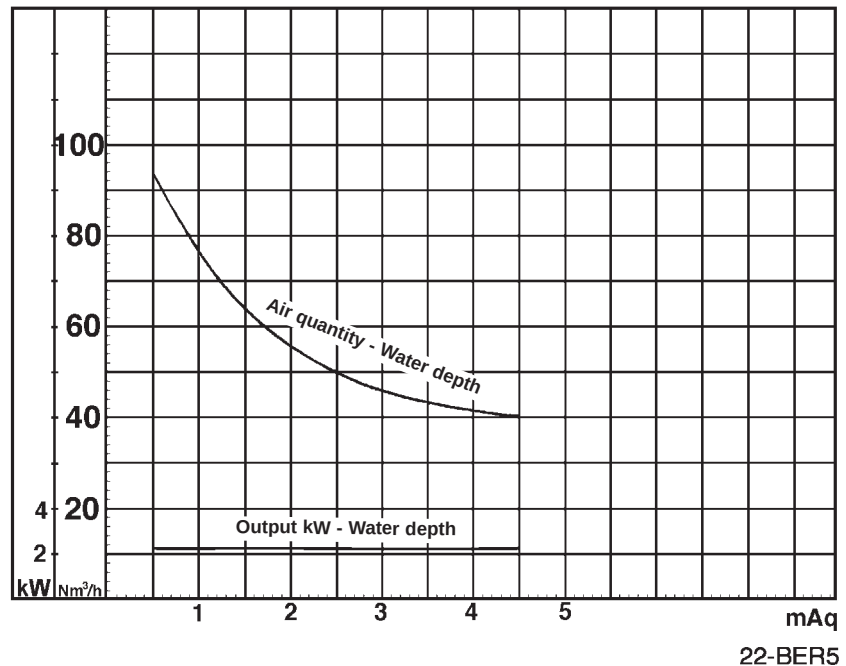
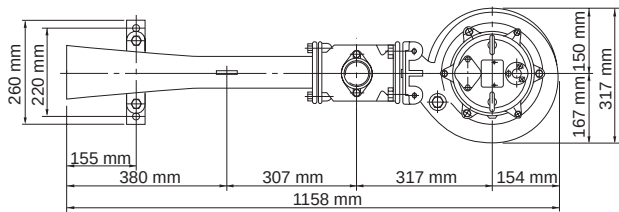


Data Sheet 22-BER5



22-BER5

Classification

Electric submersible aerator
Protection class IP68
Depth of submersion max. 30m
1-channel impeller, shrouded type
Solid handling max. 35mm
Purpose: aeration of activated sludge (municipal sewage only)

Electric Motor

Dry-type submersible induction motor,
Insulation class E, 4 poles, 1420 r.p.m.
Direct on line start
Voltage: 400V, 50Hz, 3-phase
Power input: 2,20kW
Power output: 2,85kW
Nominal current: 5,0A
Start current: 32,0A

Electric Cable

10m H07RN-F 4Cx1,5mm²

Motor Protection

Circle thermal protector
(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:
ceramic on carbon

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:	FC200 (EN-GJL-200)
Shaft:	SUS420J2 (EN-X30Cr13)
Ejector:	SS400 (DIN 1.0040) nylon coated
TOS-Ejector:	SS400 (DIN 1.0040) nylon coated

Weight

75 kg (dry weight of the pump without cable)

