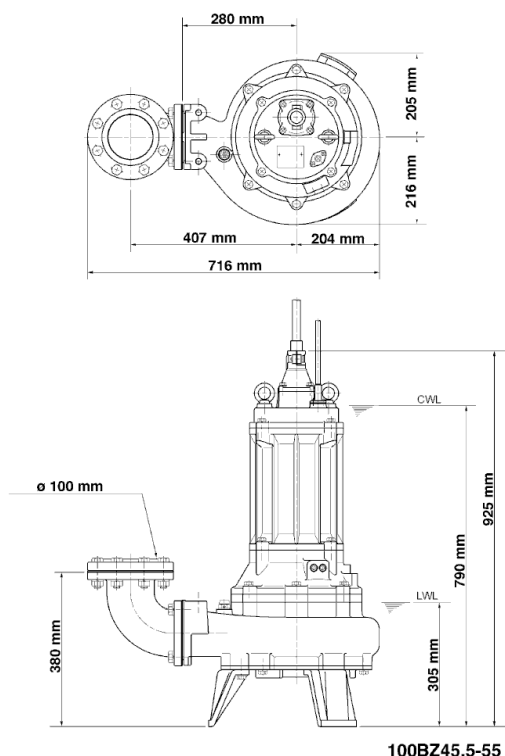
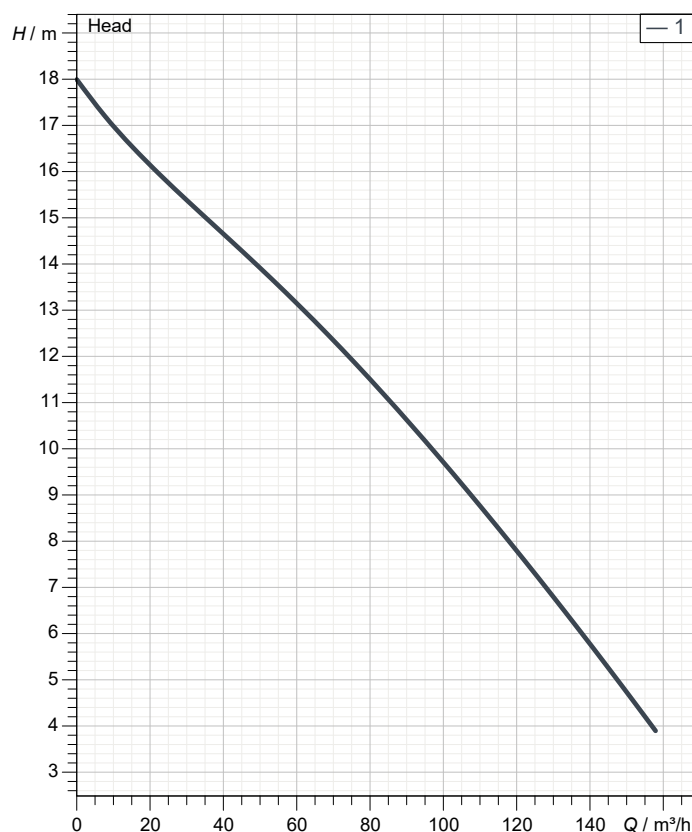


Data sheet 100BZ45.5-55



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 1443 1/min
Starting mode Direct starting
Rated voltage 400 V 50 Hz 3~
Power uptake 6.92 kW
Rated power 5.50 kW
Rated current 12.1 A
Start current 63.0 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	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

