

SUZUKA

SUBMERSIBLE PUMPS CATALOGUE



MAKE DEWATERING EASY

Suzuka drainage pumps are available in an extensive lineup of motor outputs. The pumps are compact and easy to handle. They are suitable for a wide range of applications including general pumping, household dewatering, removing residues, draining slurries, flood control, irrigation, agriculture, mines, quarries, tunneling, civil engineering and construction dewatering.



PRODUCT CATALOGUE

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SINGLE-PHASE SUBMERSIBLE PUMPS



Domestic Dewatering HOUSE Series

The HOUSE series are submersible single-phase portable drainage pumps. They are suitable for general clean water drainage in household.



Domestic Drainage Pumps

HOUSE Series

Applications

- Draining a flooded closet
- Removing water from an aquarium
- Pumping out a swimming pool
- Pumping of rainwater
- Small fountain
- General water drainage

Features

- Built-in automatic thermal protector to protect motor from burning and parts from damaging
- High-grade ABS plastic structure for high impact resistance and light weight
- Stainless steel shaft for corrosion resistance
- Semi-open impeller for better efficiency compared with open impeller

Specifications

Model		HOUSE-12		HOUSE-400	
Phase		Single			
Voltage	V	110	220	110	220
Frequency	Hz	50			
Output	W (HP)	200 (1/4)		400 (1/2)	
Max. Head	m	7		10	
Max. Flow	l/min	115		300	
Discharge	mm (inch)	20, 25 (3/4", 1")		50 (2")	
Lowest Water Level	mm	15		40	

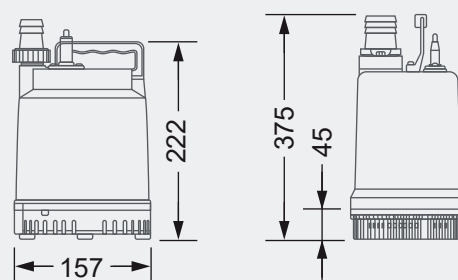
Materials

Model			HOUSE-12		HOUSE-400	
Type of Pumping Fluid			Rain Water, Ground Water			
Pump	Components	Impeller	Semi-Open Type			
		Shaft Seal	Oil Seal		Stainless Steel Mechanical Seal	
		Bearing	Shielded Ball Bearing			
	Materials	Impeller	Nylon-6		PC	
		Casing	ABS			
		Base	ABS			
Motor	Type / Poles		Dry Type Submersible Induction Motor / 2 Poles			
	Insulation Class		F		B	
	Phase / Voltage / Frequency		Single Phase / 220 V / 50 Hz			
	Motor Protector (Built-in)		In Winding Thermal Protector			
	Lubricant		ELKA-15 Good Water Resistance		Oil Turbine No. 32	
	Materials	Shaft	Stainless Steel SUS 420J			
		Cable	PVC, Standard Length: 3.6 m		PVC, Standard Length: 5 m	
Discharge Connection			House Coupling		Discharge Flange / House Coupling	



Dimensions

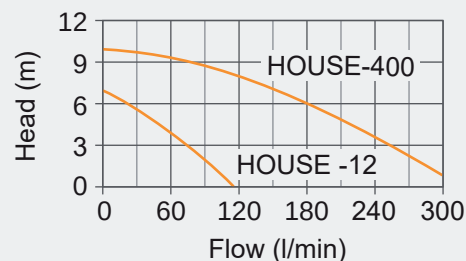
Unit: mm



HOUSE-12

HOUSE-400

Performance Curves



Multi-Field Use

HL Series

The HL series is submersible single-phase portable drainage pumps. They are multi-purpose pumps suitable for irrigation as well as dewatering at home, in restaurants, factories and construction sites.



Multi-Purpose Drainage Pumps

SH Series

Applications

- Construction dewatering
- Civil engineering
- Architectural foundation work
- Flooded street and stormwater dewatering
- Utility pits
- Basement drainage
- Spring water and silt water

Features

- The side discharge with spiral design to allow smoother passage of the sucked fluid
- Built-in automatic thermal protector to protect motor from burning and parts from damaging
- Stainless steel shaft for corrosion resistance
- The SHZ2.4S with a single float switch to reduce power consumption and extend operating life

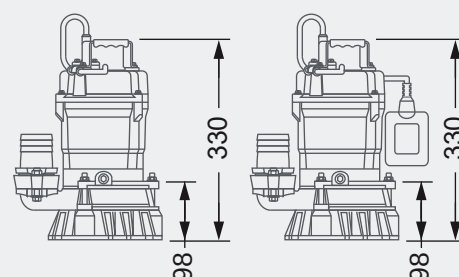
Specifications

Model		SH2.4S		SHZ2.4S	
Phase		Single			
Voltage	V	110	220	110	220
Frequency	Hz	50			
Output	W (HP)	400 (1/2)			
Max. Head	m	12			
Max. Flow	l/min	200			
Discharge	mm (inch)	50 (2")			
Lowest Water Level	mm	50			



Dimensions

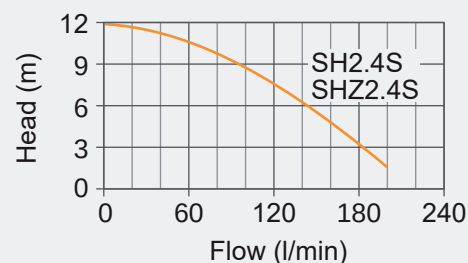
Unit: mm



SH2.4S

SHZ2.4S

Performance Curves



Materials

Model			SH2.4S	SHZ2.4S
Type of Pumping Fluid			Rain Water, Ground Water	
Pump	Components	Impeller	Semi-Open Type	
		Shaft Seal	Mechanical Seal	
		Bearing	Shielded Ball Bearing	
	Materials	Impeller	Nylon-6	
		Casing	Aluminium Diecast	
		Base	Cast Iron / Nylon-6	
Motor	Type / Poles		Dry Type Submersible Induction Motor / 2 Poles	
	Insulation Class		F	
	Phase / Voltage / Frequency		Single Phase / 220 V / 50 Hz	
	Motor Protector (Built-in)		In Winding Thermal Protector	
	Lubricant		Oil Turbine No. 32	
	Materials	Shaft	Stainless Steel SUS 420J	
		Cable	PVC, Standard Length: 5 m	
Discharge Connection			Discharge Flange / House Coupling	

Multi-Purpose Drainage Pumps

HL Series

Applications

- Construction dewatering
- Civil engineering
- Architectural foundation work
- Flooded street and stormwater dewatering
- Utility pits
- Basement drainage
- Spring water and silt water

Features

- The side discharge with spiral design to allow smoother passage of the sucked fluid
- Built-in automatic thermal protector to protect motor from burning and parts from damaging
- Stainless steel shaft for corrosion resistance
- The HLZ2.75S with a single float switch to reduce power consumption and extend operating life

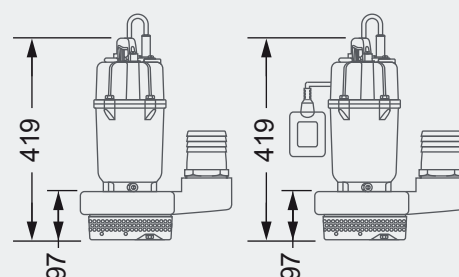
Specifications

Model		HL2.75S		HLZ2.75S	
Phase		Single			
Voltage	V	110	220	110	220
Frequency	Hz	50			
Output	W (HP)	750 (1)			
Max. Head	m	16			
Max. Flow	l/min	380			
Discharge	mm (inch)	80 (3")			
Lowest Water Level	mm	20			



Dimensions

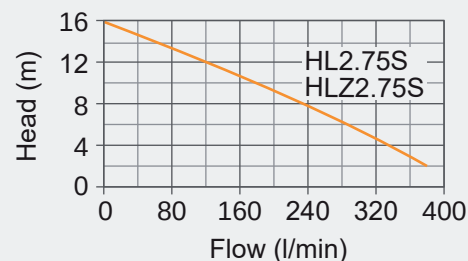
Unit: mm



HL2.75S

HLZ2.75S

Performance Curves



Materials

Model			HL2.75S	HL22.75S
Type of Pumping Fluid			Rain Water, Ground Water	
Pump	Components	Impeller	Semi-Open Type	
		Shaft Seal	Mechanical Seal	
		Bearing	Shielded Ball Bearing	
	Materials	Impeller	Cast Iron	
		Casing	Cast Iron	
		Base	Cast Iron	
Motor	Type / Poles		Dry Type Submersible Induction Motor / 2 Poles	
	Insulation Class		B	
	Phase / Voltage / Frequency		Single Phase / 220 V / 50 Hz	
	Motor Protector (Built-in)		In Winding Thermal Protector	
	Lubricant		Oil Turbine No. 32	
	Materials	Shaft	Stainless Steel SUS 420J	
		Cable	PVC, Standard Length: 5 m	
Discharge Connection			House Coupling	



Residue Drainage **SHR Series**

The SHR2.4S pump is a submersible single-phase portable residue pump. It can drain water to a low water level and is suitable for drainage duties in flooded cellars, basements and garages or any flat surface such as flat roofs and car parks where residual nuisance water persists.



