

## SEV.80.80.13.4.50D.Q

Grundfos pump 97637757



Thank you for your interest in our products. Please contact us for more information, or visit our website

<https://www.lenntech.com/grundfos/SEV00/97637757/SEV-80-80-13-4-50D-Q.html>

[info@lenntech.com](mailto:info@lenntech.com)

tel. +31 152 610 900

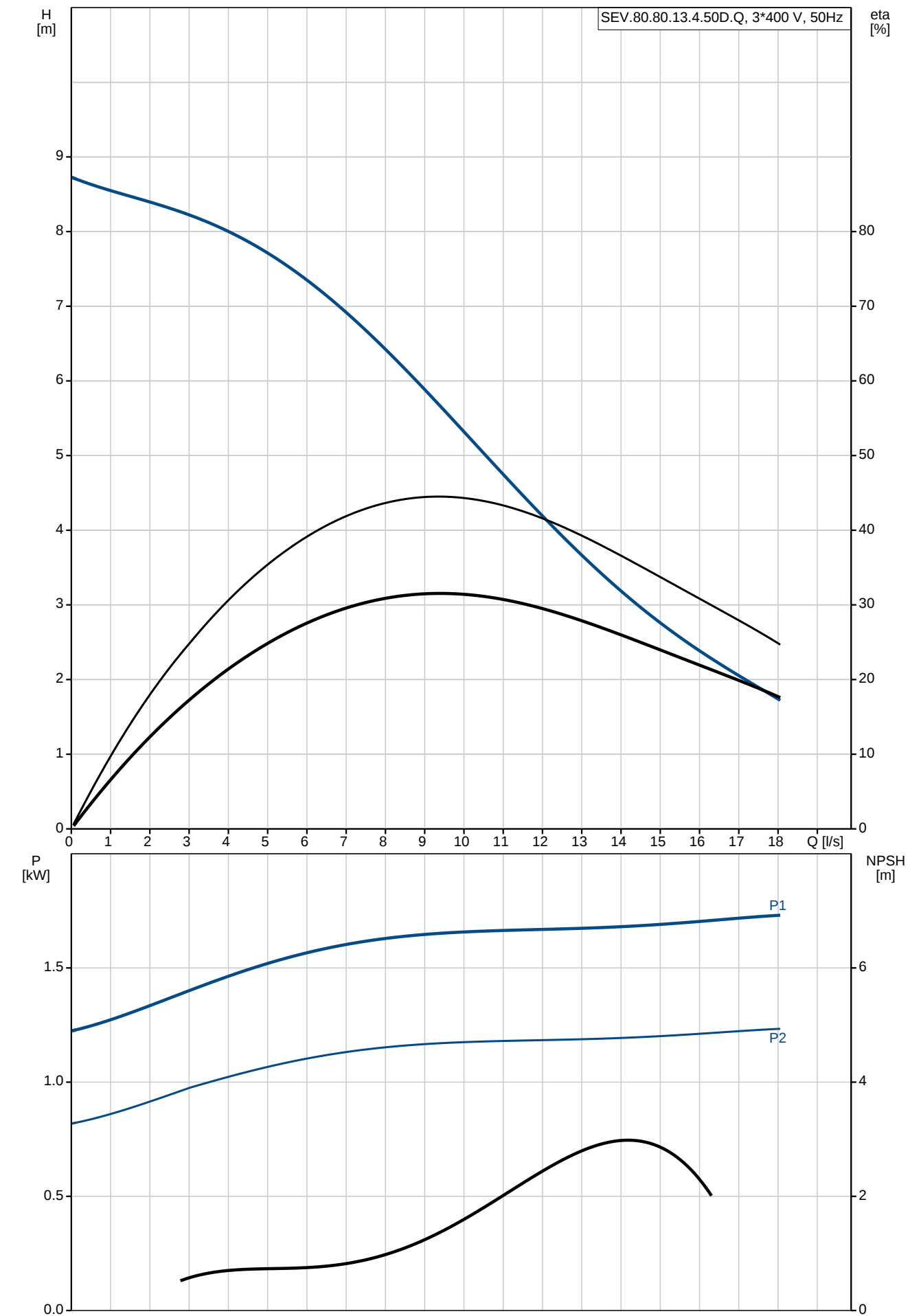
fax. +31 152 616 289

| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | 1    | <p><b>SEV.80.80.13.4.50D.Q</b></p>  <p><b>Note! Product picture may differ from actual product</b></p> <p>Product No.: On request</p> <p>Non-self-priming, single-stage, centrifugal pump designed for handling wastewater, process water and unscreened raw sewage.</p> <p>The pump is designed for intermittent and continuous operation. The liquidless and maintenance free cooling system ensures that the pump can be used for submerged or dry installation. The efficient SuperVortex impeller provides passage of long fibres and solids up to 80 mm and is suitable for wastewater with a dry matter content of up to 5 %.</p> <p>A unique stainless-steel clamp assembling system enables quick and easy disassembly of the pump from the motor unit for service and inspection. No special tools are required. Pipework connection is via a DIN flange.</p> <p><b>Further product details</b></p> <p>Typical application is transfer of liquid, such as:</p> <ul style="list-style-type: none"> <li>- large quantities of drainage and surface water</li> <li>- domestic wastewater with discharge from toilets</li> <li>- wastewater from commercial buildings without discharge from toilets</li> <li>- sludge-containing industrial wastewater.