

Date: 14/02/2019

Qty. | Description

1 | CRN 1-6 A-P-A-E-HQQE



Product No.: 96516483

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in high-grade stainless steel. 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 PJE (Victaulic®) couplings.

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

Further product details

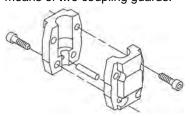
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

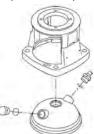
The colour code for the finished product is NCS 9000/RAL 9005.

Pump

A standard split coupling connects the pump and motor shaft. It is enclosed in the pump head/motor stool by means of two coupling guards.



The pump head and flange for motor mounting is made in one piece (cast iron). The pump head cover is a separate component (stainless steel). The pump head has a combined 1/2" priming plug and vent screw.



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)



Date: 14/02/2019

Qty. | Description

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 screwed into the pump head.

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 pump has a stainless-steel base mounted on a separate base plate. The base and base plate are kept in position by the tension of the staybolts which hold the pump together. The outlet side of the base has a combined drain plug and bypass valve. The pump is secured to the foundation by four bolts through the base plate. The base is prepared for connection by means of PJE (Victualic®) couplings.



Motor

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

Motor-mounting designation in accordance with IEC 60034-7: IM B 14 (Code I) / IM 3601 (Code II).

Electrical tolerances comply with IEC 60034.

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

The motor does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (I1/1).

Technical data

Controls:

Frequency converter: NONE

Liquid:

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

Technical:

Pump speed on which pump data are based: 2873 rpm

Rated flow: 1.8 m³/h Rated head: 28.3 m



Date: 14/02/2019

Qty. | Description

Pump orientation:

Shaft seal arrangement:

Code for shaft seal:

Approvals on nameplate:

Curve tolerance:

Vertical

Single

HQQE

CE, EAC,ACS

ISO9906:2012 3B

Materials:

Base: Stainless steel

EN 1.4408

AISI 316

Impeller: Stainless steel

EN 1.4401 AISI 316

AISI 31

Bearing: SIC

Installation:

Maximum ambient temperature: 40 °C Maximum operating pressure: 25 bar

Max pressure at stated temp: 25 bar / 120 °C

25 bar / -20 °C

Type of connection:

Size of inlet connection:

DN 32
1 1/4 inch
Size of outlet connection:

DN 32

1 1/4 inch

Pressure rating for pipe connection: PN 50 Flange size for motor: FT85

Electrical data:

Motor standard: IEC
Motor type: 71A
IE Efficiency class: IE3
Rated power - P2: 0.37 kW
Power (P2) required by pump: 0.37 kW

Mains frequency: 50 Hz

Rated voltage: 3 x 220-240D/380-415Y V

Rated current: 1.74/1.00 A Starting current: 490-530 % Cos phi - power factor: 0.80-0.70 Rated speed: 2850-2880 rpm Efficiency: IE3 73,8% Motor efficiency at full load: 73.8 % Motor efficiency at 3/4 load: 79.0 % Motor efficiency at 1/2 load: 75.5 %

Number of poles: 2

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

Insulation class (IEC 85): F

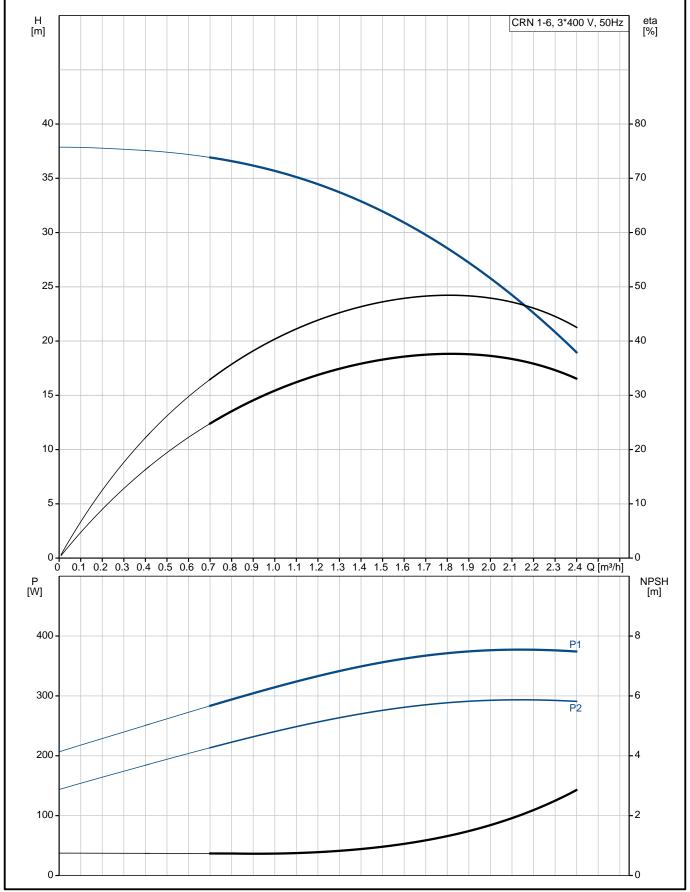
Others:

Minimum efficiency index, MEI ≥: 0.70
Net weight: 17.8 kg
Gross weight: 20.5 kg
Shipping volume: 0.054 m³
Danish VVS No.: 385910006



