

## DW.100.39.A3 3X400V 20M, Grundfos pump 96090257



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<https://www.lenntech.com/grundfos/DW000/96090257/DW-100-39-A3.html>

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

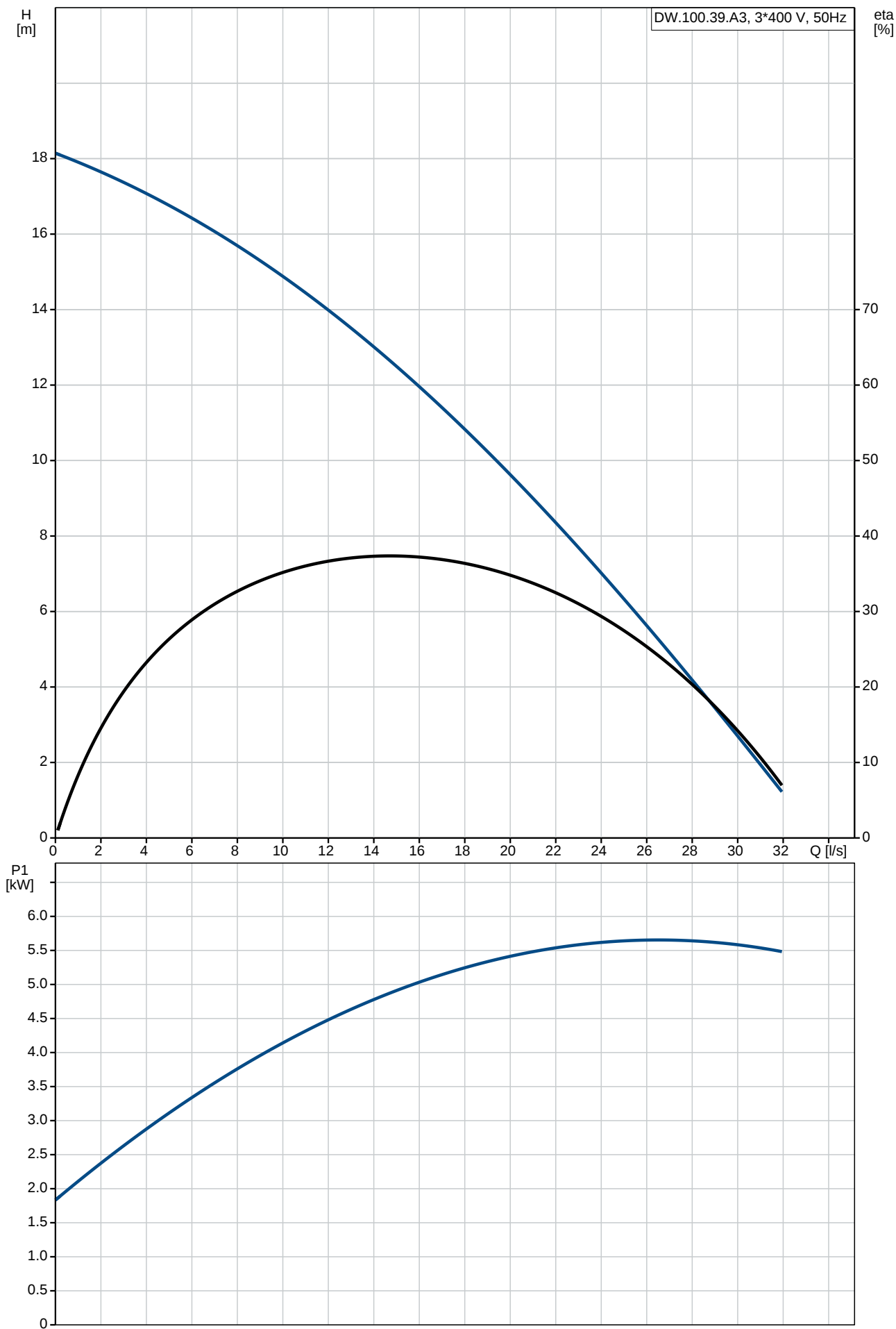
tel. +31 152 610 900

fax. +31 152 616 289

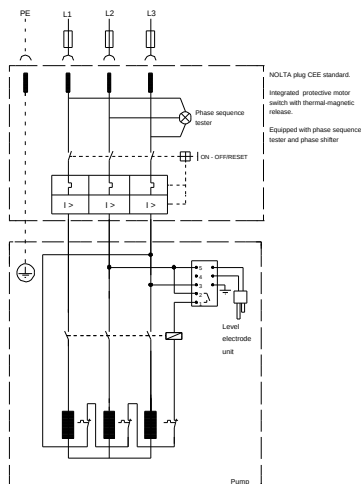
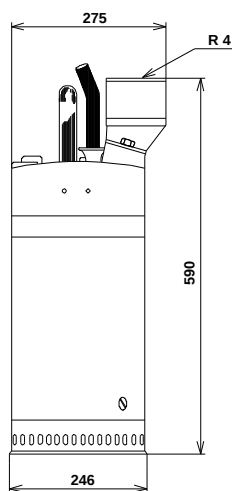
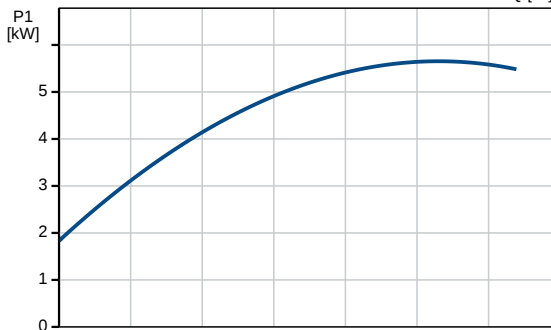
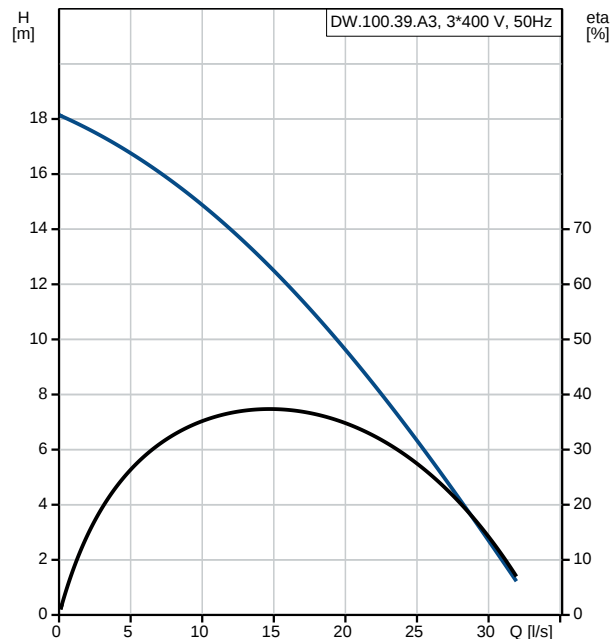
| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | 1    | <p><b>DW.100.39.A3</b></p>  <p><b>Note! Product picture may differ from actual product</b></p> <p>Product No.: On request<br/>Submersible contractor pump.</p> <p>Submersible pump for dewatering in mines, tunnels, quarries and construction sites with vertical discharge port and integrated submersible 3-phase totally enclosed motor in insulation class F (155°C).</p> <p>Automatic level control is integrated in the top cover. The pump starts/stops by means of two electrodes monitoring the water level.</p> <p>The pump has a riser pipe, a cooling jacket for continuous cooling of the motor by the pumped liquid and long-life, deep-groove greased-for-life ball bearings. The pump has a double mechanical seal.</p> <p>The impeller is fitted between rubber parts. A rubber-coated backplate above the impeller protects the bottom of the oil chamber against wear. A rubber liner protects against wear inside the cooling jacket. When the diffuser becomes worn, it is easily adjusted against the impeller by means of the staybolts to maintain the high performance.