (TM065579 XLCR)





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(TM058162)





**Date:** 18/02/2019

# Spare parts CR 150-4-1, Product No. 95922379 Valid from 12.9.2007 (0737)

| Pos     | Description                    | Aimotation | Classification Data  | Part no.   | Qty. |    |
|---------|--------------------------------|------------|----------------------|------------|------|----|
| •       | Base                           |            |                      | 98807603   | 1    | po |
| 6       | Base                           |            |                      |            | 1    |    |
|         | Kit, bearing                   |            |                      | 96752215   |      | р  |
|         | Adjusting fork                 |            |                      |            |      |    |
|         | Adjusting fork                 |            |                      |            |      |    |
| 47e     | Washer                         |            | Internal diameter: D | )22        | 2    | 2  |
|         |                                |            | Outer diameter: D32  |            |      |    |
| 47b     | Bearing ring, rotating         |            |                      |            |      |    |
|         | Kit, chamber stack             |            |                      | 95059851   | 1    | р  |
| 80      | Chamber stack                  |            |                      |            | 1    |    |
|         | Shaft cpl.                     |            | Diameter: D22        |            |      |    |
|         |                                |            | Length (mm): 887     |            |      |    |
| 47e     | Washer                         |            | Internal dia         | meter: D22 |      |    |
|         |                                |            | Outer diameter: D32  |            |      |    |
| 47b     | Bearing ring, rotating         |            |                      |            |      |    |
| 51      | Pump shaft                     |            | Diameter: D          | )22        |      |    |
|         | -                              |            | Length (mm): 887     |            |      |    |
| 64c     | Spacer ring                    |            | <u> </u>             |            |      |    |
| 64b     | Wedge lock washer              |            |                      |            |      |    |
| 64b     | Lock washer                    |            |                      |            |      |    |
| 64      | Spacing bush                   |            |                      |            |      |    |
| 67      | Hex nut                        |            | Thread: M1           | 4          |      |    |
| 3       | Chamber cpl.                   |            |                      | •          |      |    |
| 47d     | Locking ring                   |            |                      |            |      |    |
| 47c     | Bush                           |            |                      |            |      |    |
| 4a      | Chamber cpl.                   |            |                      |            |      |    |
| 7a      | Cross recess Pan head screw    |            |                      |            |      |    |
| 45      | Neck ring                      |            |                      |            |      |    |
| 47      | Bearing ring                   |            |                      |            |      |    |
| 65a     | Retainer                       |            |                      |            |      |    |
| 4       | Chamber cpl.                   |            |                      |            |      |    |
| т<br>7а | Cross recess Pan head screw    |            |                      |            |      |    |
| 45      | Neck ring                      |            |                      |            |      |    |
| 47d     | Locking ring                   |            |                      |            |      |    |
| 47c     | Bush                           |            |                      |            |      |    |
|         |                                |            |                      |            |      |    |
| 65a     | Retainer                       |            |                      |            |      |    |
| 7a      | Cross recess Pan head screw    |            | Doolanation, D       | NI 105 A   |      |    |
| 26c     | Washer                         |            | Designation: DI      | N IZSA     |      |    |
| 00L     | Hay applied heard are arrow.   |            | Thickness: 1,6       |            |      |    |
| 26b     | Hex socket head cap screw      |            | 1 - 4 / 2 2          | 70         |      |    |
| 26a     | Strap cpl.                     |            | Length (mm): 6       | 12         |      |    |
| 44a     | Discharge part                 |            |                      |            |      |    |
| 44      | Inlet part                     |            |                      |            |      |    |
|         | Inlet part                     |            |                      |            |      |    |
| 45b     | Neck ring                      |            |                      |            |      |    |
| 49e     | Impeller cpl.                  |            |                      |            |      |    |
