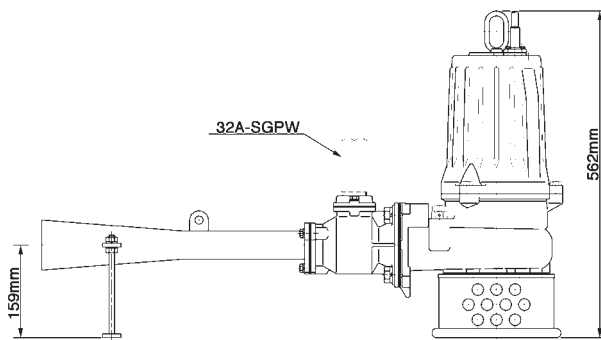
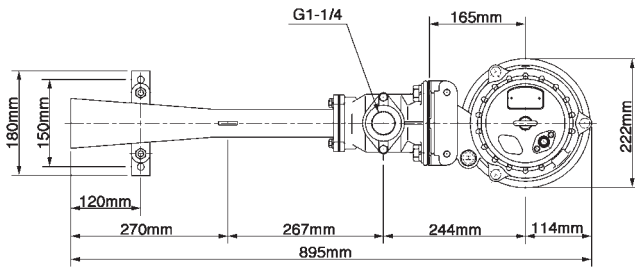
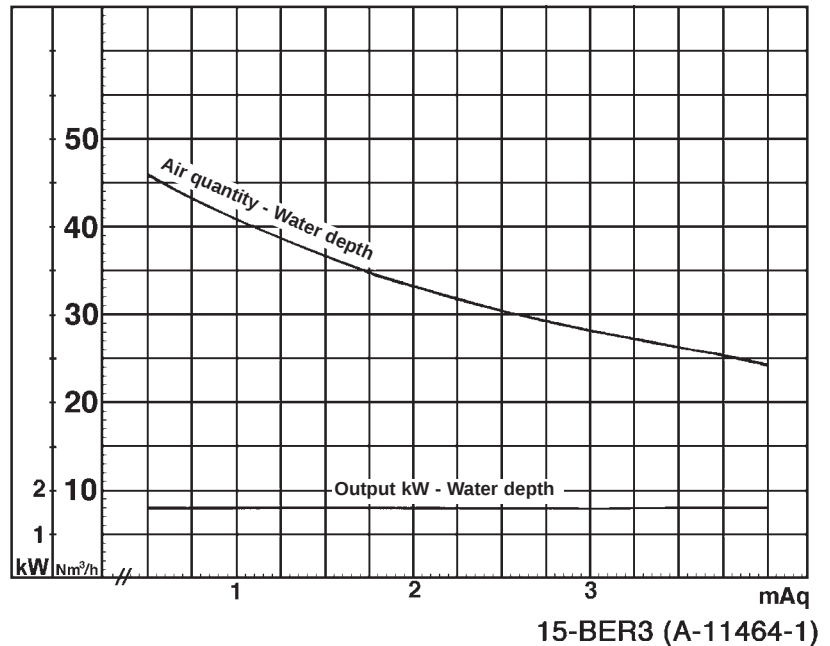


Data Sheet 15-BER3



15-BER3 (A-11466-1)



Classification

Electric submersible aerator
Protection class IP68
Depth of submersion max. 30m
1-channel impeller, non-clogging type
Solid handling max. 20mm
Purpose: aeration of activated sludge
(municipal sewage only)

Electric Motor

Dry-type submersible induction motor,
Insulation class F, 2 poles, 2840 r.p.m.
Direct on line start
Voltage: 400V, 50Hz, 3-phase
Power input: 2,15kW
Power output: 1,50kW
Nominal current: 3,5A
Start current: 22,0A

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:	FC150 (EN-GJL-150)
Shaft:	SUS420J2 (EN-X30Cr13)
Ejector:	SS400 (DIN 1.0040) nylon coated
TOS-Ejector:	SS400 (DIN 1.0040) nylon coated