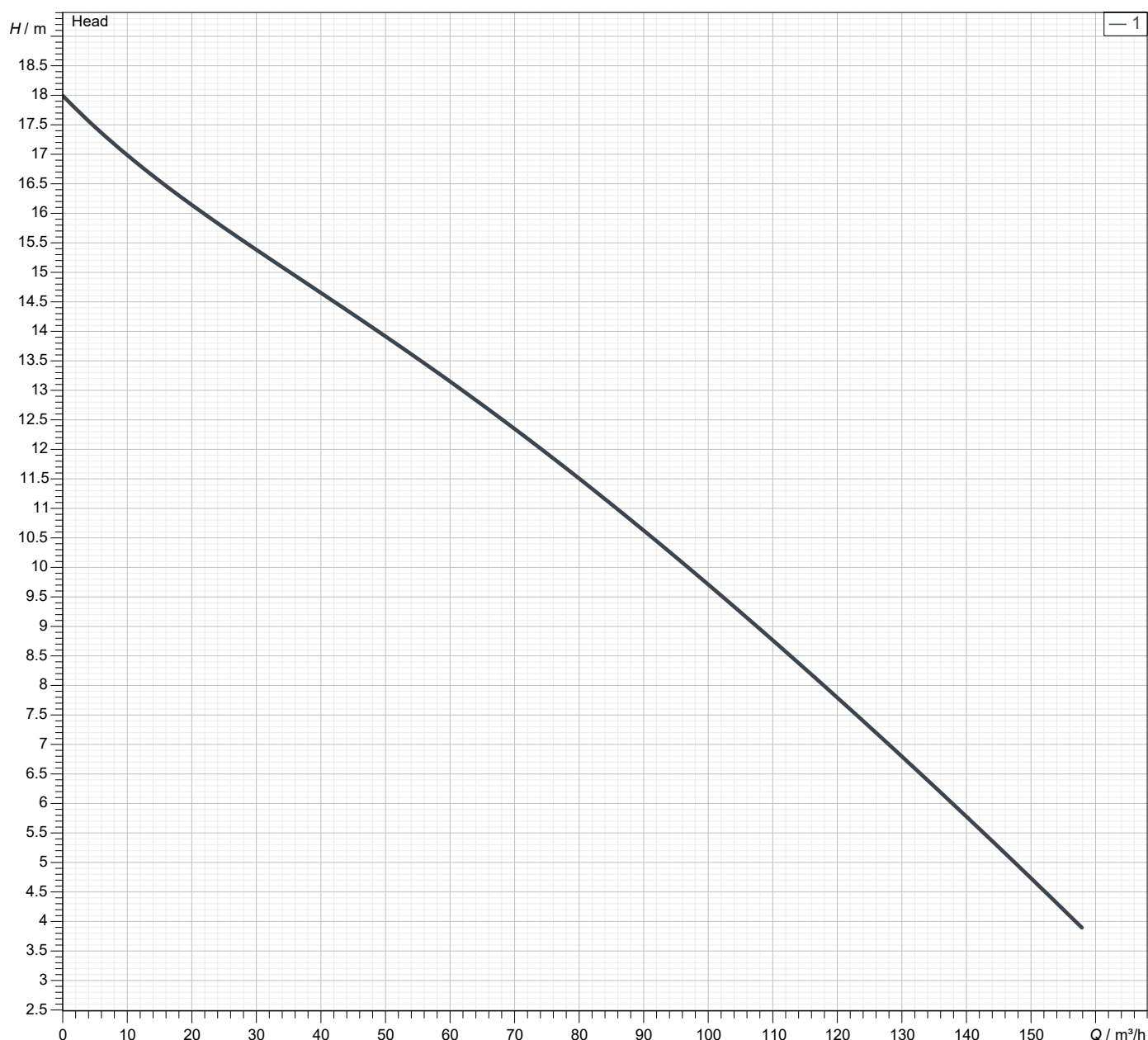
Weight

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

Performance curve

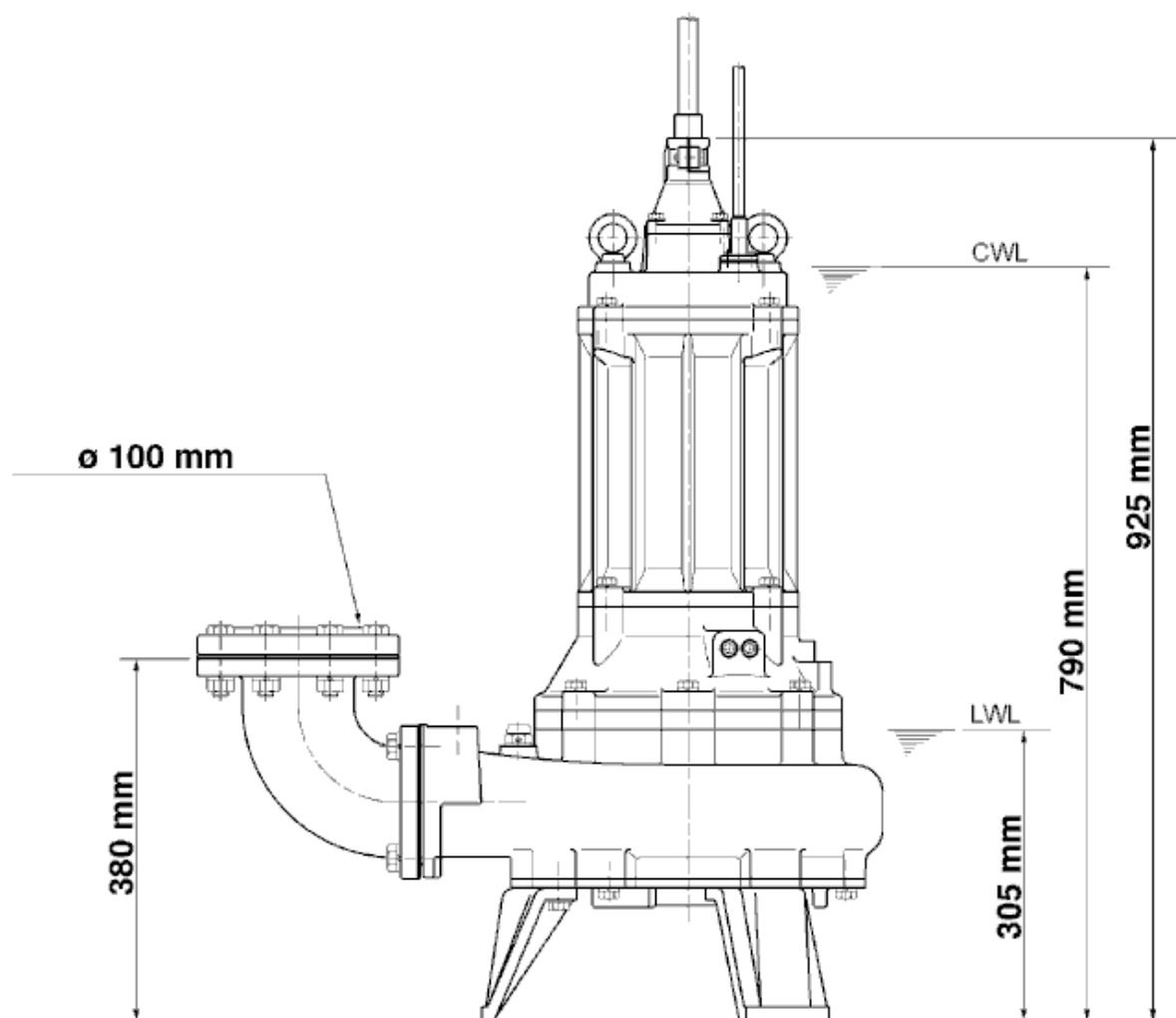
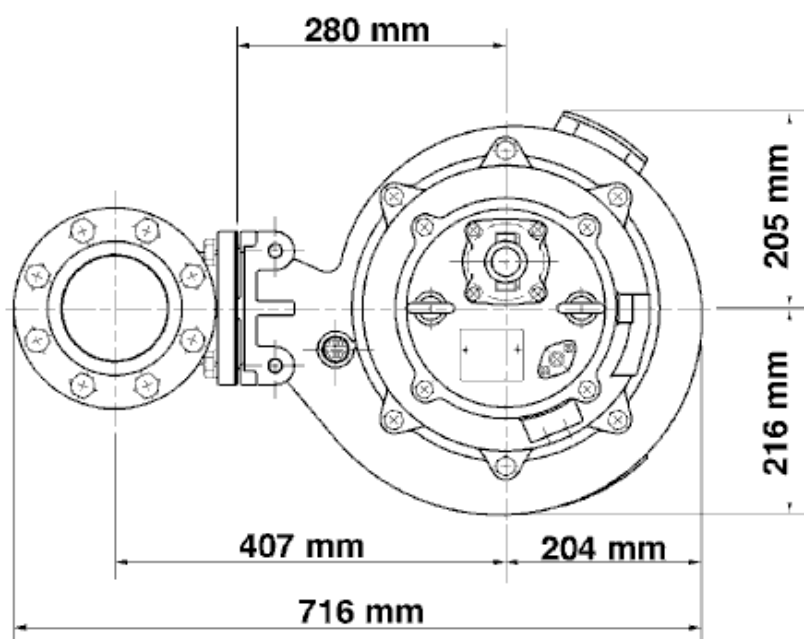
100BZ45.5-55

Discharge port	4"
Head	18.0 m
Flow	157.9 m³/h
Rated power	5.50 kW
Power input	6.92 kW
Phases	3~
Voltages	400 V
Frequency	50 Hz
Rated current	12.1 A
Starting current	63.04 A
Number of poles	4
Speed	1443 1/min
Starting mode	Direct starting
Insulation class	F



