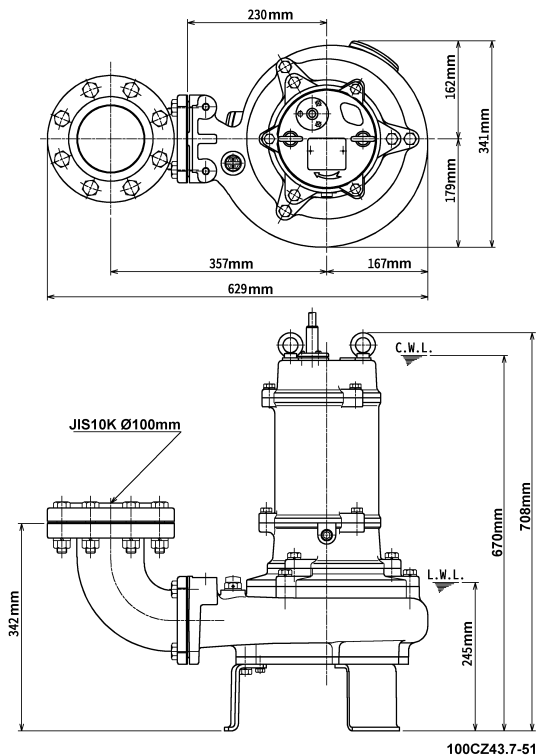


Data sheet 100CZ43.7-51



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



Specification

Elektrische Tauchpumpe CZ-Serie
Degree of protection IP 68
Pressure resistance max. 15 m
Type of impeller single channel impeller
Free passage 30 mm
Suitable for:
sewage water and liquids carrying solids

Electric motor

Dry-type submersible induction motor
Insulation class F 4Poles 1411 1/min
Starting mode Direct starting
Rated voltage 400 V 50 Hz 3~
Power uptake 4.87 kW
Rated power 3.70 kW
Rated current 8.3 A
Start current 53.0 A

Cable

10m NSSHÖU 4Cx1,5mm²

Motor Protection

Miniature protector in windings
(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

FCD500 (EN-GJS-500-7)

Pump casing

Grey iron casting 250 (EN-GJL-250)

Suction cover

FCD500 (EN-GJS-500-7)

Motor Frame

FC200 (EN-GJL-200)

Shaft

SUS420J2 (EN-X30Cr13)