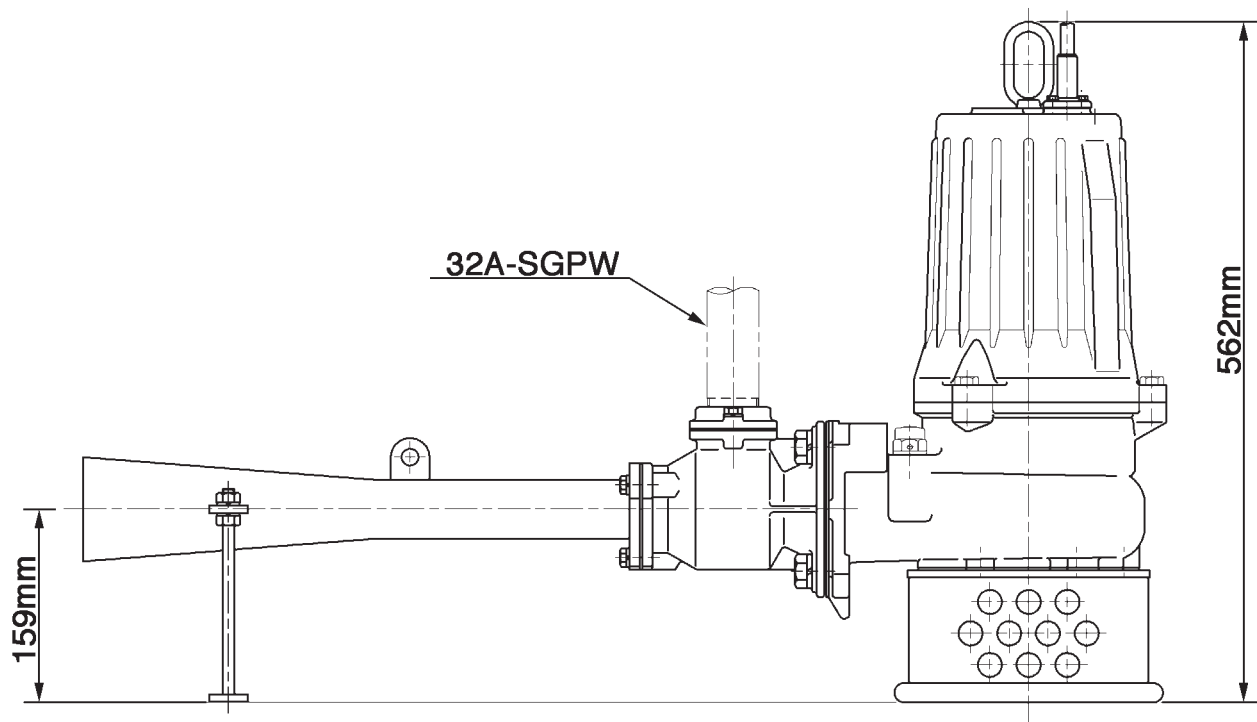
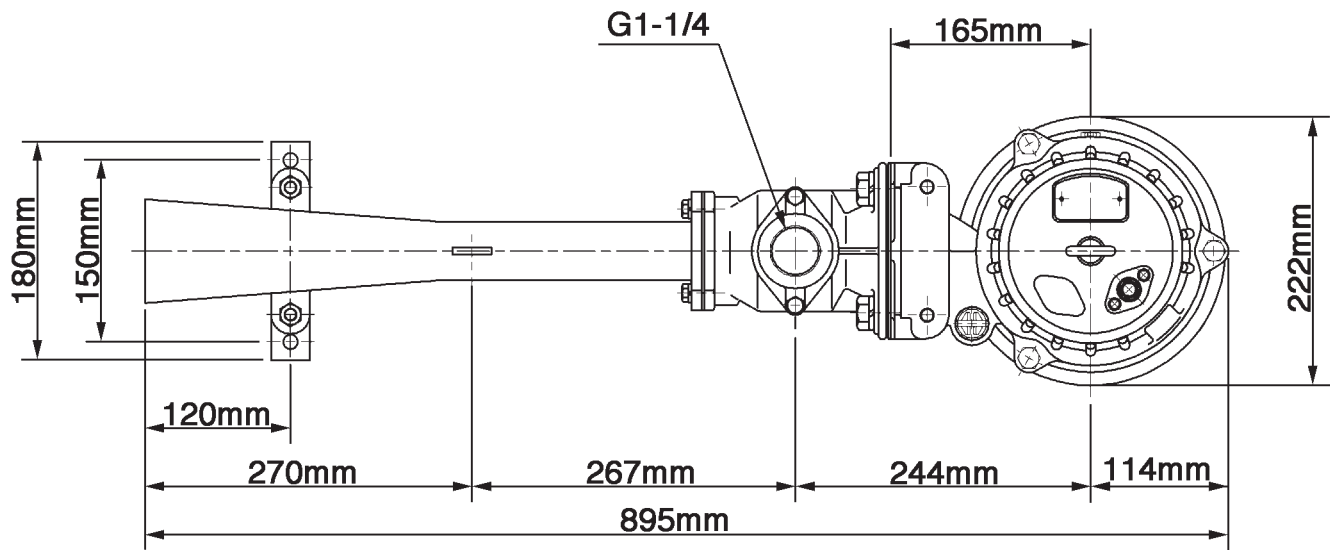
Weight

