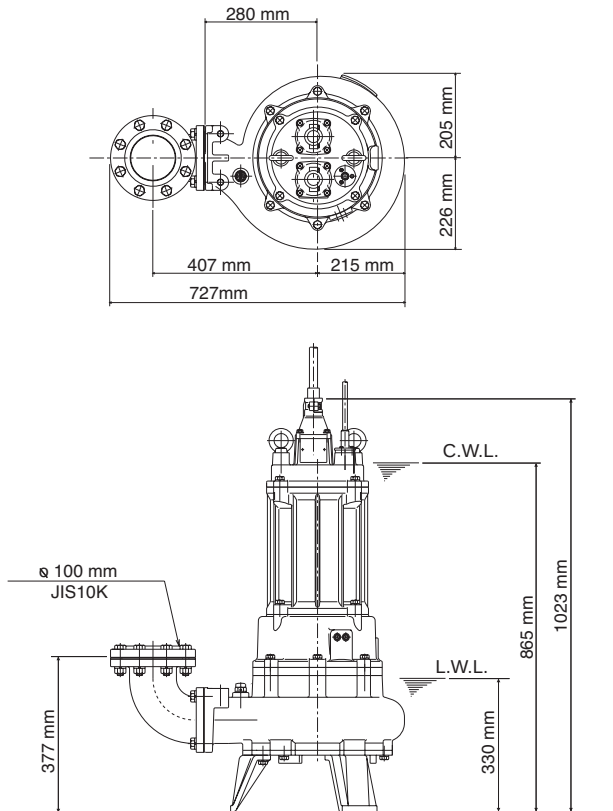
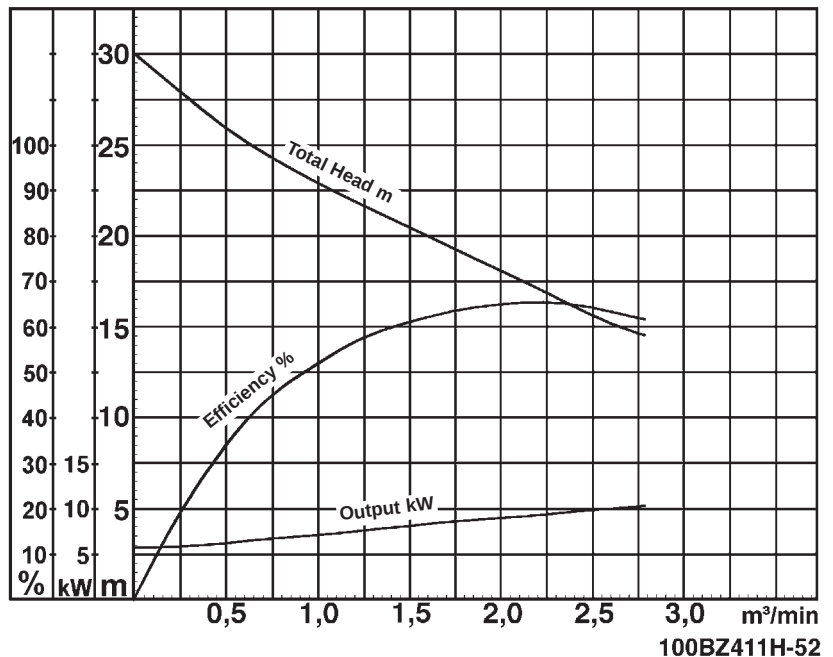


Data Sheet 100BZ411H-52



C.W.L. = Continuous running water level
L.W.L. = Lowest running water level



Classification

Electric submersible pump
Protection class IP68
Depth of submersion max. 40m
1-channel impeller, non-clogging type
Impeller passage 80mm
Suitable for sewage water, various waste water

Electric Motor

Dry-type submersible induction motor,
Insulation class F, 4 poles, 1445 r.p.m.
Star / delta start
Voltage: 400V, 50Hz, 3-phase
Power input: 13,6kW
Power output: 11,0kW
Nominal current: 23,8A
Start current: 128,0A