| 48      | Split cone nut                 |            |                      |            |      |    |
| 49b     | Split cone                     |            |                      |            |      |    |
| 49      | Impeller cpl. reduced diameter |            |                      |            |      |    |
| 49c     | Wear ring                      |            |                      |            |      |    |
| 49d     | Impeller cpl.                  |            |                      |            |      |    |
| 48      | Split cone nut                 |            |                      |            |      |    |
|         | Split cone                     |            |                      |            |      |    |



| Pos | Description                             | Annotation | Classification Data                   | Part no. | Qt | у.  | Uni |
|-----|---|------------|---------------------------------------|----------|----|-----|-----|
| 49a | Impeller cpl. reduced diameter          |            |                                       |          |    |     |     |
| 49c | Wear ring                               |            |                                       |          |    |     |     |
| 65a | Retainer                                |            |                                       |          |    |     |     |
|     | Kit, chambers                           |            |                                       | 96751984 | 1  |     | pcs |
|     | Adjusting fork                          |            |                                       |          |    | 1   | •   |
|     | Adjusting fork                          |            |                                       |          |    | 1   |     |
| 40  | Chamber cpl.                            |            |                                       |          |    | 1   |     |
| 4a  | •                                       |            |                                       |          |    | - 1 |     |
| 7a  | Cross recess Pan head screw             |            |                                       |          |    |     |     |
| 45  | Neck ring                               |            |                                       |          |    |     |     |
| 47  | Bearing ring                            |            |                                       |          |    |     |     |
| 65a | Retainer                                |            |                                       |          |    |     |     |
|     | Kit, coupling                           |            |                                       | 96416594 | 1  |     | pcs |
|     | Adjusting fork                          |            |                                       |          |    | 1   |     |
| 8   | Coupling cpl.                           |            | Dimension: 22/55                      |          |    | 1   |     |
| 9   | Hex socket head cap screw               |            | Designation: DIN                      | 012      |    | •   |     |
| 9   | Hex socket head cap screw               |            |                                       | 912      |    |     |     |
|     |   |            | Length (mm): 25                       |          |    |     |     |
|     |   |            | Thread: M10                           |          |    |     |     |
| 10a | Coupling half                           |            |                                       |          |    |     |     |
|     | Kit, coupling guard                     |            |                                       | 96505135 | 1  |     | pcs |
| 7a  | Socket button head screw                |            |                                       |          |    | 4   |     |
| 7   | Coupling guard                          |            |                                       |          |    | 2   |     |
|     | Kit, cover                              |            |                                       | 98832448 | 1  |     | pcs |
| 58a | Hex socket head cap screw               |            | Designation: DIN 912                  |          |    | 4   | F   |
| 30a | Tiex socket flead cap screw             |            | Length (mm): 25                       | •        |    | _   |     |
|     |   |            | Thread: M10                           |          |    |     |     |
|     |   |            | Thread: MTU                           |          |    |     |     |
| 58  | Cover                                   |            |                                       |          |    | 1   |     |
|     | Kit, gaskets                            |            |                                       | 95059804 | 1  |     | pcs |
|     | Adjusting fork                          |            |                                       |          |    | 1   |     |
|     | Adjusting fork                          |            |                                       |          |    | 1   |     |
| 37  | O-ring                                  |            |                                       |          |    | 2   |     |
| 38  | O-ring                                  |            | Diameter: 16,3                        |          |    | 4   |     |
|     | - · · · · · · · · · · · · · · · · · · · |            | Material type: EPDM                   |          |    |     |     |