Residue Drainage Pumps

SHR2.4S

Applications

- Construction dewatering
- Civil engineering
- Architectural foundation work
- Flooded street and stormwater dewatering
- Utility pits
- Basement drainage
- Spring water and silt water

Features

- The side discharge with spiral design to allow smoother passage of the sucked fluid
- Built-in automatic thermal protector to protect motor from burning and parts from damaging
- The pump can start pumping if there is water with its level of 5mm or more and can continue pumping until the water level goes down to 3mm

Specifications

Model		SHR2.4S	
Phase		Single	
Voltage	V	110	220
Frequency	Hz	50	
Output	W (HP)	400 (1/2)	
Max. Head	m	12	
Max. Flow	l/min	200	
Discharge	mm (inch)	50 (2")	
Lowest Water Level	mm	3	

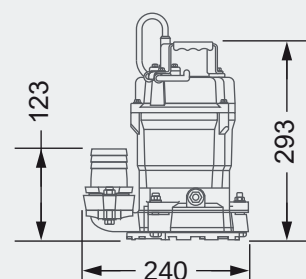
Materials

Model			SHR2.4S	
Type of Pumping Fluid			Rain Water, Ground Water, Sand Carring Water	
Pump	Components	Impeller	Semi-Vortex Type	
		Shaft Seal	Mechanical Seal	
		Bearing	Shielded Ball Bearing	
	Materials	Impeller	Cast Iron	
		Casing	Aluminium Diecast	
		Base	Cast Iron / Rubber	
Motor	Type / Poles		Dry Type Submersible Induction Motor / 2 Poles	
	Insulation Class		F	
	Phase / Voltage / Frequency		Single Phase / 110 V / 50 Hz	Single Phase / 220 V / 50 Hz
	Motor Protector (Built-in)		In Winding Thermal Protector	
	Lubricant		Turbine Oil (ISO Vg32)	
	Materials	Shaft	Stainless Steel SUS 403	
		Cable	PVC, Standard Length: 5 m	
Discharge Connection			House Coupling	



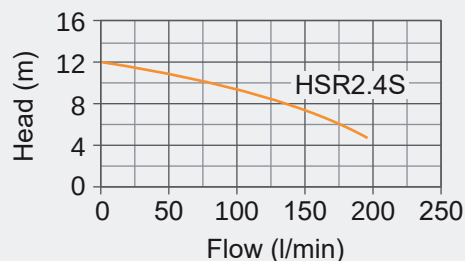
Dimensions

Unit: mm



SHR2.4S

Performance Curves



Sewage Drainage **SHD Series**

The SHD series is submersible single-phase portable sewage pumps. They are used in domestic and light commercial applications such as sewage spill or septic tank overflow.



Sewage Pumps

SHD Series

Applications

- Construction dewatering
- Civil engineering and utility pits
- Architectural foundation work
- Basement drainage
- Wastewater treatment of animal husbandry
- Wastewater treatment of food industry
- Sewage treatment plant

Features

- The side discharge with spiral design to allow smoother passage of the sucked fluid
- Built-in automatic thermal protector to protect motor from burning and parts from damaging
- Stainless steel shaft for corrosion resistance
- The SHDZ2.4S with a single float switch to reduce power consumption and extend operating life

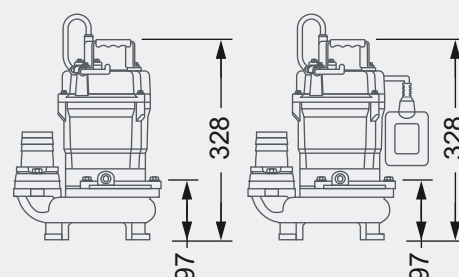
Specifications

Model		SHD2.4S	SHDZ2.4S
Phase		Single	
Voltage	V	110	220
Frequency	Hz	50	
Output	W (HP)	400 (1/2)	
Max. Head	m	12	
Max. Flow	l/min	200	
Discharge	mm (inch)	50 (2")	
Lowest Water Level	mm	29	



Dimensions

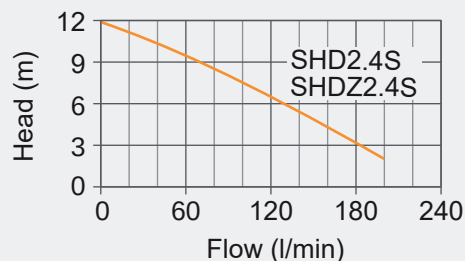
Unit: mm



SHD2.4S

SHDZ2.4S

Performance Curves



Materials

Model			SHD2.4S	SHDZ2.4S
Type of Pumping Fluid			Rain Water, Ground Water	
Pump	Components	Impeller	Semi-Open Type	
		Shaft Seal	Mechanical Seal	
		Bearing	Shielded Ball Bearing	
	Materials	Impeller	Cast Iron	
		Casing	Aluminium Diecast	
		Base	Cast Iron	
Motor	Type / Poles		Dry Type Submersible Induction Motor / 2 Poles	
	Insulation Class		B	
	Phase / Voltage / Frequency		Single Phase / 220 V / 50 Hz	
	Motor Protector (Built-in)		In Winding Thermal Protector	
	Lubricant		Oil Turbine No. 32	
	Materials	Shaft	Stainless Steel SUS 420J	
		Cable	PVC, Standard Length: 5 m	
Discharge Connection			Discharge Flange / House Coupling	

Sewage Pumps

SHD Series

Applications

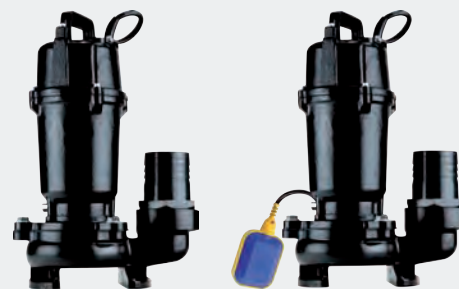
- Construction dewatering
- Civil engineering and utility pits
- Architectural foundation work
- Basement drainage
- Wastewater treatment of animal husbandry
- Wastewater treatment of food industry
- Sewage treatment plants

Features

- The side discharge with spiral design to allow smoother passage of the sucked fluid
- Built-in automatic thermal protector to protect motor from burning and parts from damaging
- Stainless steel shaft for corrosion resistance
- The SHDZ2.75S with a single float switch to reduce power consumption and extend operating life

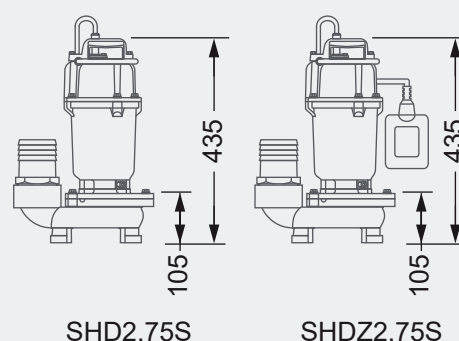
Specifications

Model		SHD2.75S	SHDZ2.75S
Phase		Single	
Voltage	V	110	220
Frequency	Hz	50	
Output	W (HP)	750 (1)	
Max. Head	m	16	
Max. Flow	l/min	450	
Discharge	mm (inch)	80 (3")	
Lowest Water Level	mm	30	

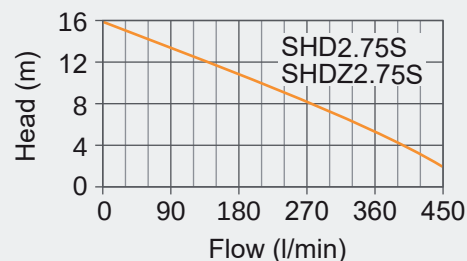


Dimensions

Unit: mm



Performance Curves



Materials

Model			SHD2.75S	SHDZ2.75S
Type of Pumping Fluid			Rain Water, Ground Water, Muddy Water	
Pump	Components	Impeller	Semi-Open Type	
		Shaft Seal	Mechanical Seal	
		Bearing	Shielded Ball Bearing	
	Materials	Impeller	Cast Iron	
		Casing	Cast Iron	
		Base	Cast Iron	
Motor	Type / Poles		Dry Type Submersible Induction Motor / 2 Poles	
	Insulation Class		B	
	Phase / Voltage / Frequency		Single Phase / 220 V / 50 Hz	
	Motor Protector (Built-in)		In Winding Thermal Protector	
	Lubricant		Oil Turbine No. 32	
	Materials	Shaft	Stainless Steel SUS 420J	
		Cable	PVC, Standard Length: 5 m	
Discharge Connection			House Coupling	

THREE-PHASE SUBMERSIBLE PUMPS



Construction Dewatering GS Series

The GS series is submersible three-phase cast iron heavy-duty drainage pumps. They are designed to withstand demanding conditions found in construction, aggregate and mining applications.

