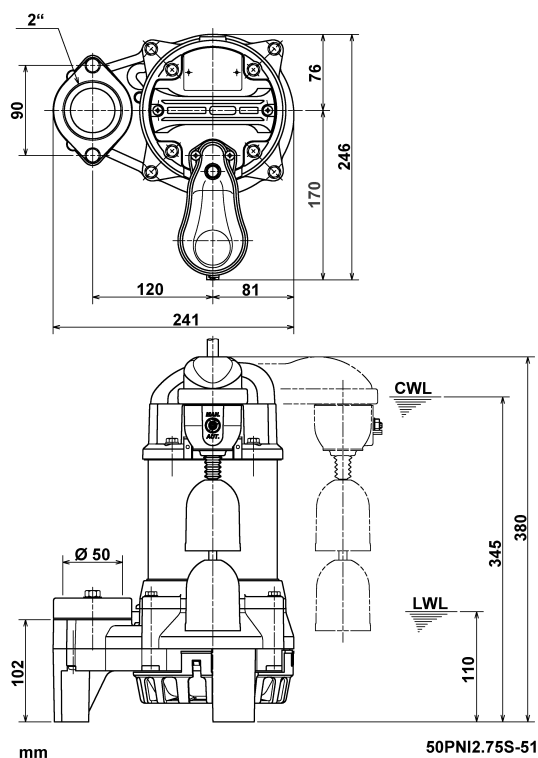
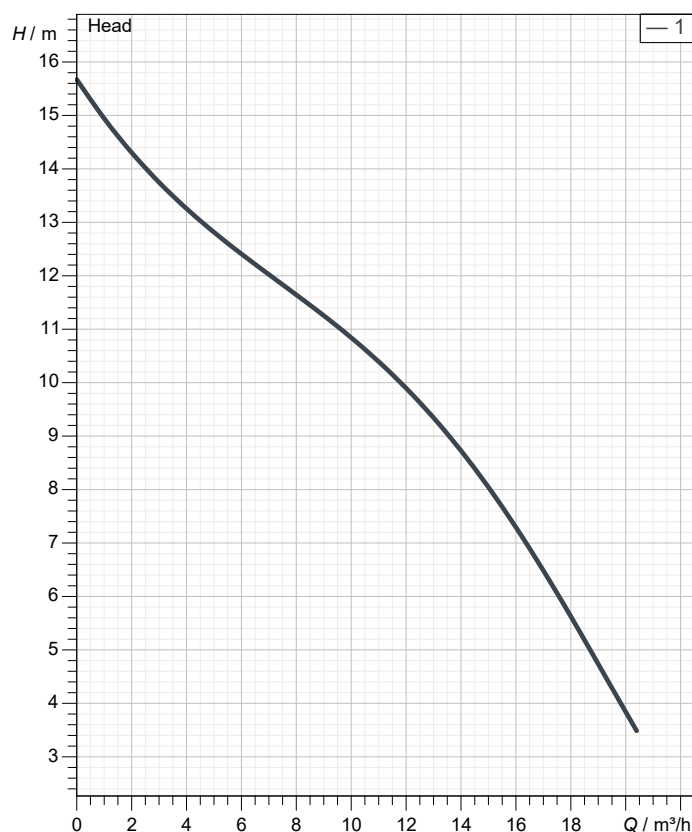


# Data sheet 50PNI2.75S-51



CWL: Continuous running water level  
LWL: Lowest running water level



## Specification

Electric submersible pump PNI-series  
Degree of protection IP 68  
Pressure resistance max. 10 m  
Type of impeller Vortex impeller  
Free passage 10 mm  
Suitable for:  
sewage water, waste water, various waste water

## Electric motor

Dry-type submersible induction motor  
Insulation class E 2Poles 2796 1/min  
Starting mode  
Rated voltage 230 V 50 Hz 1~  
Power uptake 1.14 kW  
Rated power 0.75 kW  
Rated current 5.2 A  
Start current 15.9 A

## Cable

10m H07RN8-F 3Cx1mm²

## Motor Protection

Circle thermal protector  
(snap-action bi-metal device)