</p> <p>The pump is fitted with suction strainer, lifting handle and a 20 m mains cable.</p> <p>The motor has thermal overload switches in the stator windings breaking at 130°C.</p> <p>Stator housing and cooling jacket of aluminium according to DIN 1712:GA15:10Mg.</p> <p><b>Liquid:</b><br/>Liquid temperature range: 0 .. 40 °C<br/>Density: 998.2 kg/m³</p> <p><b>Technical:</b><br/>Curve tolerance: ISO9906:2012 3B</p> <p><b>Materials:</b><br/>Pump housing: Aluminium<br/>Impeller: High-chromium abrasion resistant cast iron HV600</p> <p><b>Installation:</b><br/>Pump outlet: R 4 / Storz<br/>Maximum installation depth: 17 m</p> <p><b>Electrical data:</b><br/>Power input - P1: 5.6 kW<br/>Mains frequency: 50 Hz</p> |

| Position | Qty. | Description                                                                                                                                                                                                                                                                                                          |
|----------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |      | <p>Rated voltage: 3 x 400 V</p> <p>Rated current: 8.6 A</p> <p>Rated speed: 2800 rpm</p> <p>Start. method: direct-on-line</p> <p>Enclosure class (IEC 34-5): IP68</p> <p>Insulation class (IEC 85): F</p> <p>Length of cable: 20 m</p> <p>Type of cable plug: CEE</p> <p><b>Others:</b></p> <p>Net weight: 36 kg</p> |