|     |   |            | Thickness: 2,4                        |          |    |     |     |
| 38  | Orina                                   |            | Diameter: 16,3                        |          |    | 2   |     |
| 30  | O-ring                                  |            | · · · · · · · · · · · · · · · · · · · |          |    | _   |     |
|     |   |            | Material type: EPDM                   |          |    |     |     |
|     |   |            | Thickness: 2,4                        |          |    |     |     |
| 60  | Spring                                  |            |                                       |          |    | 4   |     |
| 109 | O-ring                                  |            |                                       |          |    | 1   |     |
| 109 | O-ring                                  |            | Material type: EPDM                   |          |    | 1   |     |
| 110 | O-ring                                  |            |                                       |          |    | 1   |     |
| 110 | O-ring                                  |            | Diameter: 21,5                        |          |    | 1   |     |
| 110 | Offing                                  |            | Material type: EPDM                   |          |    | •   |     |
|     |   |            |                                       |          |    |     |     |
|     |   |            | Thickness: 4,25                       |          |    |     |     |
|     | Kit, plug                               |            |                                       | 96505136 | 1  |     | pcs |
| 18  | Air vent screw                          |            |                                       |          |    | 1   |     |
|     | Spindle                                 |            |                                       |          |    |     |     |
|     | Plug                                    |            |                                       |          |    |     |     |
| 25  | Plug                                    |            |                                       |          |    | 4   |     |
| 25  | Plug                                    |            |                                       |          |    | 1   |     |
| 38  | O-ring                                  |            | Diameter: 16,3                        |          |    | 2   |     |
| 30  | O-Tillig                                |            |                                       |          |    | _   |     |
|     |   |            | Material type: FKM                    |          |    |     |     |
|     |   |            | Thickness: 2,4                        |          |    |     |     |
| 38  | O-ring                                  |            | Diameter: 16,3                        |          |    | 4   |     |
|     |   |            | Material type: FKM                    |          |    |     |     |
|     |   |            | Thickness: 2,4                        |          |    |     |     |
| 38  | O-ring                                  |            | Diameter: 16,3                        |          |    | 6   |     |
|     | - ····u                                 |            | Material type: FKM                    |          |    | _   |     |
|     |   |            |                                       |          |    |     |     |
| 38  | 2                                       |            | Thickness: 2,4                        |          |    | _   |     |
|     | O-ring                                  |            | Diameter: 16,3                        |          |    | 2   |     |



| Pos                        | Description  |   | . Uı                        |
|----------------------------|--|---|-----------------------------|
|                            |  | Material type: EPDM   |                             |
|                            |  | Thickness: 2,4  |                             |
| 38                         | O-ring   | Diameter: 16,3  | 4                           |
|                            |  | Material type: EPDM   |                             |
|                            |  | Thickness: 2,4  |                             |
|                            | Kit, shaft   | 98368846 1  | pc                          |
|                            | Shaft cpl.   | Diameter: D22   | 1                           |
|                            |  | Length (mm): 887  |                             |
| 47e                        | Washer   | Internal diameter: D22  |                             |
|                            |  | Outer diameter: D32   |                             |
| 47b                        | Bearing ring, rotating   |   |                             |
| 51                         | Pump shaft   | Diameter: D22   |                             |
|                            |  | Length (mm): 887  |                             |
| 64c                        | Spacer ring  |   |                             |
| 64b                        | Wedge lock washer  |   |                             |
| 64b                        | Lock washer  |   |                             |
| 64                         | Spacing bush   |   |                             |
