

|                       |                        |                 |
|-----------------------|------------------------|-----------------|
| PROJECT: _____        | UNIT TAG: _____        | QUANTITY: _____ |
| REPRESENTATIVE: _____ | TYPE OF SERVICE: _____ | DATE: _____     |
| ENGINEER: _____       | SUBMITTED BY: _____    | DATE: _____     |
| CONTRACTOR: _____     | APPROVED BY: _____     | DATE: _____     |
|                       | ORDER NO.: _____       | DATE: _____     |

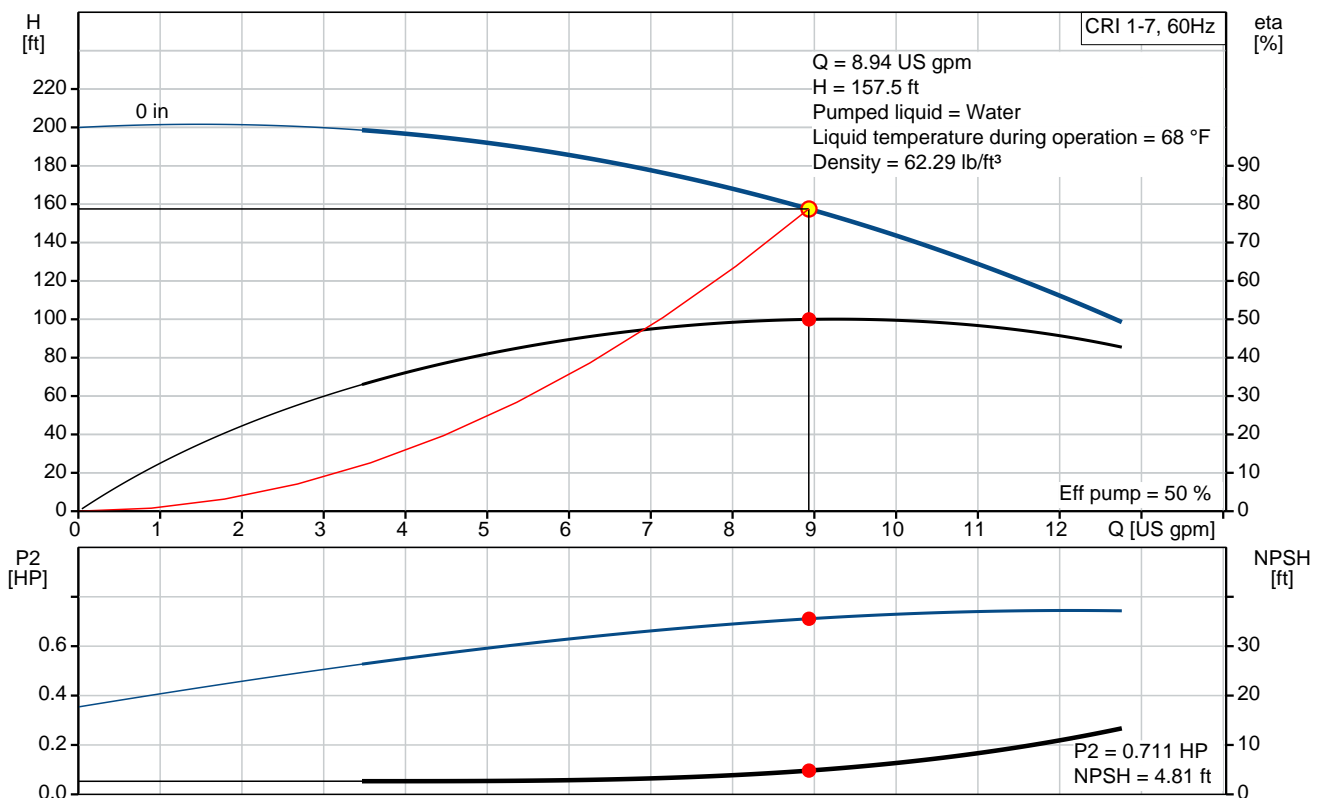


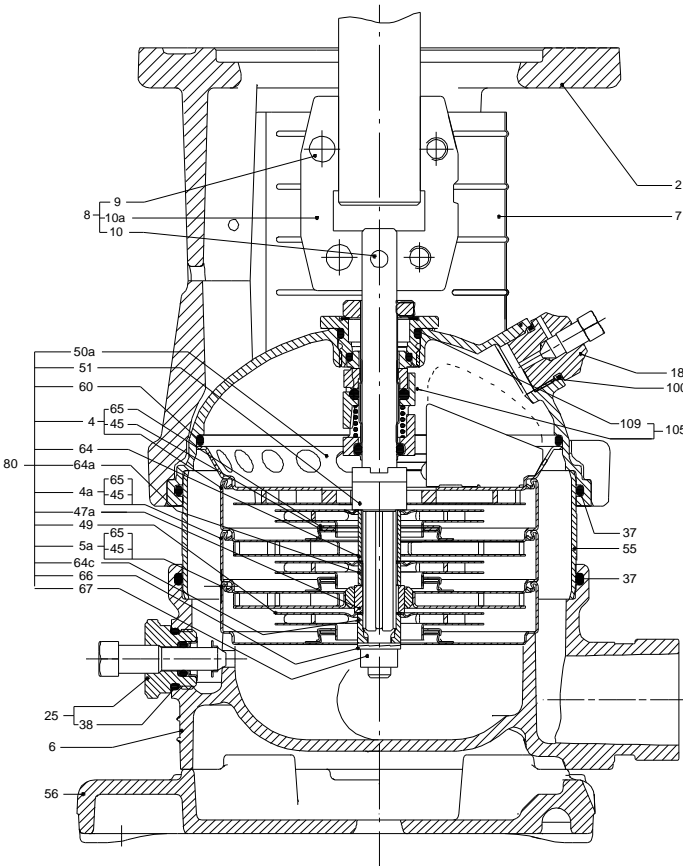
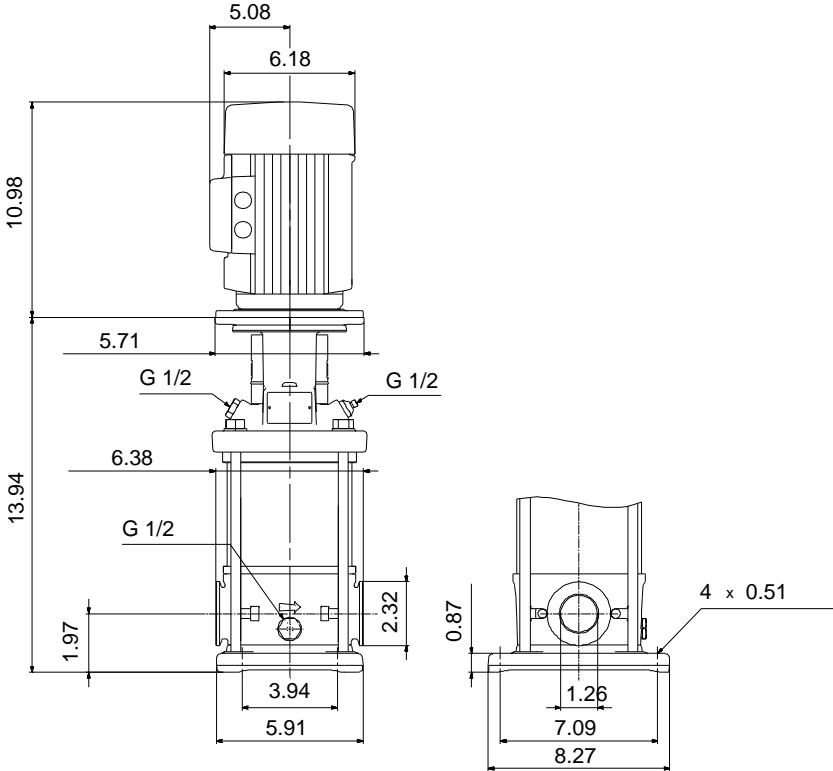
### CRI 1-7

Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron. All wetted parts are in stainless steel (EN 1.4301) (AISI 304)

Product photo could vary from the actual product

| Conditions of Service |             | Pump Data                           |                  | Motor Data        |                   |
|-----------------------|-------------|-------------------------------------|------------------|-------------------|-------------------|
| Flow:                 | 8.94 US gpm | Max pressure at stated temperature: | 363 psi / 194 °F | Rated power - P2: | 0.75 HP           |
| Head:                 | 157.5 ft    | Maximum ambient temperature:        | 104 °F           | Rated voltage:    | 115/208-230 V     |
| Efficiency:           | _____       | Approvals:                          | CURUS            | Main frequency:   | 60 Hz             |
| Liquid:               | Water       | Shaft seal:                         | HQQV             | Enclosure class:  | 54 Dust/Splashing |
| Temperature:          | 68 °F       | Product number:                     | 96082405         | Insulation class: | B                 |
| NPSH required:        | 4.81 ft     |                                     |                  | Motor protection: | NONE              |
| Viscosity:            | _____       |                                     |                  | Motor type:       | BALDOR            |