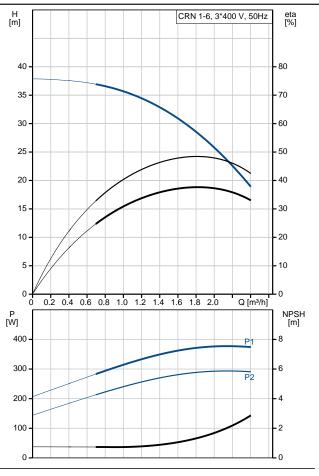
Date: 14/02/2019

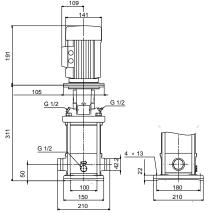
96516483 CRN 1-6 A-P-A-E-HQQE 50 Hz

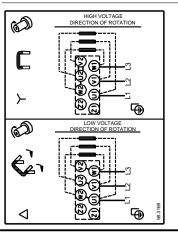




| Description Value General information: CRN 1-6 A-P-A-E-HQQE Product No: 96516483 EAN number: 5700396744124 Technical: 2873 rpm Pump speed on which pump data are based: 2873 rpm Rated flow: 1.8 m³/h Rated head: 28.3 m Head max: 37.6 m Stages: 6 Impellers: 6 Number of reduced-diameter impellers: 0 Low 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: A Model: A Materials: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: A Code for rubber: E Bearing: SIC </th |
|--|
| General information: CRN 1-6 A-P-A-E-HQQE Product No: 96516483 EAN number: 5700396744124 Technical: Pump speed on which pump data are based: Pump speed on which pump data are based: 2873 rpm Rated flow: 1.8 m³/h Rated head: 28.3 m Head max: 37.6 m Stages: 6 Impellers: 6 Number of reduced-diameter impellers: 0 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: A Model: A Materials: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: A Code for rubber: E Bearing: SIC Inst |
| Product No: 96516483 EAN number: 5700396744124 Technical: Pump speed on which pump data are based: 1.8 m³/h Rated flow: 1.8 m³/h Rated head: 28.3 m Head max: 37.6 m Stages: 6 Impellers: 6 Number of reduced-diameter impellers: 0 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: A Model: A Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: A Code for rubber: E Bearing: SIC Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 25 bar / -20 °C Maximum operating pressure: 25 bar / -20 °C |
| Product No: EAN number: Technical: Pump speed on which pump data are based: Rated flow: Rated flow: Rated head: Head max: Stages: Impellers: Number of reduced-diameter impellers: Low NPSH: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals on nameplate: Curve tolerance: Iso9906:2012 3B Pump version: A Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: Code for rubber: Bearing: Installation: Maximum ambient temperature: Max pressure at stated temp: 2873 rpm 5700396744124 2873 rpm 2 |
| EAN number: 5700396744124 Technical: Pump speed on which pump data are based: 1.8 m³/h Rated flow: 1.8 m³/h Rated head: 28.3 m Head max: 37.6 m Stages: 6 Impellers: 6 Number of reduced-diameter impellers: 0 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: A Model: A Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: A Code for rubber: E Bearing: SIC Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 25 bar Max pressure at stated temp: 25 bar / -20 °C |
| Technical: Pump speed on which pump data are based: Rated flow: Rated head: Head max: Stages: Impellers: Number of reduced-diameter impellers: Low NPSH: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals on nameplate: Curve tolerance: Pump version: A Model: A Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: Code for rubber: Bearing: Installation: Maximum ambient temperature: Max pressure at stated temp: 2873 rpm 2874 https://www.liaminghenter. 2873 rpm 2873 rpm 2874 https://www.liaminghenter. 2873 rpm 2873 rpm 2874 https://www.liaminghenter. 2873 rpm 2873 rpm 2874 https://www.liaminghenter. 2873 rpm 2873 rpm 2874 https://www.liaminghenter. 2873 rpm 2873 rpm 2874 https://www.liaminghenter. 2873 rpm 2874 https://www.liaminghenter. 2873 rpm 2874 https://www.liaminghenter. 2873 rpm 2874 https://www.liaminghenter. 2873 rpm 2873 rpm 2873 rpm 2873 rpm 2873 |
| Pump speed on which pump data are based: Rated flow: Rated head: Head max: Stages: Impellers: Number of reduced-diameter impellers: Low NPSH: Pump orientation: Vertical Shaft seal arrangement: Code for shaft seal: Approvals on nameplate: Curve tolerance: Pump version: A Model: A Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: Code for rubber: Bearing: Bearing: Installation: Maximum ambient temperature: Max pressure at stated temp: 2873 rpm 2873 rpm 2873 rpm 2873 rpm 2874 2873 rpm 2874 np 3/h 2874 np 3/h 28.3 m 37.6 |
| based: Rated flow: Rated head: Head max: Stages: Impellers: Number of reduced-diameter impellers: Low NPSH: Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: Approvals on nameplate: Curve tolerance: ISO9906:2012 3B Pump version: A Model: A Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: Code for rubber: Bearing: Base: SIC Installation: Maximum ambient temperature: Max pressure at stated temp: 25 bar / 120 °C Maximum operating pressure: 25 bar / 120 °C Maximum operating pressure: 25 bar / 120 °C 25 bar / 120 °C |
| based: Rated flow: Rated head: Head max: Stages: Impellers: Number of reduced-diameter impellers: Low NPSH: Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: Approvals on nameplate: Curve tolerance: ISO9906:2012 3B Pump version: A Model: A Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: Code for rubber: Bearing: Base: SIC Installation: Maximum ambient temperature: Max pressure at stated temp: 25 bar / 120 °C Maximum operating pressure: 25 bar / 120 °C Maximum operating pressure: 25 bar / 120 °C 25 bar / 120 °C |
| Rated head: Head max: Stages: 6 Impellers: Number of reduced-diameter impellers: 0 Low NPSH: Numper of reduced-diameter impellers: Shaft seal arrangement: Single Code for shaft seal: Approvals on nameplate: Curve tolerance: ISO9906:2012 3B Pump version: A Model: A Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: Code for rubber: Bearing: Bearing: SIC Installation: Maximum ambient temperature: Max pressure at stated temp: 25 bar / 120 °C 25 bar / 120 °C 25 bar / -20 °C |
| Head max: 37.6 m Stages: 6 Impellers: 6 Number of reduced-diameter impellers: 0 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: A Model: A Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: A Code for rubber: E Bearing: SIC Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 25 bar / 120 °C Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C |
| Stages: Impellers: Stages: Impellers: Stages: Impellers: Stages: Code for reduced-diameter impellers: Shaft seal arrangement: Code for shaft seal: Approvals on nameplate: Curve tolerance: ISO9906:2012 3B Pump version: A Model: A Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: A Code for rubber: Bearing: Bearing: Installation: Maximum ambient temperature: Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C |
| Impellers: Number of reduced-diameter impellers: Low NPSH: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals on nameplate: Curve tolerance: Pump version: Model: A Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: Code for rubber: Bearing: Installation: Maximum ambient temperature: Max pressure at stated temp: O Vertical N N N N Pump Vertical Single CE, EAC,ACS A A Materials: EN 1.4408 AISI 316 Material code: A Code for rubber: E Bearing: Bearing: SIC Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 25 bar / 120 °C 25 bar / -20 °C |