</li> </ul> <p>The pump is ideal for pumping of the above liquids from for instance:</p> <ul style="list-style-type: none"> <li>- municipal network pumping stations</li> <li>- public buildings</li> <li>- blocks of flats</li> <li>- factories/industry.</li> </ul> <p>The pump is suitable for both temporary and permanent installation either as free-standing on ring stand, on base stand, on brackets or on an auto-coupling system.</p> <p><b>Pump</b></p> <p>The pump is fitted with an easy-to-clean stainless steel motor sleeve (EN 1.4301) that is extremely robust and impact-resistant. Pump housing is made of cast-iron (EN-GJL-250) and the impeller is made of stainless steel (EN 1.4408).</p> <p>The SuperVortex impeller is a symmetrical multivane winglet impeller. The design ensures a flow entirely outside the impeller providing limited contact between the impeller and the pumped liquid. This ensures that long fibres, rags and more passes freely through the pump without getting caught and without causing clogging or jamming.</p>  <p>The shaft seal consists of two mechanical seals that ensure a reliable sealing between the pumped liquid and motor. The shaft seals are incorporated in a single-unit cartridge shaft seal system that is easy to replace in the field without use of special tools.</p> <p>The combination of the primary and secondary seals in a cartridge shaft seal system results in a shorter assembly length compared to conventional shaft seals.</p> <ul style="list-style-type: none"> <li>- Primary seal: Silicon carbide/silicon carbide (SiC/SiC)</li> </ul> |

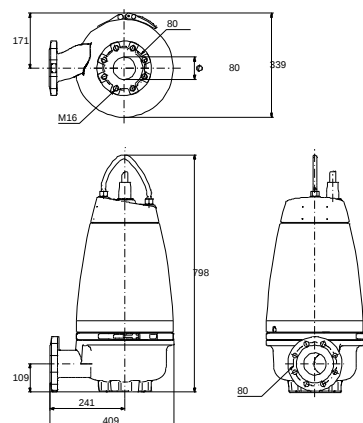
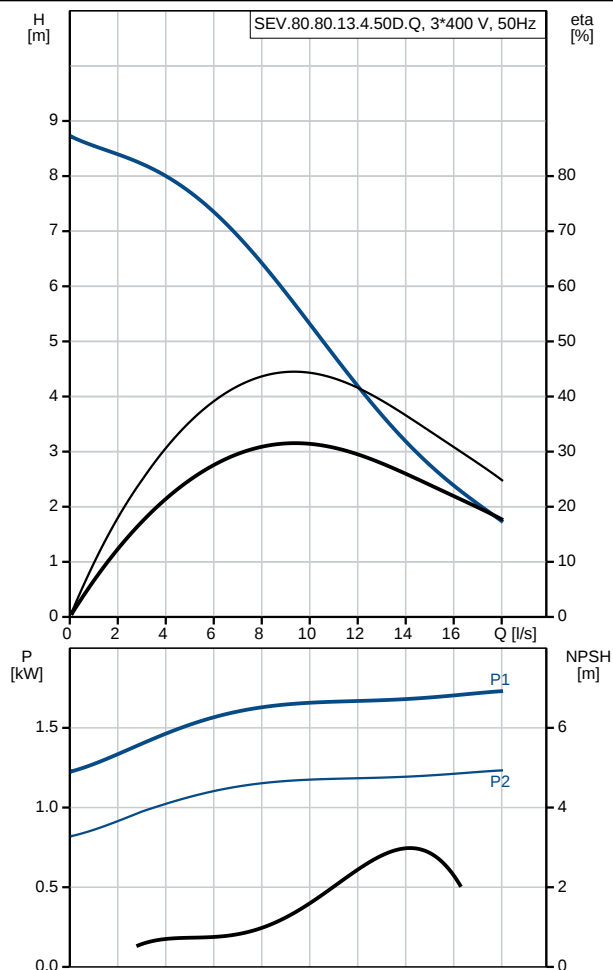


| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |      | Voltage tolerance: +6/-10 %<br>Max starts per. hour: 20<br>Rated current: 3.8-3.9 A<br>Rated current at 3/4 load: 3.2 A<br>Rated current at 1/2 load: 2.9 A<br>Starting current: 22 A<br>Rated current at no load: 2.5 A<br>Cos phi - power factor: 0.72<br>Cos phi - p.f. at no load: 0.15<br>Cos phi - p.f. at 3/4 load: 0.63<br>Cos phi - p.f. at 1/2 load: 0.51<br>Rated speed: 1440 rpm<br>Locked-rotor torque: 23 Nm<br>Breakdown torque: 28 Nm<br>Moment of inertia: 0.0165 kg m <sup>2</sup><br>Motor efficiency at full load: 71.7 %<br>Motor efficiency at 3/4 load: 69.6 %<br>Motor efficiency at 1/2 load: 63.9 %<br>Number of poles: 4<br>Start. method: direct-on-line<br>Enclosure class (IEC 34-5): IP68<br>Insulation class (IEC 85): F<br>Explosion proof: no<br>Length of cable: 10 m<br>Cable type: LYNIFLEX<br>Type of cable plug: NO PLUG<br><br><b>Others:</b><br>Net weight: 103 kg |

On request SEV.80.80.13.4.50D.Q 50 Hz

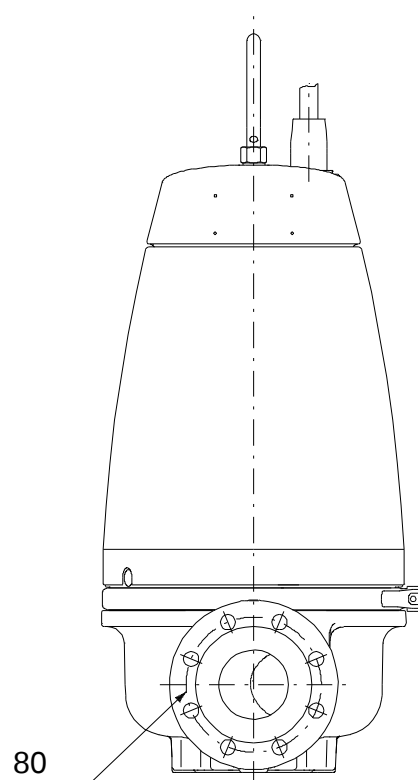
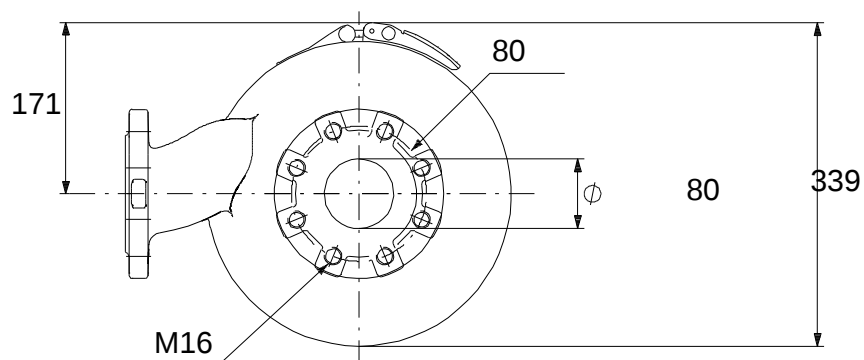