| Specific Gravity:     | 1.000       |                                     |                  |                   |                   |





**Materials:**

Base: Stainless steel  
EN 1.4408  
AISI 316

Impeller: Stainless steel  
AISI 304  
EN 1.4301

Material code: I  
Code for rubber: V

## Tender Text



Product No.: [96082405](#)

### CRI 1-7 A-CA-I-V-HQQV

Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation.

The pump has the following characteristics:

- Impellers, intermediate chambers and outer sleeve are made of
  - Pump head cover and base are made of
  - The shaft seal has assembly length according to EN 12756.
  - Power transmission is via cast iron split coupling.
- flanges/couplings.

The motor is a 1-phase AC motor.

#### Controls:

Frequency converter: NONE

#### Liquid:

Pumped liquid: Water  
Liquid temperature during operation: 68 °F  
Density: 62.29 lb/ft<sup>3</sup>

#### Technical:

Speed for pump data: 3464 rpm  
Actual calculated flow: 8.94 US gpm  
Resulting head of the pump: 157.5 ft  
Pump orientation: Vertical  
Shaft seal arrangement: Single  
Code for shaft seal: HQQV  
Approvals on nameplate: CURUS  
Curve tolerance: ISO9906:2012 3B

#### Materials:

Base: Stainless steel  
EN 1.4408  
AISI 316  
Impeller: Stainless steel  
EN 1.4301  
AISI 304  
Bearing material: SIC

#### Installation:

Maximum ambient temperature: 104 °F  
Max pressure at stated temperature: 363 psi / 194 °F



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2/20/2018


Type of connection: 363 psi / -4 °F  
FlexiClamp  
Size of inlet connection: DN 32  
Size of suction port: 1 1/4 inch  
Size of outlet connection: DN 32  
Size of outlet port: 1 1/4 inch  
Pressure rating: PN 25  
Flange size for motor: 56C

**Electrical data:**

Motor standard: NEMA  
Motor type: BALDOR  
IE Efficiency class: NA  
Rated power - P2: 0.75 HP  
Power (P2) required by pump: 0.75 HP  
Main frequency: 60 Hz  
Rated voltage: 1 x 115/208-230 V  
Service factor: 1.25  
Rated current: 9,60/5,00-4,80 A  
Rated speed: 3450 rpm  
Number of poles: 2  
Enclosure class (IEC 34-5): 54 Dust/Splashing  
Insulation class (IEC 85): B