General Construction Drainage Pumps

GS Series

■ Applications

- Construction dewatering
- Civil engineering
- Architectural foundation works
- Mines and quarries
- Silt water and slurries
- Sewage treatment plants
- General pumping purposes

■ Features

- Rigid cast iron of pump body for durability
- High pressure endurance of mechanical seal for greater submersion depth
- High chrome alloy semi-open impeller together with wear plate for durability
- Discharge channel cast as part of motor housing for effective motor cooling
- Top outlet for economical space
- Built-in thermal protectors of hermetically sealed motors with power 11kW or below to protect motors from burning and parts from damaging
- Without built-in thermal protectors for motors with power 15kW or above, customers are required to connect the S1 and S2 wires to customer's control panels externally

■ Specifications

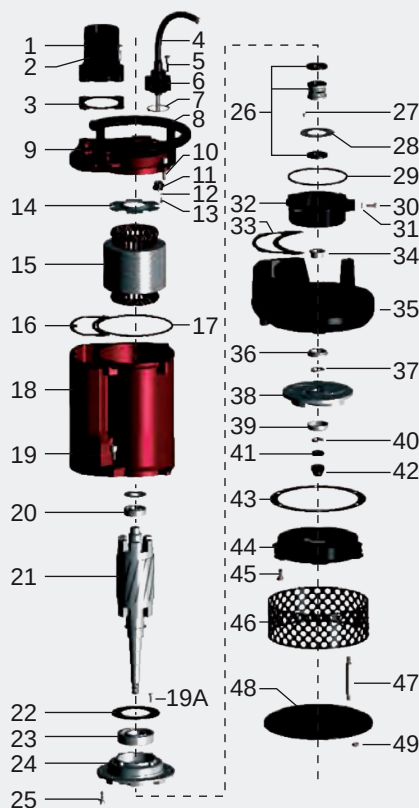
Model		GS Series
Phase		3
Voltage	V	380 / 400 / 415
Frequency	Hz	50
Output	kW (HP)	1.5~15 (2~20)
Head	m	up to 56
Flow	m ³ /h	up to 156
Discharge	mm (inch)	50~150 (2"~6")
Max. Water Depth	m	25
Water Temperature	°C	up to 40
Insulation Class		F
Protection Class		IP68
Cable Length	m	8



General Engineering Drainage Pumps

GS Series

Construction

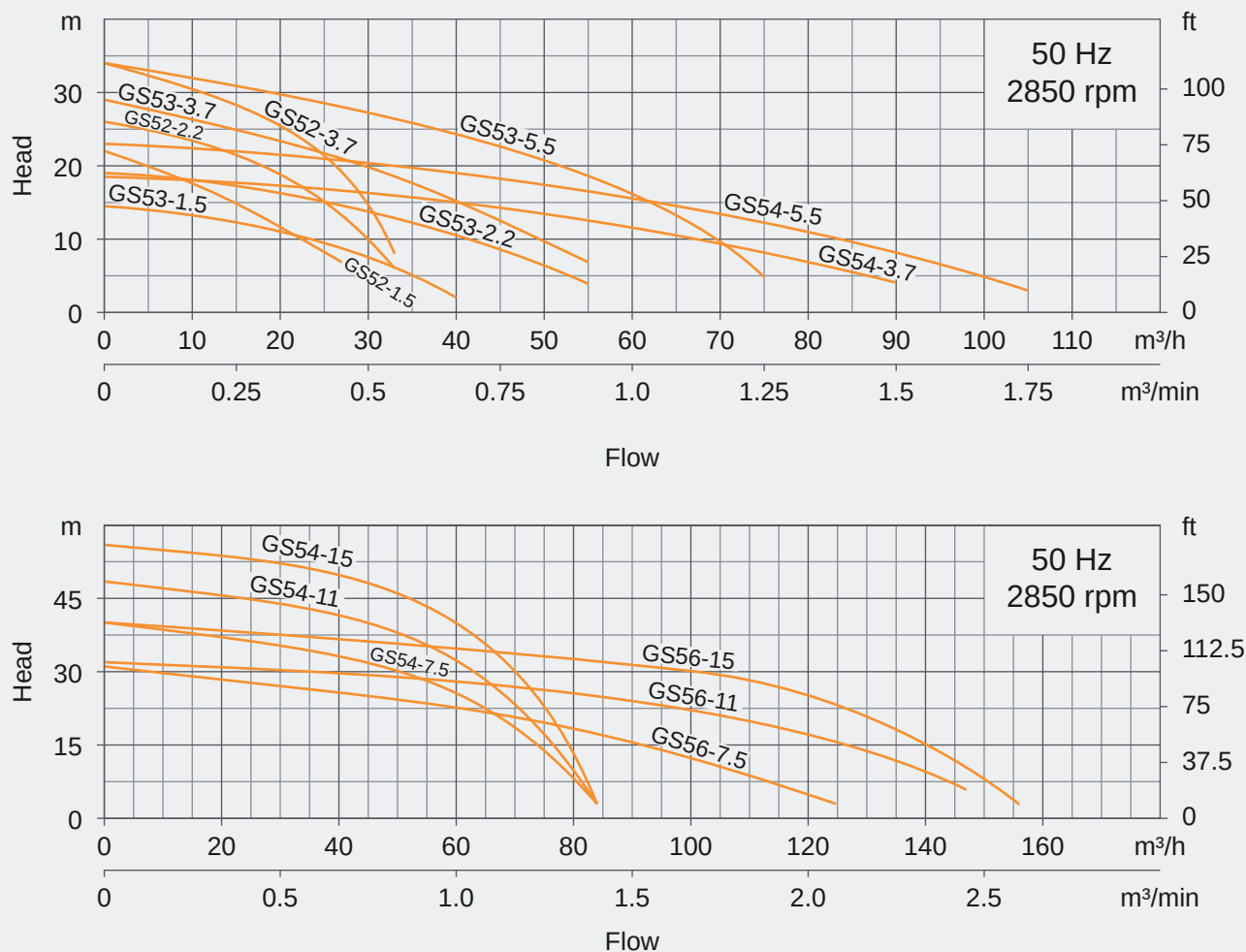


No.	Part Name	No.	Part Name
1	Hose coupling	26	Mechanical seal (SIC-SUS 304-SIC)
2	Hexagonal bolt (SUS 304)	27	Stud bolt
3	Rubber seal	28	Plate
4	Cable	29	O-ring
5	Hexagonal bolt (SUS 304)	30	Oil plug
6	Junction box (SUS 304)	31	Packing
7	O-ring	32	Oil plug
8	Handle (SUS 304)	33	Packing
9	Upper protector	34	Shaft sleeve (Bronze)
10	Hexagonal bolt (SUS 304)	35	Pump casing
11	Motor Protector	36	Labyrinth ring
12	Plain washer	37	Impeller adjusting washer
13	Hexagonal bolt (SUS304)	38	Impeller (high chromium)
14	Lead wire protection plate	39	Impeller thread protective cover
15	Stator	40	Spring washer
16	Packing washer	41	Hexagonal nut
17	O-ring	42	Impeller nut (SUS 304)
18	Motor body	43	Suction cover gasket
19	Hexagonal bolt (SUS 304)	44	Suction cover (high chromium)
20	Bearing (C&U/NSK)	45	Hexagonal bolt (SUS 304)
21	Rotor (SUS 304)	46	Strainer (SUS 304)
22	Plate	47	Stud bolt (SUS 304)
23	Bearing (C&U/NSK)	48	Bottom plate
24	Bearing house	49	Hexagonal nut (SUS 304)
25	Hexagonal bolt		

General Engineering Drainage Pumps

GS Series

Performance Curves



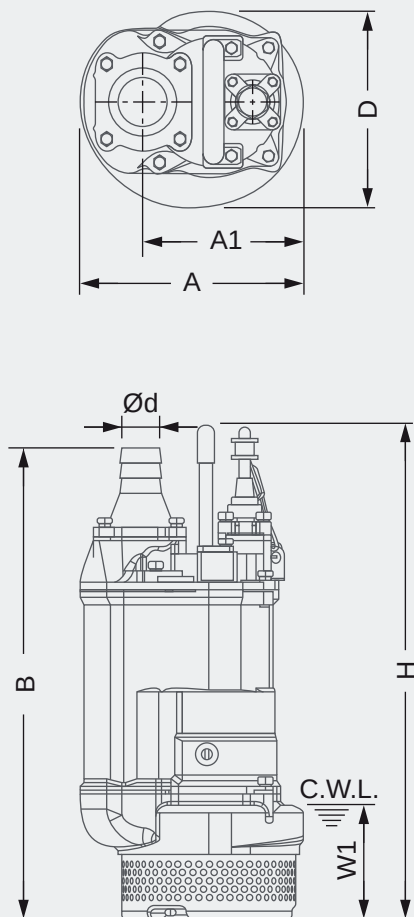
Performance Table

Model (50Hz)	Outlet	Motor Power		Rated Current (400V)	Rated Flow		Rated Head	Max. Flow		Max. Head	Impeller Passage
	mm	kW	HP	A	m³/h	m³/min	m	m³/h	m³/min	m	mm
GS52-1.5	50	1.5	2	3.5	15	0.25	15	27	0.45	22	8.5
GS52-2.2	50	2.2	3	5	18	0.30	20	33	0.55	26	8.5
GS52-3.7	50	3.7	5	7.7	12	0.20	30	33	0.55	34	8.5
GS53-1.5	80	1.5	2	3.5	30	0.50	8	40	0.67	14.5	8.5
GS53-2.2	80	2.2	3	5	36	0.60	11	55	0.92	19	8.5
GS53-3.7	80	3.7	5	7.7	30	0.50	20	55	0.92	29	8.5
GS53-5.5	80	5.5	7.5	11.4	36	0.6	25	75	1.25	34	8.5
GS54-3.7	100	3.7	5	7.7	60	1.0	11.5	90	1.50	18.5	8.5
GS54-5.5	100	5.5	7.5	11.4	60	1.0	16	105	1.75	23	8.5
GS54-7.5	100	7.5	10	15	48	0.8	30	84	1.40	40	11.5
GS54-11	100	11	15	22	60	1.0	35	84	1.40	48.5	11.5
GS54-15	100	15	20	29.5	60	1.0	42	84	1.40	56	11.5
GS56-7.5	150	7.5	10	15	90	1.6	15	124.8	2.08	31	19.5
GS56-11	150	11	15	22	102	1.7	22	147	2.45	32	19.5
GS56-15	150	15	20	29.5	102	1.7	30	156	2.60	40	19.5

