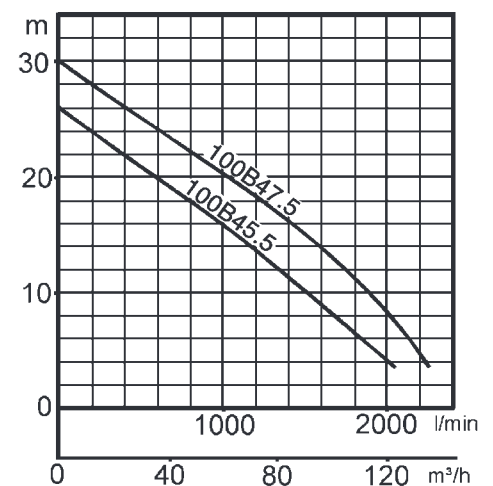
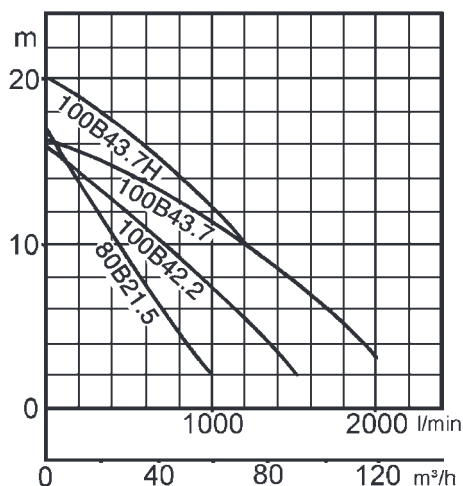
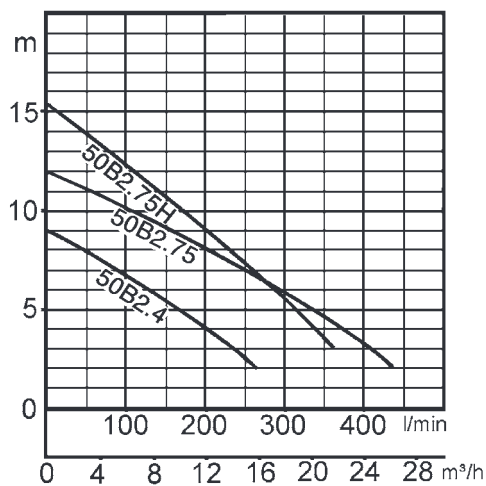
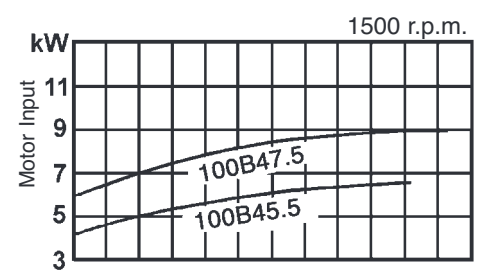
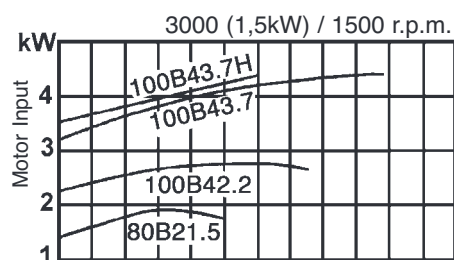
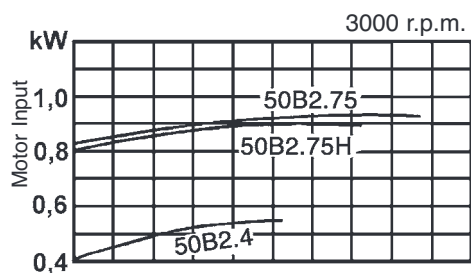


Sewage Pump with Non-Clogging Impeller



Proprietary impeller and shaver mechanism (special groove) ensures that waste water and sewage are efficiently transferred.



