

## MSS.11.1.2 1x230V 10m w/o NRV Grundfos pump 97901062



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<https://www.lenntech.com/grundfos/MULSING/97901062/MSS-11-1-2.html>

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

tel. +31 152 610 900

fax. +31 152 616 289

| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | 1    | <p><b>MSS.11.1.2</b></p>  <p><b>Note! Product picture may differ from actual product</b></p> <p>Product No.: On request</p> <p>Supplied as complete unit ready for installation, the Multilift consist of a fully integrated collecting tank with pump and submersible motor, adapter for non-return valve, discharge adapter with flexible connection piece DN100 mounted on the collecting tank and a pre-wired Controller incl. a level sensor.</p> <p>The fully integrated collecting tank has all necessary ports for the connection of inlet pipe in heights of 180mm and 250mm, vent pipe DN50 and a manually operated diaphragm pump (accessory).</p> <p>The collecting tank contains 7 inlet sockets around it's shape. Back inlets 2x DN100 with one socket seal, socket for inlet at the sides 2 x DN100, top inlet DN100. 2x DN50 on top and side.</p> <p>Multilift corrosion free polyethylen collecting tanks are gas- and odour-proof as well as watertight , reduction of residual water and less sedimentation by chamfered bottom design.</p> <p>The pump with Vortex impeller and a maintenance free submersible motor, oil chamber with physiological harmless oil filling between two shaft seals. Motor protection via motor-protective circuit breaker inside pump head.</p> <p>LC220 controller with microprocessor is equipped with LED for all monitoring necessities. The pump and sensor are connected to the controller with 4m or 10m cable and tube length. The power supply cable is 1,5m with plug (incl. phase inverter for 3 phase motor)</p> <p>Contactless, piezo resistive pressure sensor pluggable inside the cabinet, monitored by controller. Blockage free pressure tube inside the tank without movable parts inside wastewater.</p> <p>The controller offer monitoring of pump operation.</p> <p>Controller functions:</p> <ul style="list-style-type: none"> <li>• on/off control of one wastewater pump based on a continuous signal from a piezo-resistive sensor</li> <li>• dry running motor protection via run-time limitation with a following emergency operation</li> <li>• 24h automatic test runs during long periods of inactivity</li> <li>• operating indication: <ul style="list-style-type: none"> <li>- pump status (running, fault)</li> <li>- time for service/maintenance once a year</li> </ul> </li> </ul> <p>(selectable on/off by DIP switch)</p> <ul style="list-style-type: none"> <li>• fault indication: <ul style="list-style-type: none"> <li>- phase-sequence fault and missing phase at 3ph. motors</li> <li>- high-water alarm</li> <li>- sensor fault</li> <li>- external alarm-switch (only alarm)</li> <li>- potential free contact for common alarm</li> </ul> </li> <li>• automatic or manual alarm resetting</li> </ul> <p>(selectable by DIP switch)</p> <ul style="list-style-type: none"> <li>• easy selection of start level 180 or 250mm</li> </ul> <p>(selectable by DIP switch)</p> |

One additional input to connect a separate level switch to be used for flood detection outside the Multilift (external alarm). Lifting stations are often installed in a sump inside the basement at the lowest point in the building. In case of e.g. groundwater inflow or water pipe burst, an alarm will be indicated by the controller.

The Multilift range is designed due to the standard EN12050-1, approved and monitored by external institute LGA. Further approvals are VDE, GHOST, CB, EMV

**Technical:**

|                             |        |
|-----------------------------|--------|
| Type of impeller:           | VORTEX |
| Maximum particle size:      | 40 mm  |
| CE approved (Yes/No):       | Y      |
| EN number for LGA approval: | Y      |
| Valve type:                 | NONE   |

**Materials:**

|               |           |
|---------------|-----------|
| Pump housing: | Composite |
| Tank:         | LDPE      |
| Gasket:       | NBR       |

**Liquid:**

|                             |                         |
|-----------------------------|-------------------------|
| Maximum liquid temperature: | 40 °C                   |
| Density:                    | 998.2 kg/m <sup>3</sup> |