Dimensions

100BZ45.5-55

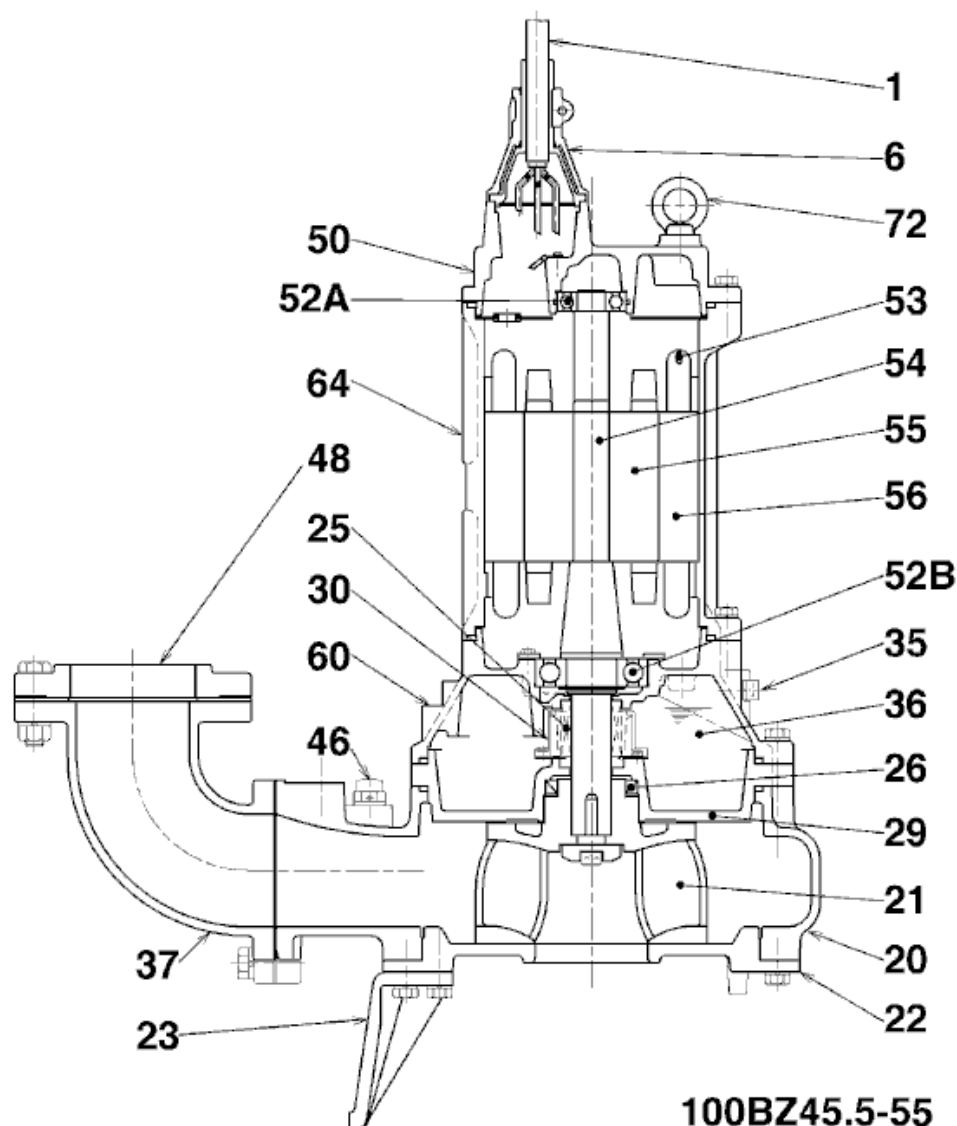


100BZ45.5-55

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

Sectional drawing

100BZ45.5-55



100BZ45.5-55

No.	Description	Remark	No.	Description	Remark
1	Cable	NSSHÖU	52A	Upper bearing	6305ZZC3
6	Cable entry	FC200 (EN-GJL-200)	52B	Lower bearing	6309ZZC3
20	Pump casing	FC200 (EN-GJL-200)	53	Miniature protector (3x)	.
21	Impeller	FC200 (EN-GJL-200)	54	Shaft	SUS420J2 (EN-X30Cr13)
22	Suction cover	FC200 (EN-GJL-200)	55	Rotor	.
23	Stand (3x)	FC200 (EN-GJL-200)	56	Stator	.
25	Mechanical seal	H-35A	60	Bearing Housing	FC150 (EN-GJL-150)
26	Oil seal	TC608212	64	Motor Frame	FC150 (EN-GJL-150)
29	Oil casing	FC200 (EN-GJL-200)	72	Eye screw (2x)	Construction steel SS400
30	Oil distributor	Plastic			
35	Oil screw (2x)	SUS304 (EN-X5CrNi18-10)			
36	Lubricant	Turbine oil (ISO VG32)			
37	Discharge bend	FC200 (EN-GJL-200)			
46	Air vent valve	Nylon			
48	Screwed Flange	FC200 (EN-GJL-200)			
50	Motor cover	FC200 (EN-GJL-200)			