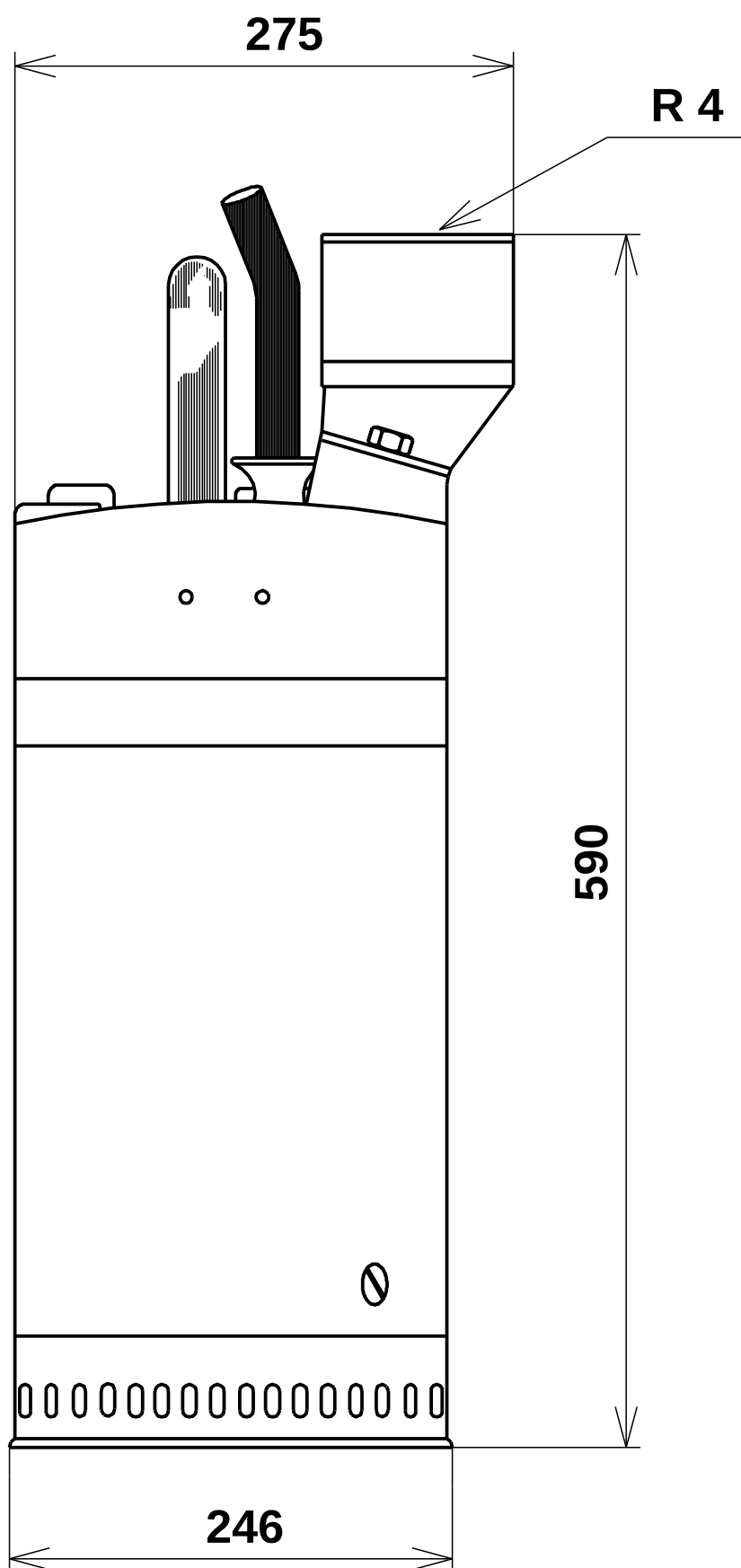
On request DW.100.39.A3 50 Hz



| Description                 | Value                                            |
|-----------------------------|--------------------------------------------------|
| <b>General information:</b> |                                                  |
| Product name:               | DW.100.39.A3                                     |
| Product No:                 | On request                                       |
| EAN number:                 | On request                                       |
| <b>Technical:</b>           |                                                  |
| Max flow:                   | 31.9 l/s                                         |
| Head max:                   | 18.1 m                                           |
| Curve tolerance:            | ISO9906:2012 3B                                  |
| <b>Materials:</b>           |                                                  |
| Pump housing:               | Aluminium                                        |
| Impeller:                   | High-chromium abrasion resistant cast iron HV600 |
| <b>Installation:</b>        |                                                  |
| Pump outlet:                | R 4 / Storz                                      |
| Maximum installation depth: | 17 m                                             |
| Inst dry/wet:               | S                                                |
| Installation:               | 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:           | 5.6 kW                                           |
| P2:                         | 3.9 kW                                           |
| Mains frequency:            | 50 Hz                                            |
| Rated voltage:              | 3 x 400 V                                        |
| Rated current:              | 8.6 A                                            |
| Rated speed:                | 2800 rpm                                         |
| Start. method:              | direct-on-line                                   |
| Enclosure class (IEC 34-5): | IP68                                             |
| Insulation class (IEC 85):  | F                                                |
| Motor protec:               | CONTACT                                          |
| Thermal protec:             | internal                                         |
| Length of cable:            | 20 m                                             |
| Type of cable plug:         | CEE                                              |
| <b>Controls:</b>            |                                                  |
| Level switch:               | integrated level control                         |
| <b>Others:</b>              |                                                  |
| Net weight:                 | 36 kg                                            |



On request DW.100.39.A3 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 DW.100.39.A3, Product No. On request**  
**Valid from 29.3.2010 (1013)**

| Pos   | Description                   | Annotation | Données de classification | Référence | Quantité | Unité |
|-------|-------------------------------|------------|---------------------------|-----------|----------|-------|
| -     | Oil housing cover             |            |                           |           | 1        | pcs   |
| 33    | Cover                         |            |                           |           | 1        |       |
| 6     | Washer                        |            | Internal diameter: 10.5   |           | 2        | pcs   |
|       |                               |            | Outer diameter: 18        |           |          |       |
|       |                               |            | Thickness: 1.6            |           |          |       |
| 6     | Washer                        |            | Internal diameter: 10.5   |           | 3        | pcs   |
|       |                               |            | Outer diameter: 18        |           |          |       |