General Engineering Drainage Pumps

GS Series

■ Dimensions & Weights



C.W.L.: Continuous running water level

Model (50Hz)	d	A	A1	B	D	H	W1	N.W.	G.W.	Packing Dimensions
	mm	mm	mm	mm	mm	mm	mm	kg	kg	mm
GS52-1.5	50	235	173	535	216	505	120	36	40	610x265x265
GS52-2.2	50	235	173	535	216	505	120	39	43	610x265x265
GS52-3.7	50	283	208	628	252	629	150	63	68	710x320x295
GS53-1.5	80	235	173	535	216	505	120	36	40	610x265x265
GS53-2.2	80	235	173	535	216	505	120	39	43	610x265x265
GS53-3.7	80	283	208	628	252	629	150	63	68	710x320x295
GS53-5.5	80	283	208	671	252	590	150	77	84	750x350x360
GS54-3.7	100	283	208	642	252	629	150	63	68	710x320x295
GS54-5.5	100	283	208	686	252	590	150	77	84	750x350x360
GS54-7.5	100	330	240	764	314	676	190	106	116	835x365x385
GS54-11	100	373	255	807	350	695	190	136	148	885x415x435
GS54-15	100	373	255	842	350	755	190	144	158	935x415x435
GS56-7.5	150	330	240	790	314	676	190	108	119	865x365x385
GS56-11	150	373	255	807	350	695	190	139	150	885x415x435
GS56-15	150	373	255	842	350	755	190	146	160	935x415x435

High-Head Dewatering HH Series

The HH series is submersible three-phase cast iron high-head drainage pumps. They are designed for applications where slurries are required to be pumped to a high level.



High-Head Drainage Pumps

HH Series

■ Applications

- High-head dewatering
- Deep well pre-dewatering
- Construction works
- Civil engineering
- Mines and quarries
- Silt water and slurries
- Sewage treatment plants
- General pumping purposes

■ Features

- Rigid cast iron of pump body for durability
 - High pressure endurance of mechanical seal for greater submersion depth
 - Discharge channel cast as part of motor housing for effective motor cooling
 - Top outlet for economical space
 - Dry type submersible induction motor
- Built-in thermal protectors of hermetically sealed motors with power 11kW or below to protect motors from burning and parts from damaging
- Without built-in thermal protectors for motors with power 15kW or above, customers are required to connect the S1 and S2 wires to customer's control panels externally

■ Specifications

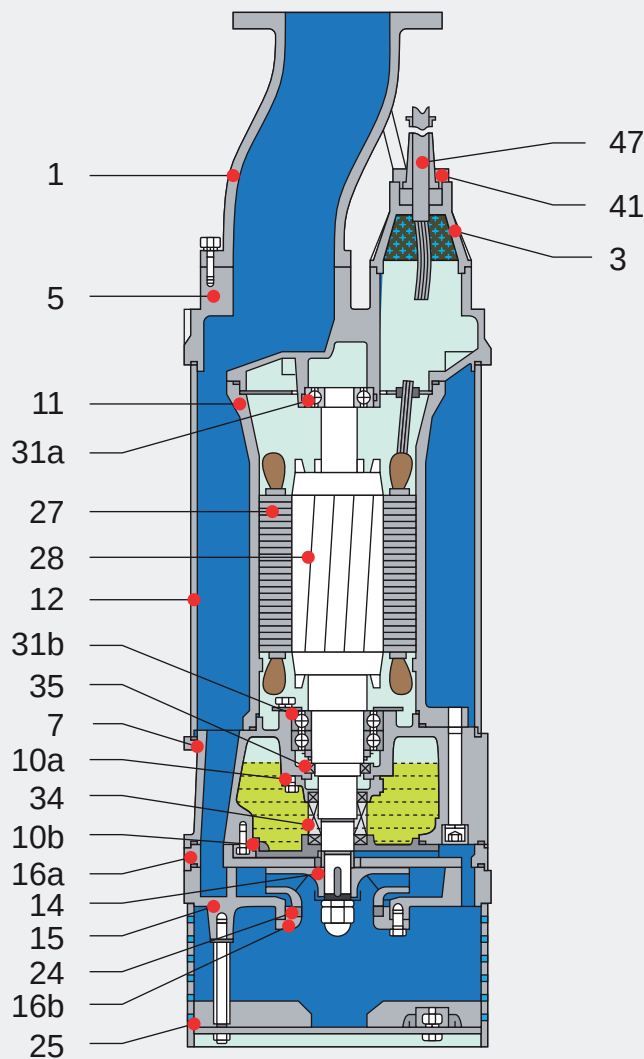
Model		HH Series
Phase		3
Voltage	V	380 / 400 / 415
Frequency	Hz	50
Output	kW (HP)	22~75 (30~100)
Head	m	up to 130
Flow	m³/h	up to 390
Discharge	mm (inch)	100~200 (4"~8")
Max. Water Depth	m	30
Water Temperature	°C	up to 40
Insulation Class		F
Protection Class		IP68
Cable Length	m	20



High-Head Drainage Pumps

HH Series

Construction

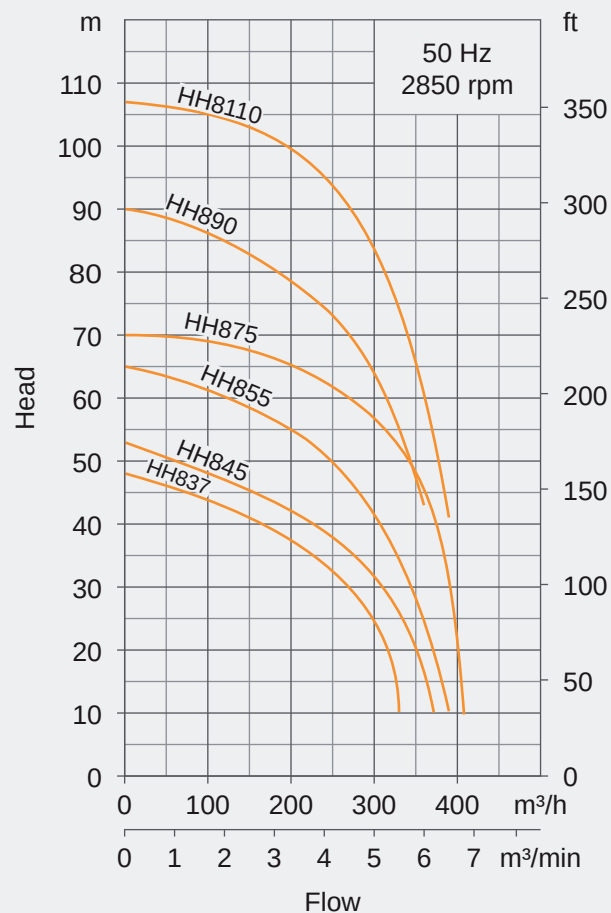
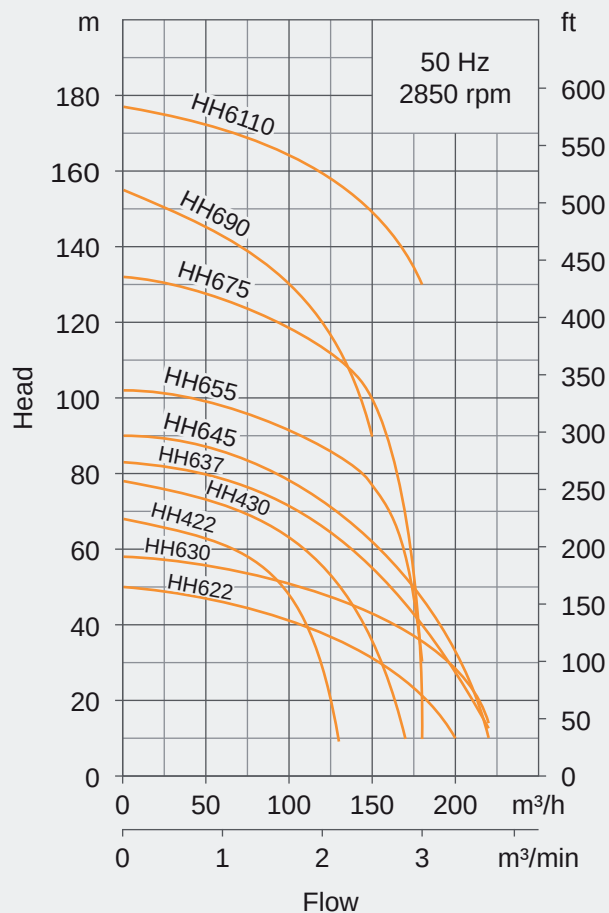