| 67                         | Hex nut  | Thread: M14   |                             |
| 47e                        | Washer   | Internal diameter: D22  | 2                           |
|                            |  | Outer diameter: D32   |                             |
| 47b                        | Bearing ring, rotating   |   | 1                           |
| 51                         | Pump shaft   | Diameter: D22   | 1                           |
|                            |  | Length (mm): 887  |                             |
| 64c                        | Spacer ring  |   | 1                           |
| 64b                        | Wedge lock washer  |   | 1                           |
| 64b                        | Lock washer  |   | 1                           |
| 64                         | Spacing bush   |   | 1                           |
| 67                         | Hex nut  | Thread: M14   | 1                           |
|                            | Kit, shaft seal HQQE   | 96525458 1  | рс                          |
|                            | Grinding device  |   | 1                           |
| 105                        | Shaft seal   | Material type: HQQE   | 1                           |
|                            | Adjusting fork   |   |                             |
| 109                        | O-ring   |   |                             |
| 110                        | O-ring   | Diameter: 21,5  |                             |
|                            |  | Material type: EPDM   |                             |
|                            |  | Thickness: 4,25   |                             |
|                            | Kit, wear parts  | 95059811 1  | рс                          |
|                            | Adjusting fork   |   | 1                           |
|                            | Adjusting fork   |   | 1                           |
| 7a                         | Cross recess Pan head screw  |   | 18                          |
| 45                         | Neck ring  |   | 6                           |
| 47e                        | Washer   | Internal diameter: D22  | 2                           |
|                            |  | Outer diameter: D32   |                             |
| 47d                        | Locking ring   |   | 10                          |
| 47c                        | Bush   |   | 5                           |
| 47b                        | Bearing ring, rotating   |   | 1                           |
|                            | Wear ring  |   | 6                           |
| 49c                        |  |   | 6                           |
| 49c<br>65a                 | Retainer   |   | U                           |
|                            |  | 99158755 1  | рс                          |
|                            | Retainer   | 99158755 1<br>1   |                             |
|                            | Retainer<br>Bulk, Gasket (10 pcs)  |   | po                          |
| 65a                        | Retainer Bulk, Gasket (10 pcs) Motor   | 1   | рс<br>рс<br>1               |
| 65a<br>156                 | Retainer Bulk, Gasket (10 pcs) Motor Kit, fan Kit, fan cover   | 1<br>98671984   | pc pc 1                     |
| 156<br>151                 | Retainer Bulk, Gasket (10 pcs) Motor Kit, fan Kit, fan cover Kit, flange   | 1<br>98671984<br>98062276<br>98062292                         | pc pc 1 1 1 1               |
| 156<br>151<br>156b         | Retainer  Bulk, Gasket (10 pcs)  Motor  Kit, fan  Kit, fan cover  Kit, flange  Kit, lubrication nipple                   | 1<br>98671984<br>98062276<br>98062292<br>98062533             | pc 1 1 1 1 1 1 1            |
| 156<br>151<br>156b<br>156a | Retainer Bulk, Gasket (10 pcs) Motor Kit, fan Kit, fan cover Kit, flange Kit, lubrication nipple Kit, ND-end shield cpl. | 1<br>98671984<br>98062276<br>98062292<br>98062533<br>98062518 | pc 1 1 1 1 1 1 1 1          |
| 156<br>151<br>156b         | Retainer  Bulk, Gasket (10 pcs)  Motor  Kit, fan  Kit, fan cover  Kit, flange  Kit, lubrication nipple                   | 1<br>98671984<br>98062276<br>98062292<br>98062533             | pc pc 1 1 1 1 1 1 1 1 1 1 1 |



|   | Pos      | Description                              | Annotation | Classification Data    | Part no. | Qty.  | Unit |
|---|----------|--|------------|------------------------|----------|-------|------|
|   | 1a       | Motor stool                              |            |                        | 96587724 |       | pcs  |
|   | 2        | Pump head                                |            |                        | 98593647 | 1     | pcs  |
| + | 3        | Chamber cpl.                             |            |                        | 98371400 | 1     | pcs  |
| + | 4a       | Chamber cpl.                             |            |                        | 98371404 | 1     | pcs  |
| - | 4        | Chamber cpl.                             |            |                        | 98371402 | 2     | pcs  |
|   | 65a      | Retainer                                 |            |                        | 984616   | 640 1 |      |
|   | 6        | Base                                     |            |                        | 99321771 | 1     | pcs  |
