

## TPD 32-60/2-A-F-A-BUBE 400Y 50HZ

Grundfos pump 96401829



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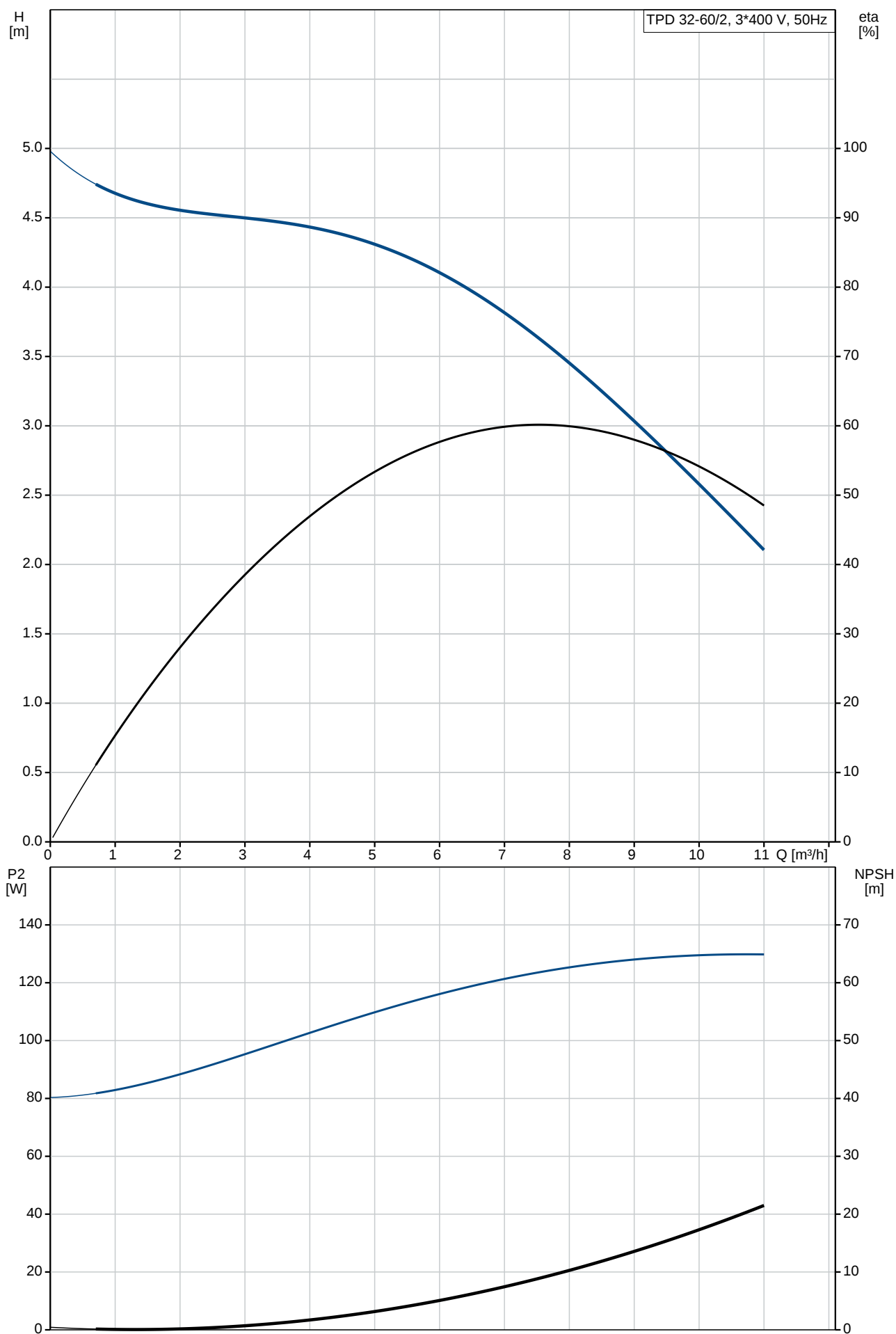
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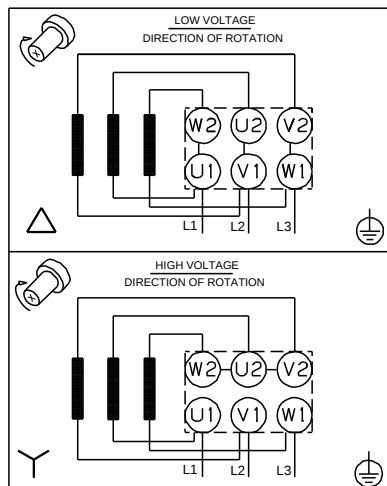
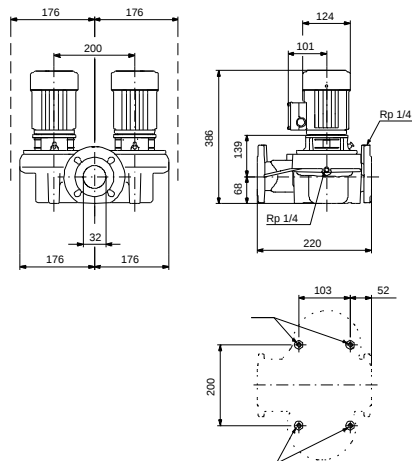
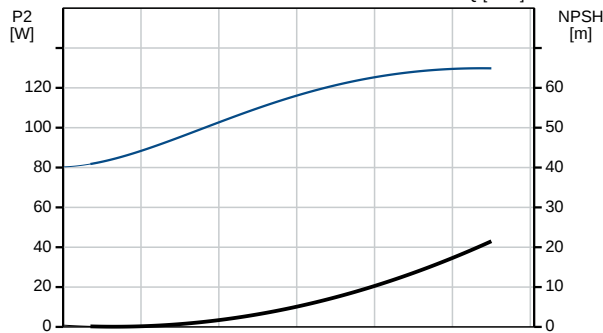
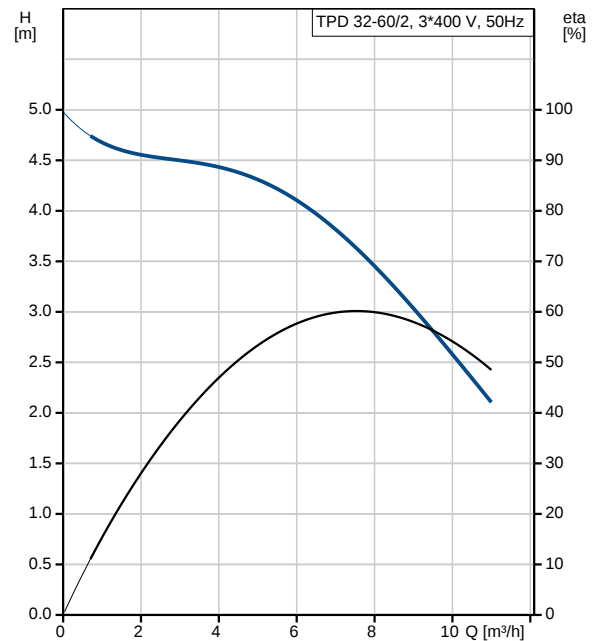
| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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|          | 1    | <p><b>TPD 32-60/2 A-F-A-BUBE</b></p>  <p><b>Note! Product picture may differ from actual product</b></p> <p>Product No.: On request</p> <p>Single-stage, close-coupled, volute twin-head pump with in-line suction and discharge ports of identical diameter. The twin-head pump is designed with two parallel power-heads. The pump is of the top-pull-out design, i.e. the power head (motor, pump head and impeller) can be removed for maintenance or service while the pump housing remains in the pipework.</p> <p>Each power head is fitted with an unbalanced rubber bellows seal. The shaft seal is according to EN 12756. Pipework connection is via PN 6/10 DIN flanges (EN 1092-2 and ISO 7005-2).</p> <p>Each power head is fitted with a fan-cooled asynchronous motor of identical size.</p> <p><b>Further product details</b></p> <p><b>Pump</b></p> <p>Pump housing and pump head are electrocoated to improve the corrosion resistance. Electrocoating includes:</p> <ol style="list-style-type: none"> <li>1) Alkaline-based cleaning.