| Description                    | Value                    |
|--------------------------------|--------------------------|
| <b>General information:</b>    |                          |
| Product name:                  | SEV.80.80.13.4.50D.Q     |
| Product No:                    | On request               |
| EAN number:                    | On request               |
| <b>Technical:</b>              |                          |
| Max flow:                      | 18.1 l/s                 |
| Head max:                      | 8.7 m                    |
| Type of impeller:              | SUPER VORTEX             |
| Maximum particle size:         | 80 mm                    |
| Primary shaft seal:            | SIC/SIC                  |
| Secondary shaft seal:          | CARBON/CERAMICS          |
| Max. hydraulic efficiency:     | 44 %                     |
| Approvals on nameplate:        | EN12050-1                |
| Curve tolerance:               | ISO9906:2012 3B2         |
| Cooling jacket:                | with cooling jacket      |
| <b>Materials:</b>              |                          |
| Pump housing:                  | EN 1561 EN-GJL-250       |
| Impeller:                      | Stainless steel          |
| <b>Installation:</b>           |                          |
| Maximum ambient temperature:   | 40 °C                    |
| Maximum operating pressure:    | 6 bar                    |
| Flange standard:               | DIN                      |
| Pump outlet:                   | DN 80                    |
| Pressure rating:               | PN 10                    |
| Maximum installation depth:    | 20 m                     |
| Inst dry/wet:                  | DRY/SUBMERGED            |
| Installation:                  | horizontal or vertical   |
| <b>Liquid:</b>                 |                          |
| Liquid temperature range:      | 0 .. 40 °C               |
| Density:                       | 998.2 kg/m <sup>3</sup>  |
| <b>Electrical data:</b>        |                          |
| Power input - P1:              | 1.8 kW                   |
| Rated power - P2:              | 1.3 kW                   |
| Mains frequency:               | 50 Hz                    |
| Rated voltage:                 | 3 x 380-415 V            |
| Voltage tolerance:             | +6/-10 %                 |
| Max starts per. hour:          | 20                       |
| Rated current:                 | 3.8-3.9 A                |
| Rated current at 3/4 load:     | 3.2 A                    |
| Rated current at 1/2 load:     | 2.9 A                    |
| Starting current:              | 22 A                     |
| Rated current at no load:      | 2.5 A                    |
| Cos phi - power factor:        | 0.72                     |
| Cos phi - p.f. at no load:     | 0.15                     |
| Cos phi - p.f. at 3/4 load:    | 0.63                     |
| Cos phi - p.f. at 1/2 load:    | 0.51                     |
| Rated speed:                   | 1440 rpm                 |
| Locked-rotor torque:           | 23 Nm                    |
| Breakdown torque:              | 28 Nm                    |
| Moment of inertia:             | 0.0165 kg m <sup>2</sup> |
| Motor efficiency at full load: | 71.7 %                   |
| Motor efficiency at 3/4 load:  | 69.6 %                   |
| Motor efficiency at 1/2 load:  | 63.9 %                   |
| Number of poles:               | 4                        |
| Start. method:                 | direct-on-line           |
| Enclosure class (IEC 34-5):    | IP68                     |
| Insulation class (IEC 85):     | F                        |
| Explosion proof:               | no                       |
| Motor protec:                  | THERMAL SWITCH           |
| Thermal protec:                | internal                 |
| Length of cable:               | 10 m                     |
| Cable type:                    | LYNIFLEX                 |
| Type of cable plug:            | NO PLUG                  |
| <b>Controls:</b>               |                          |