| Number of reduced-diameter impellers: Low NPSH: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals on nameplate: Curve tolerance: Pump version: A Model: A Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: Code for rubber: Bearing: Bearing: Bearing: Bearing: Bearing: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Vertical N N Vertical N Single CE, EAC,ACS CE, |
| Low NPSH: Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: Approvals on nameplate: CE, EAC,ACS Curve tolerance: ISO9906:2012 3B Pump version: A Model: A Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: Code for rubber: Bearing: Bearing: SIC Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C |
| Pump orientation: Shaft seal arrangement: Single Code for shaft seal: Approvals on nameplate: CE, EAC,ACS Curve tolerance: ISO9906:2012 3B Pump version: A Model: A Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: Code for rubber: Bearing: Bearing: SIC Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C |
| Shaft seal arrangement: Code for shaft seal: Approvals on nameplate: Curve tolerance: Pump version: Model: A Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: Code for rubber: Bearing: Bearing: Bearing: Bearing: Bearing: Bearing: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C |
| Code for shaft seal: Approvals on nameplate: CE, EAC,ACS Curve tolerance: ISO9906:2012 3B Pump version: A Model: A Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: Code for rubber: Bearing: Bearing: SIC Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: CE, EAC,ACS CE, EAC,ACS CE, EAC,ACS CE, EAC,ACS CE, EAC,ACS CE, EAC,ACS A A CODE, EAC,ACS CE, EAC,ACS A A A CODE STATE HOPE STATE HOPE STATE HOPE STATE A CO |
| Approvals on nameplate: CE, EAC, ACS Curve tolerance: ISO9906:2012 3B Pump version: A Model: A Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: A Code for rubber: E Bearing: SIC Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 25 bar Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C |
| Curve tolerance: ISO9906:2012 3B Pump version: A Model: A Materials: Stainless steel Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: A Code for rubber: E Bearing: SIC Installation: SIC Maximum ambient temperature: 40 °C Maximum operating pressure: 25 bar / 120 °C Max pressure at stated temp: 25 bar / -20 °C |
| Pump version: Model: A Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: A Code for rubber: Bearing: Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C |
| Pump version: Model: A Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: A Code for rubber: Bearing: Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C |
| Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: A Code for rubber: E Bearing: SIC Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 25 bar Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C |
| Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: A Code for rubber: E Bearing: SIC Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 25 bar Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C |
| EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: A Code for rubber: E Bearing: SIC Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 25 bar Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C |
| EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: A Code for rubber: E Bearing: SIC Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 25 bar Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C |
| AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: A Code for rubber: E Bearing: SIC Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 25 bar Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C |
| Impeller: Stainless steel EN 1.4401 AISI 316 Material code: Code for rubber: Bearing: Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C |
| EN 1.4401 AISI 316 Material code: Code for rubber: EBearing: Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C |
| AISI 316 Material code: Code for rubber: EBearing: Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C |
| Material code: Code for rubber: Bearing: Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C |
| Code for rubber: Bearing: Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C |
| Bearing: SIC Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 25 bar Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C |
| Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C |
| Maximum ambient temperature: 40 °C Maximum operating pressure: 25 bar Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C |
| Maximum operating pressure: 25 bar Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C |
| Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C |
| 25 bar / -20 °C |
| |
| Type of confidentials. |
| Size of inlet connection: DN 32 |
| 1 1/4 inch |
| Size of outlet connection: DN 32 |
| |
| 1 1/4 inch |
| Pressure rating for pipe connection: PN 50 |
| Flange size for motor: FT85 |
| Connect code: P |
| Liquid: |
| Pumped liquid: Water |
| |
| Liquid temperature range: -20 120 °C |
| Liquid temperature range: -20 120 °C Liquid temperature during operation: 20 °C |
| Liquid temperature range: -20 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ |
| Liquid temperature range: -20 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: |
| Liquid temperature range: Liquid temperature during operation: Density: 998.2 kg/m³ Electrical data: Motor standard: IEC |
| Liquid temperature range: Liquid temperature during operation: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: 120 °C 998.2 kg/m³ EEC 71A |
| Liquid temperature range: Liquid temperature during operation: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: 71A IE Efficiency class: |
| Liquid temperature range: Liquid temperature during operation: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: T1A IE Efficiency class: Rated power - P2: 0.37 kW |
| Liquid temperature range: Liquid temperature during operation: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: 71A IE Efficiency class: Rated power - P2: Power (P2) required by pump: -20 120 °C 20 °C 998.2 kg/m³ IEC 71A IEC 71A IE3 Rated power - P3: 0.37 kW |
| Liquid temperature range: Liquid temperature during operation: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: T1A IE Efficiency class: Rated power - P2: 0.37 kW |
| Liquid temperature range: Liquid temperature during operation: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: 71A IE Efficiency class: Rated power - P2: Power (P2) required by pump: -20 120 °C 20 °C 998.2 kg/m³ IEC 71A IEC 71A IE3 Rated power - P3: 0.37 kW |