Electric Cable

10m H07RN-F 4Cx2,5mm²
10m H07RN-F 3Cx2,5mm²
10m 2PNCT 2Cx1,25mm²

Motor Protection

Miniature protector in windings
(snap-action bi-metal device)

Shaft Seal

Double 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)
Casing:	FC200 (EN-GJL-200)
Suction Cover:	FC200 (EN-GJL-200)
Motor frame:	FC150 (EN-GJL-150)
Shaft:	SUS420J2 (EN-X30Cr13)

Discharge Connection

4" (100mm) JIS10K screwed-in mating flange
Guide rail fitting optional

Weight

219 kg (dry weight of the pump without cable)

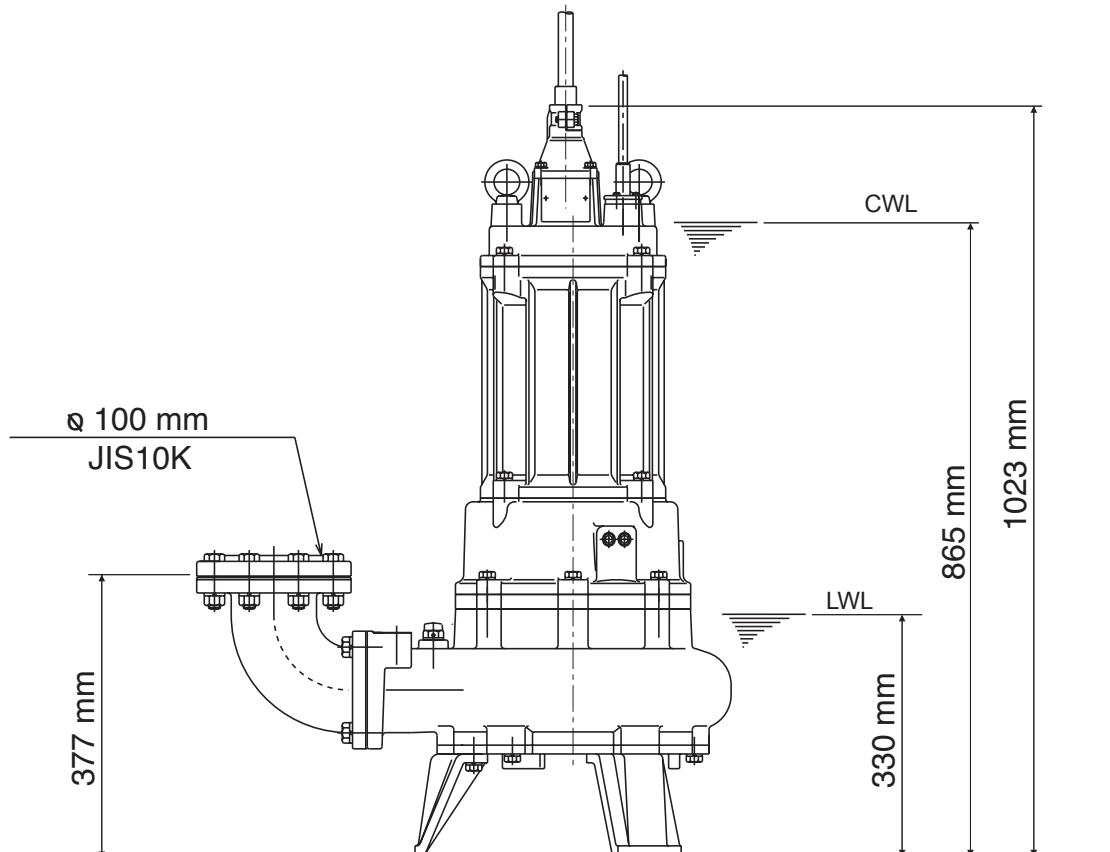
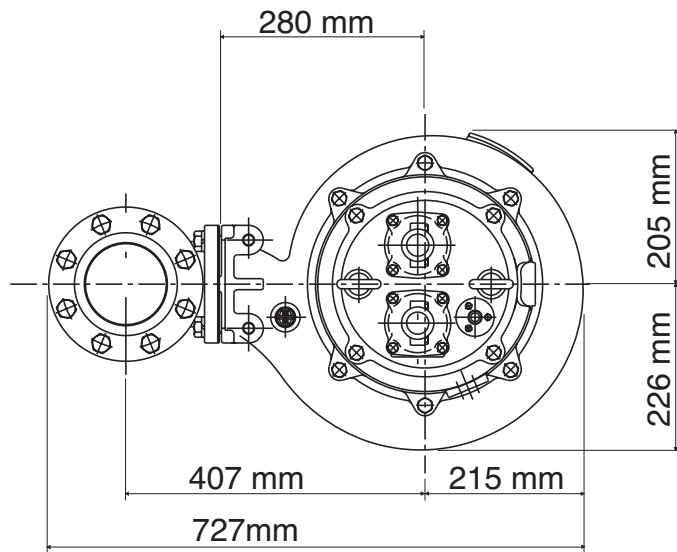


