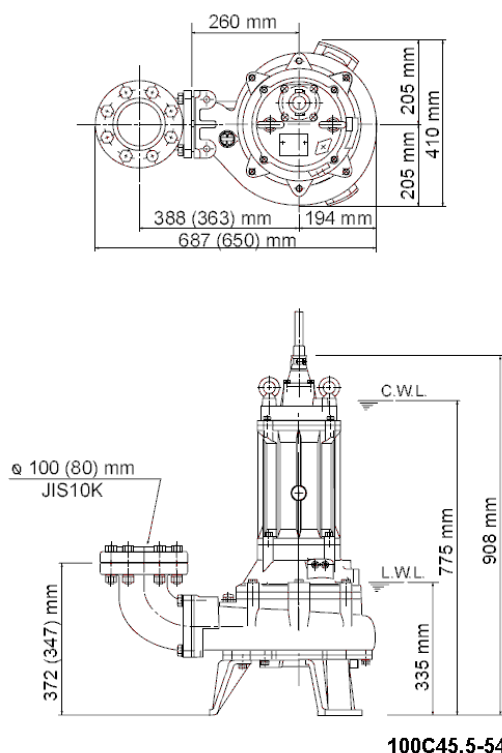
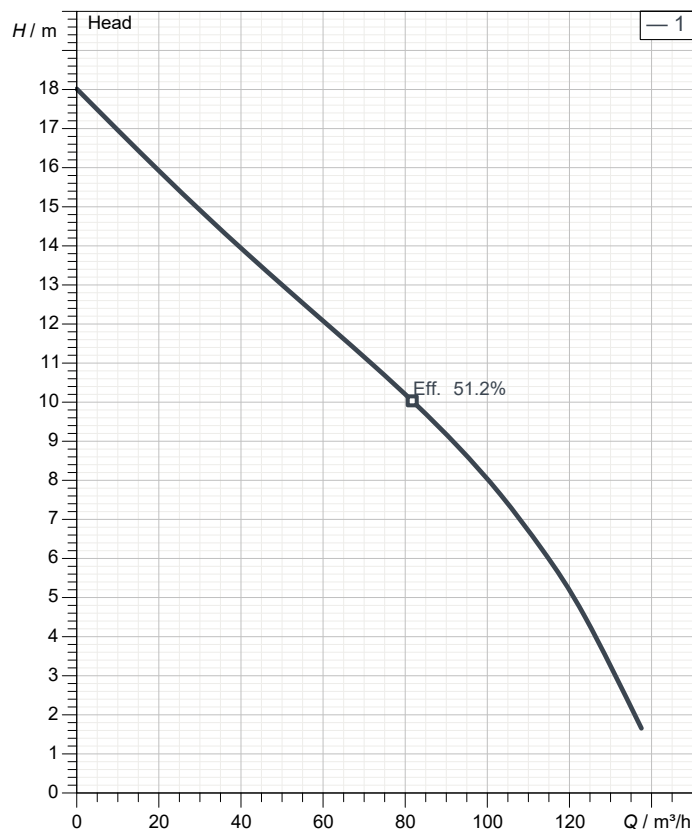


Data sheet 100C45.5-54



100C45.5-54

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



Specification

Electric submersible pump C-series
Degree of protection IP 68
Pressure resistance max. 15 m
Type of impeller single channel impeller
Free passage 40 mm
Suitable for:
sewage water and liquids carrying solids

Electric motor

Dry-type submersible induction motor
Insulation class F 4Poles 1455 1/min
Starting mode Direct starting
Rated voltage 400 V 50 Hz 3~
Power uptake 7.15 kW
Rated power 5.50 kW
Rated current 12.1 A
Start current 73.0 A

Cable

10m NSSHÖU 4Cx2,5mm²

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

FC20 (EN-GJL-200) + Tungsten carbide

Pump casing

FC200 (EN-GJL-200)

Suction cover

FCD700 (EN-GJS-700-2)

Motor Frame

FC200 (EN-GJL-200)

Shaft

SUS403 (EN-X6Cr13)