**Others:**

Net weight: 54.9 lb  
Gross weight: 65.9 lb  
Shipping volume: 6.11 ft<sup>3</sup>

| Position | Count | Description   |
|----------|-------|---|
|          | 1     | <p><b>CRI 1-7 A-CA-I-V-HQQV</b></p>  <p>Product No.: <a href="#">96082405</a><br/>           Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation.</p> <p>The pump has the following characteristics:</p> <ul style="list-style-type: none"> <li>- Impellers, intermediate chambers and outer sleeve are made of</li> <li>- Pump head cover and base are made of</li> <li>- The shaft seal has assembly length according to EN 12756.</li> <li>- Power transmission is via cast iron split coupling flanges/couplings.</li> </ul> <p>The motor is a 1-phase AC motor.</p> <p><b>Controls:</b><br/>           Frequency converter: NONE</p> <p><b>Liquid:</b><br/>           Pumped liquid: Water<br/>           Liquid temperature during operation: 68 °F<br/>           Density: 62.29 lb/ft<sup>3</sup></p> <p><b>Technical:</b><br/>           Speed for pump data: 3464 rpm<br/>           Actual calculated flow: 8.94 US gpm<br/>           Resulting head of the pump: 157.5 ft<br/>           Pump orientation: Vertical<br/>           Shaft seal arrangement: Single<br/>           Code for shaft seal: HQQV<br/>           Approvals on nameplate: CURUS<br/>           Curve tolerance: ISO9906:2012 3B</p> <p><b>Materials:</b><br/>           Base: Stainless steel<br/>                     EN 1.4408<br/>                     AISI 316<br/>           Impeller: Stainless steel<br/>                     EN 1.4301<br/>                     AISI 304<br/>           Bearing material: SIC</p> <p><b>Installation:</b><br/>           Maximum ambient temperature: 104 °F<br/>           Max pressure at stated temperature: 363 psi / 194 °F<br/>             363 psi / -4 °F</p> |



Company name:

Created by:

Phone:

Date:

2/20/2018

| Position | Count | Description  |
|----------|-------|--|
|          |       | Type of connection: FlexiClamp<br>Size of inlet connection: DN 32<br>Size of suction port: 1 1/4 inch<br>Size of outlet connection: DN 32<br>Size of outlet port: 1 1/4 inch<br>Pressure rating: PN 25<br>Flange size for motor: 56C<br><br><b>Electrical data:</b><br>Motor standard: NEMA<br>Motor type: BALDOR<br>IE Efficiency class: NA<br>Rated power - P2: 0.75 HP<br>Power (P2) required by pump: 0.75 HP<br>Main frequency: 60 Hz<br>Rated voltage: 1 x 115/208-230 V<br>Service factor: 1.25<br>Rated current: 9,60/5,00-4,80 A<br>Rated speed: 3450 rpm<br>Number of poles: 2<br>Enclosure class (IEC 34-5): 54 Dust/Splashing<br>Insulation class (IEC 85): B<br><br><b>Others:</b><br>Net weight: 54.9 lb<br>Gross weight: 65.9 lb<br>Shipping volume: 6.11 ft <sup>3</sup> |



Company name:

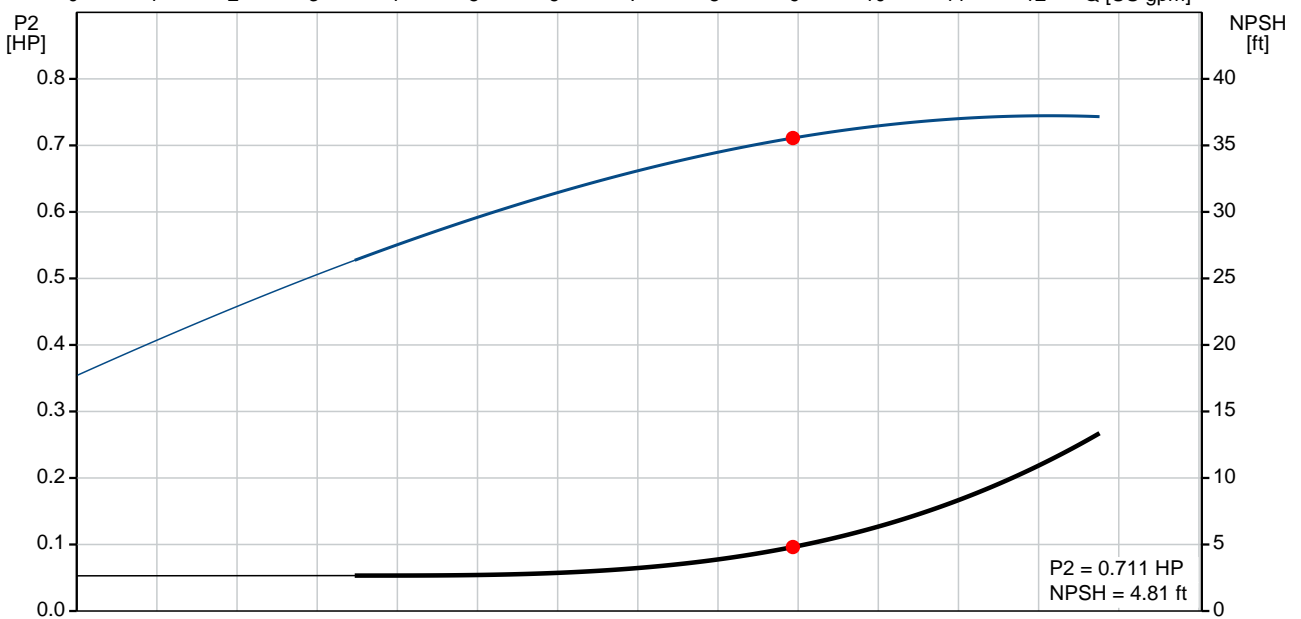
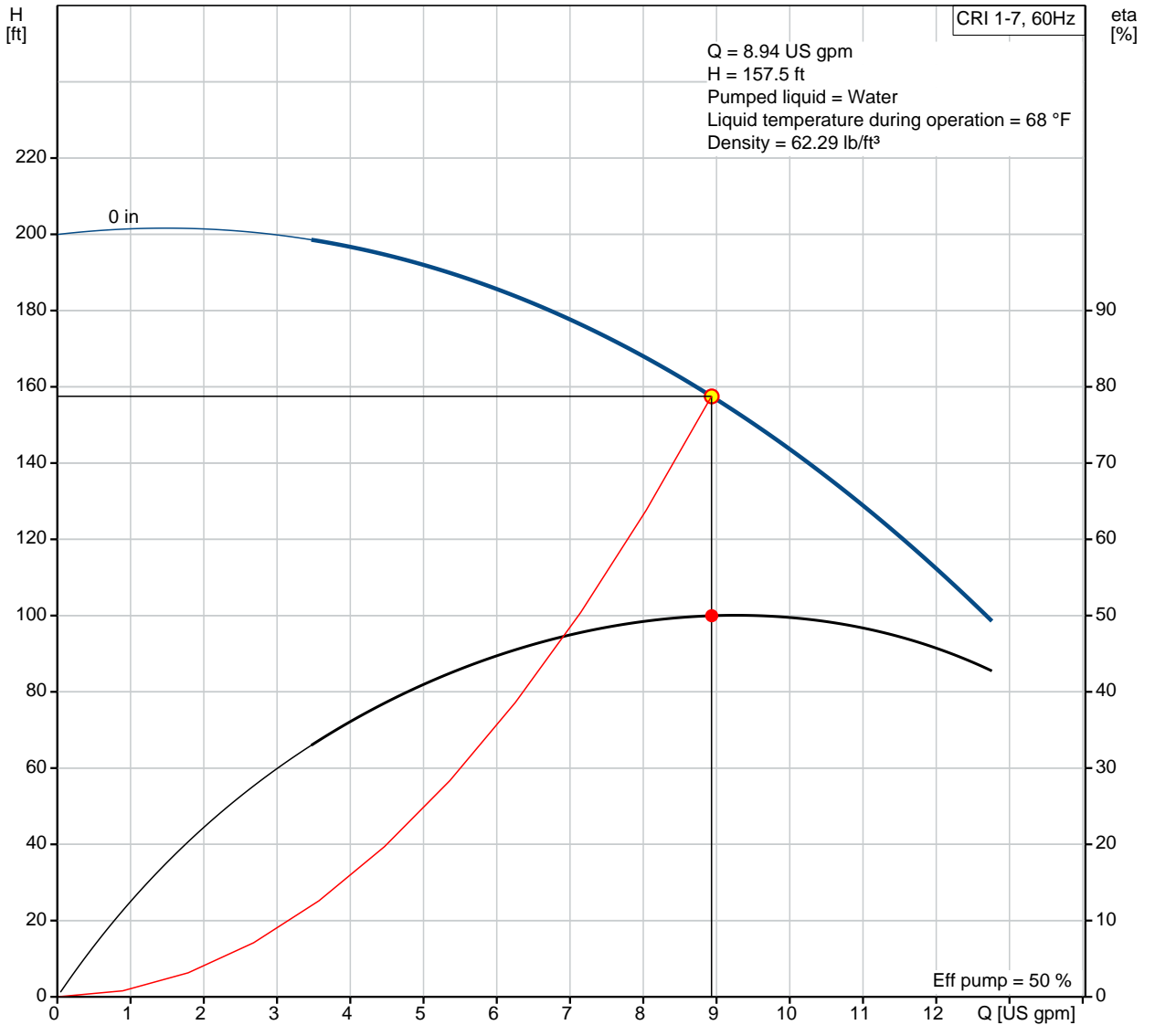
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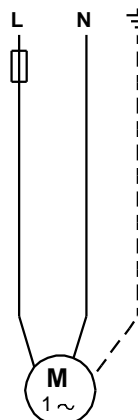
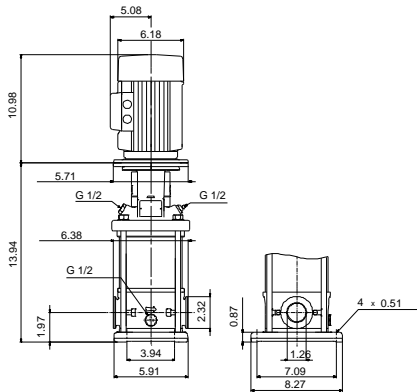
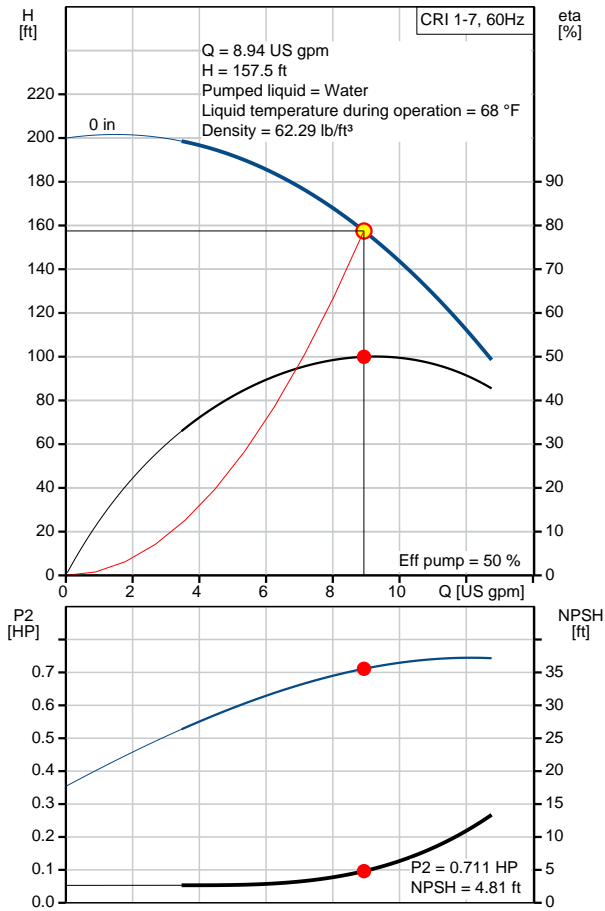
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### 96082405 CRI 1-7 60 Hz