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Dimensional Drawing

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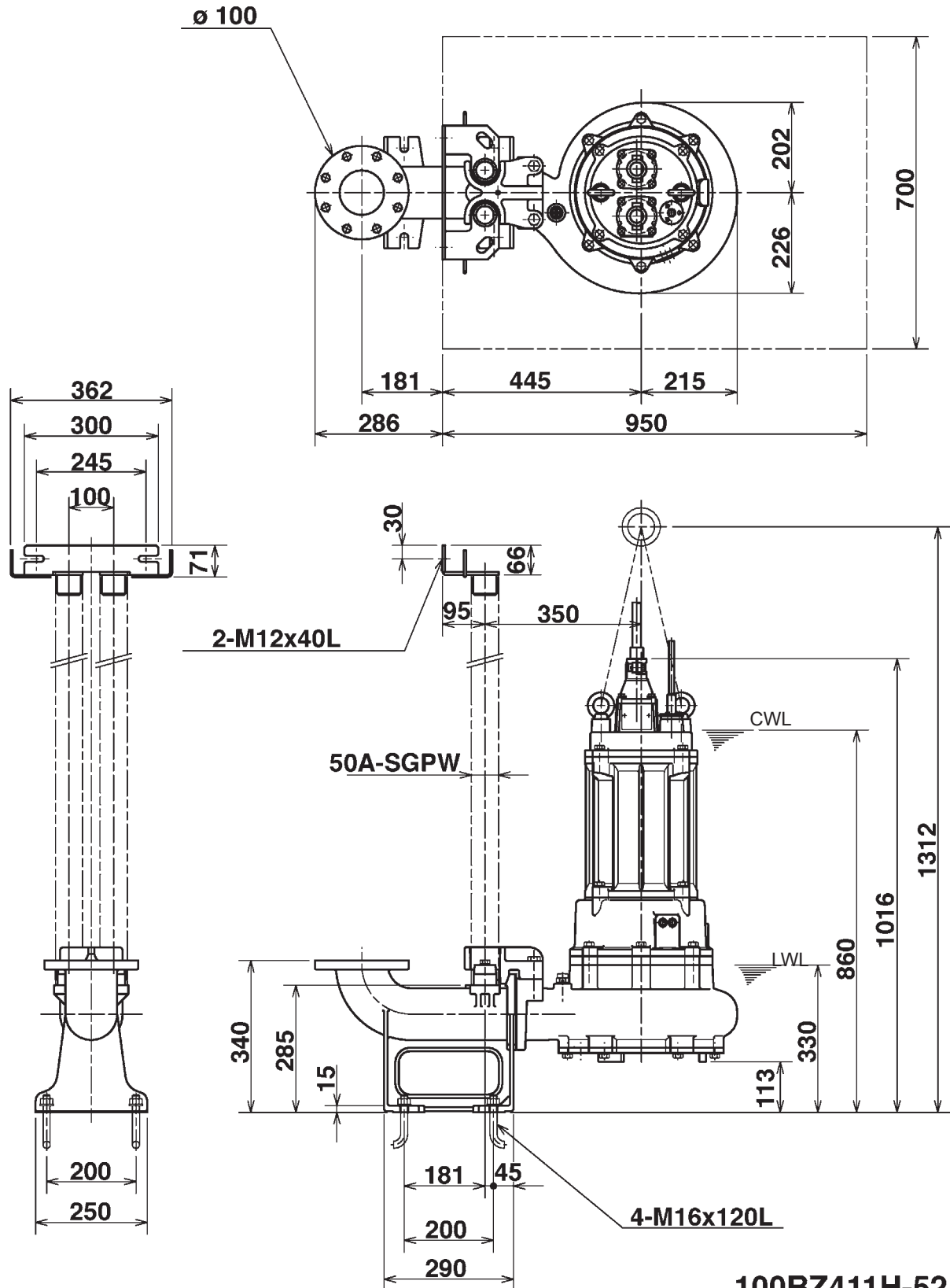
CWL: Continuous Running Water Level