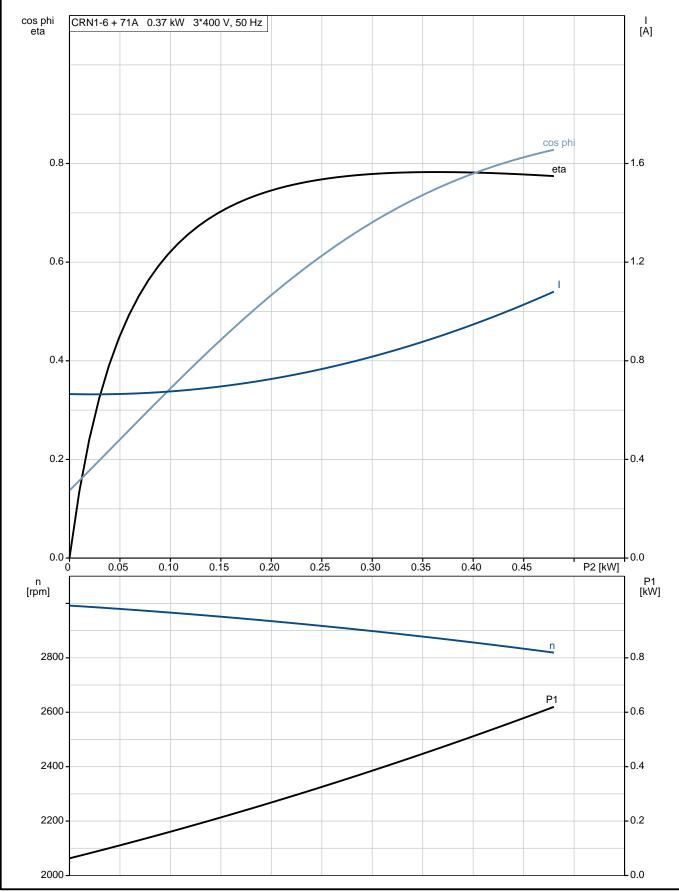


| Description | Value |
|----------------------------------|-----------------|
| Rated current: | 1.74/1.00 A |
| Starting current: | 490-530 % |
| Cos phi - power factor: | 0.80-0.70 |
| Rated speed: | 2850-2880 rpm |
| Efficiency: | IE3 73,8% |
| Motor efficiency at full load: | 73.8 % |
| Motor efficiency at 3/4 load: | 79.0 % |
| Motor efficiency at 1/2 load: | 75.5 % |
| Number of poles: | 2 |
| Enclosure class (IEC 34-5): | 55 Dust/Jetting |
| Insulation class (IEC 85): | F |
| Motor protec: | NONE |
| Motor No: | 85805102 |
| Controls: | |
| Frequency converter: | NONE |
| Others: | |
| Minimum efficiency index, MEI ≥: | 0.70 |
| Net weight: | 17.8 kg |
| Gross weight: | 20.5 kg |
| Shipping volume: | 0.054 m³ |
| Danish VVS No.: | 385910006 |



Date: 14/02/2019

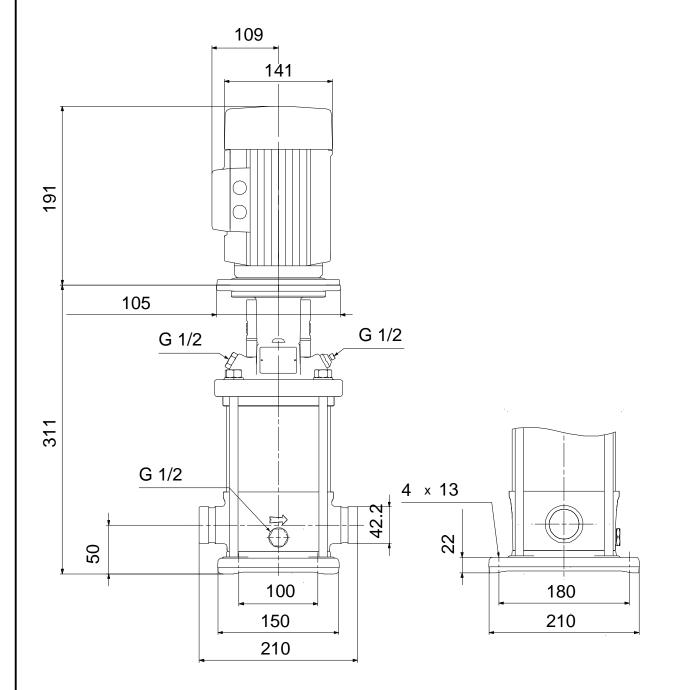
96516483 CRN 1-6 A-P-A-E-HQQE 50 Hz





Date: 14/02/2019

96516483 CRN 1-6 A-P-A-E-HQQE 50 Hz



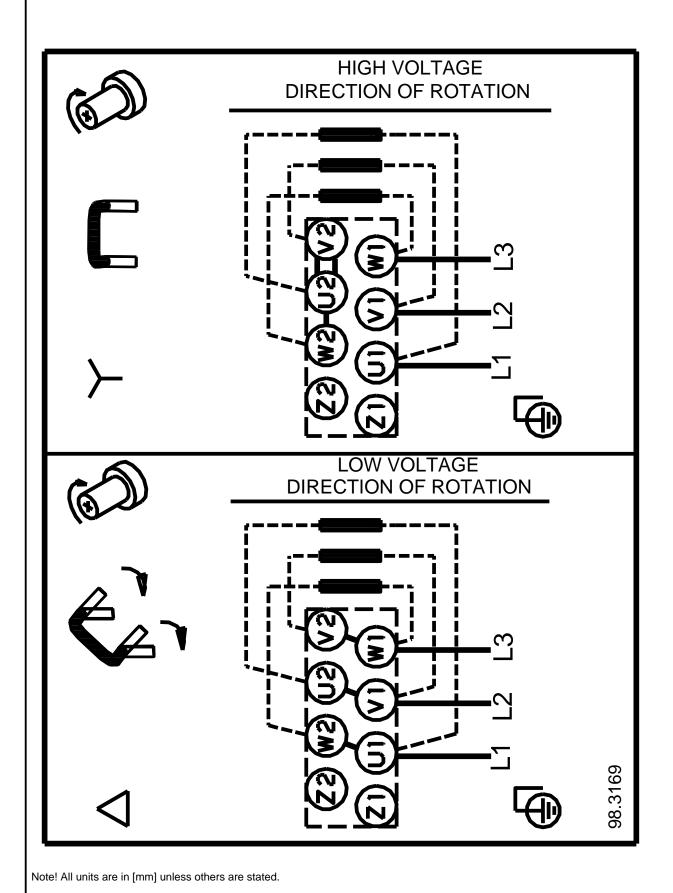
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



