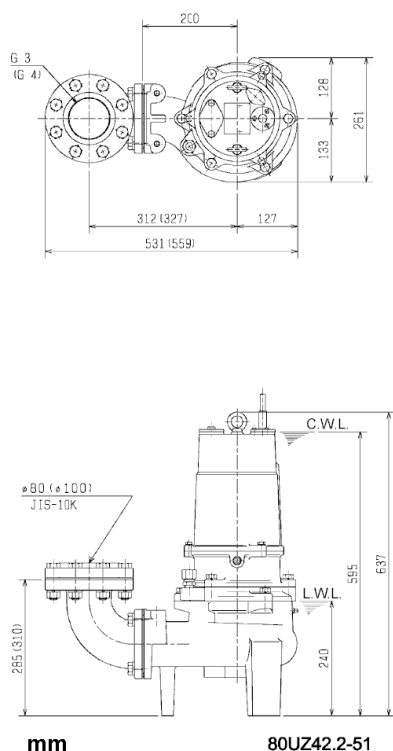
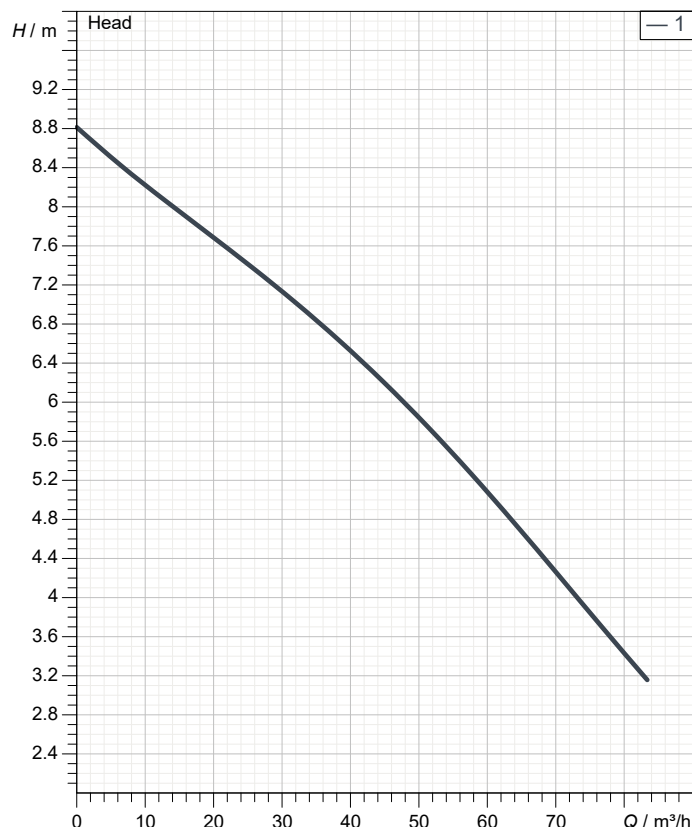


# Data sheet 80UZ42.2-51



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



## Specification

Electric submersible pump UZ-series  
Degree of protection IP 68  
Pressure resistance max. 15 m  
Type of impeller Vortex impeller  
Free passage 80 mm  
Suitable for:  
waste water and liquid carrying

## Electric motor

Dry-type submersible induction motor  
Insulation class E 4 Poles 1420 1/min  
Starting mode Direct starting  
Rated voltage 400 V 50 Hz 3~  
Power uptake 2.85 kW  
Rated power 2.20 kW  
Rated current 5 A  
Start current 32.0 A

## Cable

10m NSSHÖU 4Cx1,5mm²

## 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 silicon carbide  
Secondary seal  
Silicon carbide on silicon carbide

## Bearings

Shielded ball bearings, maintenance-free

## Materials

|             |                       |
|-------------|-----------------------|
| Impeller    | FC200 (EN-GJL-200)    |
| Pump casing | FC200 (EN-GJL-200)    |
| Motor Frame | FC150 (EN-GJL-150)    |
| Shaft       | SUS420J2 (EN-X30Cr13) |