HH Series						
No.	Part Name	Material		No.	Part Name	Material
1	Hose coupling	Ductile iron		16b	Inlet plate	Cast iron
3	Terminal box	Cast iron		24	Neck ring	High chrome alloy
5	Upper cover	Cast iron		25	Strainer	AISI304SS
7	Bearing house	Cast iron		27	Stator	--
10a	Seal bracket	Cast iron		28	Rotor	Shaft:AISI420SS
10b	Seal bracket	Cast iron		31a	Bearing	Ball bearing
11	Motor body	Cast iron		31b	Bearing	Ball bearing
12	Outer casing	Steel		34	Mechanical seal	Tc-Sic/Sic-Sic
14	Impeller	High chrome alloy		35	Oil seal	--
15	Diffuser	Ductile iron		41	Shim	Cast iron
16a	Inlet plate	Ductile iron		47	Cable	--

High-Head Drainage Pumps

HH Series

Performance Curves



Performance Table

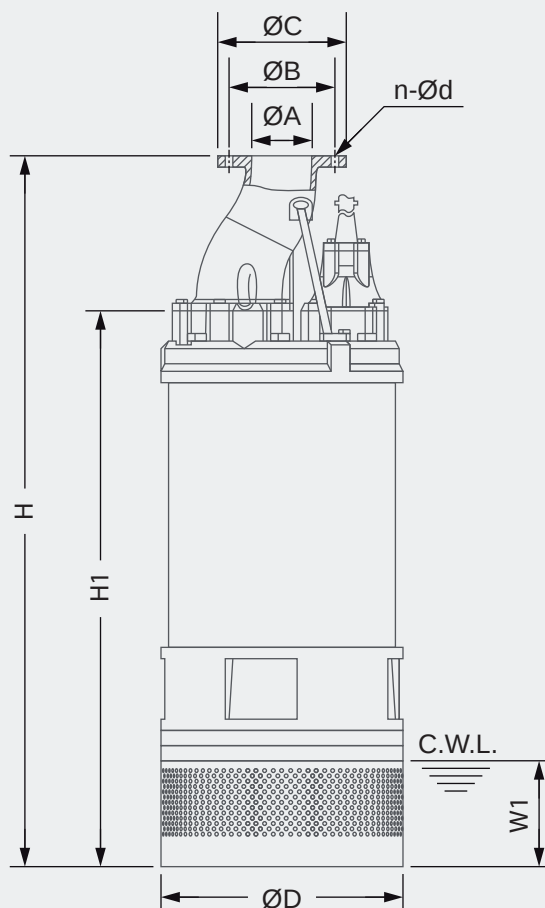
Model (50Hz)	Outlet	Motor Power		Rated Current (400V)	Rated Flow		Rated Head	Max. Flow		Max. Head	Impeller Passage
	mm	kW	HP	A	m³/h	m³/min	m	m³/h	m³/min	m	mm
HH422	100	22	30	41.5	66	1.1	60	130	2.17	68	6
HH430	100	30	40	54	72	1.2	70/75	170	2.83	78	6
HH622	150	22	30	41.5	120	2.0	37/40	200	3.33	50	15
HH630	150	30	40	54	140	2.33	45/48	220	3.67	58	15
HH637	150	37	50	66	60	1.0	80	220	3.67	83	6
HH645	150	45	60	80	84	1.4	80	220	3.67	90	6
HH837	200	37	50	66	216	3.6	35	330	5.50	48	20
HH845	200	45	60	80	270	4.5	35	372	6.20	53	20
HH655	150	55	75	100	90	1.5	90	180	3.00	102	8
HH675	150	75	100	134	90	1.5	120	180	3.00	132	8
HH855	200	55	75	100	240	4.0	50	390	6.50	65	20
HH875	200	75	100	134	270	4.5	60	408	6.80	70	20
HH690	150	90	120	162	120	2.0	120	150	2.50	155	10
HH890	200	90	120	162	270	4.5	70	360	6.00	90	20
HH6110	150	110	150	198	120	2.0	150	180	3.00	177	10
HH8110	200	110	150	198	270	4.5	90	390	6.50	107	20

* Starting Method: Star-Delta

High-Head Drainage Pumps

HH Series

■ Dimensions & Weights



C.W.L.: Continuous running water level

Model (50Hz)	A mm	B mm	C mm	n-Ød mm	D mm	H mm	H1 mm	W1 mm	N.W. kg	G.W. kg	Packing Dimensions mm
HH422	100	180	220	8-Ø17.5	420	1374	1072	240	370	410	1495x490x700
HH430	100	180	220	8-Ø17.5	420	1374	1072	240	375	415	1495x490x700
HH622	150	240	285	8-Ø22	420	1434	1082	250	385	425	1565x490x700
HH630	150	240	285	8-Ø22	420	1434	1082	250	390	430	1565x490x700
HH637	150	240	285	8-Ø22	530	1424	1072	180	570	615	1555x600x850
HH645	150	240	285	8-Ø22	530	1424	1072	180	575	620	1555x600x850
HH837	200	295	340	12-Ø22	530	1474	1072	180	575	625	1605x600x850
HH845	200	295	340	12-Ø22	530	1474	1072	180	580	630	1605x600x850
HH655	150	240	285	8-Ø22	550	1630	1280	200	830	880	1765x620x910
HH675	150	240	285	8-Ø22	550	1630	1280	200	830	880	1765x620x910
HH855	200	295	340	12-Ø22	550	1680	1280	200	880	930	1815x620x910
HH875	200	295	340	12-Ø22	550	1680	1280	200	880	930	1815x620x910
HH690	150	250	300	8-Ø26	592	1687	1282	200	1100	1160	1825x665x965
HH890	200	295	340	12-Ø22	592	1687	1282	200	1120	1160	1825x665x965
HH6110	150	250	300	8-Ø26	592	1687	1282	200	1130	1190	1825x665x965
HH8110	200	295	340	12-Ø22	592	1687	1282	200	1150	1210	1825x665x965

Large-Flow Dewatering KBS Series

The KBS series is submersible three-phase cast iron large-flow drainage pumps. They are designed for applications where large volume of fluid is required to be removed in a short period of time.



Large-Flow Drainage Pumps

KBS Series

■ Applications

- Construction works
- Civil engineering
- Architectural foundation works
- Mines and quarries
- Sludge and liquid-containing mud
- Bentonite
- Sewage treatment plants
- General pumping purposes

■ Features

- With 4-pole motor for extended lifetime and greater convenience
- High chrome alloy impeller combined with agitator for pumping slurry
- Slim design with top discharge for installation in small space
- Especially suitable for bentonite mixed water in foundation works or muddy water in civil engineering works
- Built-in thermal protectors of hermetically sealed motors with power 11kW or below to protect motors from burning and parts from damaging
- Without built-in thermal protectors for motors with power 15kW or above, customers are required to connect the S1 and S2 wires to customer's control panels externally

■ Specifications

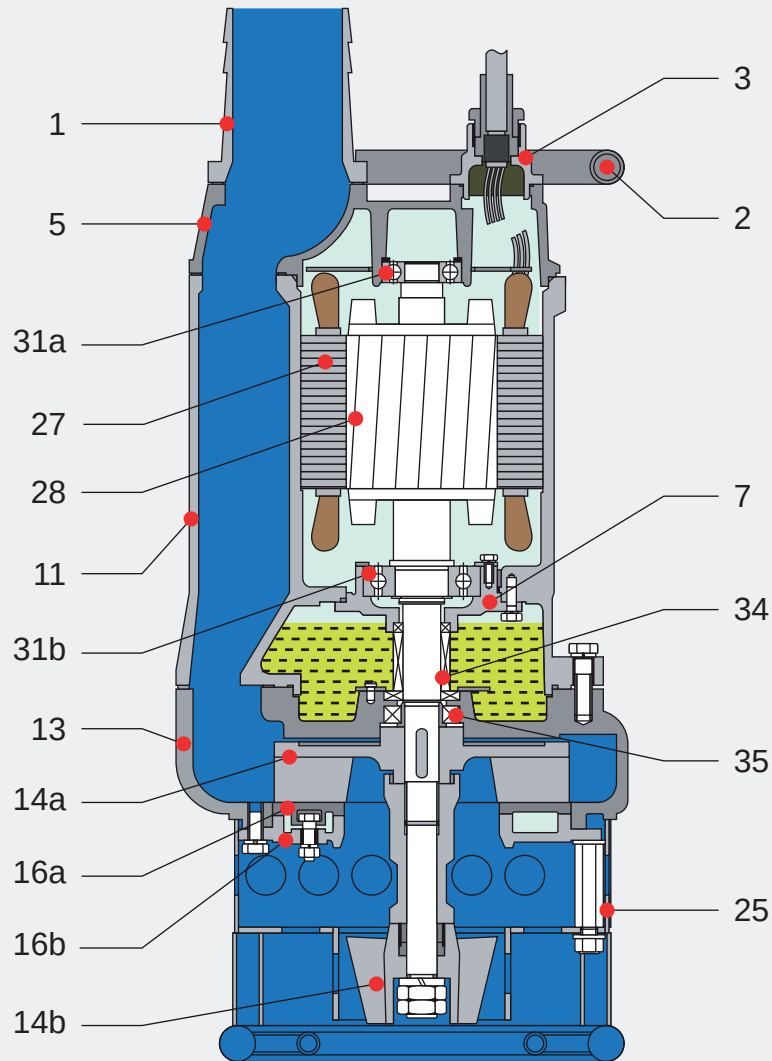
Model		KBS Series
Phase		3
Voltage	V	380 / 400 / 415
Frequency	Hz	50
Output	kW (HP)	4~22 (5.5~30)
Head	m	up to 32
Flow	m³/h	up to 372
Discharge	mm (inch)	80~200 (3"~8")
Max. Water Depth	m	15
Water Temperature	°C	up to 40
Insulation Class		F
Protection Class		IP68
Cable Length	m	8