| Description                          | Value                                    |
|--------------------------------------|--|
| <b>General information:</b>          |  |
| Product name:                        | CRI 1-7 A-CA-I-V-HQQV                    |
| Product No.:                         | 96082405                                 |
| EAN:                                 | 5700395171433                            |
| <b>Technical:</b>                    |  |
| Speed for pump data:                 | 3464 rpm                                 |
| Actual calculated flow:              | 8.94 US gpm                              |
| Resulting head of the pump:          | 157.5 ft                                 |
| Stages:                              | 7  |
| Impellers:                           | 7  |
| Low NPSH:                            | N  |
| Pump orientation:                    | Vertical                                 |
| Shaft seal arrangement:              | Single                                   |
| Code for shaft seal:                 | HQQV                                     |
| Approvals on nameplate:              | CURUS                                    |
| Curve tolerance:                     | ISO9906:2012 3B                          |
| Pump version:                        | A  |
| Model:                               | A  |
| Cooling:                             | TEFC                                     |
| <b>Materials:</b>                    |  |
| Base:                                | Stainless steel<br>EN 1.4408<br>AISI 316 |
| Impeller:                            | Stainless steel<br>EN 1.4301<br>AISI 304 |
| Material code:                       | I  |
| Code for rubber:                     | V  |
| Bearing material:                    | SIC                                      |
| <b>Installation:</b>                 |  |
| Maximum ambient temperature:         | 104 °F                                   |
| Max pressure at stated temperature:  | 363 psi / 194 °F                         |
|                                      | 363 psi / -4 °F                          |
| Type of connection:                  | FlexiClamp                               |
| Connect code:                        | CA                                       |
| Size of inlet connection:            | DN 32                                    |
| Size of suction port:                | 1 1/4 inch                               |
| Size of outlet connection:           | DN 32                                    |
| Size of outlet port:                 | 1 1/4 inch                               |
| Pressure rating:                     | PN 25                                    |
| Flange size for motor:               | 56C                                      |
| <b>Liquid:</b>                       |  |
| Pumped liquid:                       | Water                                    |
| Liquid temperature during operation: | 68 °F                                    |
| Density:                             | 62.29 lb/ft³                             |
| <b>Electrical data:</b>              |  |
| Motor standard:                      | NEMA                                     |
| Motor type:                          | BALDOR                                   |
| IE Efficiency class:                 | NA                                       |
| Rated power - P2:                    | 0.75 HP                                  |
| Power (P2) required by pump:         | 0.75 HP                                  |
| Main frequency:                      | 60 Hz                                    |
| Rated voltage:                       | 1 x 115/208-230 V                        |
| Service factor:                      | 1.25                                     |







Company name:

Created by:

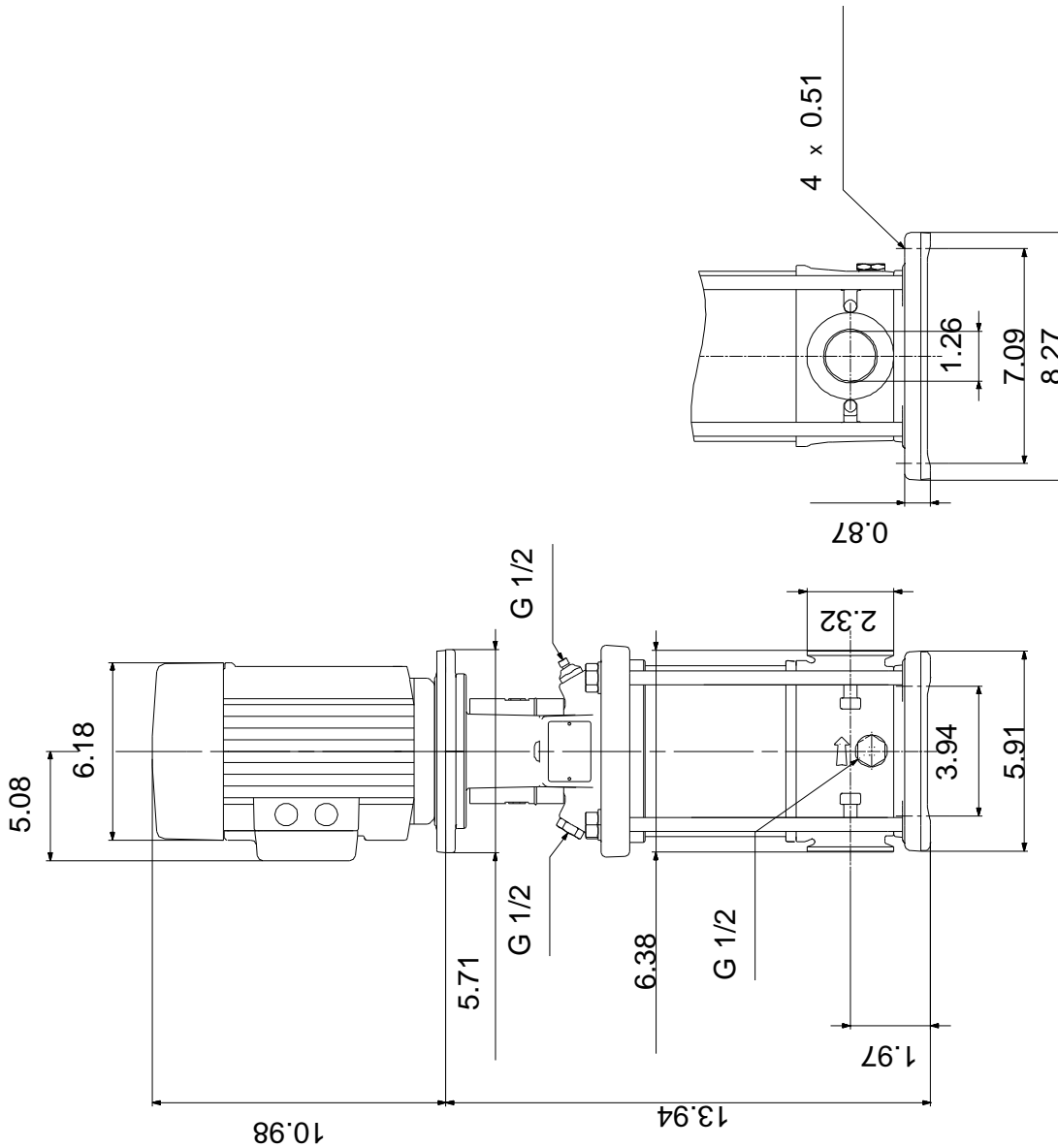
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Date:

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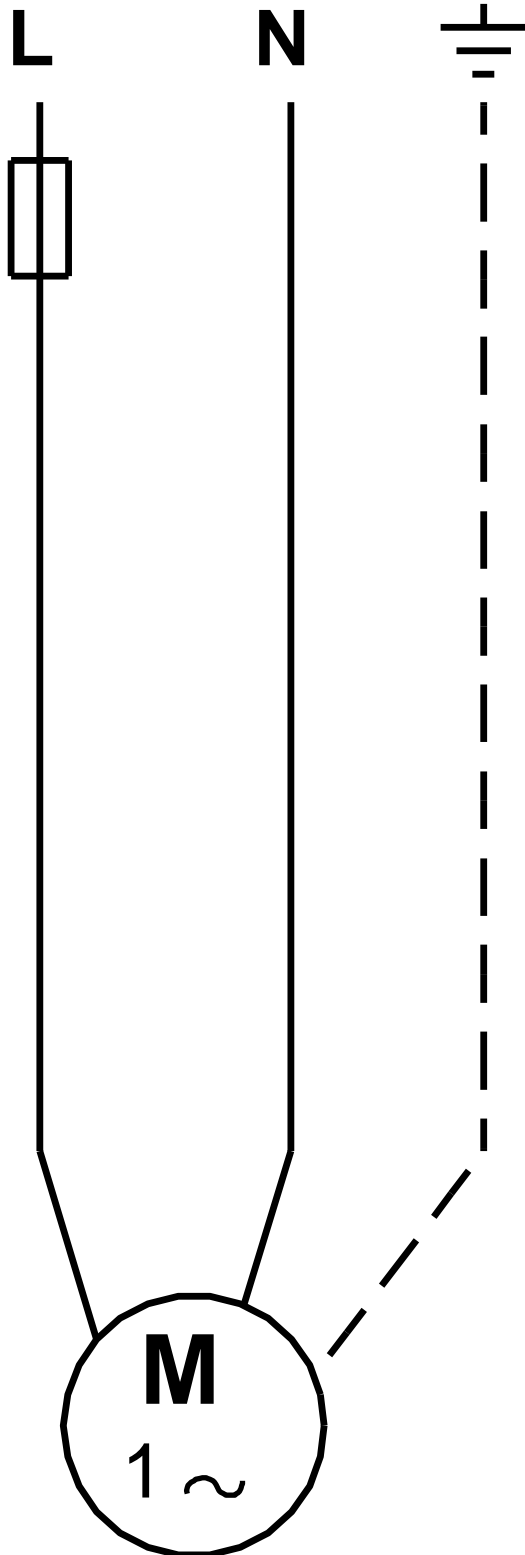
| Description                 | Value                |
|-----------------------------|----------------------|
| Rated current:              | 9,60/5,00-4,80 A     |
| Load current:               | 11.4/6.0-5.7 A       |
| Rated speed:                | 3450 rpm             |
| Number of poles:            | 2                    |
| Enclosure class (IEC 34-5): | 54 Dust/Splashing    |
| Insulation class (IEC 85):  | B                    |
| Motor protection:           | NONE                 |
| Motor Number:               | 84Z04001             |
| <b>Controls:</b>            |                      |
| Frequency converter:        | NONE                 |
| <b>Others:</b>              |                      |
| Net weight:                 | 54.9 lb              |
| Gross weight:               | 65.9 lb              |
| Shipping volume:            | 6.11 ft <sup>3</sup> |

**96082405 CRI 1-7 60 Hz**



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

**96082405 CRI 1-7 60 Hz**



All units are [mm] unless otherwise presented.