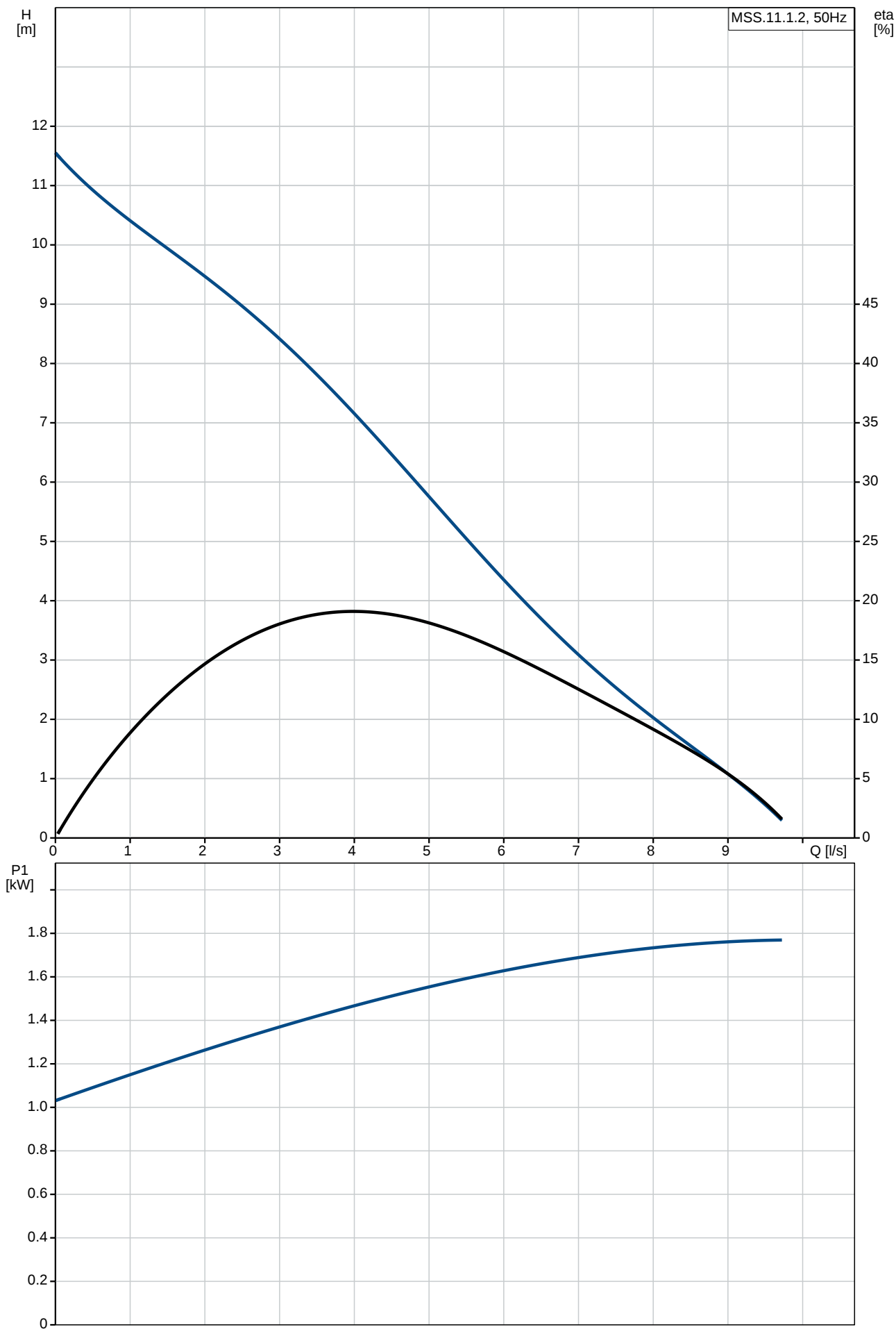
**Electrical data:**

|                             |                |
|-----------------------------|----------------|
| Power input - P1:           | 1.7 kW         |
| Rated power - P2:           | 1.1 kW         |
| Mains frequency:            | 50 Hz          |
| Rated voltage:              | 1 x 230 V      |
| Voltage tolerance:          | +10/-6 %       |
| Max starts per. hour:       | 60             |
| Rated current:              | 8 A            |
| Cos phi - power factor:     | 0.95           |
| Rated speed:                | 2760 rpm       |
| Number of poles:            | 2              |
| Start. method:              | direct-on-line |
| Enclosure class (IEC 34-5): | IP68           |
| Insulation class (IEC 85):  | F              |
| Type of cable plug:         | SCHUKO         |
| Mains cable:                | 1.5 m          |

