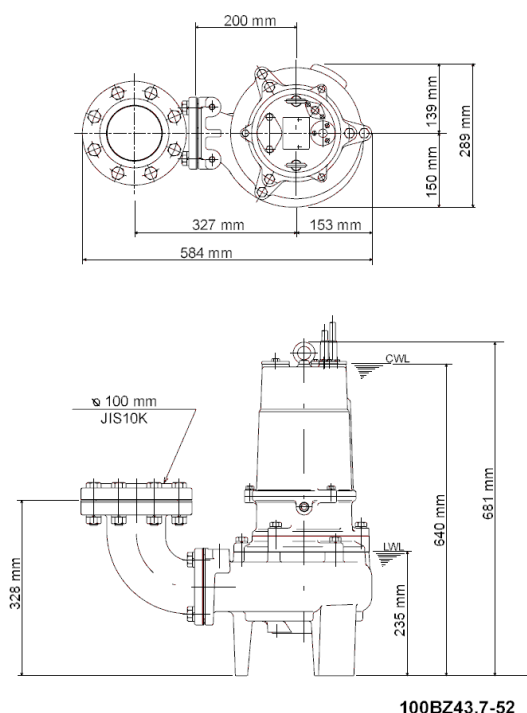
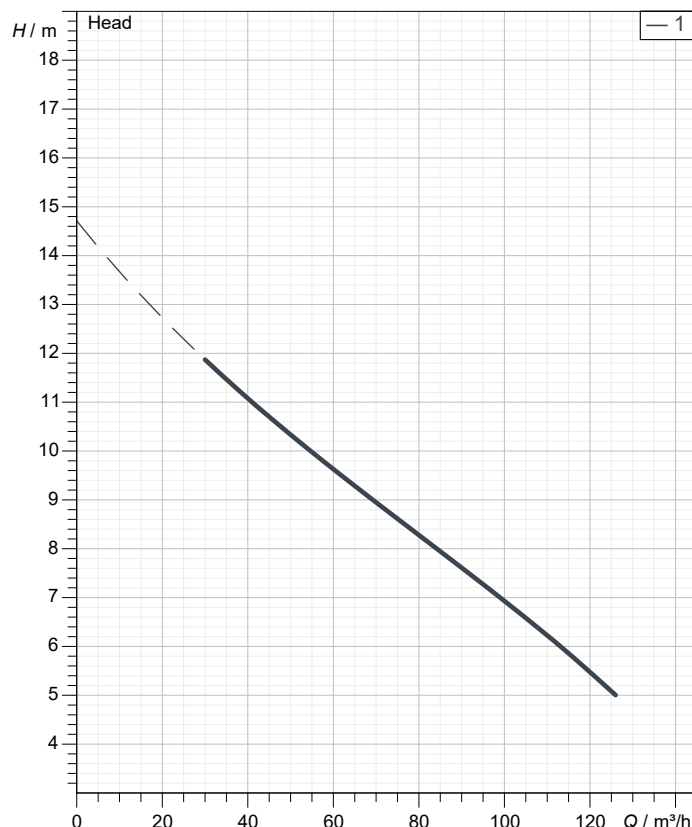


Data sheet 100BZ43.7-52



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



Specification

Electric submersible pump BZ-series
Degree of protection IP 68
Pressure resistance max. 15 m
Type of impeller single channel impeller
Free passage 80 mm
Suitable for:
sewage water

Electric motor

Dry-type submersible induction motor
Insulation class F 4 Poles 1410 1/min
Starting mode Direct starting
Rated voltage 400 V 50 Hz 3~
Power uptake 4.59 kW
Rated power 3.70 kW
Rated current 7.9 A
Start current 49.0 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	FC200 (EN-GJL-200)
Pump casing	FC200 (EN-GJL-200)
Motor Frame	FC150 (EN-GJL-150)
Shaft	SUS420J2 (EN-X30Cr13)

