

## TP 25-80/2-A-O-A-BUBE 400Y 50HZ

Grundfos pump 98299810



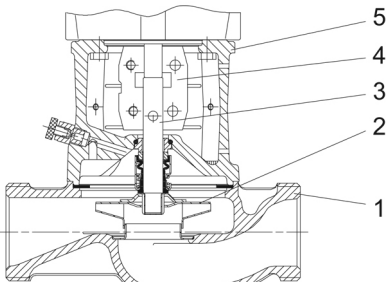
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<https://www.lenntech.com/grundfos/TP000/98299810/TP-25-80-2-A-O-A-BUBE.html>

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| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | 1    | <p><b>TP 25-80/2 A-O-A-BUBE</b></p>  <p>Product No.: On request</p> <p>Single-stage, close-coupled, volute pump with in-line suction and discharge ports of identical diameter. 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>The pump is fitted with an unbalanced rubber bellows seal. The shaft seal is according to EN 12756. Pipework connection is via PN 10 union connections (ISO 228-1).</p> <p>The pump is fitted with a fan-cooled asynchronous motor.</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>  <ol style="list-style-type: none"> <li>1: Pump housing</li> <li>2: Impeller</li> <li>3: Shaft</li> <li>4: Coupling</li> <li>5: Pump head</li> </ol> <p>The pump housing is provided with a replaceable stainless steel/PTFE neck ring to reduce the amount of liquid running from the discharge side of the impeller to the suction side. The impeller is secured with a split cone pressed onto the shaft.</p> <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> |

The motor stool forms connection between the pump housing and the motor, and is equipped with a manual air vent screw for venting of the pump housing and the shaft seal chamber. The sealing between motor stool and pump housing is an O-ring or a flat gasket.

The central part of the motor stool is provided with guards for protection against the shaft and coupling. Motor and pump shaft are connected via a shell coupling.

### Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034.

The motor is flange-mounted with tapped-hole flange (FT).

Motor-mounting designation in accordance with IEC 60034-7: IM B 14, IM V 18 (Code I) / IM 3601, IM 3611 (Code II).

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

#### Liquid:

Pumped liquid: Water  
Liquid temperature range: 0 .. 110 °C  
Liquid temperature during operation: 20 °C  
Density: 998.2 kg/m<sup>3</sup>

#### Technical:

Rated flow: 6.32 m<sup>3</sup>/h  
Rated head: 4.04 m  
Actual impeller diameter: 80 mm  
Primary shaft seal: BUBE  
Curve tolerance: ISO9906:2012 3B

#### Materials:

Pump housing: Cast iron  
EN-JL1020  
ASTM A48-25B  
Impeller: Composite PES/PP 30% GF

#### Installation:

Range of ambient temperature: -30 .. 40 °C  
Maximum operating pressure: 10 bar  
Flange standard: UNION  
Pipe connection: G 1 1/2  
Pressure rating: PN 10  
(@): 180 mm  
Flange size for motor: FT75