Company name:

Created by:

Phone:

Date: 2/20/2018

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**Order Data:**

Product name: CRI 1-7 A-CA-I-V-HQQV

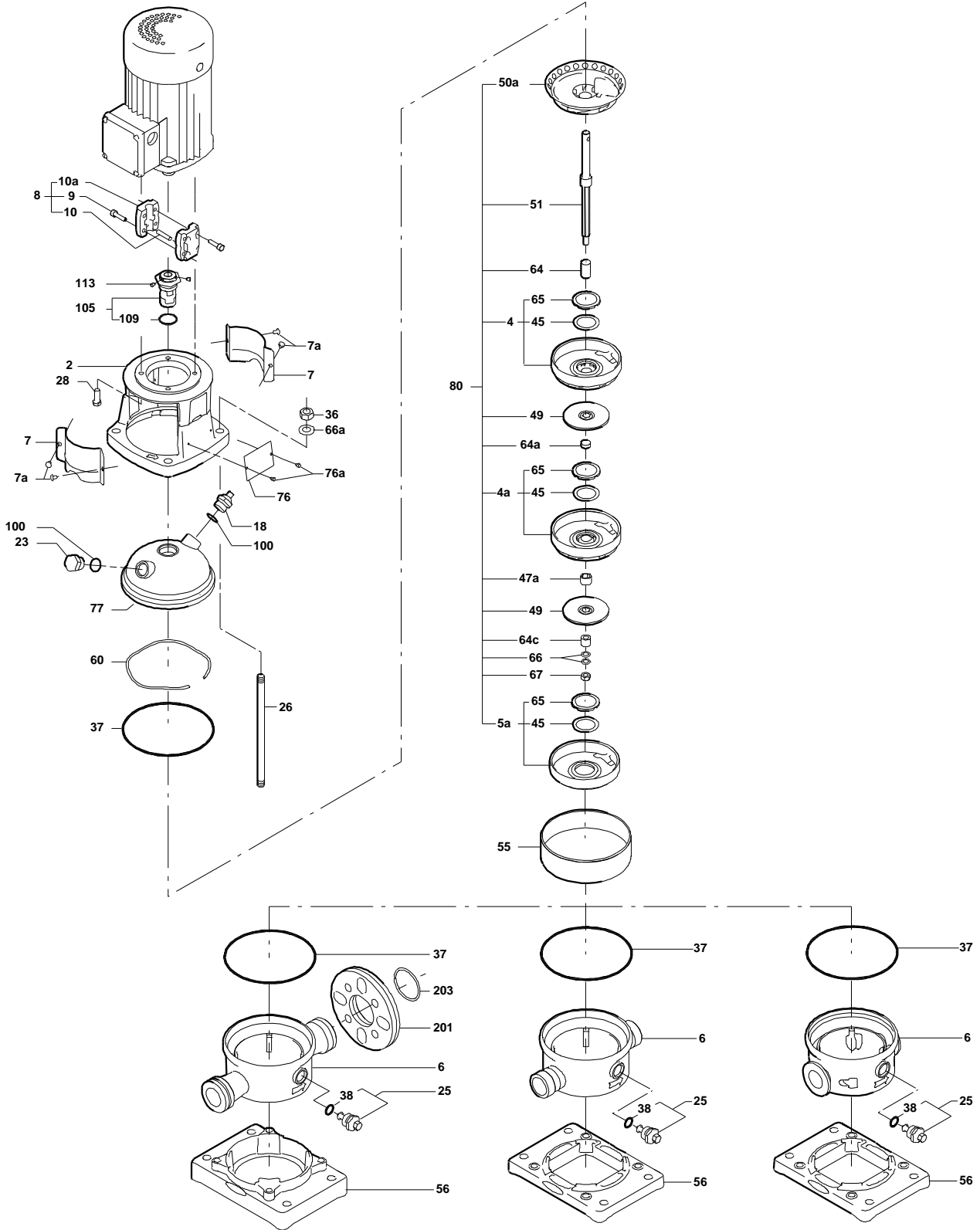
Amount: 1

Product No.: 96082405

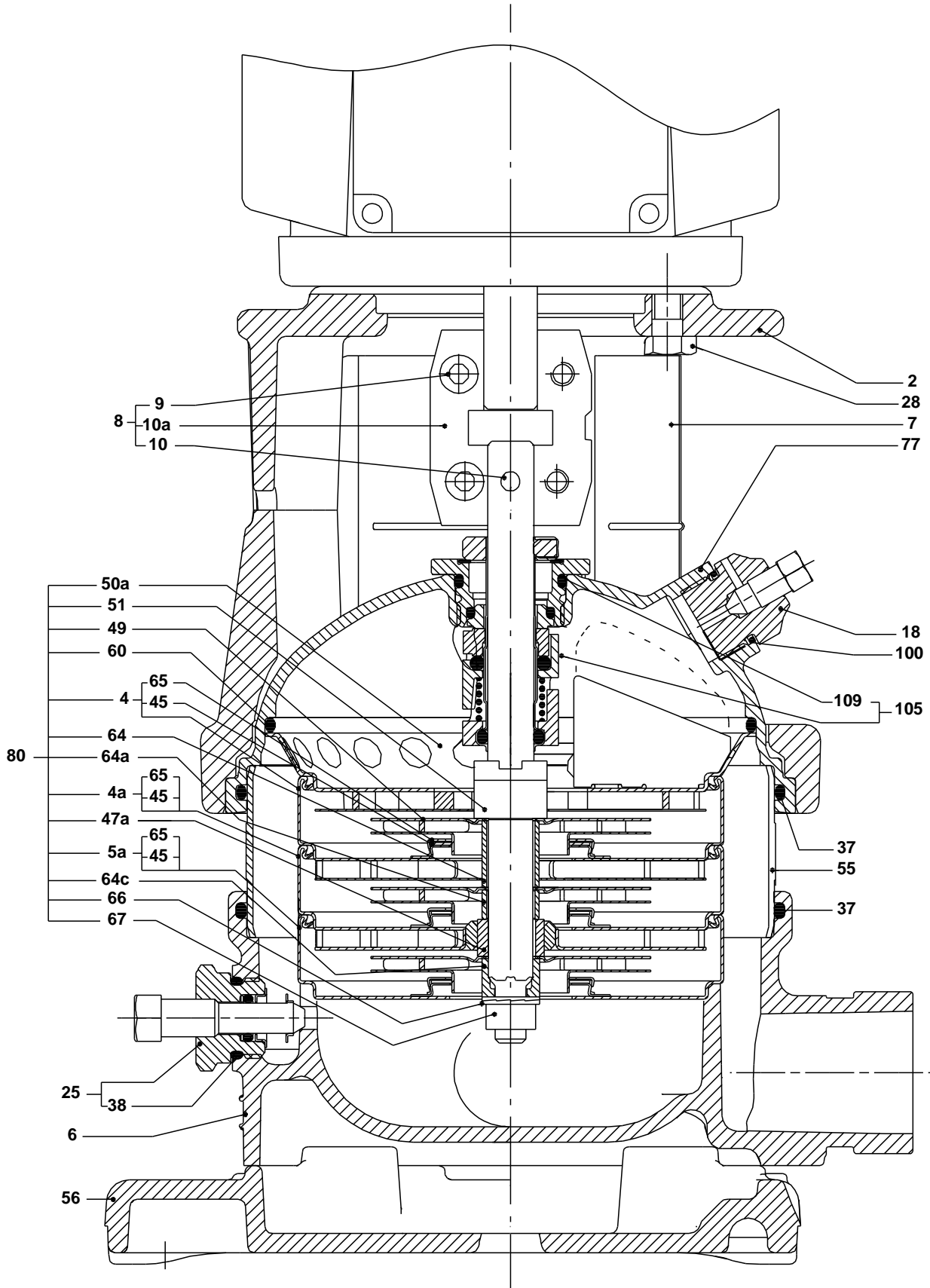
Total: Price on request

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## Exploded view (TM02 0212 4100)



Sectional drawing (TM02 0215 4100)



TM02

**Parts list CRI 1-7, Prod number 96082405**  
**Valid from 1.1.2004 (0401)**

| Position | Description               | Annotation | Classification data           | Part No. | Count | Unit |
|----------|---------------------------|------------|-------------------------------|----------|-------|------|
|          | Motor                     |            |                               |          | 1     | pcs  |
| +        | Base cpl.                 |            |                               |          | 1     | pcs  |
| -        | Sealing parts             |            |                               |          | 1     | pcs  |
| - 25     | Drain plug w/bypass valve |            |                               |          | 1     |      |
| 38       | O-ring                    |            | Diameter: 16,3                |          |       |      |
|          |                           |            | Material type: FKM            |          |       |      |
|          |                           |            | Thickness: 2,4                |          |       |      |
| 37       | O-ring                    |            | Diameter: 137,5               |          | 2     |      |
|          |                           |            | Material type: FKM            |          |       |      |
|          |                           |            | Thickness: 3,3                |          |       |      |
| 100      | O-ring                    |            | Diameter: 16,3                |          | 2     |      |
|          |                           |            | Material type: FKM            |          |       |      |
|          |                           |            | Thickness: 2,4                |          |       |      |
| - 2      | Pump head cpl.            |            |                               |          | 1     | pcs  |
| 2        | Motor stool               |            |                               |          | 1     |      |
| 7        | Coupling guard            |            |                               |          | 2     |      |
| 7a       | Thread cutting screw      |            |                               |          | 4     |      |
| - 18     | Air vent screw            |            |                               |          | 1     |      |
|          | Plug                      |            |                               |          |       |      |
|          | Spindle                   |            |                               |          |       |      |
| - 25     | Drain plug                |            |                               |          | 1     |      |
| 23       | Pipe plug                 |            |                               |          |       |      |
| 25       | Drain plug                |            |                               |          |       |      |