## Shaft seal

Double inside mechanical seal in oil bath  
additional lubrication by oil lifting device  
Primary seal  
Silicon carbide on ceramic  
Secondary seal  
Ceramic on carbon

## Bearings

Shielded ball bearings, maintenance-free

## Materials

|             |                         |
|-------------|-------------------------|
| Impeller    | PPO-GF20                |
| Motor Frame | SUS304 (EN-X5CrNi18-10) |
| Shaft       | SUS403 (EN-X6Cr13)      |

## Discharge size

50mm screwed-in mating flange

## Weight

9.5 kg (dry weight of the pump only without cable)

# Performance curve

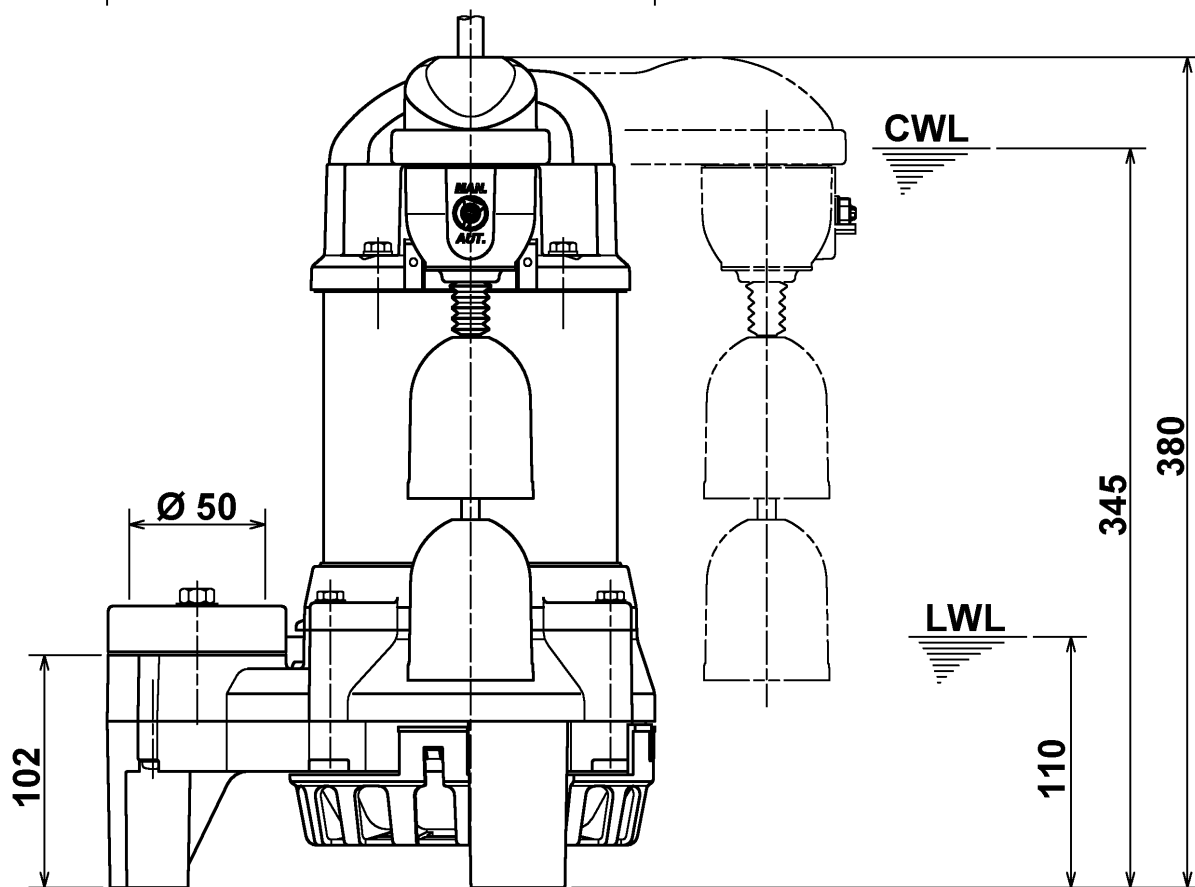
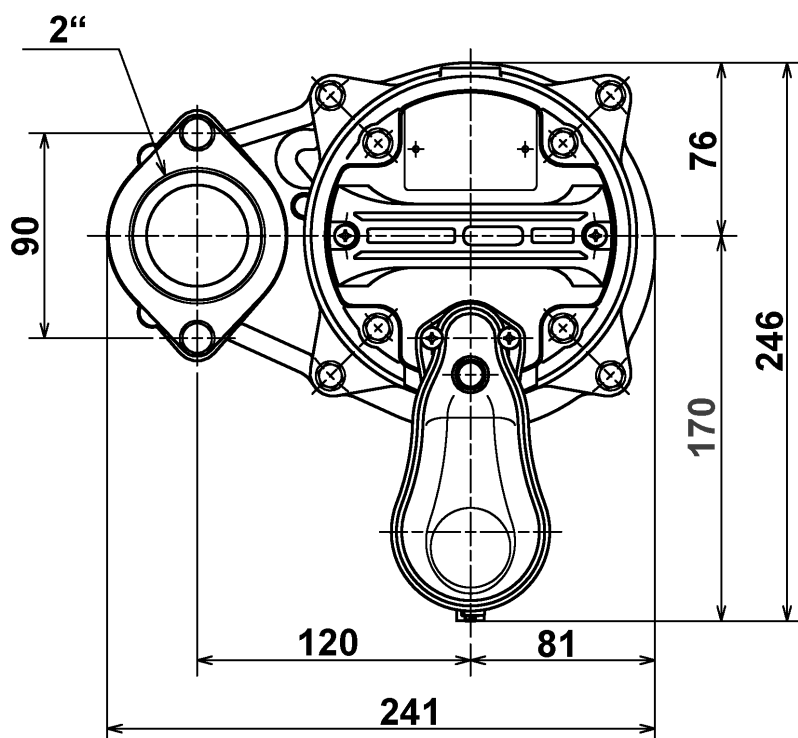
## 50PNI2.75S-51