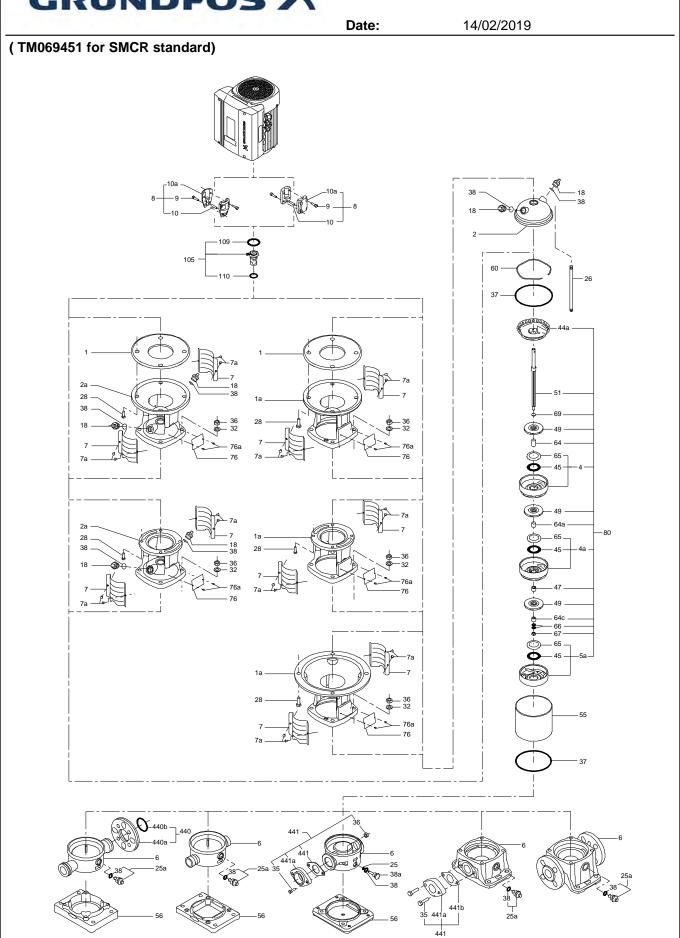
Date:

14/02/2019

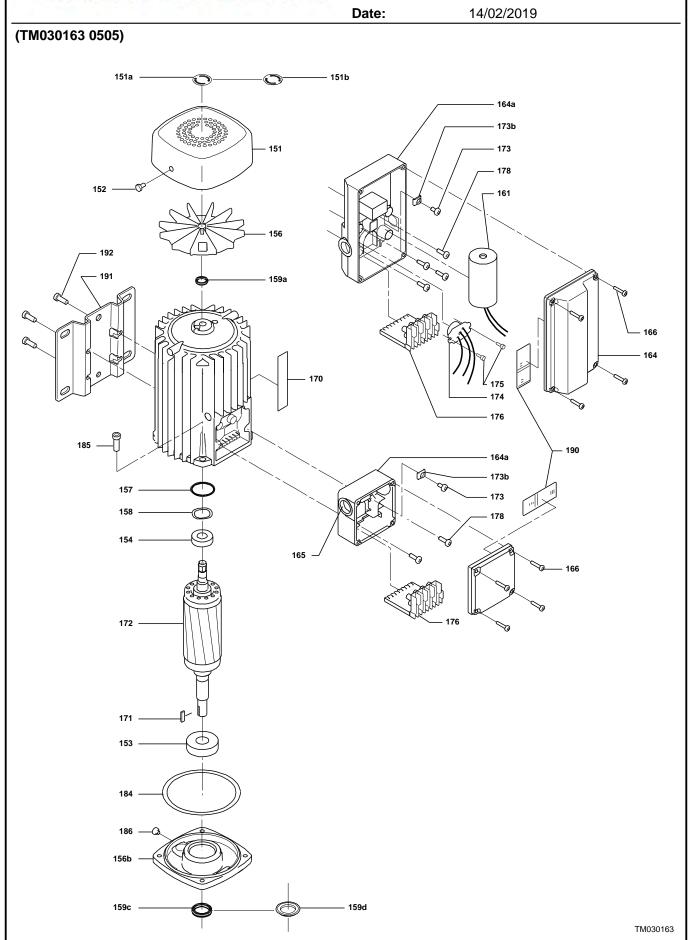
96516483 CRN 1-6 A-P-A-E-HQQE 50 Hz



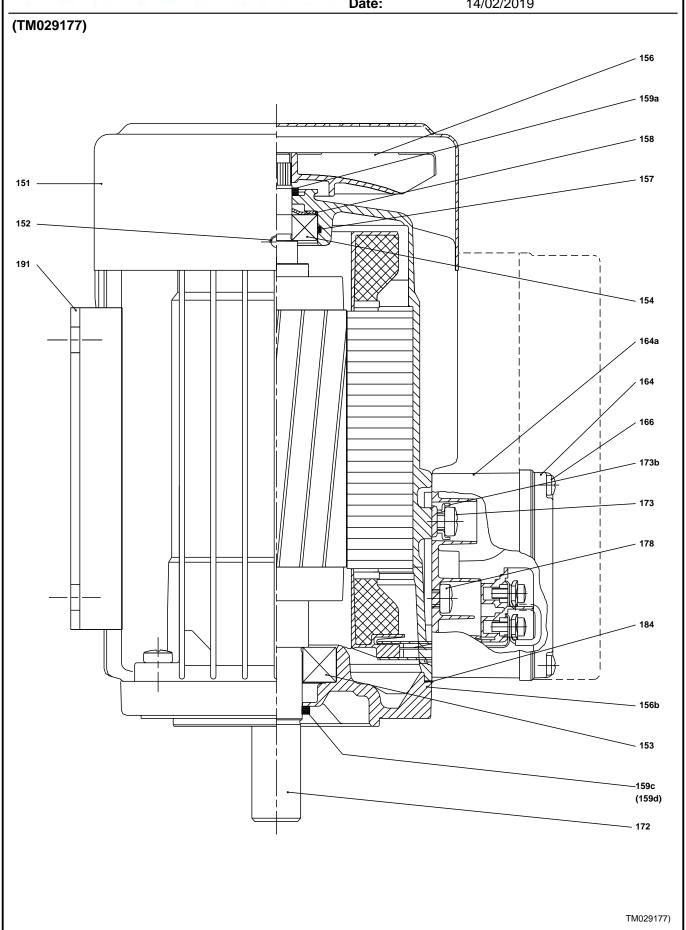














Date: 14/02/2019

Spare parts CRN 1-6, Product No. 96516483 Valid from 1.1.2004 (0401)