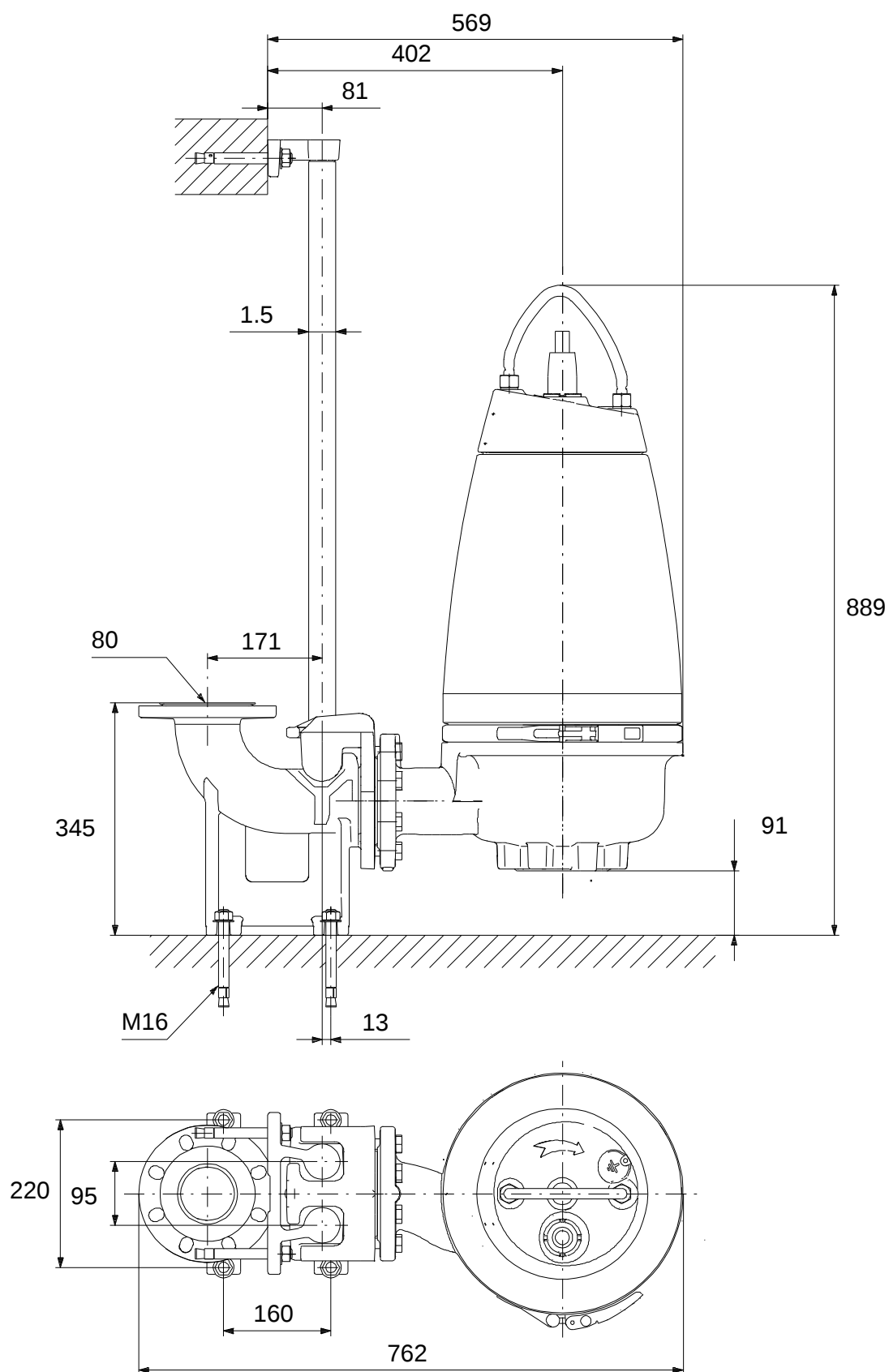
| Description          | Value                       |
|----------------------|-----------------------------|
| Control box:         | not included                |
| Moisture sensor:     | without moisture sensors    |
| Water-in-oil sensor: | without water-in-oil sensor |
| Temp. sensor:        | N                           |
| <b>Others:</b>       |                             |
| Net weight:          | 103 kg                      |

# On request SEV.80.80.13.4.50D.Q 50 Hz



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

On request SEV.80.80.13.4.50D.Q 50 Hz



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

On request SEV.80.80.13.4.50D.Q 50 Hz



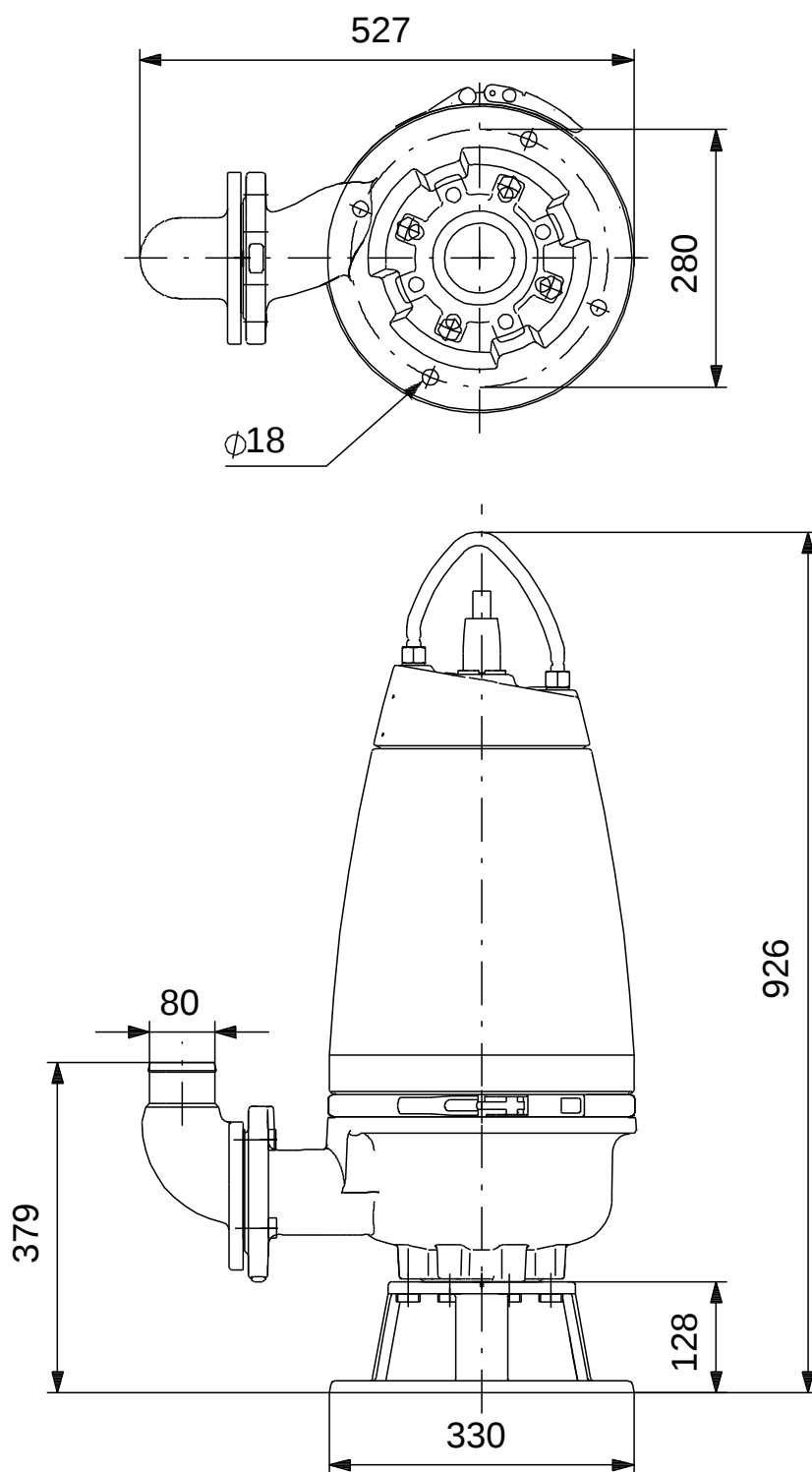
Note! All units are in [mm] unless others are stated.  
Disclaimer: This simplified dimensional drawing does not show all details.