Air inlet

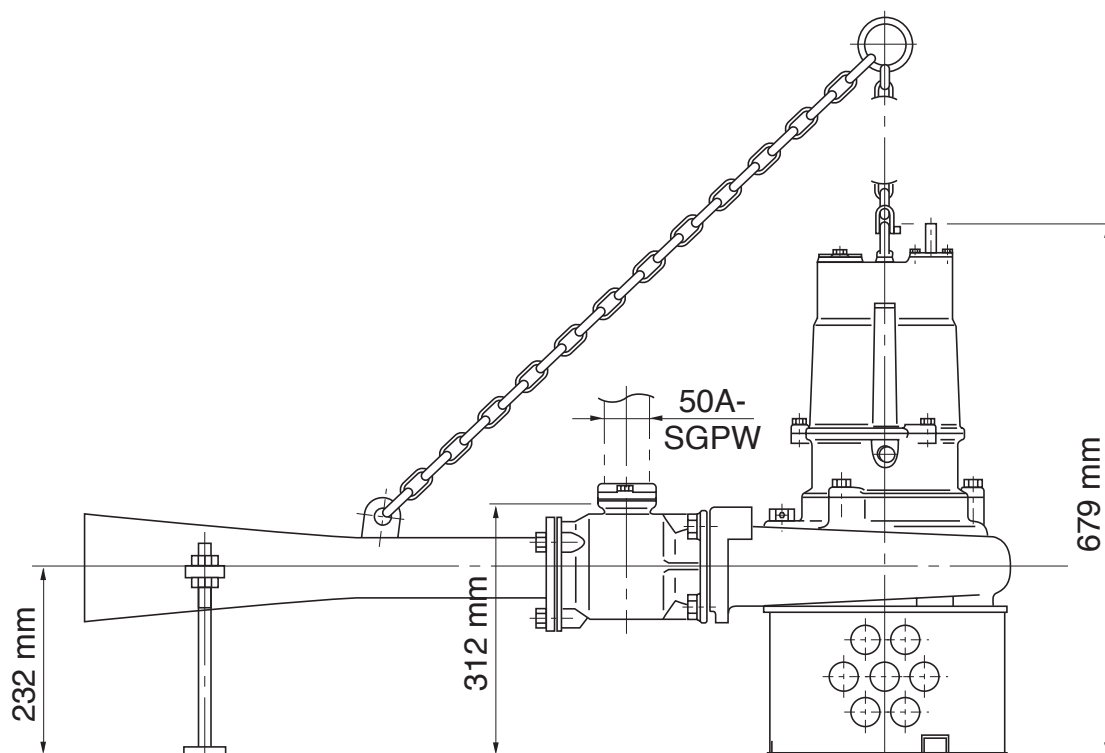
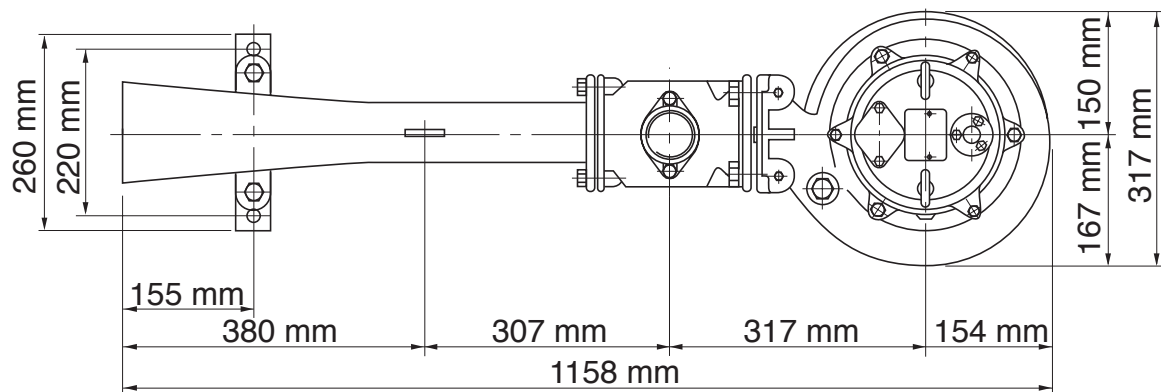
50 mm screwed-in flange
Guide rail fitting optional