| Pos | Description | Annotation | Classification Data | Part no. | | . Uni |
|-----------|---------------------------|------------|-------------------------------|----------|---|-------|
| | Kit, chamber stack | | Bearing type: SILICON CARBIDE | 96453511 | 1 | pcs |
| 4a | Chamber w. bearing cpl. | | | | | 1 |
| 4a | Intermediate chamber | | | | | |
| 45 | Neck ring | | | | | |
| 65 | Neck ring retainer | | | | | |
| 4 | Chamber cpl. | | | | | 4 |
| 4a | Intermediate chamber | | | | | |
| 45 | Neck ring | | | | | |
| 65 | Neck ring retainer | | | | | |
| 5a | Chamber cpl. | | | | | 1 |
| 4a | Intermediate chamber | | | | | |
| 45 | Neck ring | | | | | |
| 65 | Neck ring retainer | | | | | |
| 44a | Guide vane | | | | | 1 |
| | Plate | | | | | • |
| 50 | Top plate | | | | | |
| 47 | Bearing ring, rotating | | | | | 1 |
| 49 | Impeller cpl. | | | | | 6 |
| | | | | | | |
| 51 64d | Shaft, spline, cpl. | | Internal diameter: 40.05 | | | 1 |
| 640 | Spacing pipe | | Internal diameter: 12,85 | | | 1 |
| | | | Outer diameter: 15,85 | | | |
| | | | Length (mm): 4,50 | | | |
| 64c | Clamp, splined | | Internal diameter: 8,5 | | | 1 |
| | | | Outer diameter: 15 | | | |
| 64a | Spacing pipe | | | | | 4 |
| 66 | Wedge lock washer | | | | | 1 |
| 67 | Lock nut | | Thread: M8 | | | 1 |
| | Kit, coupling | | | 00415060 | 1 | pcs |
| 9 | Hex socket head cap screw | | Designation: DIN 912 | | | 4 |
| | | | Length (mm): 20 | | | |
| | | | Thread: M6 | | | |
| 10a | Coupling half | | | | | 2 |
| 10 | Shaft pin | | Diameter: 5 | | | 1 |
| | | | Length (mm): 26 | | | |
| | Kit, coupling guard | | | 96505130 | 1 | pcs |
| 7.a | Combi Slot Torx screw | | | | | 4 |
| 7 | Coupling guard | | | | | 2 |
| | Kit, gaskets | | | 96455090 | 1 | pcs |
| 37 | O-ring | | | | | 2 |
| 38 | O-ring | | Diameter: 16,3 | | | 1 |
| | | | Material type: EPDM | | | • |
| | | | Thickness: 2,4 | | | |
| 38 | O-ring | | Diameter: 16,3 | | | 2 |
| 50 | O Inity | | Material type: EPDM | | | _ |
| | | | Thickness: 2,4 | | | |
| 100 | Oring | | Diameter: 22,00 | | | 1 |
| 109 | O-ring | | | | | 1 |
| | | | Material type: EPDM | | | |
| | IZ9 mlore | | Thickness: 2,75 | 00505400 | | |
| | Kit, plug | | | 96505133 | | pcs |
| 18 | Air vent screw | | | | | 1 |
| | Spindle | | | | | |
| | Plug | | | | | |
| 23b | Spindle | | | | | 1 |



| | os | Description | Annotation Classification Data Part no. Qty | /. | Uni |
|-----|-----|-------------------------------|---|----|-----|
| | 25 | Plug | | 1 | |
| 2 | :5 | Plug | | 1 | |
| 3 | 8 | O-ring | Diameter: 16,3 | 1 | |
| | | | Material type: FKM | | |
| | | | Thickness: 2,4 | | |
| 3 | 8 | O-ring | Diameter: 16,3 | 2 | |
| Ŭ | | - ·····9 | Material type: FKM | _ | |
| | | | Thickness: 2,4 | | |
| 2 | 0 | O ring | Diameter: 16,3 | 1 | |
| 3 | 8 | O-ring | | 1 | |
| | | | Material type: EPDM | | |
| | | | Thickness: 2,4 | | |
| 3 | 8 | O-ring | Diameter: 16,3 | 2 | |
| | | | Material type: EPDM | | |
| | | | Thickness: 2,4 | | |
| | | Kit, shaft seal HQQE | 96455086 1 | | pcs |
| - 1 | 05 | Shaft seal | Material type: HQQE | 1 | |
| | | Kit, wear parts | Material type: SILICON CARBIDE 96455095 1 | | pcs |
| 1 | a | Chamber w. bearing cpl. | Material type: Olelooft Of the IDE 00400000 1 | 1 | PO. |
| | | Intermediate chamber | | | |
| | a | | | | |
| | 5 | Neck ring | | | |
| | 5 | Neck ring retainer | | | |
| 4 | 5 | Neck ring | | 8 | |
| 4 | 7 | Bearing ring, rotating | | 1 | |
| 6 | 4d | Spacing pipe | Internal diameter: 12,85 | 1 | |
| | | | Outer diameter: 15,85 | | |
| | | | Length (mm): 4,50 | | |
| 6 | 4c | Clamp, splined | Internal diameter: 8,5 | 1 | |
| | | Clamp, opiniou | Outer diameter: 15 | • | |
| 6 | 55 | Neck ring retainer | Outer diameter. 13 | 8 | |
| | | | | | |
| | 6 | Wedge lock washer | | 1 | |
| | 57 | Lock nut | Thread: M8 | 1 | |
| 4 | 41b | Gasket | | 2 | |
| | | Motor | 85900331 1 | | pc |
| | | Kit, Ball bearing | 96279730 | 1 | |
| 1 | 11 | Ball bearing | Designation: 6204.2Z.C3.SYN | | |
| 1 | 11 | Ball bearing | | | |
| 1 | 57 | O-ring | Diameter: 32 | | |
| | | | Material type: NBR | | |
| | | | Thickness: 2 | | |
| 1 | 58 | Waved washer | THIORICSS. Z | | |
| | 00 | | 00070704 | _ | |
| • | | Kit, fan | 96279721 | | |
| | | Kit, fan cover | 96279720 | | |
| | | Kit, flange | 96279727 | 1 | |
| 1 | 56b | Flange | | | |
| 1 | 59c | Seal ring | | | |
| 1 | 84 | Gasket | Internal diameter: 114,80 | | |
| | | | Outer diameter: 121,20 | | |
| | | | Thickness: 0,25 | | |
| 1 | 85 | Pan head screw | | | |
| | 86 | | | | |
| | 00 | Drain plug | 00707070 | , | |
| • | | Kit, shaft seal | 96279722 | | |
| | | Kit, terminal box | 96279724 | 1 | |
| 1 | 52 | Pan head thread forming screw | | | |
| 1 | 64a | Terminal box w/gasket | | | |
| 1 | 64 | Terminal box cover w/gasket | | | |
| | 73a | Washer | Designation: SQUARE | | |
| | | | Internal diameter: 5,5 | | |
| | | | internal diameter. 0,0 | | |
| | | | Outer diameter: 10X10 | | |