43 kg (dry weight of the pump without cable)

Air inlet

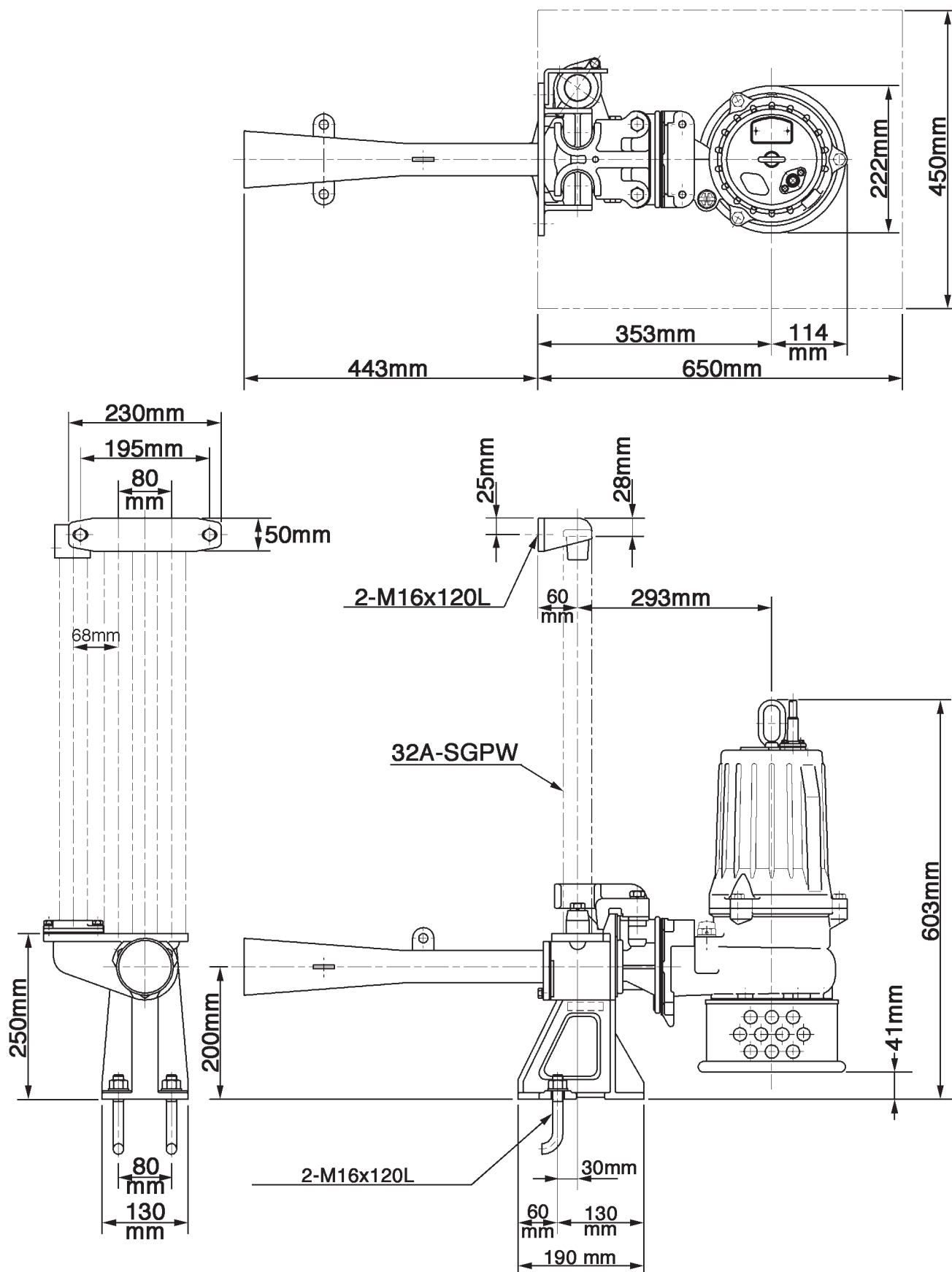
32 mm screwed-in flange
Guide rail fitting optional