Discharge size

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

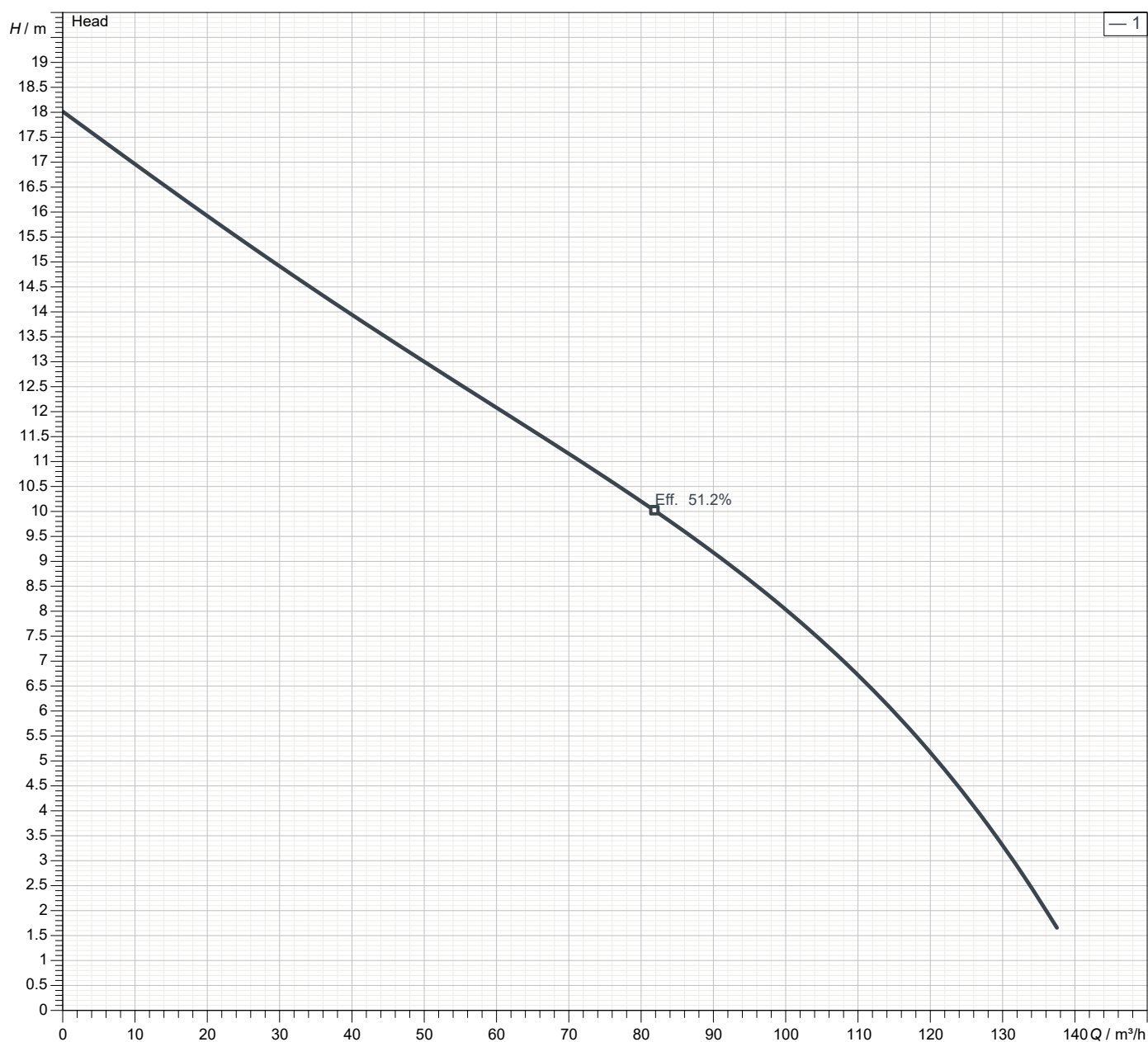
Weight

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

Performance curve

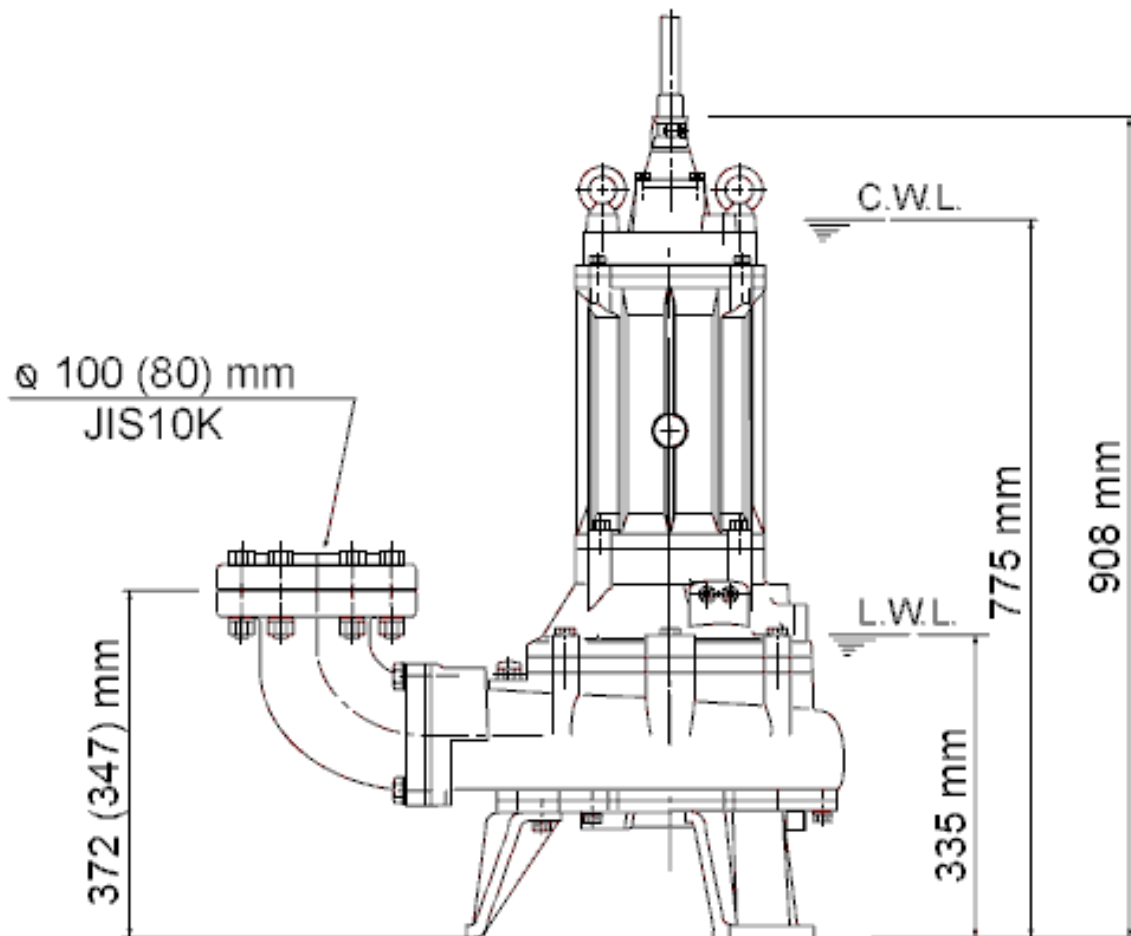
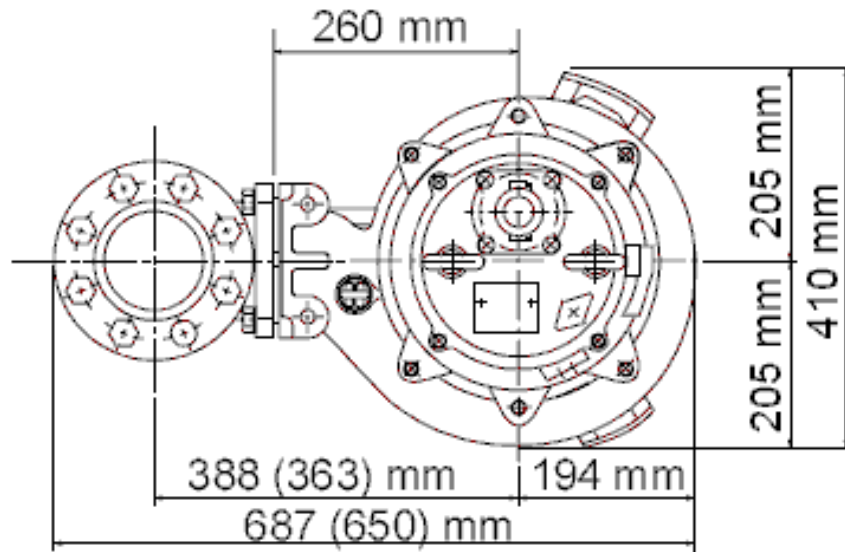
100C45.5-54

Discharge port	4"
Head	18.0 m
Flow	137.5 m³/h
Rated power	5.50 kW
Power input	7.15 kW
Phases	3~
Voltages	400 V
Frequency	50 Hz
Rated current	12.1 A
Starting current	72.96 A
Number of poles	4
Speed	1455 1/min
Starting mode	Direct starting
Insulation class	F