| ı | Pos | Description | Annotation | Classification Data | | Part no. | Qty | . Un |
|---|---|--|------------|---------------------------------------|-------------|--|--|---|
| | 173a | Base | | Thickness: 1,5 | | | | |
| | 173a 173 | Pan head thread forming screw | | Designation: 0 | | T25 | | |
| | 173 | Pan head screw | | Designation: I | | 123 | | |
| | 175 | Pan head screw | | Designation: I | | | | |
| | 176 | Terminal cpl. | | Designation. I | DII 1 7 303 | | | |
| | 1a | Pump head | | | | 96588196 | 1 | pcs |
| | 2 | Pump cover | | | | 96588244 | | pcs |
| | 4a | Bulk, Chamber w. bearing cpl. (5 pcs) | | | | 97690603 | | pcs |
| | 4a | Bulk, Chamber w. bearing cpl. (5 pcs) | | | | | 1 | pcs |
| | та 4а | Chamber w. bearing cpl. (5 pcs) | | | | 98371226 | | pcs |
| | 4 | Bulk, Chamber cpl. (5 pcs) | | | | 97690021 | | pcs |
| | 45 | Bulk, Neck ring (24 pcs) | | | | 965361 | | 1 |
| | 65 | Bulk, Neck ring retainer (8 pcs) | | | | 994907 | | 1 |
| | 65 | Bulk, Neck ring retainer (24 pcs) | | | | 994907 | | |
| | 4 | Bulk, Chamber cpl. (10 pcs) | | | | 96547663 | | pcs |
| | - 4 | Chamber cpl. (10 pcs) | | | | 98371224 | | pcs |
| | т 5а | Chamber cpl. | | | | 98371222 | | pcs |
| | 5a 6 | Base | | | | 96588139 | | pcs |
| | 7.a | Bulk, Combi Slot Torx screw (1000 pcs) | | | | 96886324 | | pc |
| | 7.a 10 | Bulk, Shaft pin (10 pcs) | | Diameter: 5 | | 96536473 | | pcs |
| | .0 | Dain, Onait piii (10 pos) | | Length (mm): 26 | | JUJJU413 | 1 | pu |
| + ′ | 18 | Bulk, Air vent screw (5 pcs) | | 2011901 (111111). 20 | | 96547461 | 1 | pc |
| | 18 | Air vent screw | | | | 95061351 | | pc |
| | 25 | Bulk, Plug (10 pcs) | | | | 96536013 | | pc |
| | 25a | Drain plug w/bypass valve | | | | 96588243 | | pc |
| | 38 | Bulk, O-ring (10 pcs) | | Diameter: 16,3 | | 991988 | | • |
| • | 50 | Buik, & Ting (10 pcs) | | Material type: EPDM | | 331300 | ,10 | ' |
| | | | | Thickness: 2,4 | | | | |
| | 38 | Bulk, O-ring (50 pcs) | | Diameter: 16,3 | | 994127 | 727 | 1 |
| | 00 | Baix, 6 mig (66 p66) | | Material type: EPDM | | 00+121 | | • |
| | | | | Thickness: 2,4 | | | | |
| ; | 26 | Staybolt | | Length (mm): 209 | | 98967030 | 4 | pcs |
| | | | | Thread: M12 | | | • | Pot |
| | 37 | Bulk, O-ring (24 pcs) | | modd. miz | | 96547656 | 2 | pcs |
| | 38 | Bulk, O-ring (10 pcs) | | Diameter: 16,3 | | 99198815 | | pcs |
| | | | | Material type: EPDM | | 00.000.0 | _ | Pot |
| | | | | Thickness: 2,4 | | | | |
| 3 | 38 | Bulk, O-ring (50 pcs) | | Diameter: 16,3 | | 00442727 | 2 | pcs |
| | | - ···· · · · · · · · · · · · · · · · · | | Diameter, 10.5 | | 99412727 | | |
| | | | | · | | 99412727 | | |
| | | | | Material type: EPDM | | 99412727 | | |
| + 4 | 44a | Guide vane | | · | | 98488445 | 1 | pcs |
| | 44a 47 | | | Material type: EPDM | | | | |
| 4 | | Bulk, Bearing ring, rotating (10 pcs) | | Material type: EPDM | | 98488445 | 1 | pcs |
| 2 | 47 47 | Bulk, Bearing ring, rotating (10 pcs) Bearing ring, rotating | | Material type: EPDM | | 98488445 97905743 | 1 | pcs |
| 2 | 47 47 49 | Bulk, Bearing ring, rotating (10 pcs) Bearing ring, rotating Bulk, Impeller cpl. (5 pcs) | | Material type: EPDM | | 98488445 97905743 96547649 | 1 1 6 | pc: pc: |
| 2 | 47 47 | Bulk, Bearing ring, rotating (10 pcs) Bearing ring, rotating Bulk, Impeller cpl. (5 pcs) Bulk, Impeller cpl. (10 pcs) | | Material type: EPDM | | 98488445 97905743 96547649 98287177 | 1 1 6 6 | pcs pcs pcs |
| 2 | 47 47 49 49 49 | Bulk, Bearing ring, rotating (10 pcs) Bearing ring, rotating Bulk, Impeller cpl. (5 pcs) Bulk, Impeller cpl. (10 pcs) Bulk, Impeller cpl. (24 pcs) | | Material type: EPDM | | 98488445 97905743 96547649 98287177 98394264 96547666 | 1 1 6 6 | pcs pcs pcs pcs |