Dimensional Drawing 15-BER3



15-BER3 (A-11466-1)

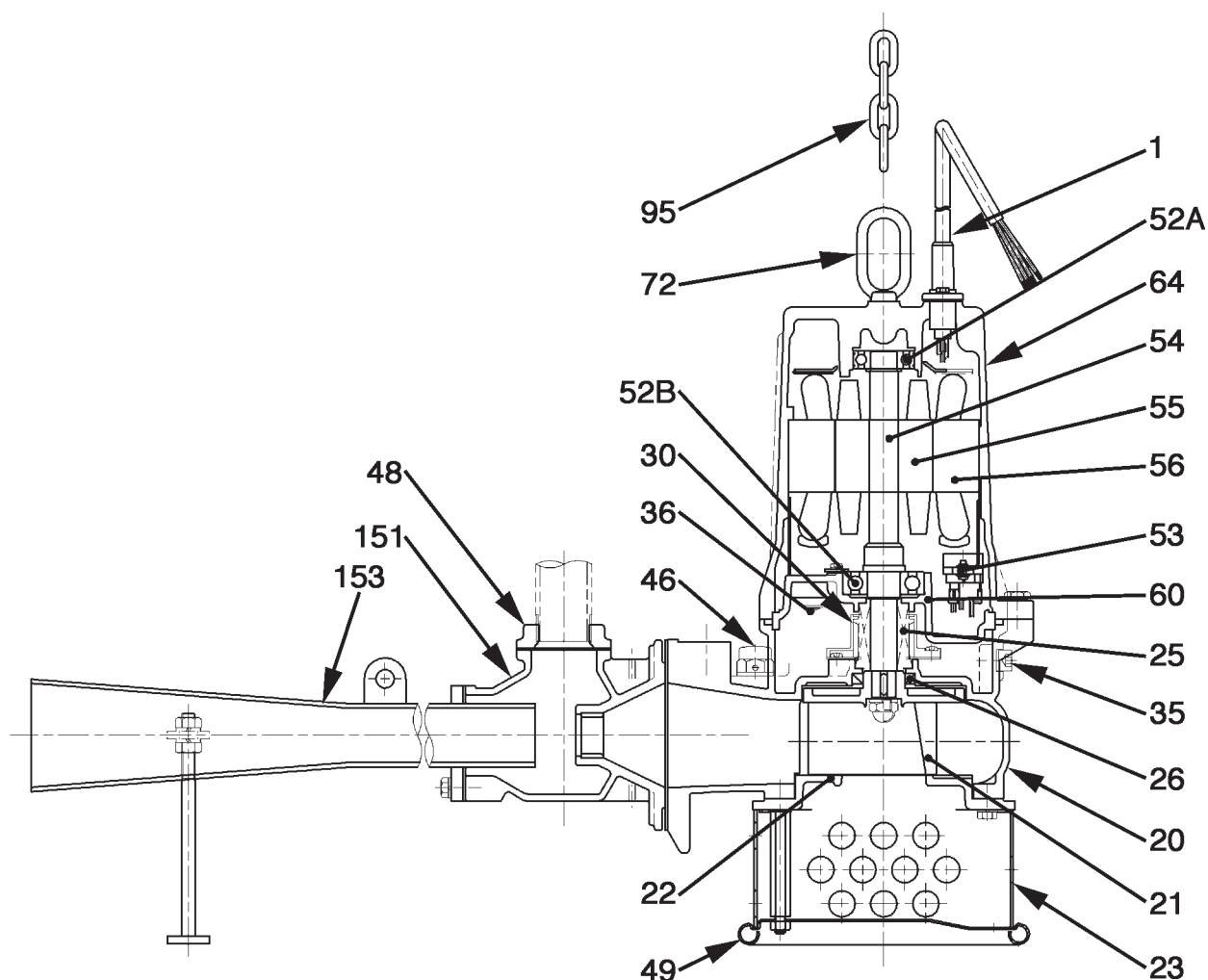
Dimensional Drawing TOS-15BER3



TOS-15BER3 (A-11468-1)