On request SEV.80.80.13.4.50D.Q 50 Hz



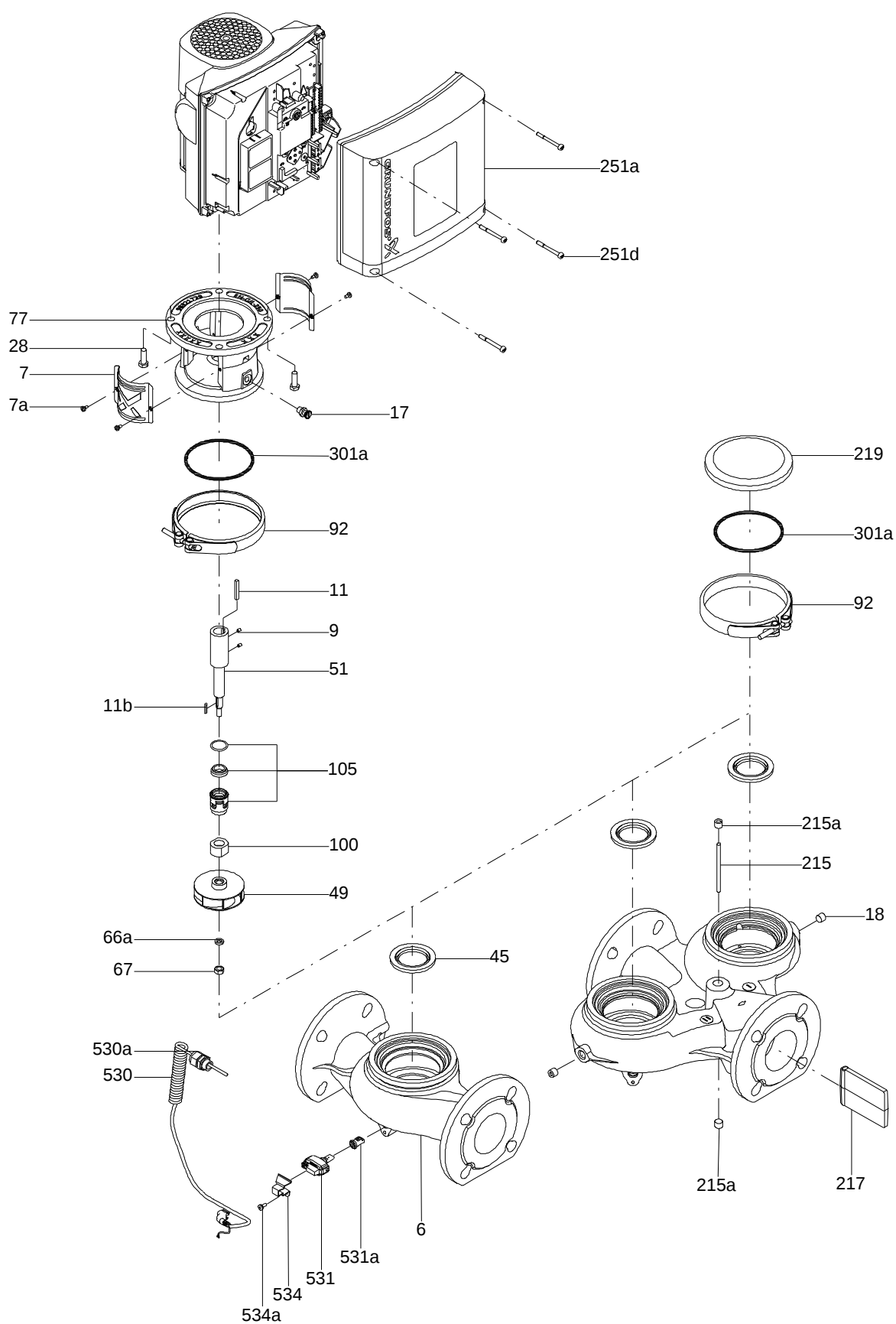
Note! All units are in [mm] unless others are stated.  
Disclaimer: This simplified dimensional drawing does not show all details.