Discharge size

4" (100mm) JIS 10K screwed-in mating flange
guide rail fitting optional

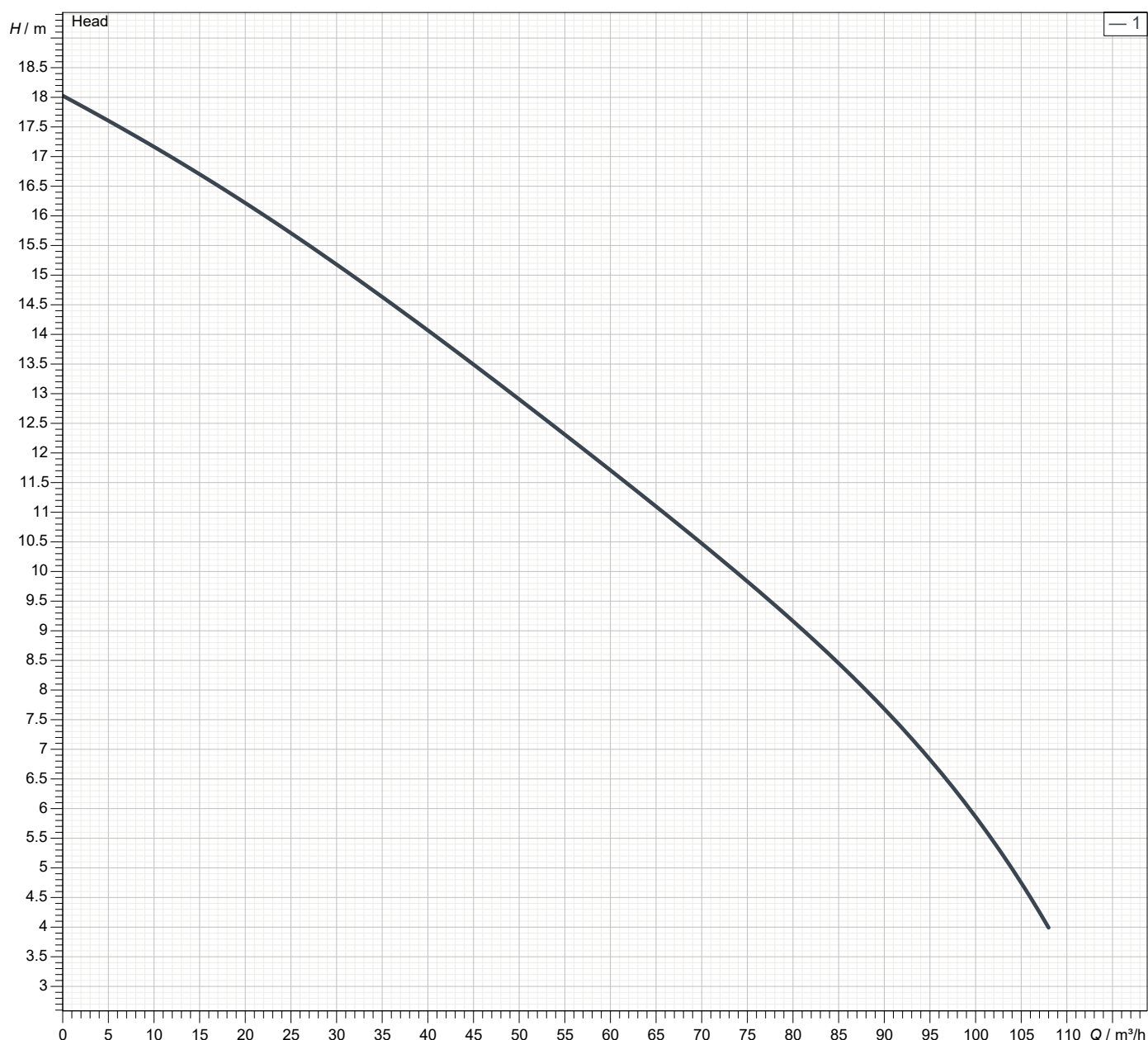
Weight

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

Performance curve

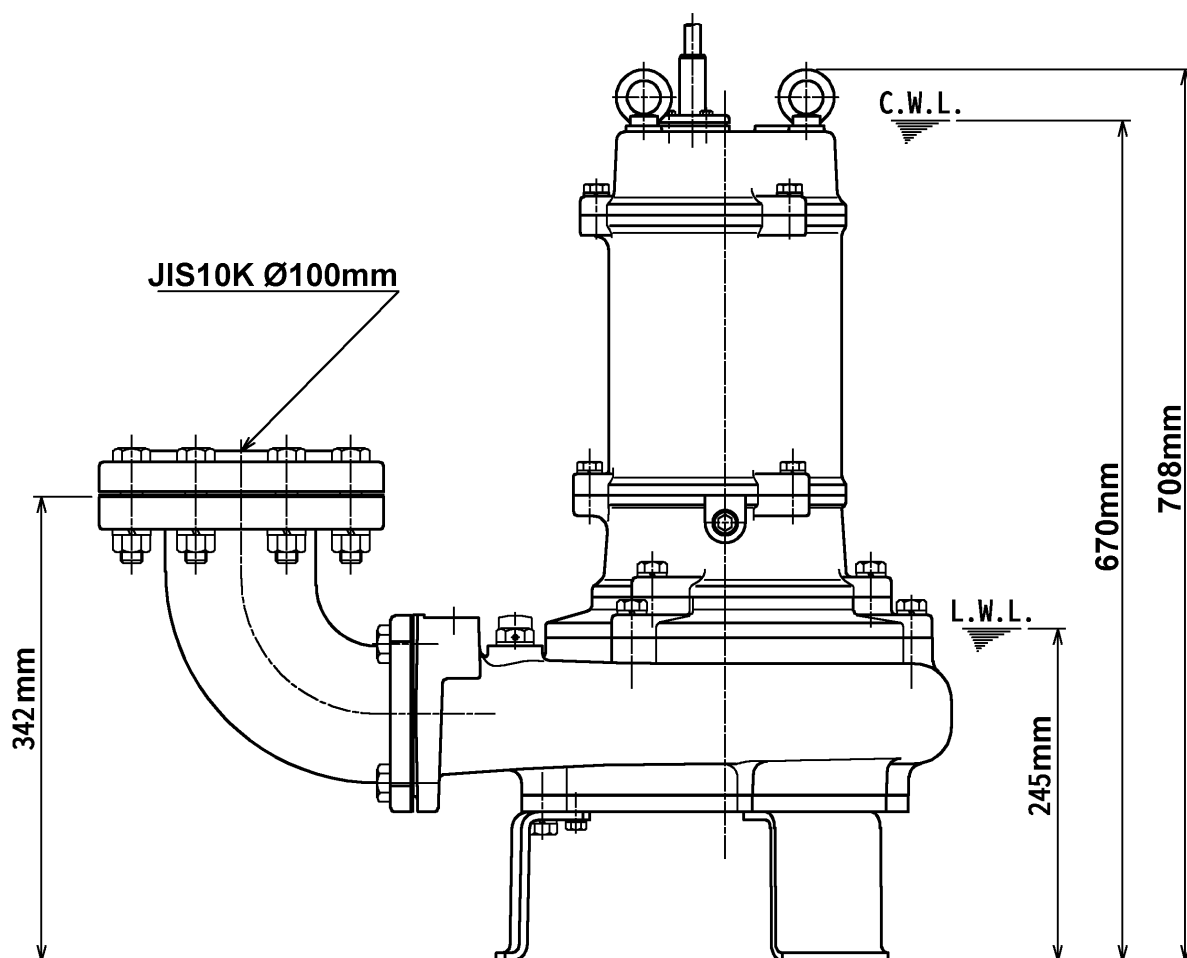
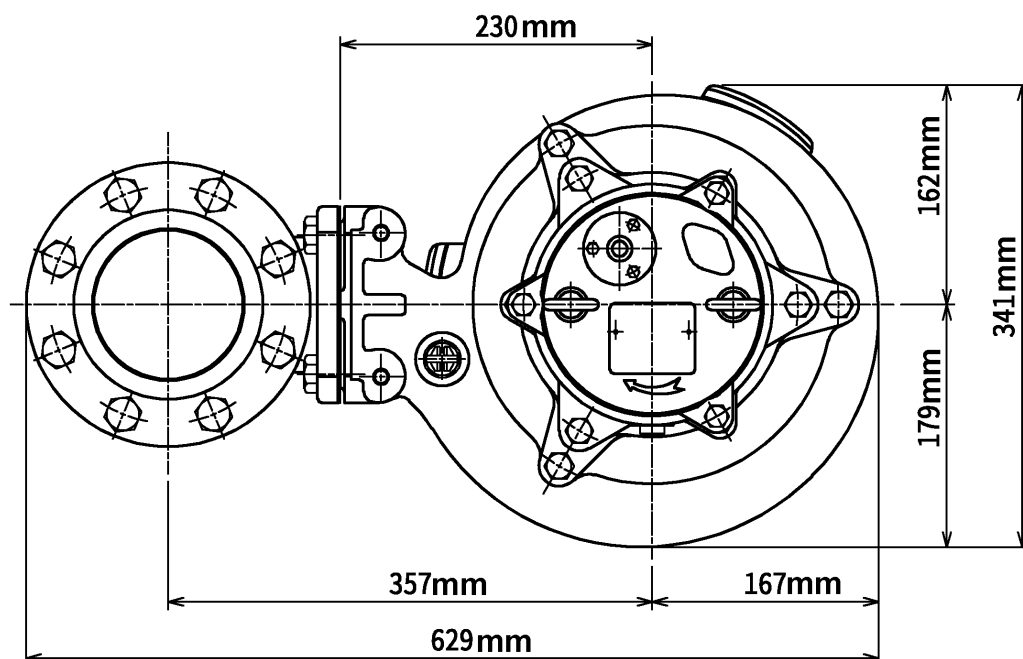
100CZ43.7-51

Discharge port	4"
Head	18.0 m
Flow	108.0 m³/h
Rated power	3.70 kW
Power input	4.87 kW
Phases	3~
Voltages	400 V
Frequency	50 Hz
Rated current	8.3 A
Starting current	53.00 A
Number of poles	4
Speed	1411 1/min
Starting mode	Direct starting
Insulation class	F