LWL: Lowest Running Water Level

Dimensional Drawing

TOS100BZ411H-52

Dimensions in mm



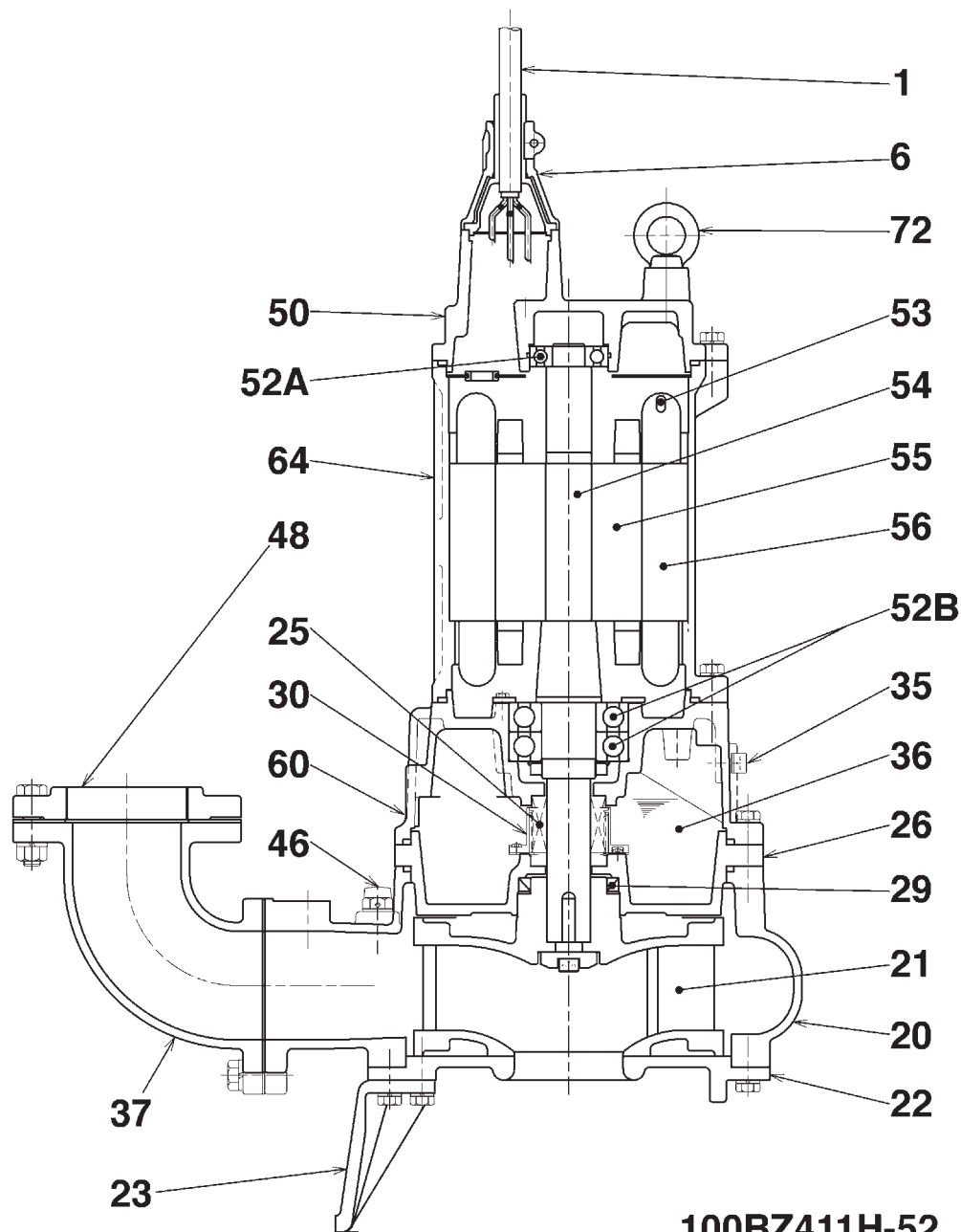
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CWL: Continuous Running Water Level