|   | 7a       | Bulk, Socket button head screw (10 pcs)  |            |                        | 96549696 | 4     | pcs  |
|   | 7        | Bulk, Coupling guard (10 pcs)            |            |                        | 96603279 | 2     | pcs  |
| + | 18       | Bulk, Air vent screw (5 pcs)             |            |                        | 96547461 | 1     | pcs  |
| + | 18       | Air vent screw                           |            |                        | 95061351 | 1     | pcs  |
|   | 25       | Bulk, Plug (10 pcs)                      |            |                        | 96536013 | 1     | pcs  |
|   | 26c      | Bulk, Washer (4 pcs)                     |            | Designation: DIN 125A  | 99262704 | 4     | pcs  |
|   |          | , (1 )                                   |            | Thickness: 1,6         |          |       | •    |
|   | 26c      | Washer                                   |            | Designation: DIN 125A  | 96586880 | 4     | pcs  |
|   |          |  |            | Thickness: 1,6         |          | -     | F    |
|   | 26b      | Bulk, Hex socket head cap screw (10 pcs) |            |                        | 98931380 | 4     | pcs  |
|   | 26a      | Strap cpl.                               |            | Length (mm): 672       | 98984446 |       | pcs  |
|   | 26       | Staybolt                                 |            | Length (mm): 840       | 98976626 |       | pcs  |
|   | 20       | Cityboli                                 |            | Thread: M16            | 00070020 | -     | poo  |
|   | 28       | Bulk, Hex socket head cap screw (10 pcs) |            | Designation: DIN 912   | 96536147 | 4     | pcs  |
|   |          | Dam, From Scotter From Supplier (10 pos) |            | Length (mm): 50        | 00000111 | •     | Poo  |
|   |          |  |            | Thread: M10            |          |       |      |
|   | 28       | Bulk, Hex head screw (20 pcs)            |            | Length (mm): 60        | 97506949 | 1     | pcs  |
|   | 20       | Buik, Hex Head Sciew (20 pcs)            |            | Thread: M16            | 37300343 | 7     | pcs  |
|   | 32       | Bulk, Washer (100 pcs)                   |            | Designation: DIN 125 A | 08023051 | ρ     | pcs  |
|   | 32       | buik, washer (100 pcs)                   |            | Internal diameter: 17  | 30323031 | 0     | pcs  |
|   |          |  |            | Outer diameter: 30     |          |       |      |
|   |          |  |            | Thickness: 3           |          |       |      |
|   | 26       | Pulk Hay nut (20 pag)                    |            | Thread: M16            | 06620400 | 4     | 200  |
|   | 36<br>38 | Bulk, Hex nut (20 pcs)                   |            |                        | 96620480 |       | pcs  |
|   | 30       | Bulk, O-ring (10 pcs)                    |            | Diameter: 16,3         | 99198815 | 2     | pcs  |
|   |          |  |            | Material type: EPDM    |          |       |      |
|   | 20       | Dulle Oning (50 mas)                     |            | Thickness: 2,4         | 00440707 | 2     |      |
|   | 38       | Bulk, O-ring (50 pcs)                    |            | Diameter: 16,3         | 99412727 | 2     | pcs  |
|   |          |  |            | Material type: EPDM    |          |       |      |
|   |          | Di I                                     |            | Thickness: 2,4         | 00050574 |       |      |
|   | 44a      | Discharge part                           |            |                        | 99052574 |       | pcs  |
| + | 44       | Inlet part                               |            |                        | 99106112 | •     | pcs  |
| + | 49e      | Impeller cpl.                            |            |                        | 98394378 |       | pcs  |
| - | 49d      | Impeller cpl.                            |            |                        | 97508275 |       | pcs  |
|   | 48       | Bulk, Split cone nut (10 pcs)            |            | <b>O</b>               | 965513   |       |      |
|   | 55       | Outer sleeve                             |            | Outer diameter: 225    | 99046896 | 1     | pcs  |
|   |          |  |            | Length (mm): 695,5     |          |       |      |
|   | 56b      | Base plate                               |            |                        | 99048161 |       | pcs  |
|   | 58       | Cover                                    |            |                        | 98893158 |       | pcs  |
|   | 60       | Bulk, Spring (20 pcs)                    |            |                        | 96536032 |       | pcs  |
|   | 65a      | Retainer                                 |            |                        | 98461640 | 1     | pcs  |
| - | 105      | Bulk, Shaft seal (12 pcs)                |            | Material type: HQQE    | 96984086 | 1     | pcs  |
|   |          | Adjusting fork                           |            |                        | 965878   | 396 1 |      |
|   | 109      | Bulk, O-ring (10 pcs)                    |            |                        | 965475   | 586 1 |      |
| + | 105      | Bulk, Shaft seal (12 pcs)                |            | Material type: HQQE    | 96984070 | 1     | pcs  |
|   | 440b     | Bulk, Lock ring (4 pcs)                  |            |                        | 96547435 | 1     | pcs  |