Dimensions

100CZ43.7-51

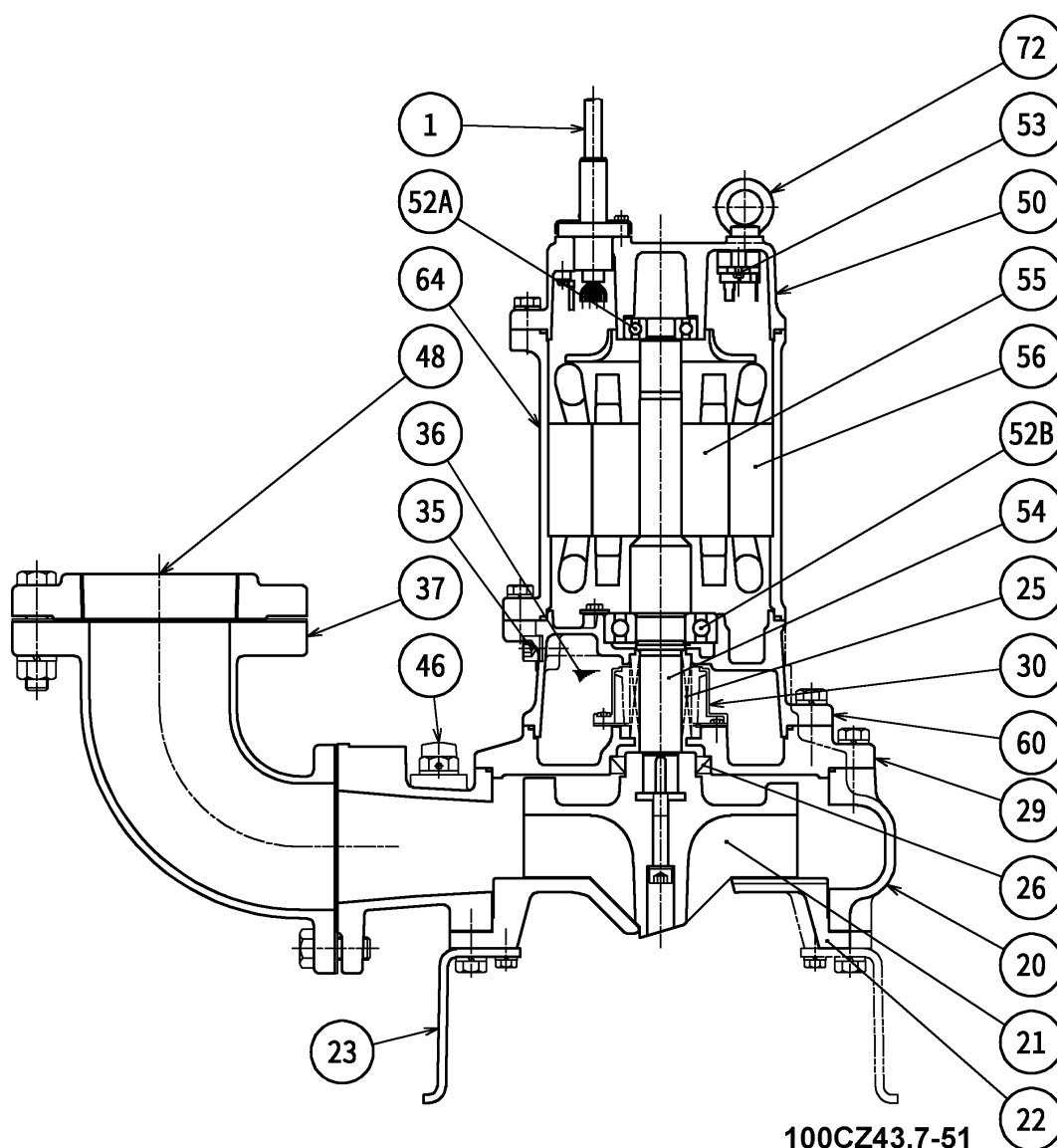


100CZ43.7-51

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

Sectional drawing

100CZ43.7-51



100CZ43.7-51

No.	Description	Remark	No.	Description	Remark
1	Cable	NSSHÖU	52B	Lower Bearing	6309ZZC3
20	Pump casing	Grey iron casting 250 (EN-GJL-250)	53	Motor Protector 380/400/415V-50Hz	KA314-HRXL00 (H.C)
21	Impeller	FCD500 (EN-GJS-500-7)	54	Shaft	SUS420J2 (EN-X30Cr13)
22	Suction cover	FCD500 (EN-GJS-500-7)	55	Rotor	.
23	Stand support (3x)	Construction steel SS400	56	Stator	.
25	Mechanical seal	H-35A	60	Bearing Housing	FC200 (EN-GJL-200)
26	Oil seal	TC507212	64	Motor Frame	FC200 (EN-GJL-200)
29	Oil Casing	Grey iron casting 250 (EN-GJL-250)	72	Eye screw	SUS304 (EN-X5CrNi18-10)
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	Nylon			
48	Screwed Flange	FC200 (EN-GJL-200)			
50	Motor Bracket	FC200 (EN-GJL-200)			
52A	Upper bearing	6304ZZC3			