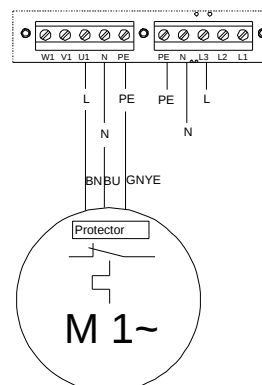
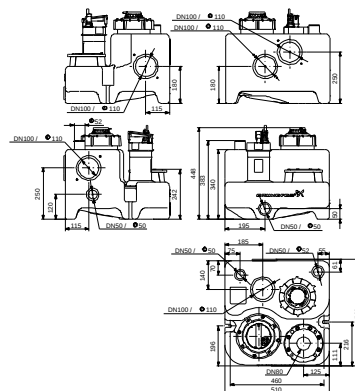
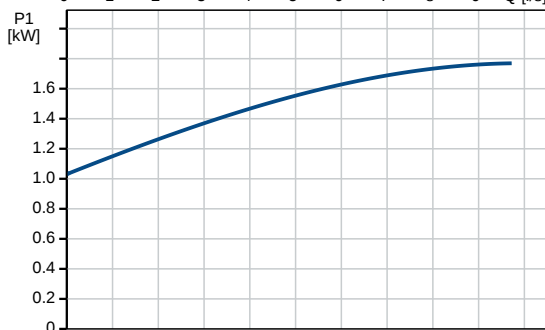
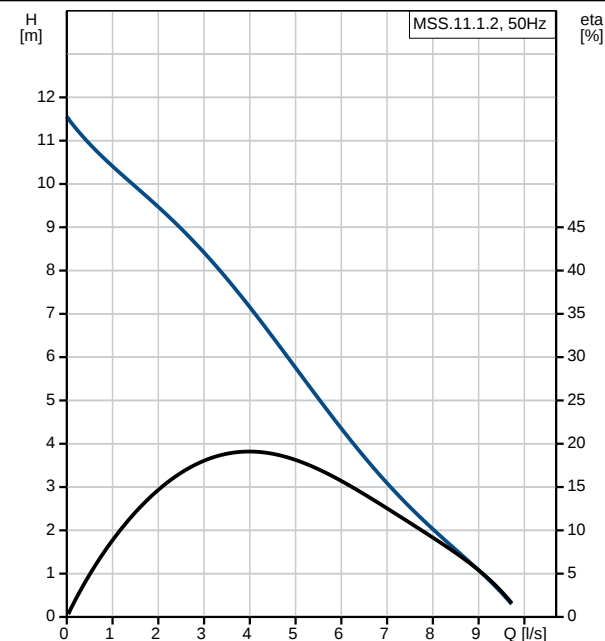
**Tank:**

|                                                            |      |
|------------------------------------------------------------|------|
| Total volume of tank(s):                                   | 44 l |
| Total effective volume of collecting tank at 180 mm inlet: | 20 l |
| Total effective volume of collecting tank at 250 mm inlet: | 28 l |