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Dimensional Drawing 22-BER5

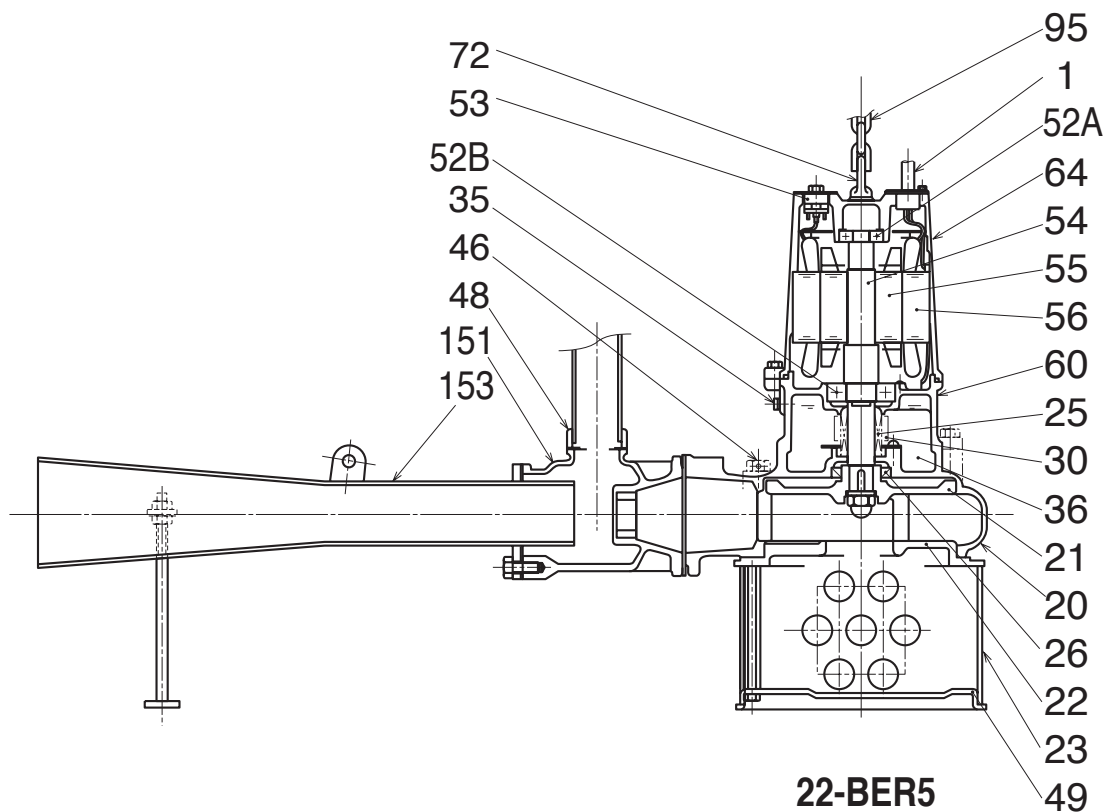


22-BER5

Dimensions in mm

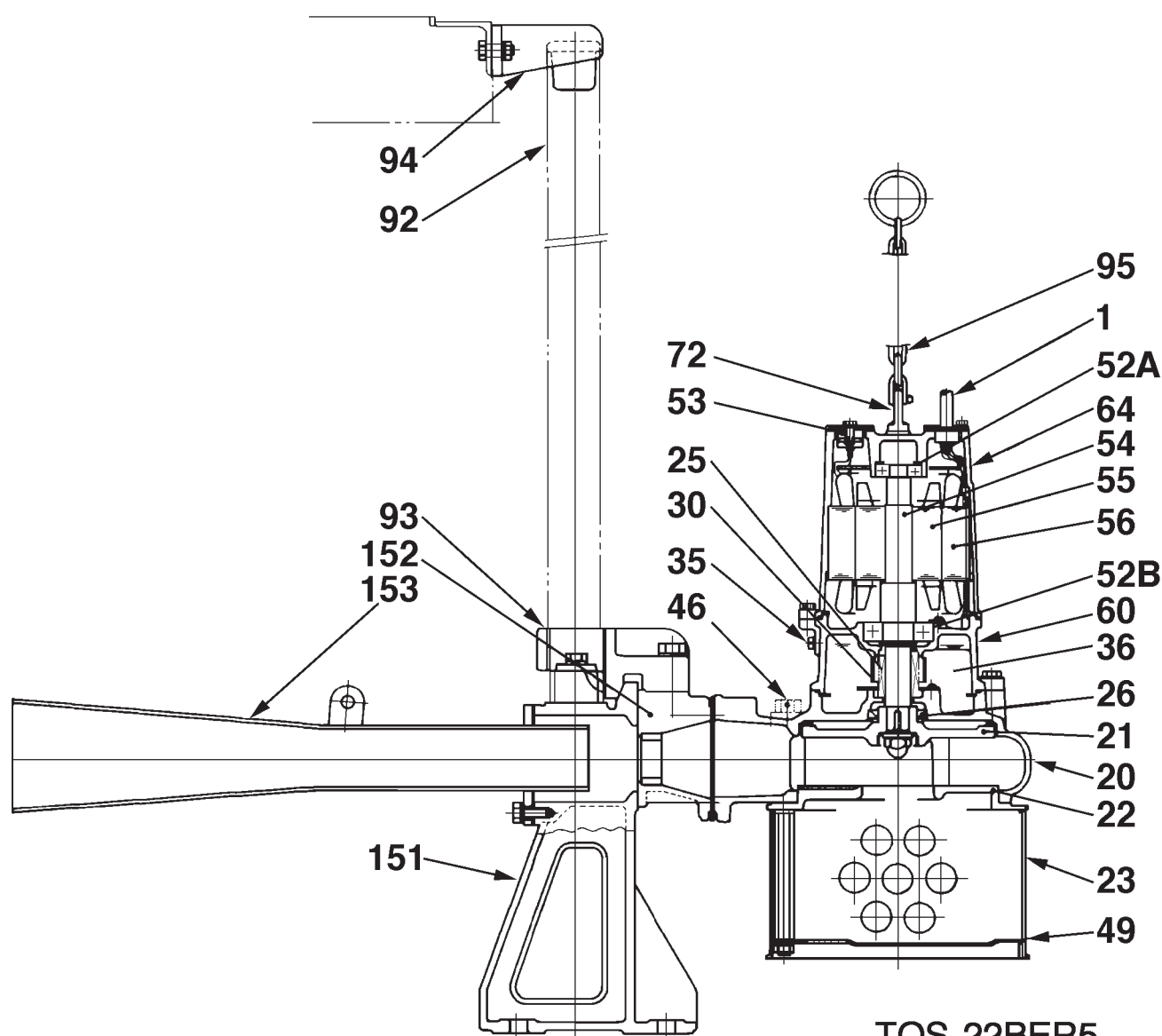


Sectional Drawing 22-BER5



No.	Description	Qty.	Remarks	No.	Description	Qty.	Remarks
1	Cabtyre Cable	1	10m H07RN-F 4Cx1,5mm²	55	Rotor	1	
20	Pump Casing	1	FC200 (EN-GJL-200)	56	Stator Complete	1	
21	Impeller	1	FC200 (EN-GJL-200)	60	Bearing Housing	1	FC200 (EN-GJL-200)
22	Suction Cover	1	FC200 (EN-GJL-200)	64	Motor Frame	1	FC200 (EN-GJL-200)
23	Pump Stand	1	Steel Plate SPCC	72	Lifting Eye Bolt	2	SUS304 (EN-X5CrNi18-10)
25	Mechanical Seal	1	H-30A	95	Lifting Chain	1	SS400 (DIN 1.0040)
26	Oil Seal	1	TC456812	151	Air-Inlet Casing	1	FC200 (EN-GJL-200)
30	Oil Lifter	1	Plastic	153	Diffuser	1	SS400 (DIN1.0040) Nylon-coated
35	Oil Plug	2	SUS304 (EN-X5CrNi18-10)				
36	Lubricant		Turbine Oil (ISO VG32)				
46	Air Release Valve	1	Nylon				
49	Bottom Plate	1	Steel Plate SPCC				
52A	Upper Bearing	1	6304ZZC3				
52B	Lower Bearing	1	6307ZZC3				
53	Motor Protector	1					
54	Shaft	1	SUS420J2 (EN-X30Cr13)				