|                  |            |
|------------------|------------|
| Discharge port   | 2"         |
| Head             | 15.7 m     |
| Flow             | 20.4 m³/h  |
| Rated power      | 0.75 kW    |
| Power input      | 1.14 kW    |
| Phases           | 1~         |
| Voltages         | 230 V      |
| Frequency        | 50 Hz      |
| Rated current    | 5.2 A      |
| Starting current | 15.91 A    |
| Number of poles  | 2          |
| Speed            | 2796 1/min |
| Starting mode    |            |
| Insulation class | E          |



# Dimensions

## 50PNI2.75S-51



mm

50PNI2.75S-51

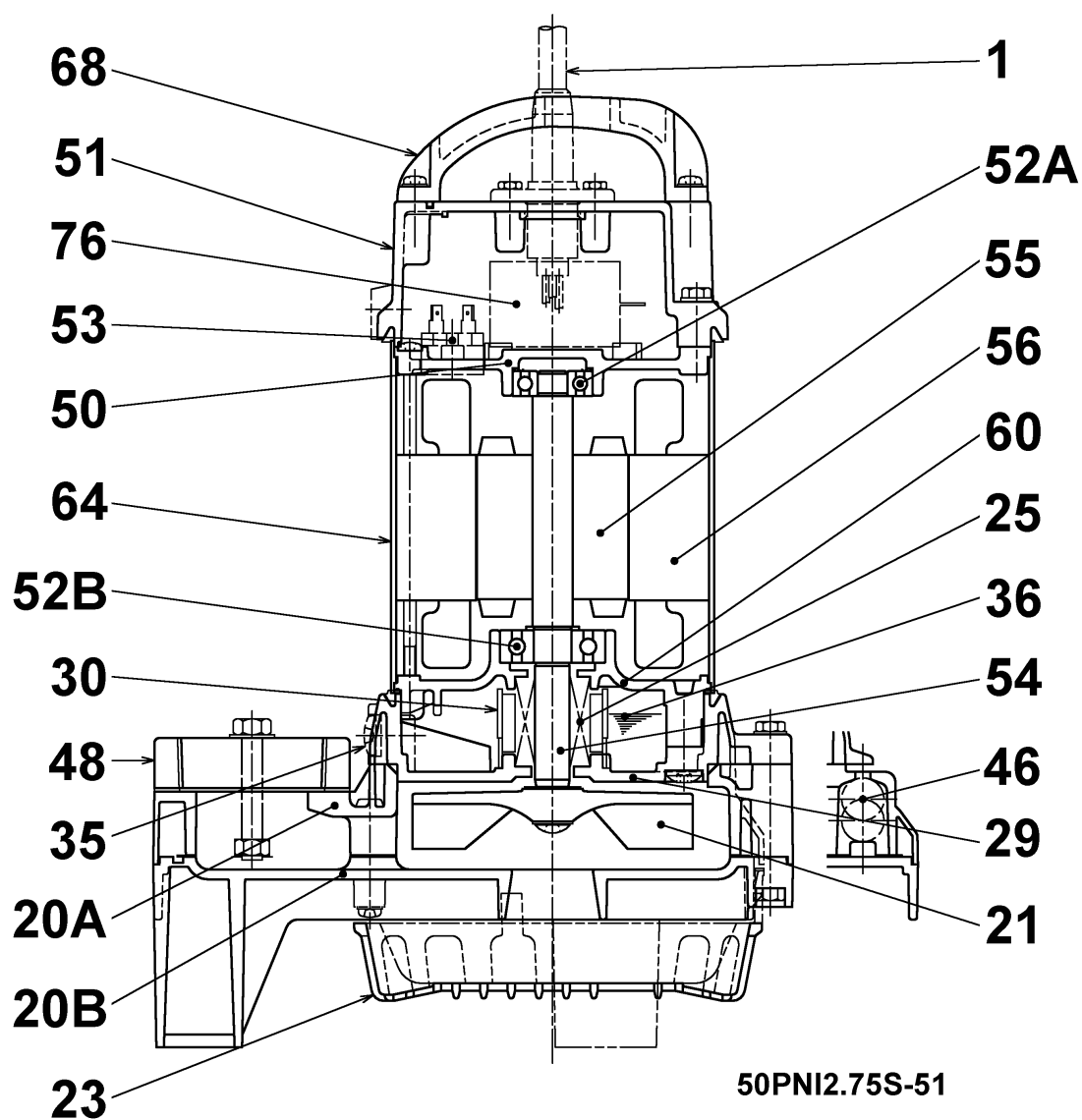
CWL: Continuous running water level  
LWL: Lowest running water level

**TSURUMI PUMP**

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# Sectional drawing 50PNI2.75S-51



| No. | Description       | Remark                  | No. | Description     | Remark                  |
|-----|-------------------|-------------------------|-----|-----------------|-------------------------|
| 1   | Cable             | H07RN8-F                | 53  | TThermoschalter | .                       |
| 20A | Upper Pump casing | ABS-GF20                | 54  | Shaft           | SUS403 (EN-X6Cr13)      |
| 20B | Lower Pump casing | ABS                     | 55  | Rotor           | .                       |
| 21  | Impeller          | PPO-GF20                | 56  | Stator          | .                       |
| 23  | Strainer          | ABS                     | 60  | Bearing Housing | Aluminium die casting   |
| 25  | Mechanical seal   | W-14HL                  | 64  | Motor Frame     | SUS304 (EN-X5CrNi18-10) |
| 29  | Oil casing        | PPS-(GF+MD)50           | 68  | Carrier handle  | ABS                     |
| 30  | Oil distributor   | Plastic                 | 76  | Condenser       | .                       |
| 35  | Oil screw         | SUS304 (EN-X5CrNi18-10) |     |                 |                         |
| 36  | Lubricant         | white oil (ISO VG32)    |     |                 |                         |
| 46  | Air vent valve    | Glass bead              |     |                 |                         |
| 48  | Screwed Flange    | PC(PBT-GF30)            |     |                 |                         |
| 50  | Motor cover       | Aluminium die casting   |     |                 |                         |
| 51  | Main cover        | ABS-GF20                |     |                 |                         |
| 52A | Upper bearing     | 6201ZZC3                |     |                 |                         |
| 52B | Lower bearing     | 6302ZZC3                |     |                 |                         |