Dimensions

100C45.5-54



100C45.5-54

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



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2025-09-01

V.01.02.2025

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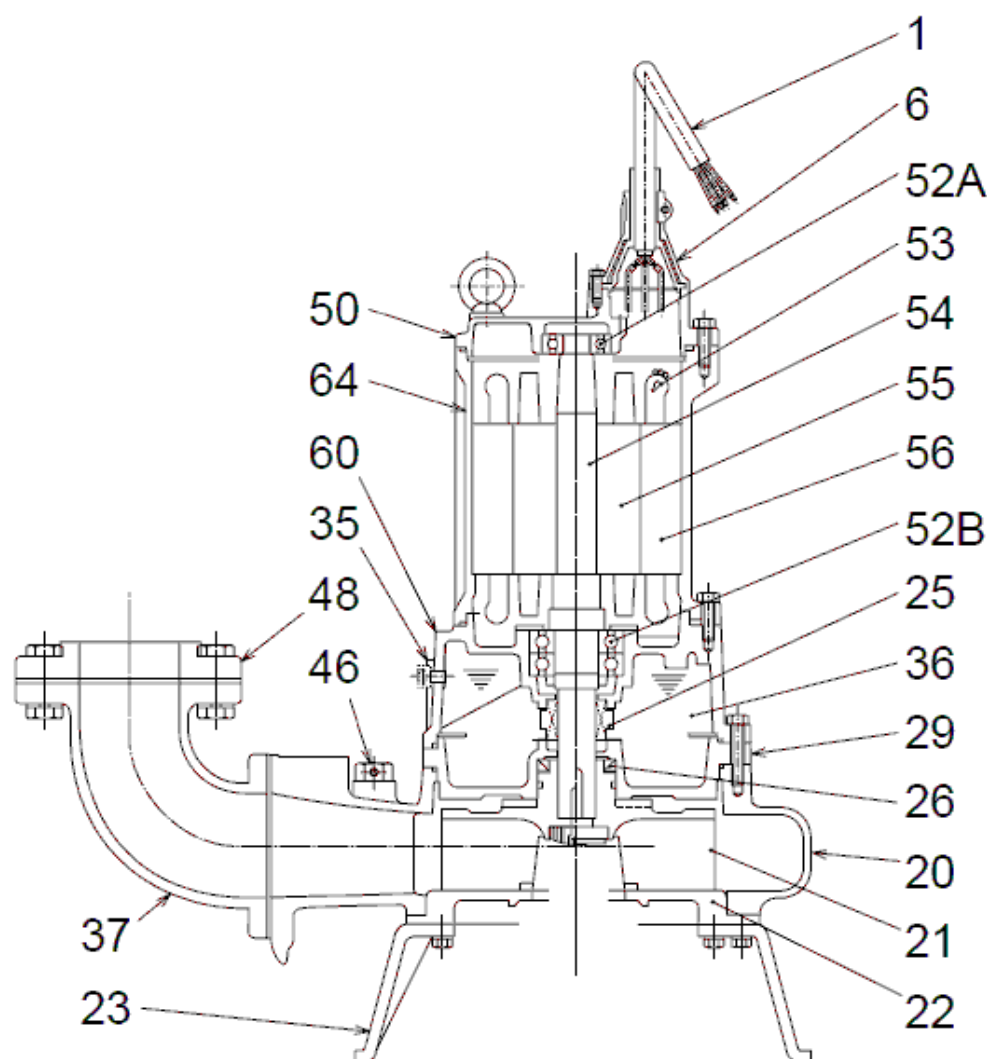
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Sectional drawing

100C45.5-54



100C45.5-54

No.	Description	Remark	No.	Description	Remark
1	Cable (3x)	NSSHÖU	52B	Lower Bearing	6310ZZD2C3
6	Stuffing box	FC200 (EN-GJL-200)	53	Motor Protector 380/400/415V-50Hz	KA314-HRXL00 (H.C)
20	Pump casing	FC200 (EN-GJL-200)	54	Shaft	SUS403 (EN-X6Cr13)
21	Impeller	FC20 (EN-GJL-200) + Tungsten carbide	55	Rotor	.
22	Suction cover	FCD700 (EN-GJS-700-2)	56	Stator	.
23	Stand support (3x)	FC200 (EN-GJL-200)	60	Bearing Housing	FC200 (EN-GJL-200)
25	Mechanical seal	H-40	64	Motor Frame	FC200 (EN-GJL-200)
26	Oil seal	TC709212	72	Eye screw (2x)	Construction steel SS400
29	Oil casing	FC200 (EN-GJL-200)			
35	Oil screw (2x)	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 cover	FC200 (EN-GJL-200)			
52A	Upper bearing	6306ZZC3			