Sectional Drawing TOS-22BER5



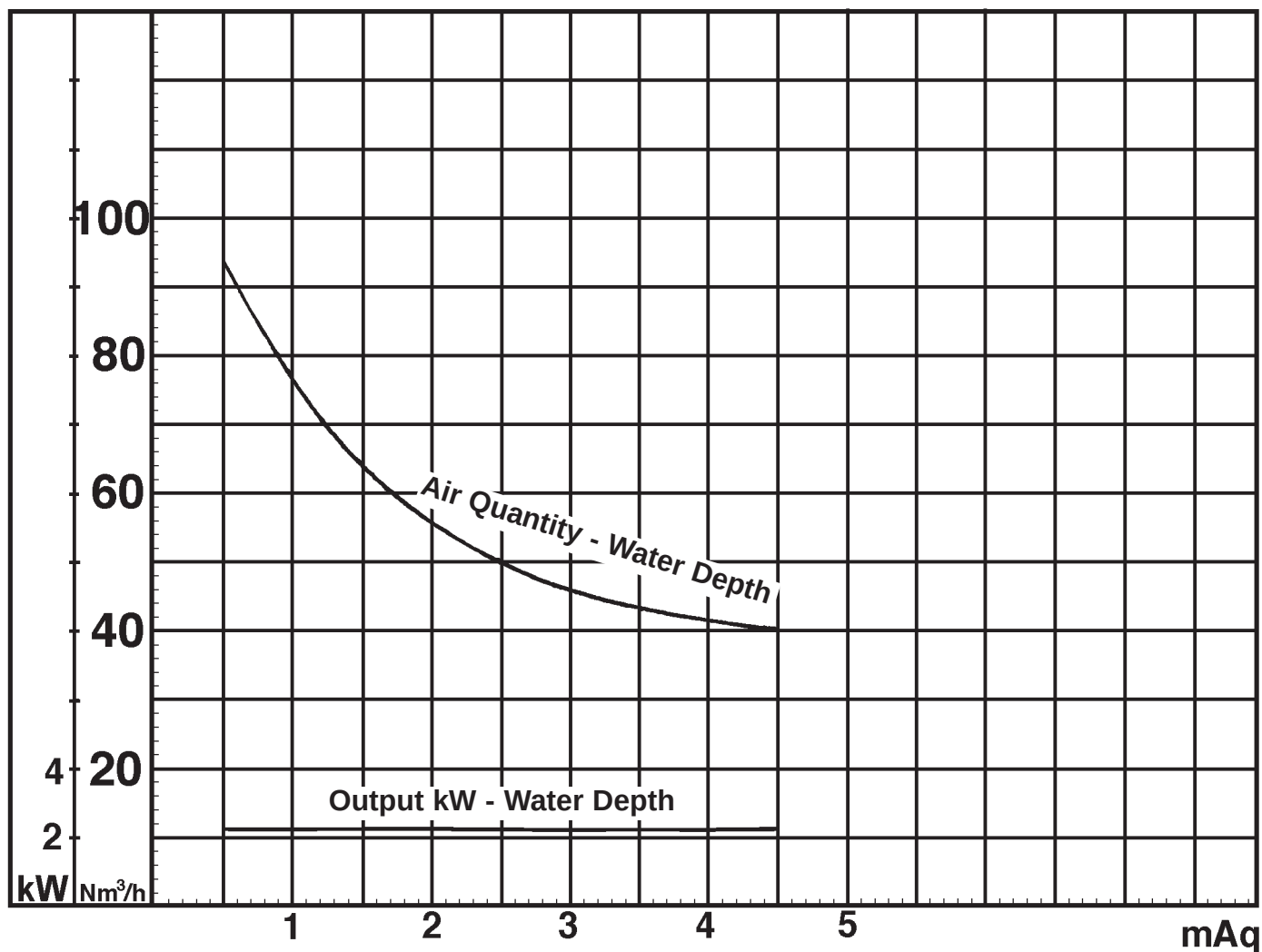
TOS-22BER5

No.	Description	Qty.	Remarks	No.	Description	Qty.	Remarks
1	Cabtyre Cable	1	10m H07RN-F 4Cx1,5mm ²	55	Rotor	1	
20	Pump Casing	1	FC200 (EN-GJL-200)	56	Stator Complete	1	
21	Impeller	1	FC200 (EN-GJL-200)	60	Bearing Housing	1	FC200 (EN-GJL-200)
22	Suction Cover	1	FC200 (EN-GJL-200)	64	Motor Frame	1	FC200 (EN-GJL-200)
23	Pump Stand	1	Steel Plate SPCC	72	Lifting Eye Bolt	2	SS304 (EN-X5CrNi18-10)
25	Mechanical Seal	1	H-30A	92	Guide Pipe (Option)	2	Galvanized Steel Pipe
26	Oil Seal	1	TC456812	93	Guide Hook	1	FCD450 (EN-GJS-450-10)
30	Oil Lifter	1	Plastic	94	Guide Support	1	FCD450 (EN-GJS-450-10)
35	Oil Plug	1	SS304 (EN-X5CrNi18-10)	95	Lifting Chain	1	SS400 (DIN 1.0040)
36	Lubricant		Turbine Oil (ISO VG32)	151	Air-Inlet Casing	1	FC200 (EN-GJL-200)
46	Air Release Valve	1	Nylon	152	Nozzle	1	FC200 (EN-GJL-200)
49	Bottom Plate	1	Steel Plate SPCC	153	Diffuser	1	SS400 (DIN 1.0040) Nylon-coated
52A	Upper Bearing	1	6304ZZC3				
52B	Lower Bearing	1	6307ZZC3				
53	Motor Protector	1					
54	Shaft	1	SUS420J2 (EN-X30Cr13)				

Aerator Performance Curve

22-BER5

Air Inlet Bore	50 mm
Air Quantity	45 Nm ³ /h
Water Depth	3 mAq
Max. Water Depth	4,5 mAq
Motor Output	2,20 kW
Motor Input	2,85 kW
Phase	3
Voltage	400 V
Frequency	50 Hz
Rated Current	5,0 A
Starting Current	32,0 A
Poles	4
Revolution	S.S. 1420 r.p.m.
Starting Method	direct on line
Insulation Class	E



22-BER5