Large-Flow Drainage Pumps

KBS Series

Construction

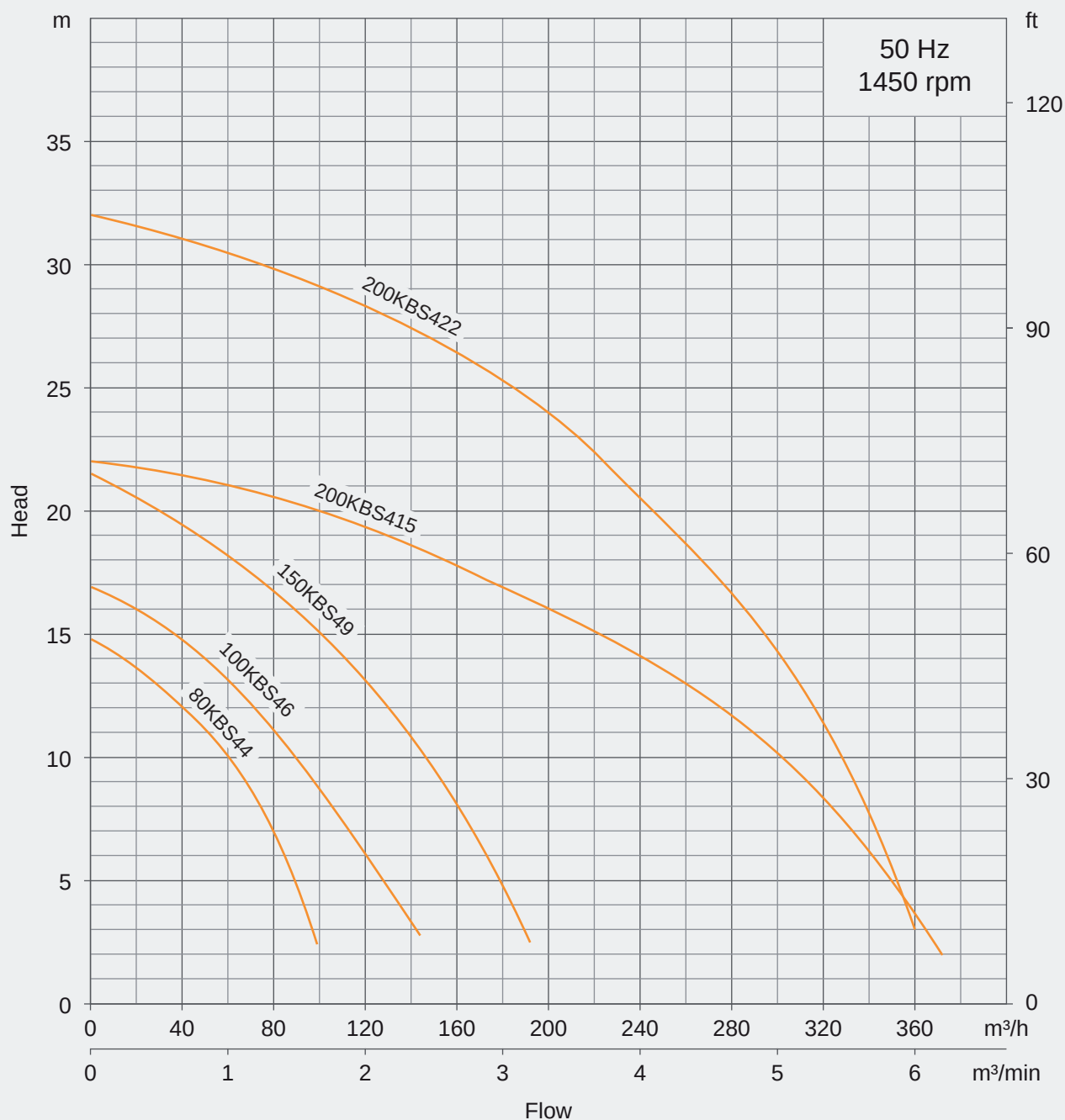


KBS Series						
No.	Part Name	Material		No.	Part Name	Material
1	Hose coupling	Cast iron		25	Strainer	Steel
2	Handle	Steel		27	Stator	--
5	Upper cover	Cast iron		28	Rotor	Shaft: AIS1420S
7	Bearing house	Cast iron		31a	Bearing	Ball bearing
11	Motor body	Cast iron		31b	Bearing	Ball bearing
13	Pump body	Cast iron		34	Mechanical seal	Sic-Sic/Sic-Sic (< 15 kW) Tc-Sic/Sic-Sic (>= 15 kW)
14a	Impeller	High chrome alloy		35	Oil seal	--
14b	Agitator	High chrome alloy		47	Cable	--
16a	Inlet plate	High chrome alloy				
16b	Inlet plate	Cast iron				

Large-Flow Drainage Pumps

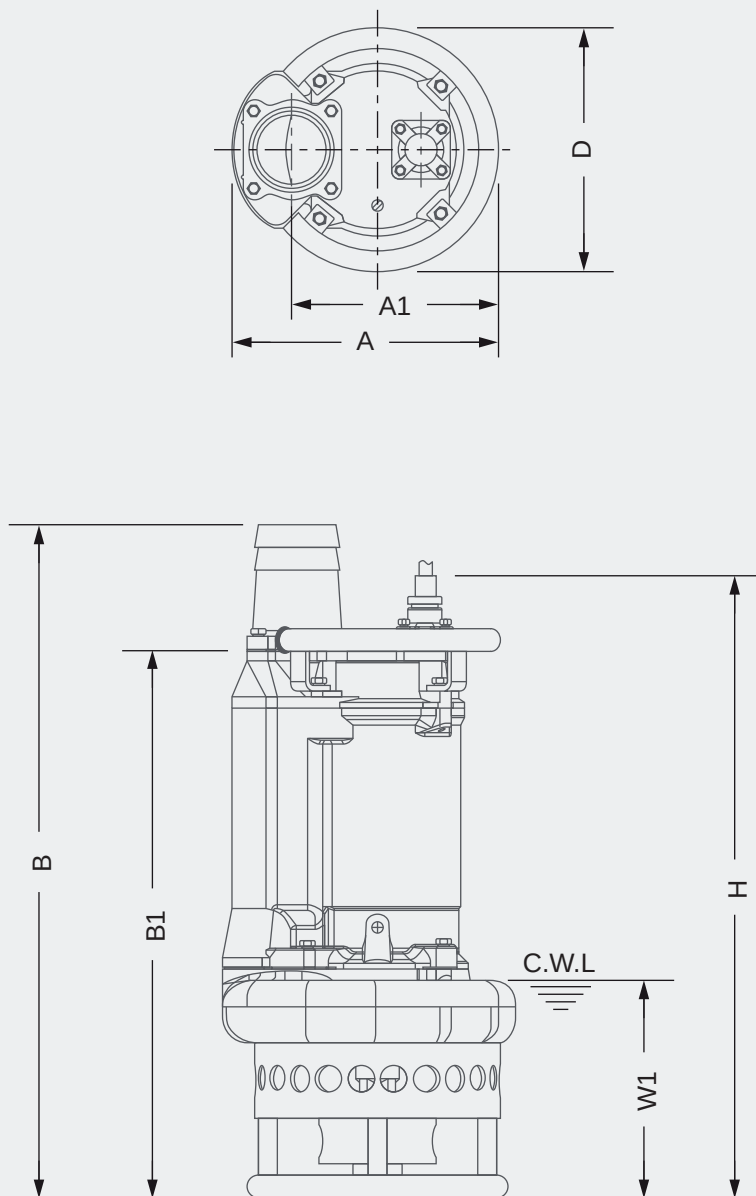
KBS Series

Performance Curves



Performance Table

Model (50Hz)	Outlet	Motor Power		Starting Method	Rated Current (380V)	Rated Flow		Rated Head	Max. Flow		Max. Head	Impeller Passage
	mm	kW	HP		A	m³/h	m³/min	m	m³/h	m³/min	m	mm
80KBS44	80	4	5.5	D.O.L.	10.2	60	1.0	10	99	1.65	14.8	30
100KBS46	100	6	8	D.O.L.	13.8	90	1.5	10	144	2.40	16.9	30
150KBS49	150	9	12	D.O.L.	19.5	100	1.67	15	192	3.20	21.5	30
200KBS415	200	15	20	D.O.L.	30.1	200	3.33	16	372	6.20	22	30
200KBS422	200	22	30	Star-Delta	42	200	3.33	24	360	6	32	30

Large-Flow Drainage Pumps
KBS Series
■ Dimensions & Weights


C.W.L.: Continuous running water level

Model (50Hz)	d	A	A1	B	B1	D	H	W1	N.W.	G.W.	Packing Dimensions
	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg	mm
80KBS44	80	350	260	816	678	326	730	250	108.5	119	885x385x395
100KBS46	100	415	305	844	682	373	730	250	141	151	470x410x985
150KBS49	150	434	324	889	727	407	776	250	171	183	470x470x1045
200KBS415	200	484	352	1121	889	457	980	295	260	278	665x495x1255
200KBS422	200	578	442	1245	1015	528	1200	330	408	434	740x570x1460

Pumping of Sewage C and B Series

The C and B series are submersible three-phase cast iron sewage drainage pumps. They are designed for pumping of wastewater and sewage containing faeces.