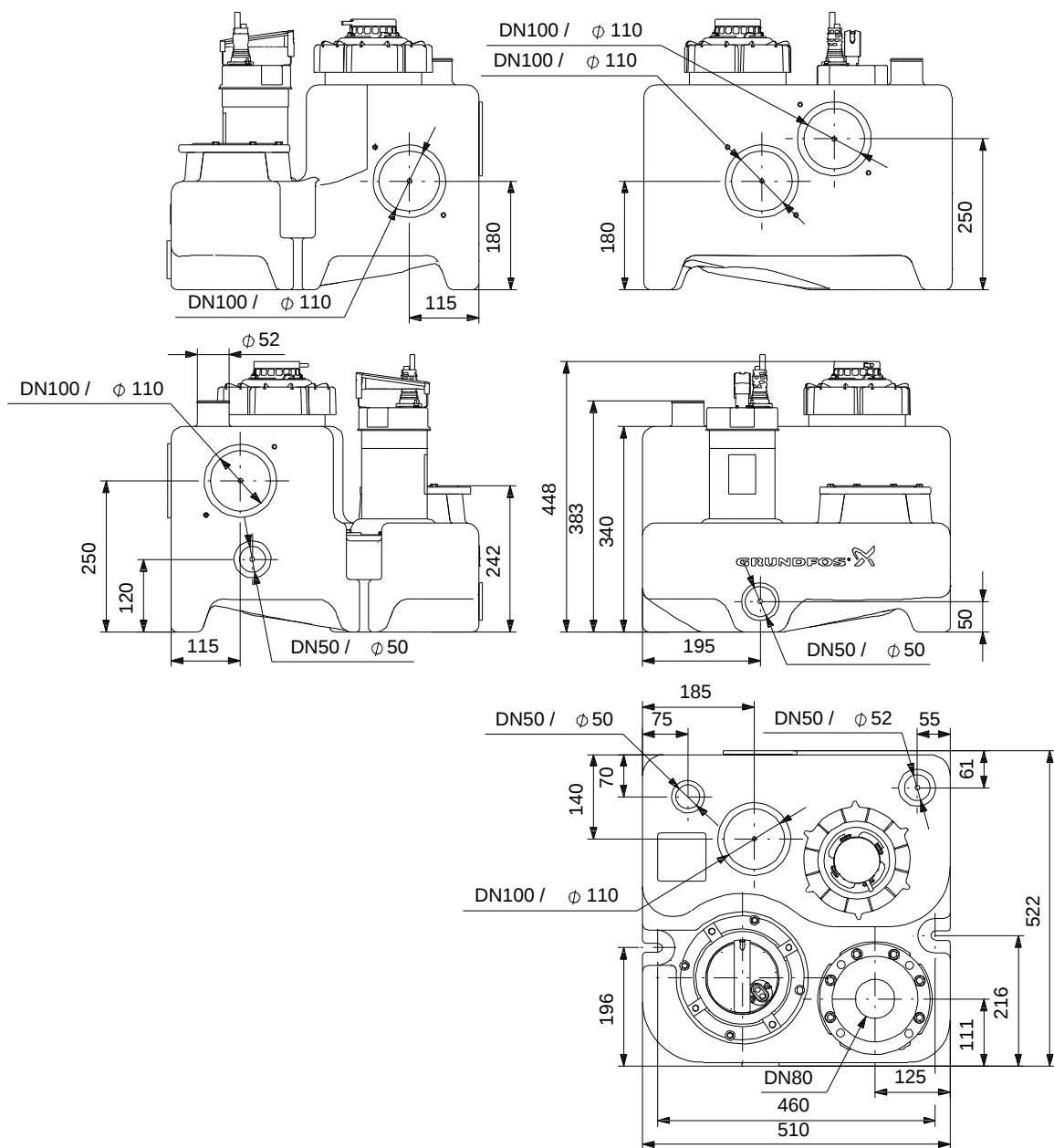
On request MSS.11.1.2 50 Hz



| Description                                                | Value                   |
|------------------------------------------------------------|-------------------------|
| <b>General information:</b>                                |                         |
| Product name:                                              | MSS.11.1.2              |
| Product No:                                                | On request              |
| EAN number:                                                | On request              |
| <b>Technical:</b>                                          |                         |
| Max flow:                                                  | 8.61 l/s                |
| Head max:                                                  | 10.4 m                  |
| Type of impeller:                                          | VORTEX                  |
| Maximum particle size:                                     | 40 mm                   |
| CE approved (Yes/No):                                      | Y                       |
| EN number for LGA approval:                                | Y                       |
| Valve type:                                                | NONE                    |
| <b>Materials:</b>                                          |                         |
| Pump housing:                                              | Composite               |
| Tank:                                                      | LDPE                    |
| Gasket:                                                    | NBR                     |
| <b>Liquid:</b>                                             |                         |
| Maximum liquid temperature:                                | 40 °C                   |
| Density:                                                   | 998.2 kg/m <sup>3</sup> |
| <b>Electrical data:</b>                                    |                         |
| Power input - P1:                                          | 1.7 kW                  |
| Rated power - P2:                                          | 1.1 kW                  |
| Mains frequency:                                           | 50 Hz                   |
| Rated voltage:                                             | 1 x 230 V               |
| Voltage tolerance:                                         | +10/-6 %                |
| Max starts per. hour:                                      | 60                      |
| Rated current:                                             | 8 A                     |
| Cos phi - power factor:                                    | 0.95                    |
| Rated speed:                                               | 2760 rpm                |
| Number of poles:                                           | 2                       |
| Start. method:                                             | direct-on-line          |
| Enclosure class (IEC 34-5):                                | IP68                    |
| Insulation class (IEC 85):                                 | F                       |
| Motor protec:                                              | KLIXON                  |
| Motor cable:                                               | 10 m                    |
| Cable type:                                                | H07RN-F                 |
| Type of cable plug:                                        | SCHUKO                  |
| Mains cable:                                               | 1.5 m                   |
|                                                            | H05VV-F                 |
| <b>Controls:</b>                                           |                         |
| Operation mode:                                            | S3-10%, 1 MIN.          |
| <b>Tank:</b>                                               |                         |
| Total volume of tank(s):                                   | 44 l                    |
| Total effective volume of collecting tank at 180 mm inlet: | 20 l                    |
| Total effective volume of collecting tank at 250 mm inlet: | 28 l                    |