</li> <li>2) Pretreatment with zinc phosphate coating.</li> <li>3) Cathodic electrocoating (epoxy).</li> <li>4) Curing of paint film at 200-250 °C.</li> </ol> <p>The pump is fitted with an unbalanced rubber bellows seal with torque transmission across the spring and around the bellows. Due to the bellows, the seal does not wear the shaft, and the axial movement is not prevented by deposits on the shaft.</p> <p>Primary seal:</p> <ul style="list-style-type: none"> <li>• Rotating seal ring material: tungsten carbide (WC)</li> <li>• Stationary seat material: carbon graphite, resin-impregnated</li> </ul> <p>This is a widely used material pairing. If the pumped liquid contains particles, wear on the seal faces must be expected. Due to the favourable lubricating properties of carbon graphite, the seal is suitable for use even under poor lubricating conditions, such as hot water. However, under such conditions, wear on the carbon graphite face reduces seal life.</p> <p>Secondary seal material: EPDM (ethylene-propylene rubber)</p> <p>EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.</p> <p>A circulation of liquid through the duct of the air vent screw ensures lubrication and cooling of the shaft seal.</p> <p><b>Motor</b></p> <p>The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034.</p> <p>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 (I<sub>1</sub>/1).</p> <p><b>Technical data</b></p> <p><b>Liquid:</b></p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: 0 .. 140 °C</p> <p>Liquid temperature during operation: 20 °C</p> |

| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |      | <p>Density: 998.2 kg/m<sup>3</sup></p> <p><b>Technical:</b></p> <p>Rated flow: 6.5 m<sup>3</sup>/h</p> <p>Rated head: 4 m</p> <p>Actual impeller diameter: 64 mm</p> <p>Primary shaft seal: BUBE</p> <p>Curve tolerance: ISO9906:2012 3B</p> <p><b>Materials:</b></p> <p>Impeller: AISI 304</p> <p><b>Installation:</b></p> <p>Range of ambient temperature: -30 .. 40 °C</p> <p>Maximum operating pressure: 10 bar</p> <p>Flange standard: DIN</p> <p>Pipe connection: DN 32</p> <p>Pump inlet: DN 32</p> <p>Pump outlet: DN 32</p> <p>Pressure rating: PN 6/10</p> <p>(@): 220 mm</p> <p>Flange size for motor: FT75</p> <p><b>Electrical data:</b></p> <p>Motor type: SIEMENS</p> <p>Rated power - P2: 2 x 0.25 kW</p> <p>Mains frequency: 50 Hz</p> <p>Rated voltage: 3 x 220-240D/380-415Y V</p> <p>Rated current: 1.18/0.68 A</p> <p>Cos phi - power factor: 0.81-0.72</p> <p>Rated speed: 2800-2850 rpm</p> <p>Number of poles: 2</p> <p>Enclosure class (IEC 34-5): 55 Dust/Jetting</p> <p>Insulation class (IEC 85): F</p> <p><b>Others:</b></p> <p>Minimum efficiency index, MEI ≥: 0.56</p> <p>Net weight: 35.9 kg</p> <p>Gross weight: 39 kg</p> <p>Shipping volume: 0.08 m<sup>3</sup></p> |