On request SEV.80.80.13.4.50D.Q 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 SEV.80.80.13.4.50D.Q, Product No. On request**  
**Valid from 3.5.2004 (0419)**

| Pos   | Description                 | Annotation | Données de classification   | Référence | Quantité | Unité |
|-------|-----------------------------|------------|-----------------------------|-----------|----------|-------|
|       | Clamp                       |            |                             |           | 2        | pcs   |
|       | Pin connector               |            |                             |           | 1        | pcs   |
|       | Earth connector             |            |                             |           | 1        | pcs   |
|       | Thermotransfer foil         |            |                             |           | 0        | M     |
|       | Thermotransfer foil         |            |                             |           | 0        | M     |
| 6a    | Pin                         |            |                             |           | 1        | pcs   |
| 7a    | Rivet                       |            |                             |           | 4        | pcs   |
| 9a    | Parallel key                |            | Dimension: 5X5X16           |           | 1        | pcs   |
| 37    | O-ring                      |            | Diameter: 250               |           | 1        | pcs   |
|       |                             |            | Material type: NBR70        |           |          |       |
|       |                             |            | Thickness: 4                |           |          |       |
| 37a   | O-ring                      |            | Diameter: 285               |           | 2        | pcs   |
|       |                             |            | Material type: NBR70        |           |          |       |
|       |                             |            | Thickness: 4                |           |          |       |
| 37b   | O-ring                      |            | Diameter: 185               |           | 1        | pcs   |
|       |                             |            | Material type: NBR          |           |          |       |
|       |                             |            | Thickness: 4                |           |          |       |
| 48    | Stator                      |            |                             |           | 1        | pcs   |
| 49    | Impeller                    |            |                             |           | 1        | pcs   |
| 50    | Pump housing                |            |                             |           | 1        | pcs   |
| 55    | Stator housing              |            |                             |           | 1        | pcs   |
| 58    | Cover for oil chamber       |            |                             |           | 1        | pcs   |
| 59    | Bearing cover               |            |                             |           | 1        | pcs   |
| 60    | Bearing retainer            |            |                             |           | 1        | pcs   |
| 61    | Bearing retainer            |            |                             |           | 1        | pcs   |
| 66    | Washer                      |            | Internal diameter: 10.5     |           | 1        | pcs   |
|       |                             |            | Outer diameter: 25          |           |          |       |
|       |                             |            | Thickness: 3                |           |          |       |
| 76    | Nameplate                   |            |                             |           | 1        | pcs   |
| + 92  | Strap cpl.                  |            |                             |           | 1        | pcs   |
| 102   | Retaining ring              |            |                             |           | 1        | pcs   |
| - 105 | Shaft seal                  |            |                             |           | 1        | pcs   |
|       | Shaft seal                  |            |                             |           | 1        |       |
|       | Shaft seal                  |            |                             |           | 1        |       |
|       | Shaft seal                  |            |                             |           | 1        |       |
|       | Retaining ring              |            |                             |           | 1        |       |
|       | Shaft seal, rotating part   |            |                             |           | 1        |       |
|       | Shaft seal, rotating part   |            |                             |           | 1        |       |
|       | Shaft seal, stationary part |            |                             |           | 1        |       |
|       | Shaft seal, stationary part |            |                             |           | 1        |       |
| 106   | O-ring                      |            | Diameter: 50                |           | 2        |       |
|       |                             |            | Material type: NBR          |           |          |       |
|       |                             |            | Thickness: 3                |           |          |       |
| 107   | O-ring                      |            | Diameter: 110               |           | 1        | pcs   |
|       |                             |            | Material type: NBR70        |           |          |       |
|       |                             |            | Thickness: 3                |           |          |       |
| 108   | O-ring                      |            | Diameter: 80                |           | 1        | pcs   |
|       |                             |            | Material type: NBR70        |           |          |       |
|       |                             |            | Thickness: 3                |           |          |       |
| 109   | O-ring                      |            | Diameter: 80                |           | 1        | pcs   |
|       |                             |            | Material type: NBR70        |           |          |       |
|       |                             |            | Thickness: 3                |           |          |       |
| 150   | Motor sleeve                |            |                             |           | 1        | pcs   |
| 151   | Motor cover                 |            |                             |           | 1        | pcs   |
| 153   | Ball bearing                |            |                             |           | 1        | pcs   |
| 153b  | O-ring                      |            |                             |           | 1        | pcs   |
| 154   | Ball bearing                |            | Designation: 6304.2Z.C3.SYN |           | 1        | pcs   |
| 155   | Flange                      |            |                             |           | 1        | pcs   |
| 157   | Waved washer                |            |                             |           | 1        | pcs   |