Non-clog Impeller



An impeller used in centrifugal pumps. This impeller is characteristic for preventing internal clogging by solids in the pumped liquid.

models 0,4kW - 3,7kW

Non-clog Impeller

(shrouded type)



An impeller having a wide channel extending from inlet to exit, which prevents internal clogging by solids sucked in via the inlet.

models 5,5kW and above

Standard Accessories:

- Cable
- Special screwed-in mating flange (1,5kW or less)
- JIS10K screwed-in mating flange (2,2kW or over)

Optional Accessories:

- Guide Rail Fitting consisting of:
 - Duck foot bend
 - Pump lifting chain
 - Guide connector
 - Guide support / Guide hook
- Discharge Bend
- Stand for free standing type (5,5kW and 7,5kW only)

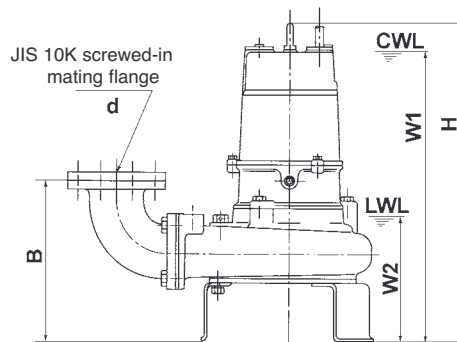
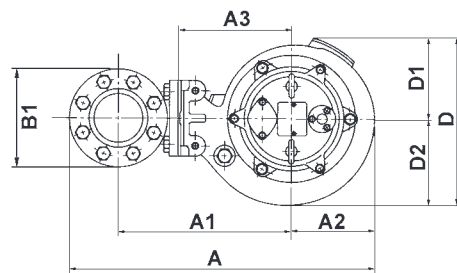
Discharge bore mm			50	80	100	B
Pumping Fluid	Type of Fluid		Sewage water, various waste water			
	Liquid Temperature		0 - 40°C			
Pump	Components	Impeller	non-clogging (3,7kW or less) shrouded type (5,5kW or above)			
		Shaft Seal	Double mechanical seal			
		Bearing	Shielded ball bearings			
	Material	Impeller	Grey iron casting			
		Casing	Grey iron casting			
		Suction Cover	Ductile iron casting (0,4kW) Grey iron casting			
		Shaft Seal (mechanical Seal)	Silicon carbide in oil bath			
Motor	Type, Poles		Dry-type submersible induction motor, 2 and 4 poles, IP68			
	Insulation		Insulation class E, F			
	Phase / Voltage		Three-phase / 400V			
	Motor Protector (built-in)		Circle thermal protector			
	Lubricant		Turbine oil (ISO VG32)			
	Material	Frame	Grey iron casting			
		Shaft	Stainless Steel EN-X6Cr13/X30Cr13			
Cable		Rubber, H07RN-F				
Discharge Connection			Special flange (1,5kW) / JIS10K			

Specifications:

Bore mm	Model		Output kW	Phase	Total Head max.m	Capacity max. l/min	Starting method	Dry Weight kg (excluding cable)		Impeller passage dia. mm	Cable m
	free standing	guide rail fitting						Free standing	TOS-model		
50	50B2.4	optional	0,4	Three	9,0	260	D.O.L.	25	24	19	10
	50B2.75	optional	0,75	Three	12,0	435	D.O.L.	25	24	20	10
	50B2.75H	optional	0,75	Three	15,2	360	D.O.L.	24	23	20	10
80	80B21.5	optional	1,5	Three	16,8	1000	D.O.L.	36	34	40	10
	100B42.2	optional	2,2	Three	16,0	1500	D.O.L.	70	64	45	10
	100B43.7	optional	3,7	Three	16,4	2000	D.O.L.	86	80	53	10
100	100B43.7H	optional	3,7	Three	20,0	1180	D.O.L.	85	78	35	10
	100B45.5	optional	5,5	Three	26,0	2080	D.O.L.	147	140	40	10
	100B47.5	optional	7,5	Three	29,8	2260	D.O.L.	169	162	40	10

Dimensions:

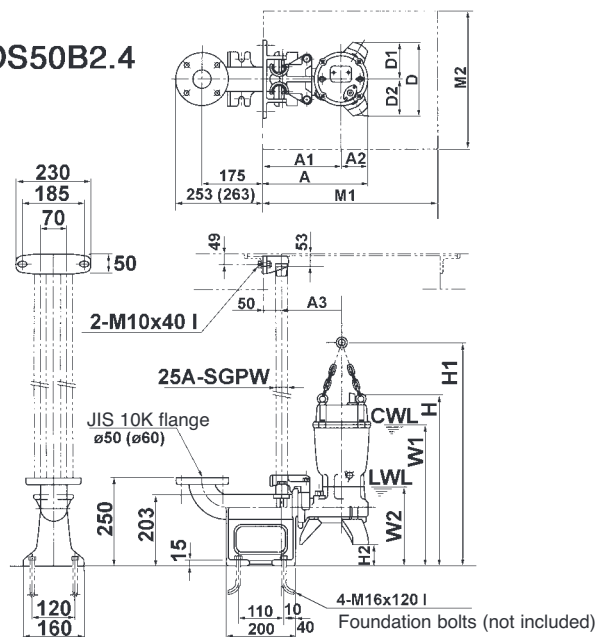
Unit mm



LWL: Lowest Running Water Level
CWL: Continuous Running Water Level

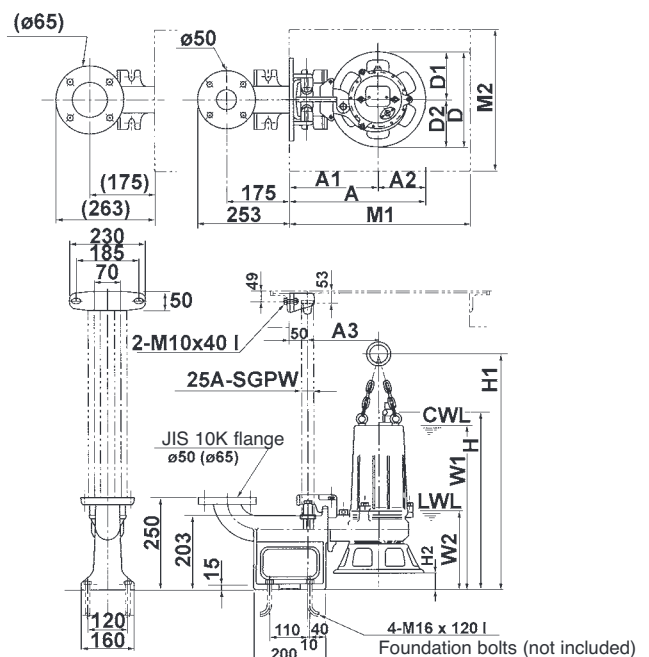
Model	discharge bore d	A	A1	A2	A3	B	B1	D	D1	D2	Operating Water Level		H
											W1	W2	
50B2.4	50	347	208	85	120	181	140	224	112	112	340	140	443
50B2.75	50	405	226	125	138	199	140	250	125	125	410	170	439
50B2.75H	50	405	226	125	138	199	140	250	125	125	385	145	415
80B21.5	80	446	267	125	165	234	140	250	125	125	465	190	536
100B42.2	80 / 100	569	322	154	210	303	--	331	164	167	570	225	616
100B43.7	80 / 100	575	322	160	210	308	--	339	164	175	645	235	690
100B43.7H	80 / 100	569	322	154	210	303	--	331	164	167	620	225	666
100B45.5	100	687	388	194	260	372	--	400	197	203	700	335	824
100B47.5	100	687	388	194	260	372	--	400	197	203	720	335	814

TOS50B2.4



LWL: Lowest Running Water Level
CWL: Continuous Running Water Level

TOS50B2.75 TOS50B2.75H



Model	A	A1	A2	A3	D	D1	D2	Operating Water Level		H	H1	H2	M1	M2
								W1	W2					
TOS50B2.4	310	225	85	175	224	112	112	400	200	478	696	58	550	350
TOS50B2.75	368	243	125	193	250	125	125	450	210	479	665	40	550	350
TOS50B2.75H	368	243	125	193	250	125	125	430	190	459	665	44	550	350

WL: Lowest Running Water Level CWL: Continuous Running Water Level

[illegible]

Model	A	A1	A2	A3	D	D1	D2	Operating Water Level		H	H1	H2	M1	M2
								W1	W2					
TOS80B21.5	410	285	125	225	250	125	125	515	240	586	--	50	500	400
TOS100B42.2	484	330	154	270	331	164	167	585	240	631	790	15	650	450
TOS100B43.7	490	330	160	270	339	164	175	655	245	700	860	10	650	450
TOS100B43.7H	484	330	154	270	331	164	167	635	240	681	840	15	650	450

LWL: Lowest Running Water Level CWL: Continuous Running Water Level



Model	A	A1	A2	A3	D	D1	D2	Operating Water Level		H	H1	H2	M1	M2
								W1	W2					
TOS100B45.5	619	425	194	330	384	181	203	690	305	822	1160	118	700	600
TOS100B47.5	619	425	194	330	384	181	203	710	305	812	1155	118	700	600

Cat.-no. B-E-06/08