#### Electrical data:

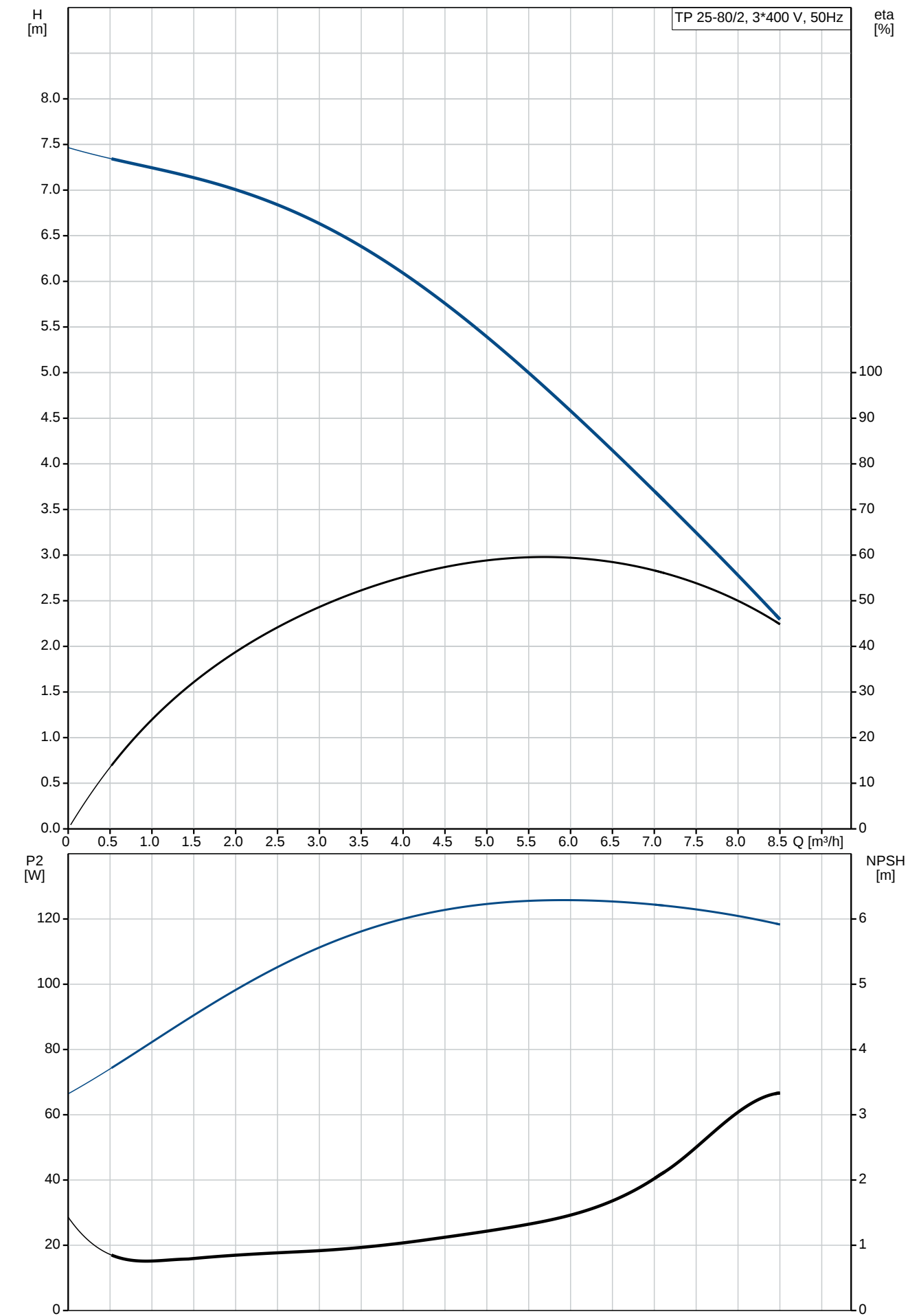
Motor type: SIEMENS  
Rated power - P2: 0.18 kW  
Power (P2) required by pump: 0.18 kW  
Mains frequency: 50 Hz  
Rated voltage: 3 x 220-240D/380-415Y V  
Rated current: 0.90/0.52 A  
Cos phi - power factor: 0.79-0.71  
Rated speed: 2800-2850 rpm  
Number of poles: 2  
Enclosure class (IEC 34-5): 55 (Protect. water jets/dust)  
Insulation class (IEC 85): F

#### Others:

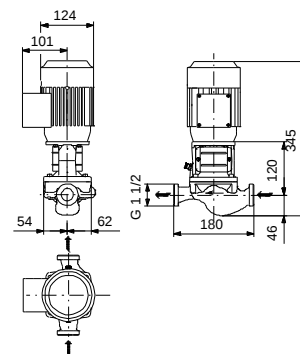
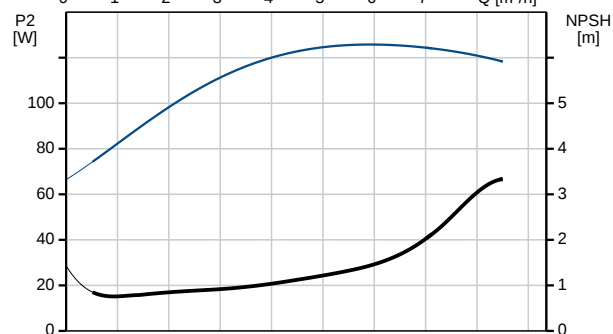
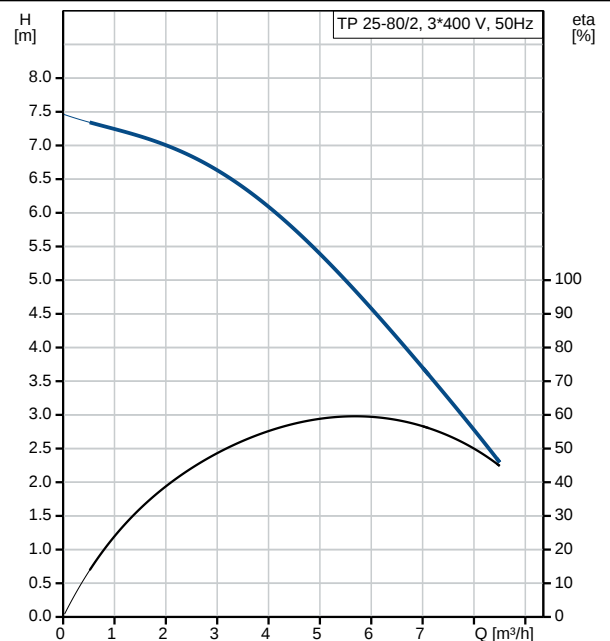
Minimum efficiency index, MEI ≥: 0.55  
ErP status: EuP Standalone/Prod.  
Net weight: 8.3 kg