| 2 | 47 47 49 49 49 | Bulk, Bearing ring, rotating (10 pcs) Bearing ring, rotating Bulk, Impeller cpl. (5 pcs) Bulk, Impeller cpl. (10 pcs) Bulk, Impeller cpl. (24 pcs) Impeller cpl. | | Material type: EPDM | | 98488445 97905743 96547649 98287177 98394264 96547666 98394399 | 1 1 6 6 6 6 | pc: pc: pc: pc: pc: |
| 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 | 47 47 49 49 49 49 | Bulk, Bearing ring, rotating (10 pcs) Bearing ring, rotating Bulk, Impeller cpl. (5 pcs) Bulk, Impeller cpl. (10 pcs) Bulk, Impeller cpl. (24 pcs) Impeller cpl. Shaft, spline, cpl. | | Material type: EPDM | | 98488445 97905743 96547649 98287177 98394264 96547666 98394399 98368512 | 1 1 6 6 6 6 1 | pc: pc: pc: pc: pc: |
| 2 | 47 47 49 49 49 49 51 | Bulk, Bearing ring, rotating (10 pcs) Bearing ring, rotating Bulk, Impeller cpl. (5 pcs) Bulk, Impeller cpl. (10 pcs) Bulk, Impeller cpl. (24 pcs) Impeller cpl. Shaft, spline, cpl. Outer sleeve | | Material type: EPDM | | 98488445 97905743 96547649 98287177 98394264 96547666 98394399 98368512 98811269 | 1 1 6 6 6 6 1 | pc: pc: pc: pc: pc: pc: |
| 2 | 47 47 49 49 49 49 51 55 | Bulk, Bearing ring, rotating (10 pcs) Bearing ring, rotating Bulk, Impeller cpl. (5 pcs) Bulk, Impeller cpl. (10 pcs) Bulk, Impeller cpl. (24 pcs) Impeller cpl. Shaft, spline, cpl. Outer sleeve Base plate | | Material type: EPDM | | 98488445 97905743 96547649 98287177 98394264 96547666 98394399 98368512 98811269 96588142 | 1 1 6 6 6 6 1 1 | pc: pc: pc: pc: pc: pc: pc: |
| | 47 47 49 49 49 51 55 56 | Bulk, Bearing ring, rotating (10 pcs) Bearing ring, rotating Bulk, Impeller cpl. (5 pcs) Bulk, Impeller cpl. (10 pcs) Bulk, Impeller cpl. (24 pcs) Impeller cpl. Shaft, spline, cpl. Outer sleeve Base plate Formed wire spring | | Material type: EPDM Thickness: 2,4 | | 98488445 97905743 96547649 98287177 98394264 96547666 98394399 98368512 98811269 96588142 96547664 | 1 1 6 6 6 1 1 1 | pc: pc: pc: pc: pc: pc: pc: pc: |
| | 47 47 49 49 49 49 51 55 | Bulk, Bearing ring, rotating (10 pcs) Bearing ring, rotating Bulk, Impeller cpl. (5 pcs) Bulk, Impeller cpl. (10 pcs) Bulk, Impeller cpl. (24 pcs) Impeller cpl. Shaft, spline, cpl. Outer sleeve Base plate | | Material type: EPDM Thickness: 2,4 | | 98488445 97905743 96547649 98287177 98394264 96547666 98394399 98368512 98811269 96588142 | 1 1 6 6 6 1 1 1 | per |
| 2 | 47 49 49 49 49 51 55 56 60 64c | Bulk, Bearing ring, rotating (10 pcs) Bearing ring, rotating Bulk, Impeller cpl. (5 pcs) Bulk, Impeller cpl. (10 pcs) Bulk, Impeller cpl. (24 pcs) Impeller cpl. Shaft, spline, cpl. Outer sleeve Base plate Formed wire spring Bulk, Clamp, splined (5 pcs) | | Material type: EPDM Thickness: 2,4 | | 98488445 97905743 96547649 98287177 98394264 96547666 98394399 98368512 98811269 96588142 96547664 98496968 | 1 1 6 6 6 6 1 1 1 | pc: pc: pc: pc: pc: pc: pc: pc: |
| 2 | 47 47 49 49 49 51 55 56 60 64c | Bulk, Bearing ring, rotating (10 pcs) Bearing ring, rotating Bulk, Impeller cpl. (5 pcs) Bulk, Impeller cpl. (10 pcs) Bulk, Impeller cpl. (24 pcs) Impeller cpl. Shaft, spline, cpl. Outer sleeve Base plate Formed wire spring Bulk, Clamp, splined (5 pcs) Bulk, Spacing pipe (24 pcs) | | Material type: EPDM Thickness: 2,4 | | 98488445 97905743 96547649 98287177 98394264 96547666 98394399 98368512 98811269 96588142 96547664 98496968 | 1 1 6 6 6 6 1 1 1 1 | pes pes pes pes pes pes pes pes pes |
| 2 | 47 49 49 49 49 51 55 56 60 64c | Bulk, Bearing ring, rotating (10 pcs) Bearing ring, rotating Bulk, Impeller cpl. (5 pcs) Bulk, Impeller cpl. (10 pcs) Bulk, Impeller cpl. (24 pcs) Impeller cpl. Shaft, spline, cpl. Outer sleeve Base plate Formed wire spring Bulk, Clamp, splined (5 pcs) | | Material type: EPDM Thickness: 2,4 | | 98488445 97905743 96547649 98287177 98394264 96547666 98394399 98368512 98811269 96588142 96547664 98496968 | 1 1 6 6 6 6 1 1 1 1 1 1 | pcs |