## Discharge size

3" (80mm) special screwed-in mating flange  
guide rail fitting optional

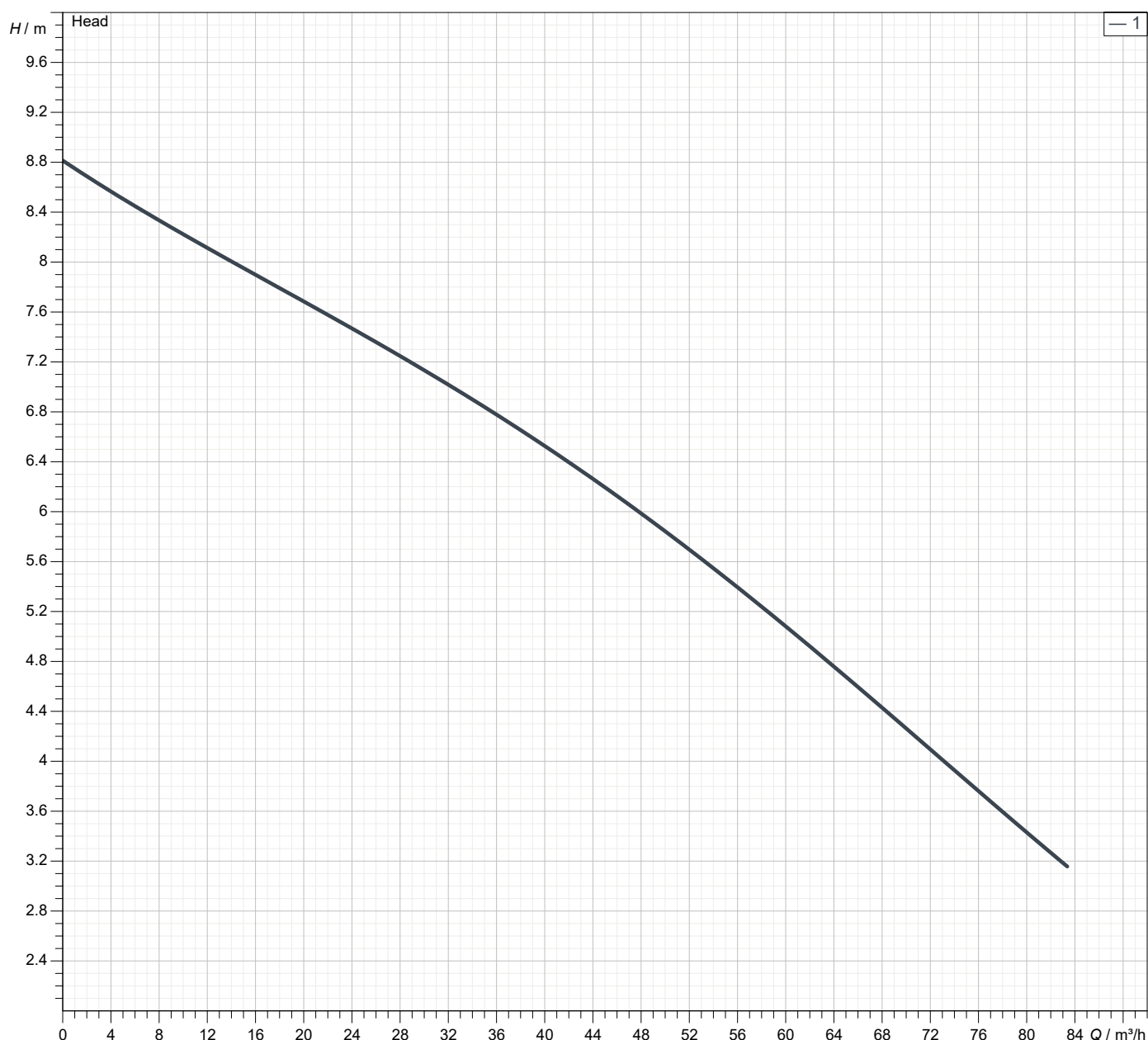
## Weight

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

# Performance curve

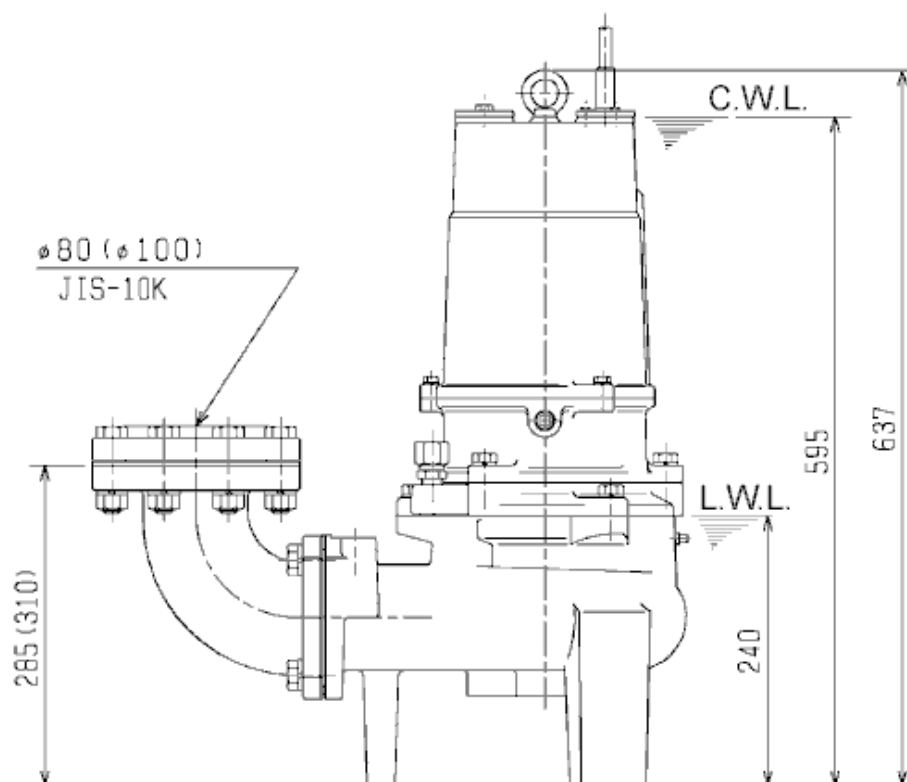
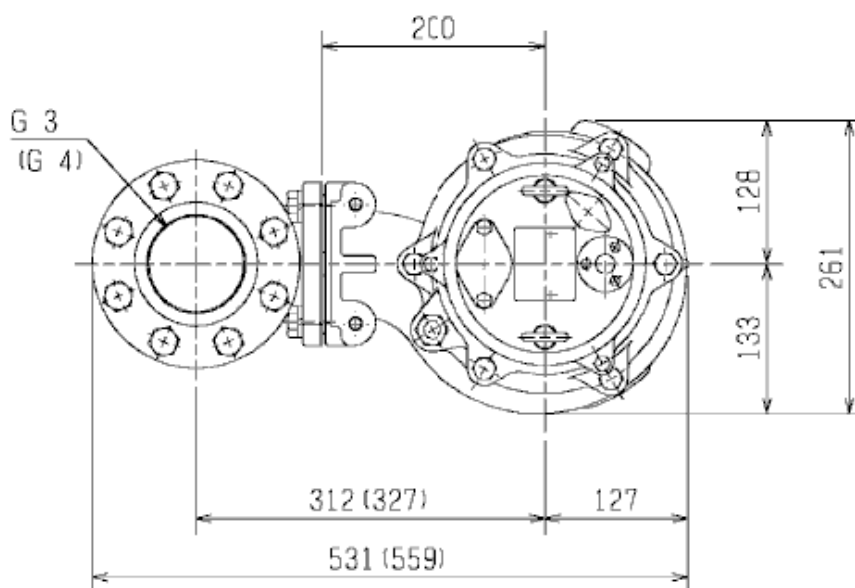
## 80UZ42.2-51

|                  |                 |
|------------------|-----------------|
| Discharge port   | 3"              |
| Head             | 8.8 m           |
| Flow             | 83.4 m³/h       |
| Rated power      | 2.20 kW         |
| Power input      | 2.85 kW         |
| Phases           | 3~              |
| Voltages         | 400 V           |
| Frequency        | 50 Hz           |
| Rated current    | 5 A             |
| Starting current | 32.00 A         |
| Number of poles  | 4               |
| Speed            | 1420 1/min      |
| Starting mode    | Direct starting |
| Insulation class | E               |