| Pos   | Description               | Annotation | Données de classification | Référence | Quantité | Unité |
|-------|---------------------------|------------|---------------------------|-----------|----------|-------|
| 158   | Waved washer              |            |                           |           | 1        | pcs   |
| 159   | O-ring                    |            | Diameter: 34              |           | 1        | pcs   |
|       |                           |            | Material type: NBR70      |           |          |       |
|       |                           |            | Thickness: 4              |           |          |       |
| 172   | Shaft w/rotor             |            |                           |           | 1        | pcs   |
| 174a  | Lock washer               |            |                           |           | 1        | pcs   |
| 177   | Plug protector            |            |                           |           | 1        | pcs   |
| 177   | Hex socket head cap screw |            |                           |           | 1        | pcs   |
| - 181 | Cable cpl.                |            |                           |           | 1        | pcs   |
| 198   | O-ring                    |            | Diameter: 34.2            |           | 1        |       |
|       |                           |            | Material type: NBR        |           |          |       |
|       |                           |            | Thickness: 3              |           |          |       |
| 183   | Hex socket head cap screw |            | Length (mm): 40           |           | 1        | pcs   |
|       |                           |            | Thread: M24               |           |          |       |
| 183a  | Washer                    |            | Internal diameter: 26     |           | 1        | pcs   |
|       |                           |            | Outer diameter: 34        |           |          |       |
|       |                           |            | Thickness: 2              |           |          |       |
| 184   | Hex socket head cap screw |            | Designation: DIN 912      |           | 6        | pcs   |
|       |                           |            | Length (mm): 40           |           |          |       |
|       |                           |            | Thread: M10               |           |          |       |
| 184a  | Washer                    |            | Internal diameter: 10.5   |           | 6        | pcs   |
|       |                           |            | Outer diameter: 18        |           |          |       |
|       |                           |            | Thickness: 1.6            |           |          |       |
| 186   | Hex socket head cap screw |            |                           |           | 2        | pcs   |
| 187   | Hex socket head cap screw |            |                           |           | 4        | pcs   |
| 188   | Hex socket head cap screw |            |                           |           | 4        | pcs   |
| 188a  | Hex socket head cap screw |            | Designation: DIN 912      |           | 1        | pcs   |
|       |                           |            | Length (mm): 25           |           |          |       |
|       |                           |            | Thread: M10               |           |          |       |
| 190   | Lifting bracket           |            |                           |           | 1        | pcs   |
| 190a  | Rubber bush               |            |                           |           | 2        | pcs   |
| 192   | Cooling paste             |            |                           |           | 12       | G     |
| 193   | Hex socket head cap screw |            | Designation: A2-70        |           | 2        | pcs   |
|       |                           |            | Length (mm): 20           |           |          |       |
|       |                           |            | Thread: M12               |           |          |       |
| 193a  | Oil                       |            |                           |           | 0        | L     |
| 194   | Washer                    |            | Internal diameter: 19     |           | 2        | pcs   |
|       |                           |            | Outer diameter: 12.2      |           |          |       |
|       |                           |            | Thickness: 4.4            |           |          |       |
| 1031  | Connector pin             |            |                           |           | 6        | 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.*



[info@lenntech.com](mailto:info@lenntech.com)

<https://www.lenntech.com>

tel. +31 152 610 900

fax. +31 152 616 289