LWL: Lowest Running Water Level

Sectional Drawing

100BZ411H-52

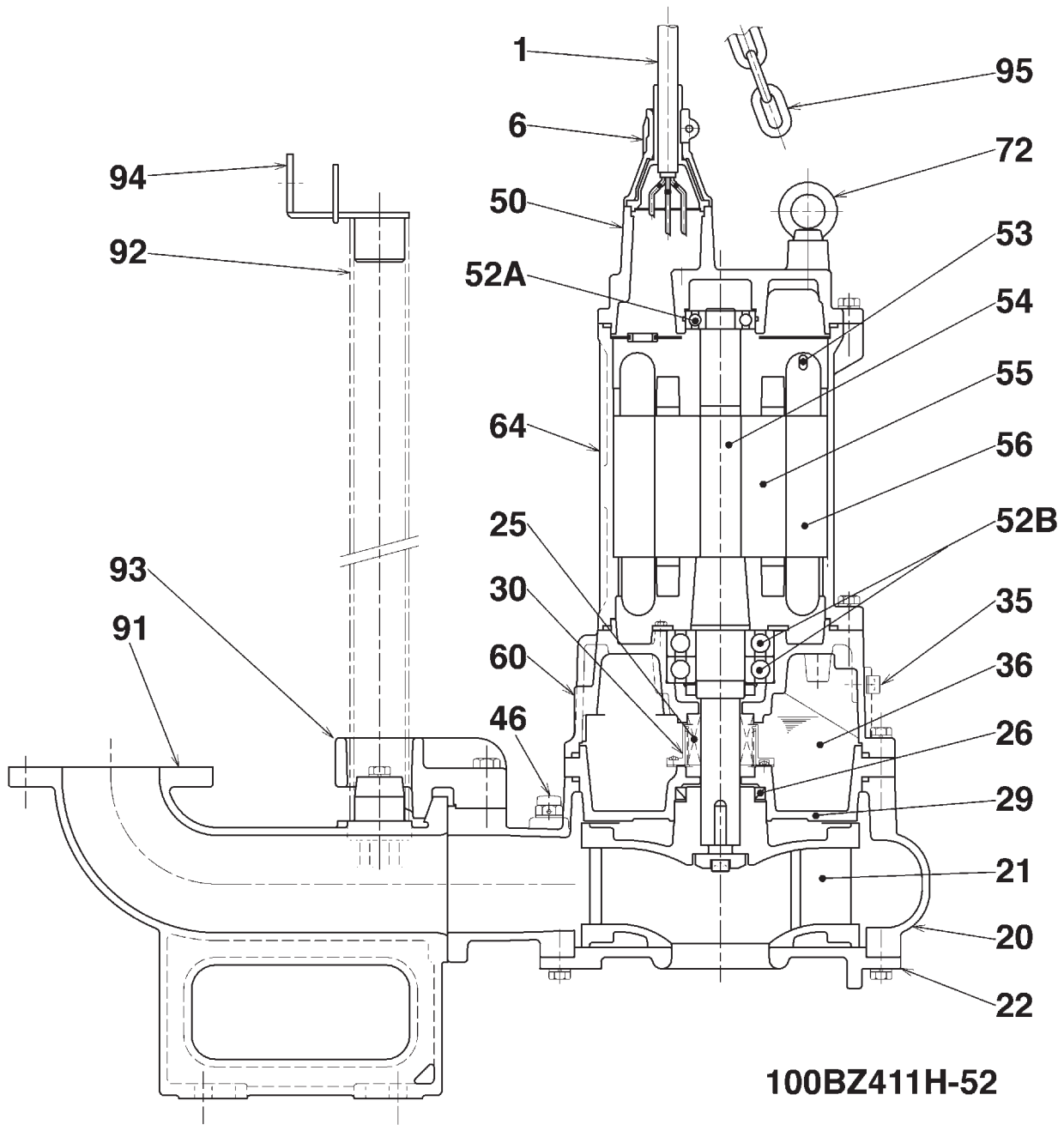


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No.	Description	Qty.	Remarks	No.	Description	Qty.	Remarks
1	Cabtyre Cable	3	H07RN-F / 2PNCT-F	48	Screwed Flange	1	FC200 (EN-GJL-200)
6	Stuffing Box	2	FC200 (EN-GJL-200)	50	Motor Bracket	1	FC200 (EN-GJL-200)
20	Pump Casing	1	FC200 (EN-GJL-200)	52A	Upper Bearing	1	6306ZZC3
21	Impeller	1	FC200 (EN-GJL-200)	52B	Lower Bearing	2	6310ZZC3D3
22	Suction Cover	1	FC200 (EN-GJL-200)	53	Motor Protector	3	
23	Stand	3	FC200 (EN-GJL-200)	54	Shaft	1	SUS420J2 (EN-X30Cr13)
25	Mechanical Seal	1	H-40	55	Rotor	1	
26	Oil Seal	1	TC709212	56	Stator	1	
29	Oil Casing	1	FC200 (EN-GJL-200)	60	Bearing Housing	1	FC150 (EN-GJL-150)
30	Oil Lifter	1	Plastic	64	Motor Frame	1	FC150 (EN-GJL-150)
35	Oil Plug	2	SUS304 (EN-X5CrNi18-10)	72	Lifting Eyebolt	2	SS400 (DIN 1.0040)
36	Lubricant		Turbine Oil (ISO VG32)				
37	Discharge Bend	1	FC200 (EN-GJL-200)				
46	Air Release Valve	1	Nylon				