|       |                               |            | Thickness: 1.6            |           |          |       |
| 6     | Washer                        |            | Internal diameter: 10.5   |           | 3        | pcs   |
|       |                               |            | Outer diameter: 18        |           |          |       |
|       |                               |            | Thickness: 1.6            |           |          |       |
| 14    | Hex socket head cap screw     |            |                           |           | 1        | pcs   |
| 16    | O-ring                        |            |                           |           | 2        | pcs   |
| 16    | O-ring                        |            | Diameter: 34.2            |           | 1        | pcs   |
|       |                               |            | Material type: NBR        |           |          |       |
|       |                               |            | Thickness: 3              |           |          |       |
| 26    | Pan head thread forming screw |            |                           |           | 5        | pcs   |
| 32    | O-ring                        |            |                           |           | 1        | pcs   |
| 43    | Ball bearing                  |            |                           |           | 1        | pcs   |
| 43    | Ball bearing                  |            |                           |           | 1        | pcs   |
| 45    | Seal ring                     |            |                           |           | 3        | pcs   |
| 46    | Hex socket head cap screw     |            | Length (mm): 14           |           | 1        | pcs   |
|       |                               |            | Thread: M12               |           |          |       |
| 54    | Ball bearing                  |            |                           |           | 1        | pcs   |
| 54    | Ball bearing                  |            |                           |           | 1        | pcs   |
| 65    | Hex socket head cap screw     |            |                           |           | 3        | pcs   |
| 91    | Main switch contactor         |            |                           |           | 1        | pcs   |
| 96    | Plug                          |            |                           |           | 1        | pcs   |
| 97    | Socket pan head screw         |            |                           |           | 3        | pcs   |
| 98    | Bearing housing               |            |                           |           | 1        | pcs   |
| 104   | Base plate                    |            |                           |           | 1        | pcs   |
| 107   | O-ring                        |            | Diameter: 134.5           |           | 1        | pcs   |
|       |                               |            | Material type: NBR        |           |          |       |
|       |                               |            | Thickness: 3              |           |          |       |
| 107   | O-ring                        |            | Diameter: 134.5           |           | 1        | pcs   |
|       |                               |            | Material type: NBR        |           |          |       |
|       |                               |            | Thickness: 3              |           |          |       |
| 115   | Rubber bush                   |            |                           |           | 3        | pcs   |
| - 154 | Kit, stator w/housing         |            |                           |           | 1        | pcs   |
| 47    | Motor housing                 |            |                           |           | 1        |       |
| 48    | Stator                        |            |                           |           | 1        |       |
| 187   | Hex socket head cap screw     |            |                           |           | 3        | 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