| Position | Qty. | Description                                                                    |
|----------|------|--------------------------------------------------------------------------------|
|          |      | <div>Gross weight: 9.3 kg</div> <div>Shipping volume: 0.02 m<sup>3</sup></div> |

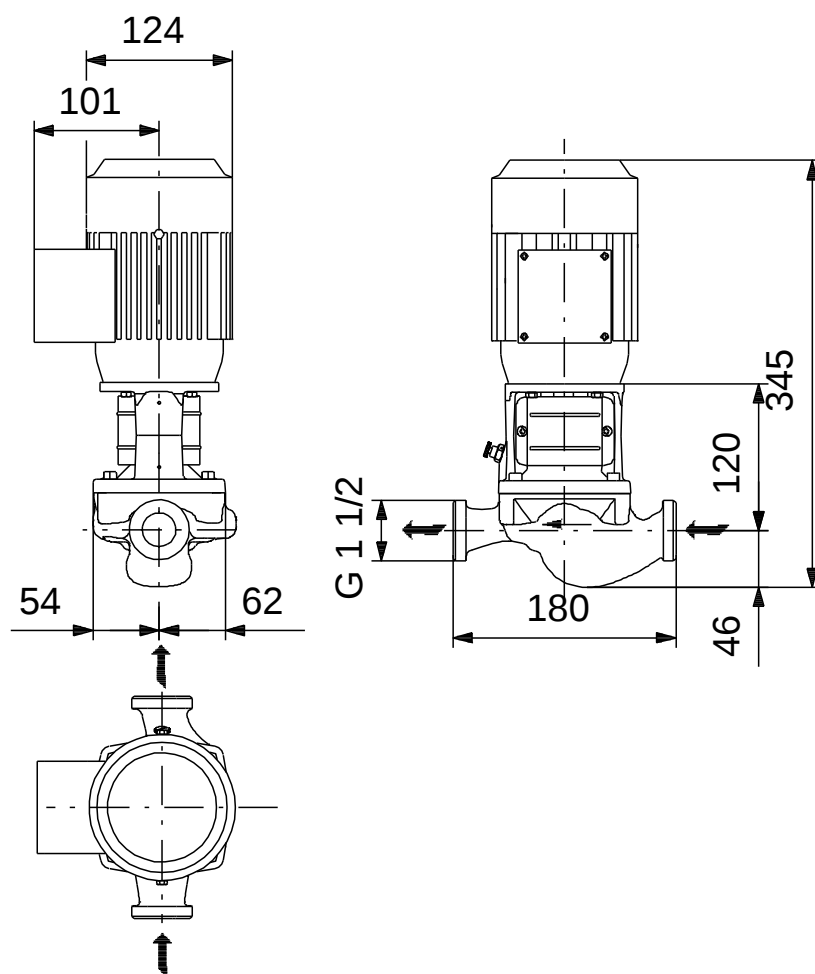
On request TP 25-80/2 A-O-A-BUBE 50 Hz



| Description                          | Value                         |
|--------------------------------------|-------------------------------|
| <b>General information:</b>          |                               |
| Product name:                        | TP 25-80/2 A-O-A-BUBE         |
| Product No:                          | On request                    |
| EAN number:                          | On request                    |
| <b>Technical:</b>                    |                               |
| Rated flow:                          | 6.32 m³/h                     |
| Rated head:                          | 4.04 m                        |
| Head max:                            | 80 dm                         |
| Actual impeller diameter:            | 80 mm                         |
| Primary shaft seal:                  | BUBE                          |
| Curve tolerance:                     | ISO9906:2012 3B               |
| Pump version:                        | A                             |
| Model:                               | B                             |
| <b>Materials:</b>                    |                               |
| Pump housing:                        | Cast iron                     |
|                                      | EN-JL1020                     |
|                                      | ASTM A48-25B                  |
| Impeller:                            | Composite PES/PP 30% GF       |
| Material code:                       | A                             |
| <b>Installation:</b>                 |                               |
| Range of ambient temperature:        | -30 .. 40 °C                  |
| Maximum operating pressure:          | 10 bar                        |
| Flange standard:                     | UNION                         |
| Pipe connection:                     | G 1 1/2                       |
| Pressure rating:                     | PN 10                         |
| (@)                                  | 180 mm                        |
| Flange size for motor:               | FT75                          |
| Connect code:                        | O                             |
| <b>Liquid:</b>                       |                               |
| Pumped liquid:                       | Water                         |
| Liquid temperature range:            | 0 .. 110 °C                   |
| Liquid temperature during operation: | 20 °C                         |
| Density:                             | 998.2 kg/m³                   |
| <b>Electrical data:</b>              |                               |
| Motor type:                          | SIEMENS                       |
| Rated power - P2:                    | 0.18 kW                       |
| Power (P2) required by pump:         | 0.18 kW                       |
| Mains frequency:                     | 50 Hz                         |
| Rated voltage:                       | 3 x 220-240D/380-415Y V       |
| Rated current:                       | 0.90/0.52 A                   |
| Cos phi - power factor:              | 0.79-0.71                     |
| Rated speed:                         | 2800-2850 rpm                 |
| Number of poles:                     | 2                             |
| Enclosure class (IEC 34-5):          | 55 (Protect. water jets/dust) |
| Insulation class (IEC 85):           | F                             |
| Motor protec:                        | NONE                          |
| Motor No:                            | 81602313                      |
| <b>Others:</b>                       |                               |
| Minimum efficiency index, MEI ≥:     | 0.55                          |
| ErP status:                          | EuP Standalone/Prod.          |