Sectional Drawing

15-BER3

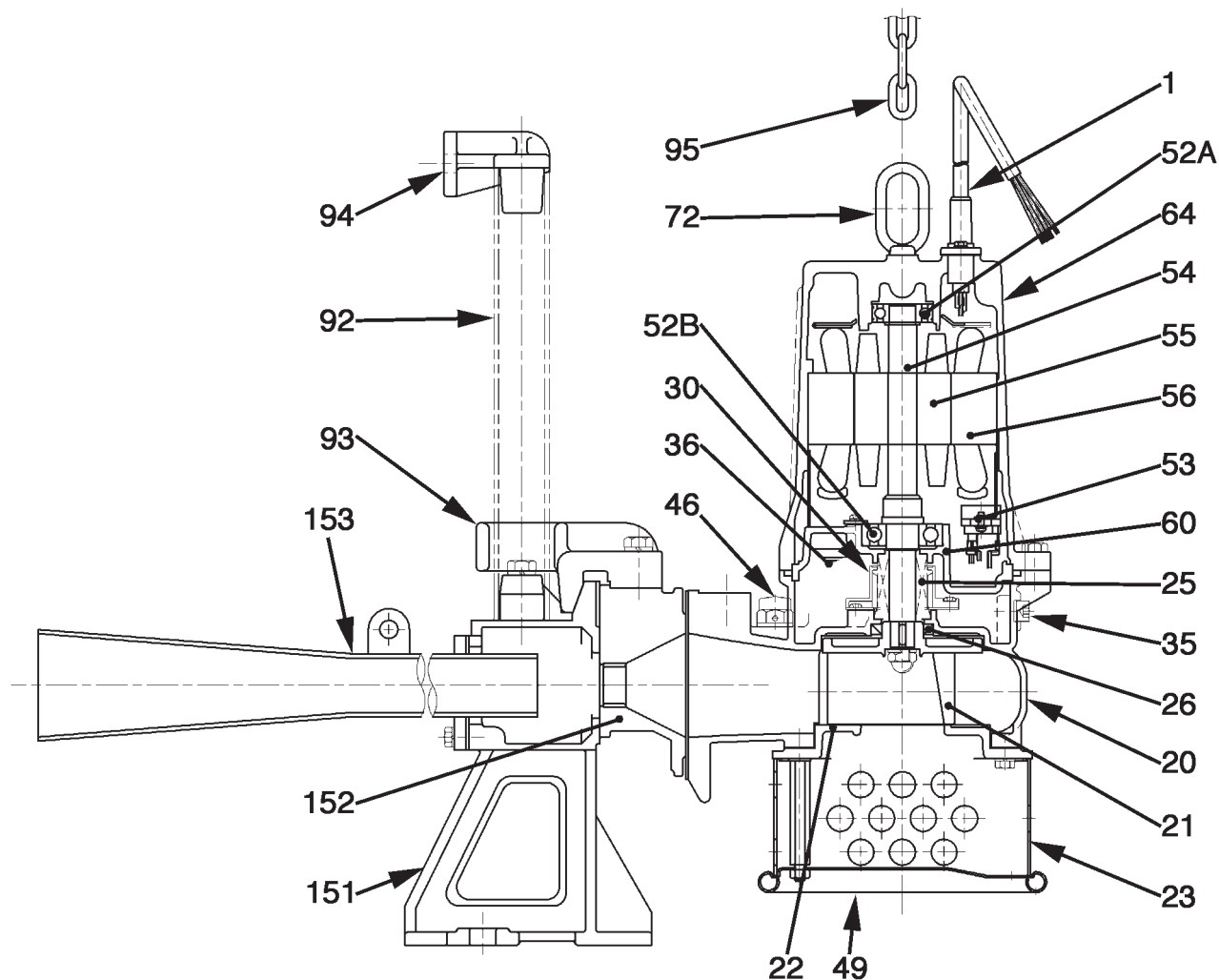


15-BER3 (A-11467-1)

No.	Description	Qty.	Remarks	No.	Description	Qty.	Remarks
1	Cable	1	H07RN-F	52B	Lower Bearing	1	6305ZZC3
20	Pump Casing	1	FC200 (EN-GJL-200)	53	Motor Protector	1	
21	Impeller	1	FC200 (EN-GJL-200)	54	Shaft	1	SUS420J2 (EN-X30Cr13)
22	Suction Cover	1	FC200 (EN-GJL-200)	55	Rotor	1	
23	Strainer Stand	1	Steel Plate SPCC	56	Stator Complete	1	
25	Mechanical Seal	1	H-20A	60	Bearing Housing	1	FC150 (EN-GJL-150)
26	Oil Seal	1	DD-32488	64	Motor Frame	1	FC150 (EN-GJL-150)
30	Oil Lifter	1	Plastic	72	Lifting Eye Bolt	1	SUS304 (EN-X5CrNi18-10)
35	Oil Plug	1	SUS304 (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	Brass Rod	153	Diffuser	1	SS400 (DIN 1.0040) Nylon-coated
48	Screw Flange	1	FC200 (EN-GJL-200)				
49	Bottom Plate	1	Steel Plate SPCC				
52A	Upper Bearing	1	6204ZZC3				