# Dimensions

## 80UZ42.2-51



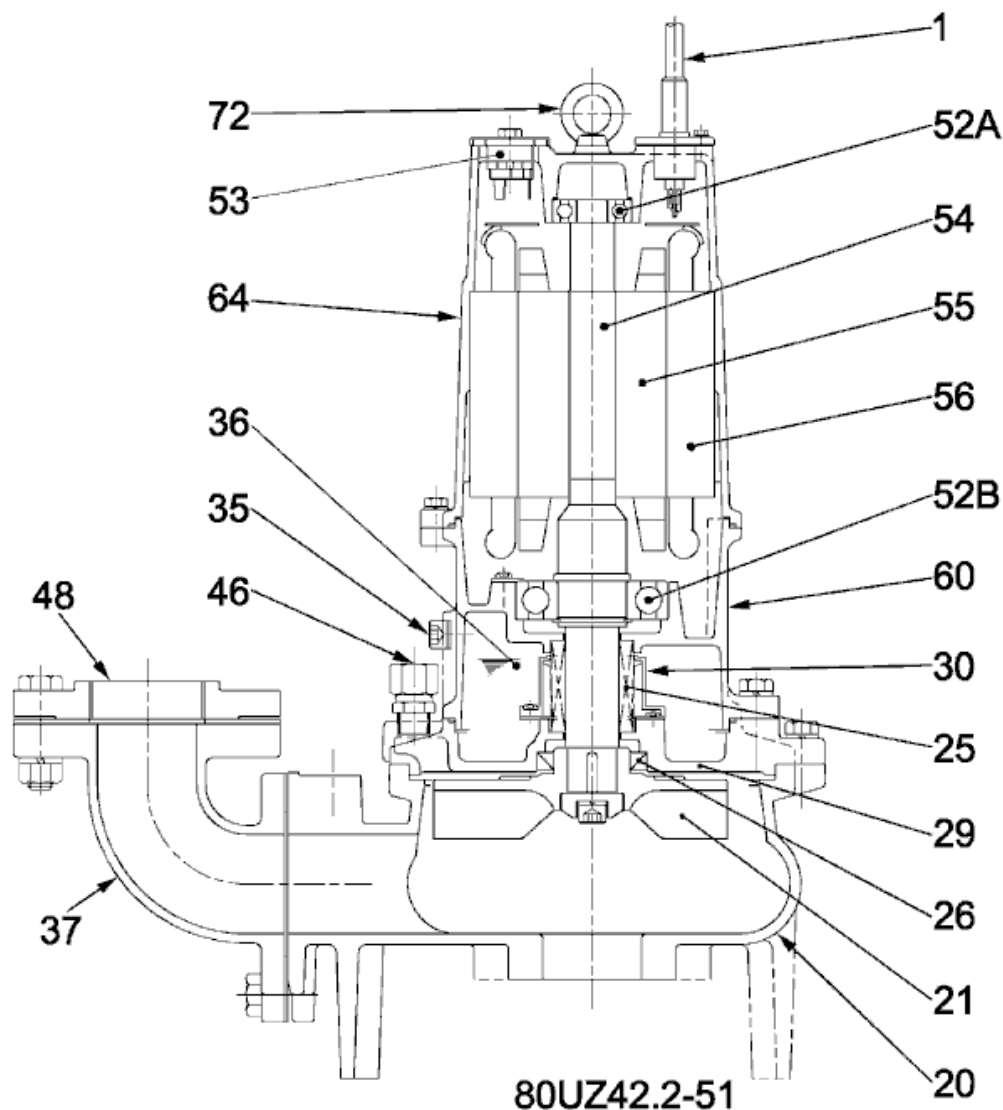
mm

80UZ42.2-51

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

# Sectional drawing

## 80UZ42.2-51



| No. | Description                       | Remark                  | No. | Description     | Remark                  |
|-----|-----------------------------------|-------------------------|-----|-----------------|-------------------------|
| 1   | Cable                             | NSSHÖU                  | 55  | Rotor           | .                       |
| 20  | Pump casing                       | FC200 (EN-GJL-200)      | 56  | Stator          | .                       |
| 21  | Impeller                          | FC200 (EN-GJL-200)      | 60  | Bearing Housing | FC150 (EN-GJL-150)      |
| 25  | Mechanical seal                   | H-30A                   | 64  | Motor Frame     | FC150 (EN-GJL-150)      |
| 26  | Oil seal                          | TC456812                | 72  | Eye screw (2x)  | SUS304 (EN-X5CrNi18-10) |
| 29  | Oil casing                        | FC200 (EN-GJL-200)      |     |                 |                         |
| 30  | Oil distributor                   | Plastic                 |     |                 |                         |
| 35  | Oil screw                         | SUS304 (EN-X5CrNi18-10) |     |                 |                         |
| 36  | Lubricant                         | Turbine oil (ISO VG32)  |     |                 |                         |
| 37  | Discharge bend                    | FC200 (EN-GJL-200)      |     |                 |                         |
| 46  | Air vent screw                    | Brass                   |     |                 |                         |
| 48  | Screwed Flange                    | FC200 (EN-GJL-200)      |     |                 |                         |
| 52A | Upper bearing                     | 6304ZZC3                |     |                 |                         |
| 52B | Lower bearing                     | 6307ZZC3                |     |                 |                         |
| 53  | Motor Protector 380/400/415V-50Hz | KA314-HRXL00 (H.C)      |     |                 |                         |
| 54  | Shaft                             | SUS420J2 (EN-X30Cr13)   |     |                 |                         |