| 28       | Hex head cap screw        |            | Length: 25                    |          | 4     |      |
|          |                           |            | Thread: UNC 3/8"              |          |       |      |
| 60       | Formed wire spring        |            |                               |          | 1     |      |
| 77       | Pump cover                |            |                               |          | 1     |      |
| +        | 8 Coupling cpl.           |            |                               |          | 1     | pcs  |
| 26       | Staybolt                  |            | Length: 223                   |          | 4     | pcs  |
|          |                           |            | Thread: M12                   |          |       |      |
| 36a      | Washer                    |            | Designation: DIN 125 A        |          | 4     | pcs  |
|          |                           |            | Inner diameter: 13            |          |       |      |
|          |                           |            | Outer diameter: 24            |          |       |      |
|          |                           |            | Thickness: 2,5                |          |       |      |
| 55       | Outer sleeve              |            |                               |          | 1     | pcs  |
| 66a      | Nut                       |            | Thread: M12                   |          | 4     | pcs  |
| +        | 80 Chamber stack          |            | Bearing type: SILICON CARBIDE |          | 1     | pcs  |
| - 105    | Shaft seal                |            | Material type: HQQV           |          | 1     | pcs  |
|          | O-ring                    |            |                               |          | 1     |      |
|          | O-ring                    |            |                               |          | 1     |      |
|          | O-ring                    |            |                               |          | 1     |      |
|          | Seal driver, upper        |            |                               |          | 1     |      |
|          | Seal driver, lower        |            |                               |          | 1     |      |
|          | Spacer ring               |            |                               |          | 1     |      |
|          | Pipe                      |            |                               |          | 1     |      |
|          | Plug                      |            |                               |          | 1     |      |
|          | Plug                      |            |                               |          | 1     |      |
|          | Compression spring        |            |                               |          | 1     |      |
|          | Socket set screw          |            |                               |          | 3     |      |
| 103      | Seal ring, stationary     |            |                               |          | 1     |      |
| 105      | Seal ring, rotating       |            |                               |          | 1     |      |
| 109      | O-ring                    |            |                               |          | 1     |      |
| 113      | Driver                    |            |                               |          | 1     |      |