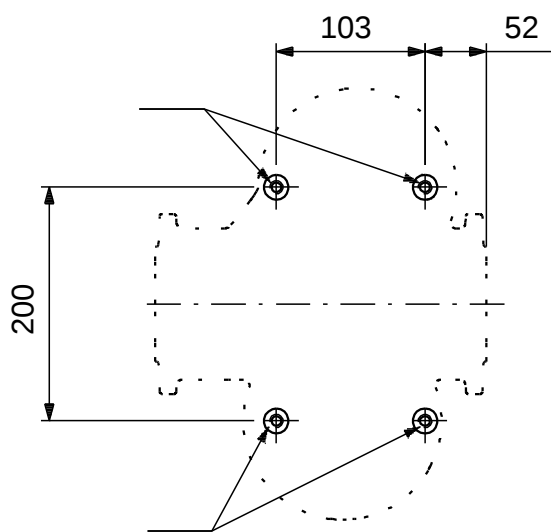
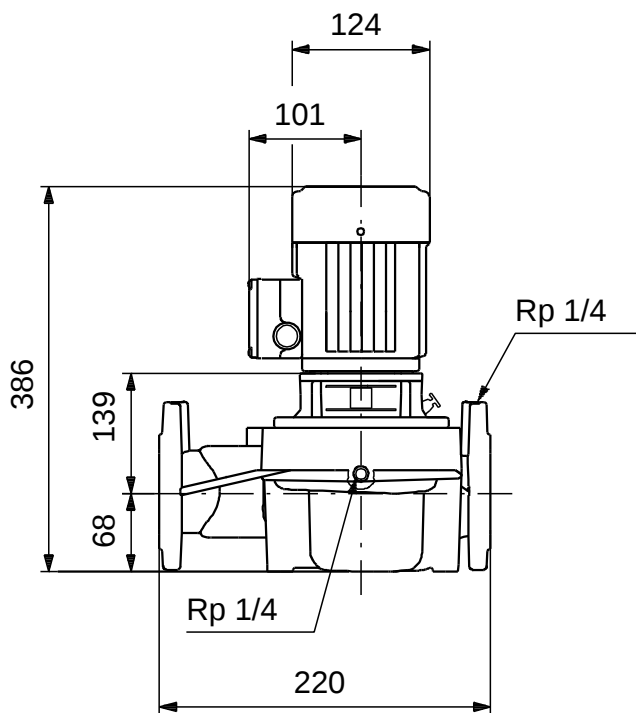
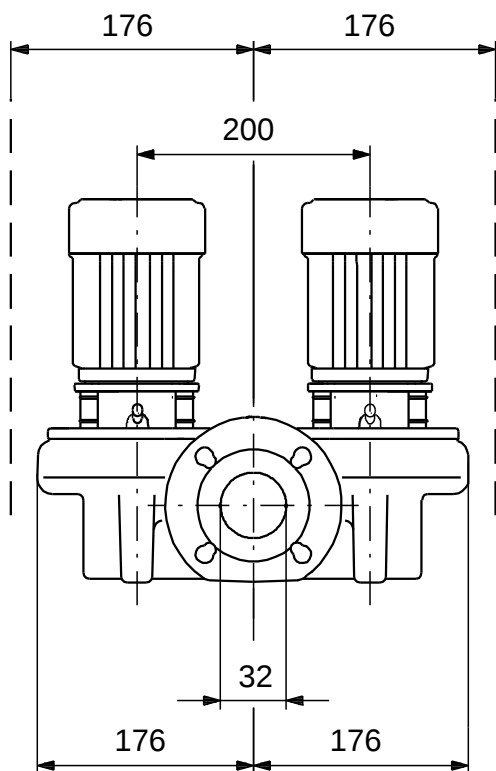
# On request TPD 32-60/2 A-F-A-BUBE 50 Hz



| Description                          | Value                   |
|--------------------------------------|-------------------------|
| <b>General information:</b>          |                         |
| Product name:                        | TPD 32-60/2 A-F-A-BUBE  |
| Product No:                          | On request              |
| EAN number:                          | On request              |
| <b>Technical:</b>                    |                         |
| Rated flow:                          | 6.5 m³/h                |
| Rated head:                          | 4 m                     |
| Head max:                            | 60 dm                   |
| Actual impeller diameter:            | 64 mm                   |
| Primary shaft seal:                  | BUBE                    |
| Curve tolerance:                     | ISO9906:2012 3B         |
| Pump version:                        | A                       |
| Model:                               | A                       |
| <b>Materials:</b>                    |                         |
| Impeller:                            | AISI 304                |
| Material code:                       | A                       |
| <b>Installation:</b>                 |                         |
| Range of ambient temperature:        | -30 .. 40 °C            |
| Maximum operating pressure:          | 10 bar                  |
| Flange standard:                     | DIN                     |
| Pipe connection:                     | DN 32                   |
| Pump inlet:                          | DN 32                   |
| Pump outlet:                         | DN 32                   |
| Pressure rating:                     | PN 6/10                 |
| (@)                                  | 220 mm                  |
| Flange size for motor:               | FT75                    |
| Connect code:                        | F                       |
| <b>Liquid:</b>                       |                         |
| Pumped liquid:                       | Water                   |
| Liquid temperature range:            | 0 .. 140 °C             |
| Liquid temperature during operation: | 20 °C                   |
| Density:                             | 998.2 kg/m³             |
| <b>Electrical data:</b>              |                         |
| Motor type:                          | SIEMENS                 |
| Rated power - P2:                    | 2 x 0.25 kW             |
| Mains frequency:                     | 50 Hz                   |
| Rated voltage:                       | 3 x 220-240D/380-415Y V |
| Rated current:                       | 1.18/0.68 A             |
| Cos phi - power factor:              | 0.81-0.72               |
| Rated speed:                         | 2800-2850 rpm           |
| Number of poles:                     | 2                       |
| Enclosure class (IEC 34-5):          | 55 Dust/Jetting         |
| Insulation class (IEC 85):           | F                       |
| Motor protec:                        | NONE                    |
| Motor No:                            | 81602314                |
| <b>Others:</b>                       |                         |
| Minimum efficiency index, MEI ≥:     | 0.56                    |
| Net weight:                          | 35.9 kg                 |
| Gross weight:                        | 39 kg                   |
| Shipping volume:                     | 0.08 m³                 |