| Net weight:                          | 8.3 kg                        |
| Gross weight:                        | 9.3 kg                        |
| Shipping volume:                     | 0.02 m³                       |



# On request TP 25-80/2 A-O-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 TP 25-80/2, Product No. On request**  
**Valid from 20.6.2010 (1024)**

| Pos | Description               | Annotation | Données de classification | Référence | Quantité | Unité |
|-----|---------------------------|------------|---------------------------|-----------|----------|-------|
|     | Motor                     |            |                           |           | 1        | pcs   |
| -   | Coupling cpl.             |            |                           |           | 1        | 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.          |            |                           |           | 1        | pcs   |
| 2   | Motor stool               |            |                           |           | 1        |       |
| 26  | Hex socket head cap screw |            | Designation: DIN 912      |           | 4        |       |
|     |                           |            | Length (mm): 20           |           |          |       |
|     |                           |            | Thread: M6                |           |          |       |
| 28  | Hex head screw            |            | Length (mm): 16 MM        |           | 4        |       |
|     |                           |            | Thread: M5                |           |          |       |
| -   | Pump housing cpl.         |            |                           |           | 1        | pcs   |
| - 6 | Pump housing cpl.         |            |                           |           | 1        |       |
| -   | Pump housing              |            |                           |           | 1        |       |
| 6   | Pump housing              |            |                           |           |          |       |
| 45  | Seal ring                 |            |                           |           |          |       |
| -   | Coupling guard cpl.       |            |                           |           | 1        | pcs   |
| 7   | Coupling guard            |            |                           |           | 2        |       |
| 7a  | Pan head screw            |            |                           |           | 4        |       |
| 66  | Lock washer               |            |                           |           | 4        |       |
| -   | Shaft w/impeller cpl.     |            |                           |           | 1        | pcs   |
| -   | Shaft w/impeller cpl.     |            |                           |           | 1        |       |
| 49  | Impeller cpl.             |            |                           |           | 1        |       |
| 49b | Split cone                |            |                           |           | 1        |       |
| 51  | Pump shaft                |            |                           |           | 1        |       |
| 66a | Washer                    |            | Designation: DIN 125 A2   |           | 1        |       |
|     |                           |            | Internal diameter: 13     |           |          |       |
|     |                           |            | Outer diameter: 24        |           |          |       |
|     |                           |            | Thickness: 2,5            |           |          |       |
| 17  | Air vent screw            |            |                           |           | 1        | pcs   |
| 72a | Gasket                    |            | Internal diameter: 97 MM  |           | 1        | pcs   |
|     |                           |            | Outer diameter: 77.5      |           |          |       |
|     |                           |            | Thickness: 2 MM           |           |          |       |
| 105 | Shaft seal                |            | Material type: BUBE       |           | 1        | 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.*

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