Discharge size

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

Weight

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

Performance curve

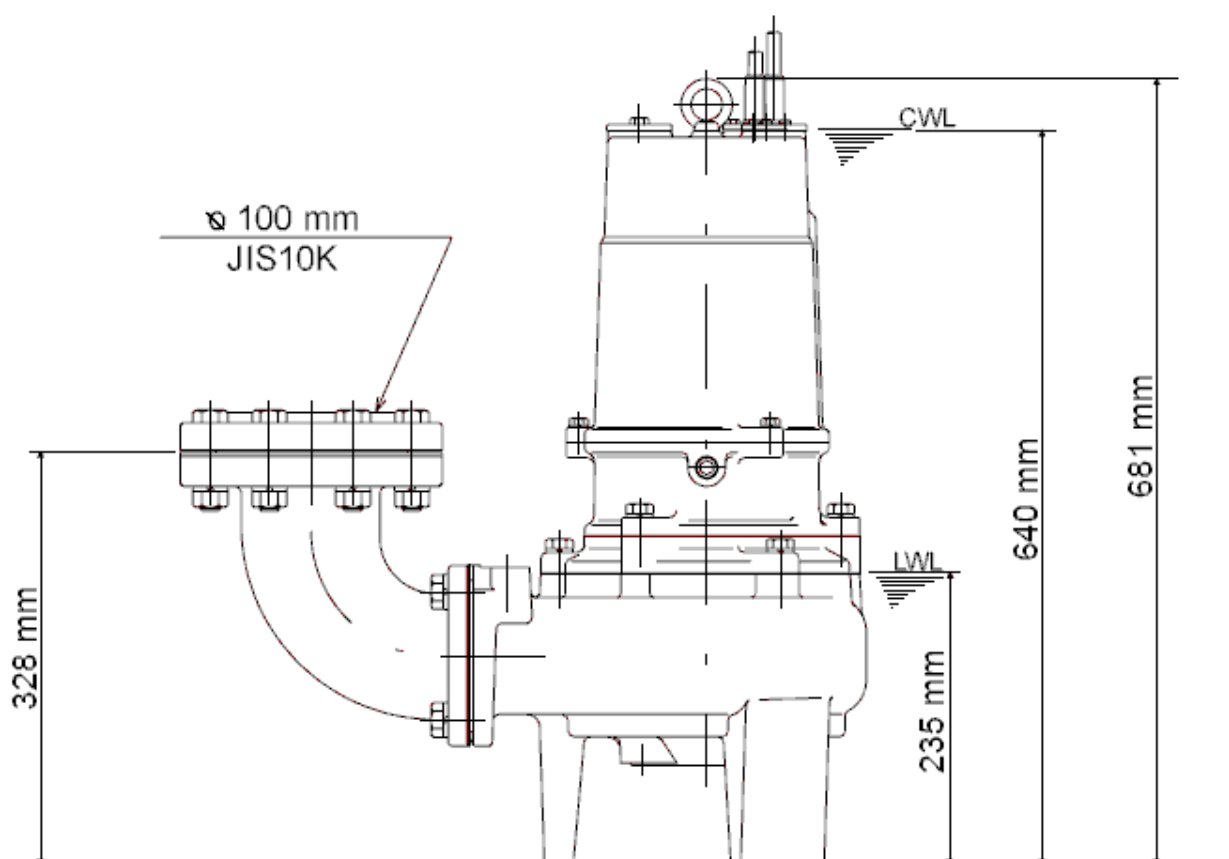
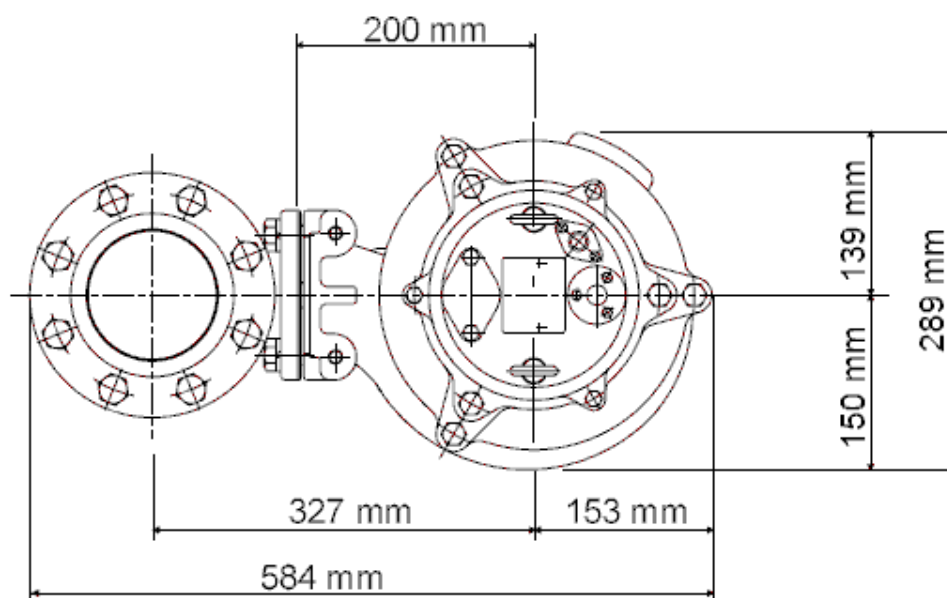
100BZ43.7-52

Discharge port	4"
Head	11.9 m
Flow	126.0 m³/h
Rated power	3.70 kW
Power input	4.59 kW
Phases	3~
Voltages	400 V
Frequency	50 Hz
Rated current	7.9 A
Starting current	48.98 A
Number of poles	4
Speed	1410 1/min
Starting mode	Direct starting
Insulation class	F