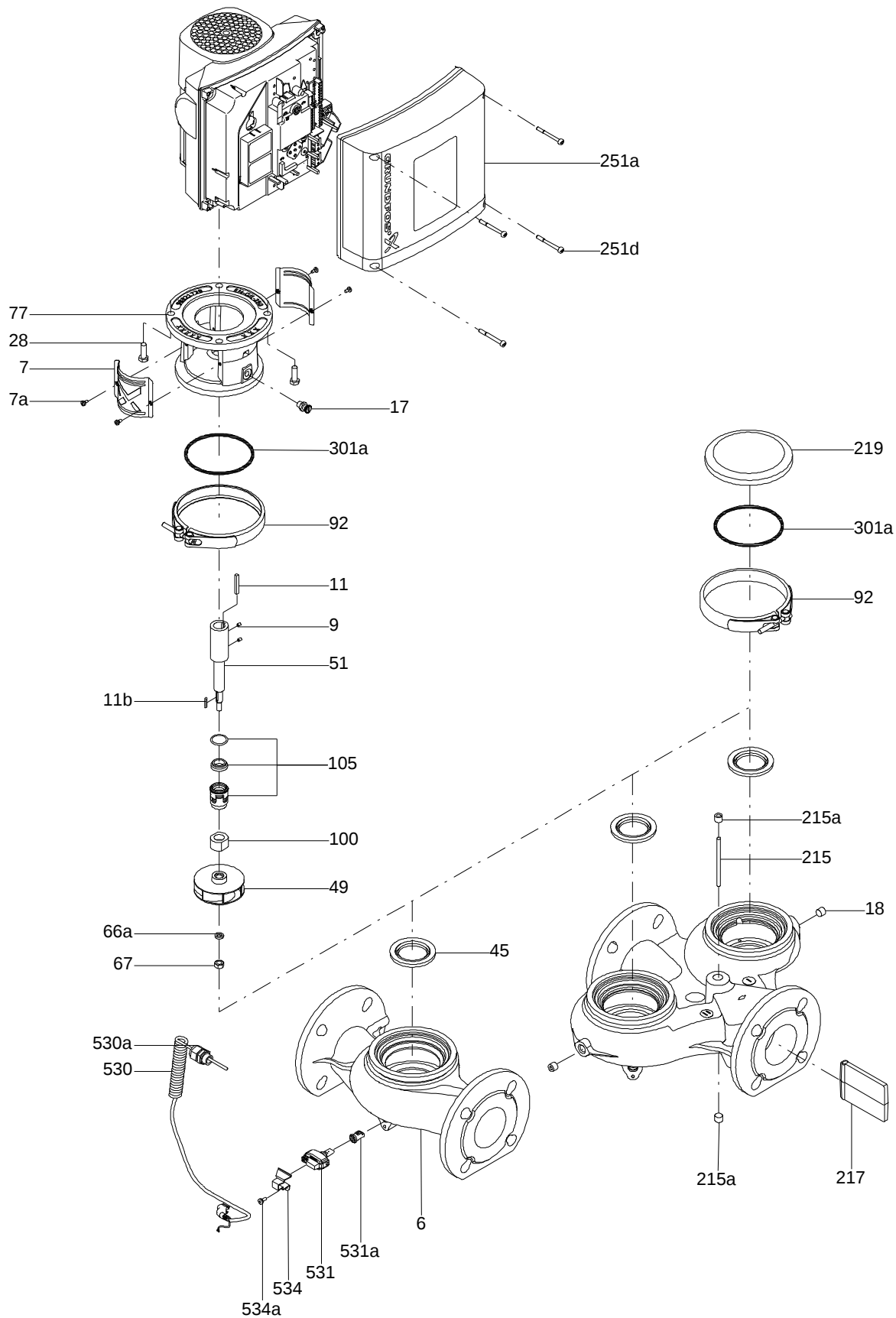


## On request MSS.11.1.2 50 Hz



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 )



*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