**On request TPD 32-60/2 A-F-A-BUBE 50 Hz**



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

# Exploded view



Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

# Exploded view ( TM057026 for MGE model H/I )



**Parts list TPD 32-60/2, Product No. On request**  
**Valid from 30.11.2010 (1048)**

| Pos | Description               | Annotation | Données de classification | Référence | Quantité | Unité |
|-----|---------------------------|------------|---------------------------|-----------|----------|-------|
|     | Motor                     |            |                           |           | 2        | pcs   |
| -   | Coupling cpl.             |            |                           |           | 2        | pcs   |
| 9   | Hex socket head cap screw |            | Designation: DIN 912      |           | 4        |       |
|     |                           |            | Length (mm): 20           |           |          |       |
|     |                           |            | Thread: M6                |           |          |       |
| 10  | Shaft pin                 |            | Diameter: 5               |           | 1        |       |
|     |                           |            | Length (mm): 21,5         |           |          |       |
| 10a | Coupling half             |            |                           |           | 2        |       |
| -   | Motor stool cpl.          |            |                           |           | 2        | pcs   |
| 2   | Motor stool               |            |                           |           | 1        |       |
| 28  | Hex head screw            |            | Length (mm): 25           |           | 4        |       |
|     |                           |            | Thread: M8                |           |          |       |
| 28  | Hex head screw            |            | Length (mm): 16 MM        |           | 4        |       |
|     |                           |            | Thread: M5                |           |          |       |
| -   | Pump housing cpl.         |            |                           |           | 1        | pcs   |
| - 6 | Pump housing              |            |                           |           | 1        |       |
|     | Pump housing              |            |                           |           | 1        |       |
| 45  | Neck ring                 |            |                           |           | 2        |       |
| 215 | Guide pin                 |            |                           |           | 1        |       |
| 217 | Valve flap                |            |                           |           | 1        |       |
| -   | Coupling guard cpl.       |            |                           |           | 2        | pcs   |
| 7   | Coupling guard            |            |                           |           | 2        |       |
| 7a  | Pan head screw            |            |                           |           | 4        |       |
| 66  | Lock washer               |            |                           |           | 4        |       |
| -   | Shaft w/impeller cpl.     |            |                           |           | 2        | pcs   |
| 48  | Split cone nut            |            |                           |           | 1        |       |
| 49  | Impeller cpl.             |            |                           |           | 1        |       |
| 49b | Split cone                |            |                           |           | 1        |       |
| 51  | Shaft cpl.                |            |                           |           | 1        |       |
| 17  | Air vent screw            |            |                           |           | 2        | pcs   |
| 19  | Plug                      |            |                           |           | 6        | pcs   |
| 72a | O-ring                    |            |                           |           | 2        | pcs   |
| 105 | Shaft seal                |            | Material type: EPDM       |           | 2        | pcs   |

*Disclaimer: The information about the Grundfos pump in this document may be outdated.*

*Data may be subject to alterations without further notice.*

*Please contact us to verify the data above is still accurate/up-to-date.*

*All information is copyright Grundfos.*



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