Dimensions

100BZ43.7-52



100BZ43.7-52

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



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2025-03-03

V.01.02.2025

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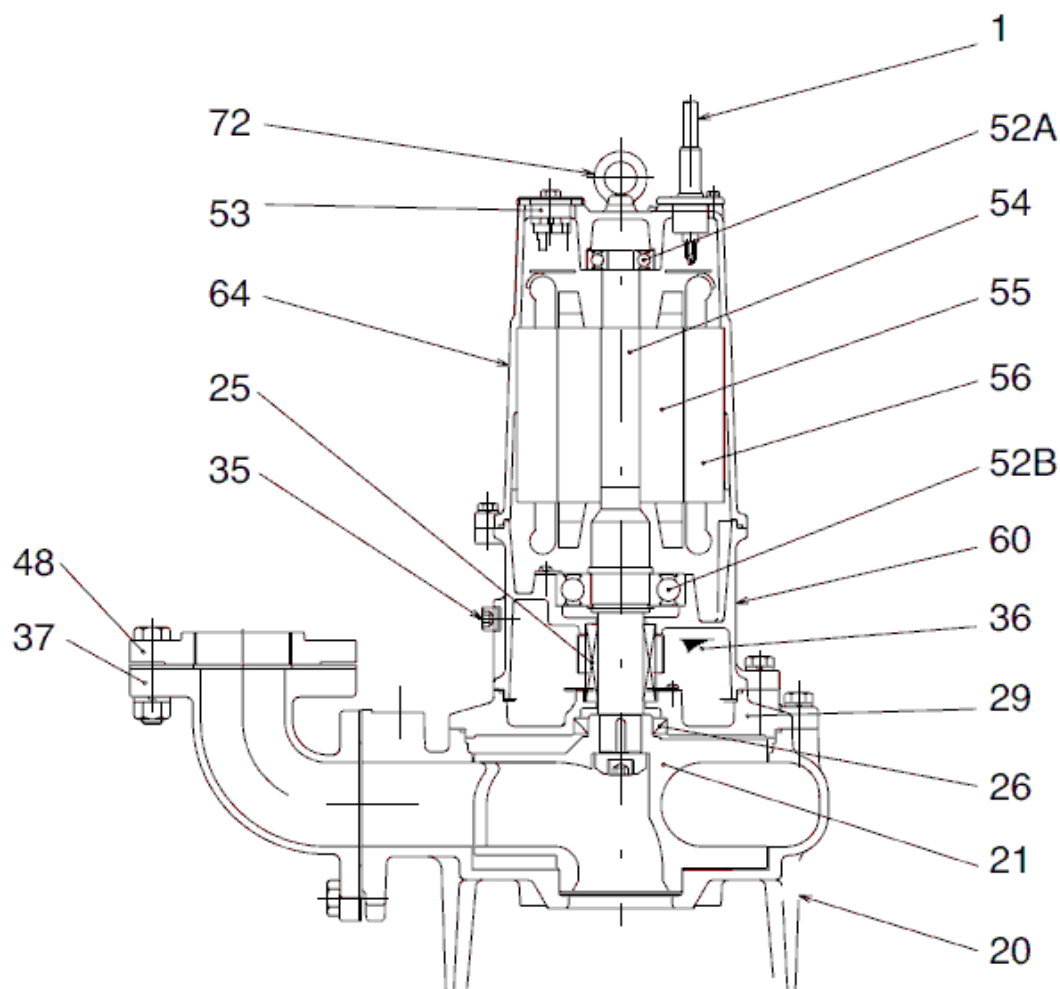
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Sectional drawing

100BZ43.7-52



100BZ43.7-52

No.	Description	Remark	No.	Description	Remark
1	Cable	NSSHÖU	56	Stator	.
1b	Cable Theroguard	VCT4Cx1.25SQ	60	Bearing Housing	FC150 (EN-GJL-150)
20	Pump casing	FC200 (EN-GJL-200)	64	Motor Frame	FC150 (EN-GJL-150)
21	Impeller	FC200 (EN-GJL-200)	72	Eye screw	SUS304 (EN-X5CrNi18-10)
25	Mechanical seal	H-35A			
26	Oil seal	TC507212			
29	Oil casing	FC200 (EN-GJL-200)			
35	Oil screw	SUS304 (EN-X5CrNi18-10)			
36	Lubricant	Turbine oil (ISO VG32)			
37	Discharge bend	FC200 (EN-GJL-200)			
48	Screwed Flange	FC200 (EN-GJL-200)			
52A	Upper bearing	6304ZZC3			
52B	Lower bearing	6309ZZC3			
53	Circle thermal protector (3x)	.			
54	Shaft	SUS420J2 (EN-X30Cr13)			
55	Rotor	.			