Sectional Drawing

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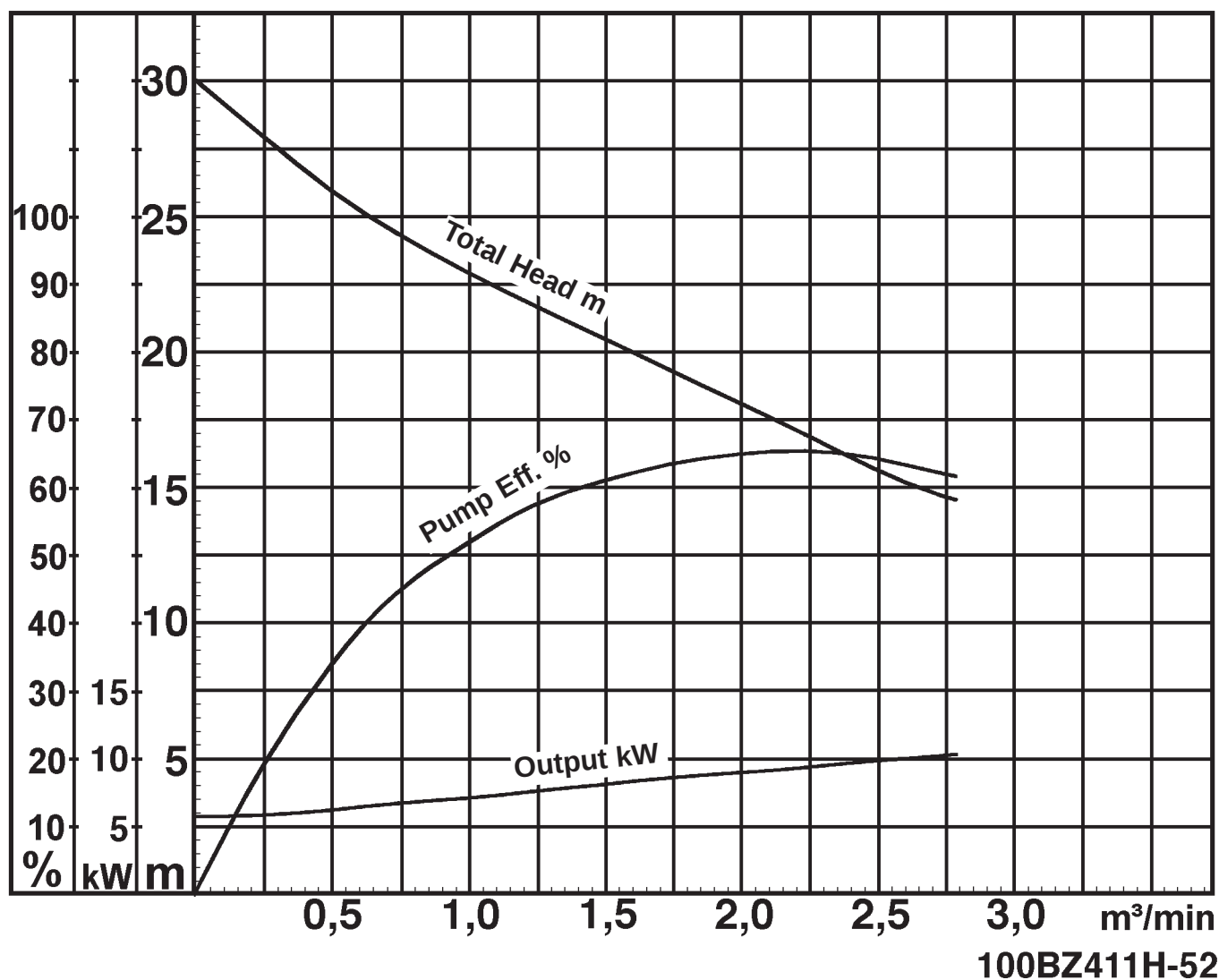


No.	Description	Qty.	Remarks	No.	Description	Qty.	Remarks
1	Cabtyre Cable	3	H07RN-F / 2PNCT-F	52B	Lower Bearing	2	6310ZZC2D3
6	Stuffing Box	2	FC200 (EN-GJL-200)	53	Motor Protector	3	
20	Pump Casing	1	FC200 (EN-GJL-200)	54	Shaft	1	SUS420J2 (EN-X30Cr13)
21	Impeller	1	FC200 (EN-GJL-200)	55	Rotor	1	
22	Suction Cover	1	FC200 (EN-GJL-200)	56	Stator	1	
25	Mechanical Seal	1	H-40	60	Bearing Housing	1	FC150 (EN-GJL-150)
26	Oil Seal	1	TC709212	64	Motor Frame	1	FC150 (EN-GJL-150)
29	Oil Casing	1	FC200 (EN-GJL-200)	72	Lifting Eyebolt	2	SS400 (DIN 1.0040)
30	Oil Lifter	1	Plastic	91	Duck Foot Bend	1	FC200 (EN-GJL-200)
35	Oil Plug	2	SUS304 (EN-X5CrNi18-10)	92	Guide Pipe (Option)	2	Carbon Steel Pipe SGPW
36	Lubricant		Turbine Oil (ISO VG32)	93	Guide Hook	1	FCD450 (EN-GJS-450-10)
46	Air Release Valve	1	Nylon	94	Guide Support	1	SUS304 (EN-X5CrNi18-10)
50	Motor Bracket	1	FC200 (EN-GJL-200)	95	Chain	1	SS400 (DIN 1.0040)
52A	Upper Bearing	1	6306ZZC3				

Pump Performance Curve

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Discharge Bore	100 mm
Total Head	18,8 m
Capacity	1,8 m³/min
Motor Output	11,0 kW
Motor Input	13,6 kW
Phase	3
Voltage	400 V
Frequency	50 Hz
Rated Current	23,8 A
Starting Current	128,0 A
Poles	4
Revolution	S.S. 1445 r.p.m.
Starting Method	star delta
Insulation Class	F



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