Sewage Pumps

C Series

■ Applications

- Industry
- Agriculture
- Mines
- Building construction
- Environmental protection
- Slurry
- Mortar
- Daily sanitary wastewater

■ Features

- Stainless steel shaft for corrosion resistance
- Cast iron pump body and impeller for toughness
- Ceramic-Graphite mechanical seal
- Built-in thermal protectors of motors with power 11kW or below to protect motors from burning and parts from damaging

■ Specifications

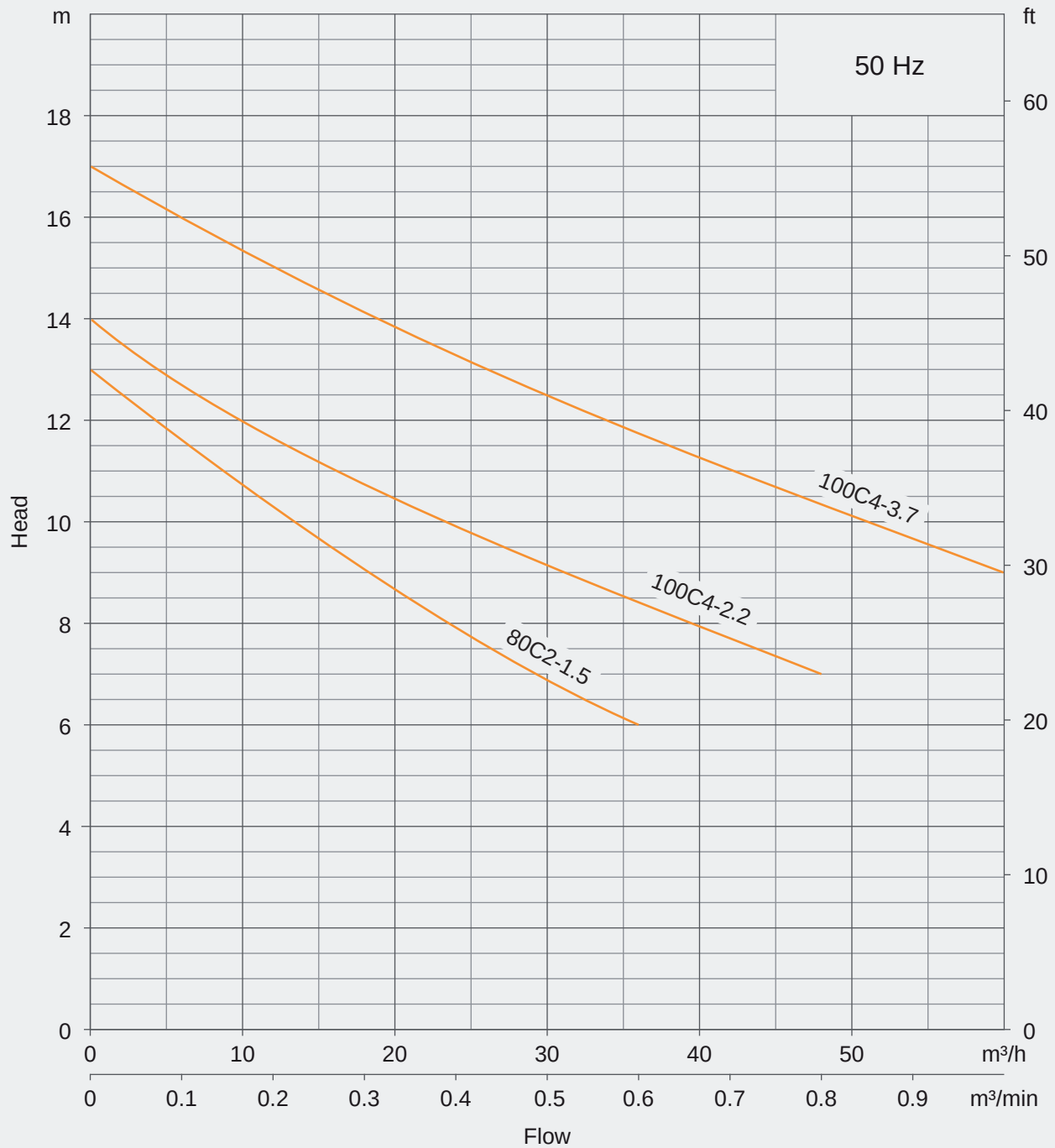
Model		C Series
Phase		3
Voltage	V	380
Frequency	Hz	50
Output	kW (HP)	1.5~3.7 (2~5)
Head	m	up to 17
Flow	m³/h	up to 60
Discharge	mm (inch)	80~100 (3"~4")
Max. Operating Depth	m	5
Fluid Temperature	°C	up to 40
Ambient Temperature	°C	up to 40
Trans Medium's PH:		4~10
Insulation Class		E
Protection Class		IP68



Sewage Pumps

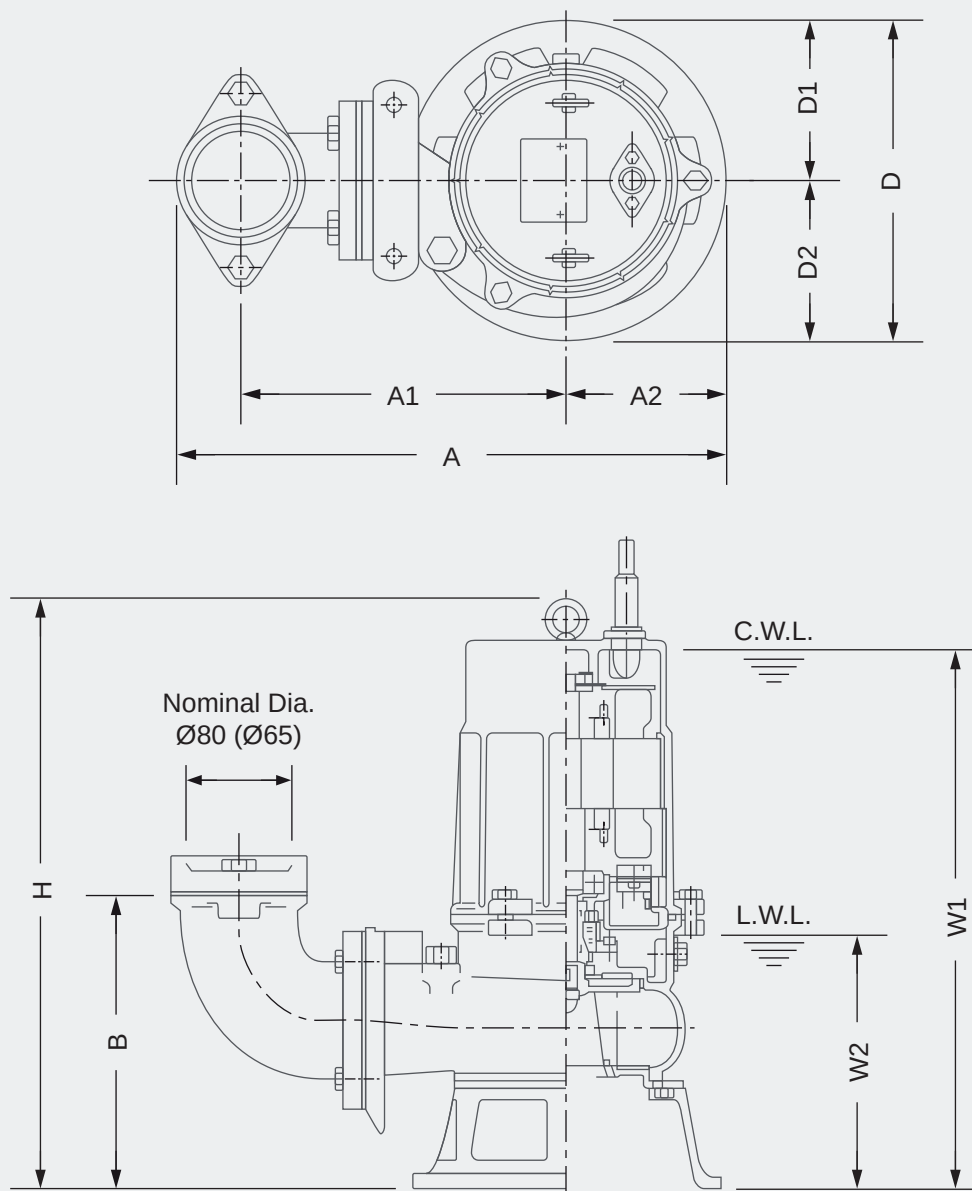
C Series

Performance Curves



Performance Table

Model (50Hz)	Power		RPM	Flow Rate												G.W.	Qty.
	kW	HP		r/min	m³/h	0	6	12	18	24	30	36	42	48	54		
			m³/min	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	kg	set	
80C2-1.5	1.5	2	2900	Head (m)	13	12	11	9	8	7	6	--	--	--	--	75	250
100C4-2.2	2.2	3	1450		14	12.5	11.5	10	9.5	9	8	7.5	7	--	--	87	210
100C4-3.7	3.7	5	1450		17	16	15	14	13.5	13	12	12	11	10	9	92	200