Sectional Drawing

TOS-15BER3



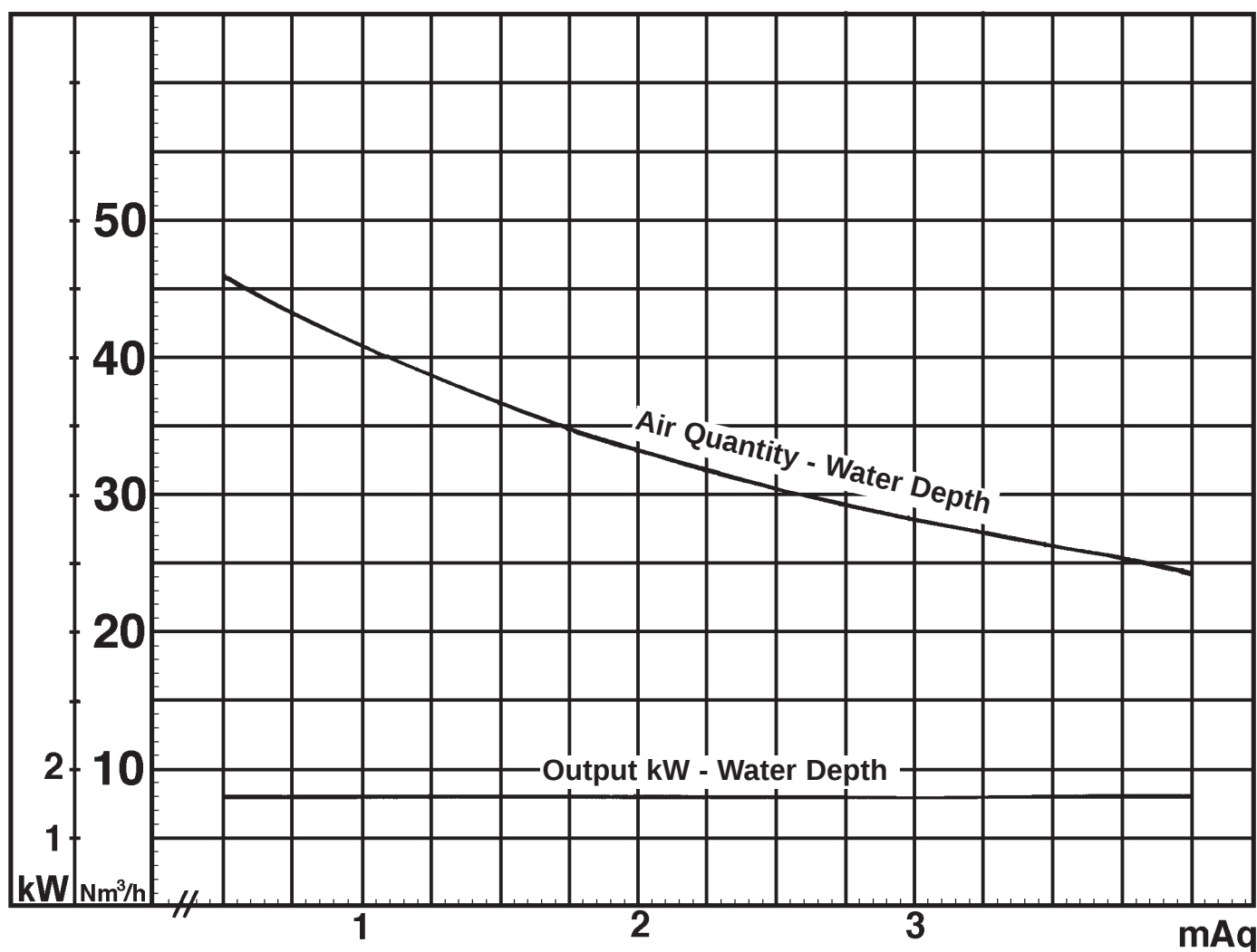
TOS-15BER3 (A-11469-1)

No.	Description	Qty.	Remarks	No.	Description	Qty.	Remarks
1	Cabtyre Cable	1	H07RN-F	54	Shaft		SUS420J2 (EN-X30Cr13)
20	Pump Casing	1	FC200 (EN-GJL-200)	55	Rotor	1	
21	Impeller	1	FC200 (EN-GJL-200)	56	Stator Complete	1	
22	Suction Cover	1	FC200 (EN-GJL-200)	60	Bearing Housing	1	FC150 (EN-GJL-150)
23	Pump Stand	1	Steel Plate SPCC	64	Motor Frame	1	FC150 (EN-GJL-150)
25	Mechanical Seal	1	H-20A	72	Lifting Eye Bolt	1	SUS304 (EN-X5CrNi18-10)
26	Oil Seal	1	DD-32488	92	Guide Pipe (Option)	2	Galvanized Steel Pipe
30	Oil Lifter	1	Plastic	93	Guide Hook	1	FCD450 (EN-GJS-450-10)
35	Oil Plug	1	SUS304 (EN-X5CrNi18-10)	94	Guide Support	1	FCD450 (EN-GJS-450-10)
36	Lubricant		Turbine Oil (ISO VG32)	95	Lifting Chain	1	SS400 (DIN 1.0040)
46	Air Release Valve	1	Brass Rod	151	Air-Inlet Casing	1	FC200 (EN-GJL-200)
48	Screwed Flange	1	FC200 (EN-GJL-200)	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	6204ZZC3				
52B	Lower Bearing	1	6305ZZC3				
53	Motor Protector	1					

Aerator Performance Curve

15-BER3

Air Inlet Bore	32 mm
Air Quantity	28 Nm ³ /h
Water Depth	3 mAq
Max. Water Depth	4 mAq
Motor Output	1,50 kW
Motor Input	2,15 kW
Phase	3
Voltage	400 V
Frequency	50 Hz
Rated Current	3,5 A
Starting Current	22,0 A
Poles	2
Revolution	S.S. 2840 r.p.m.
Starting Method	direct on line
Insulation Class	F



15-BER3 (A-11464-1)