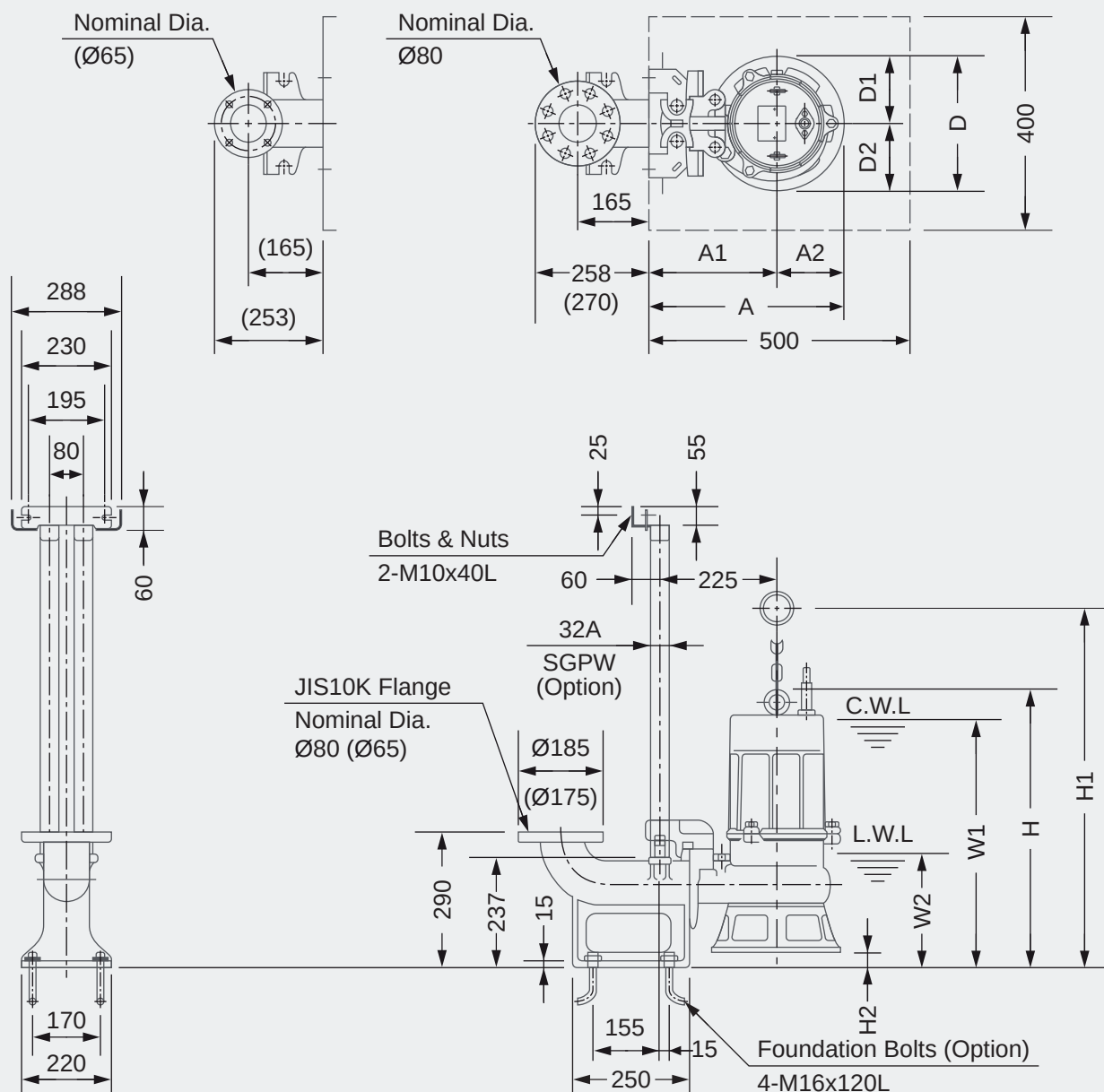
Sewage Pumps
C Series
■ Dimensions (80C2-1.5)
Free Standing


All dimensions are in millimeters.
 C.W.L.: Continuous running water level
 L.W.L.: Lowest running water level

Model (50Hz)	A	A1	A2	B	D	D1	D2	W1	W2	H
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
80C2-1.5	446	267	125	234	250	125	125	450	190	483

■ Dimensions (80C2-1.5)

Guide Rail Fitting



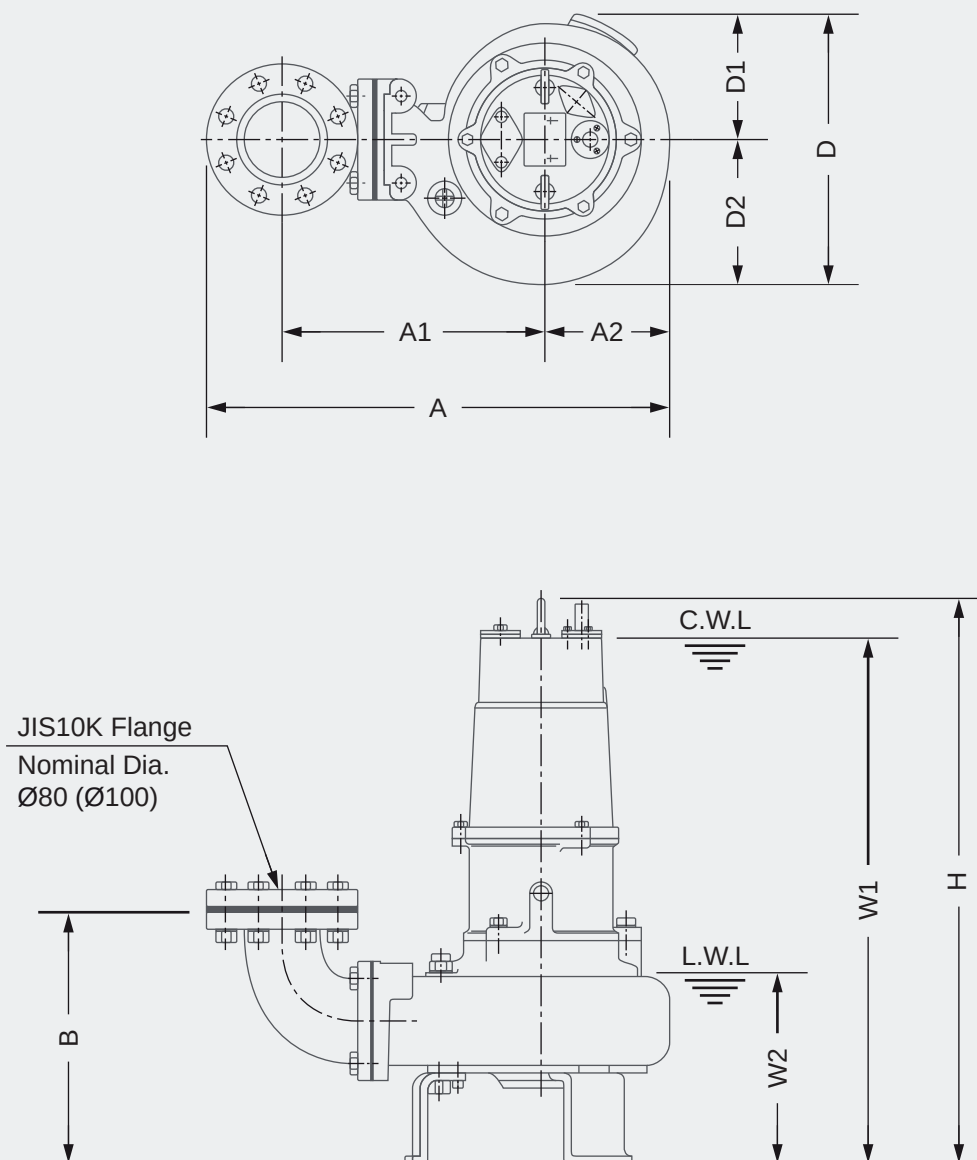
All dimensions are in millimeters.

C.W.L.: Continuous running water level

L.W.L.: Lowest running water level

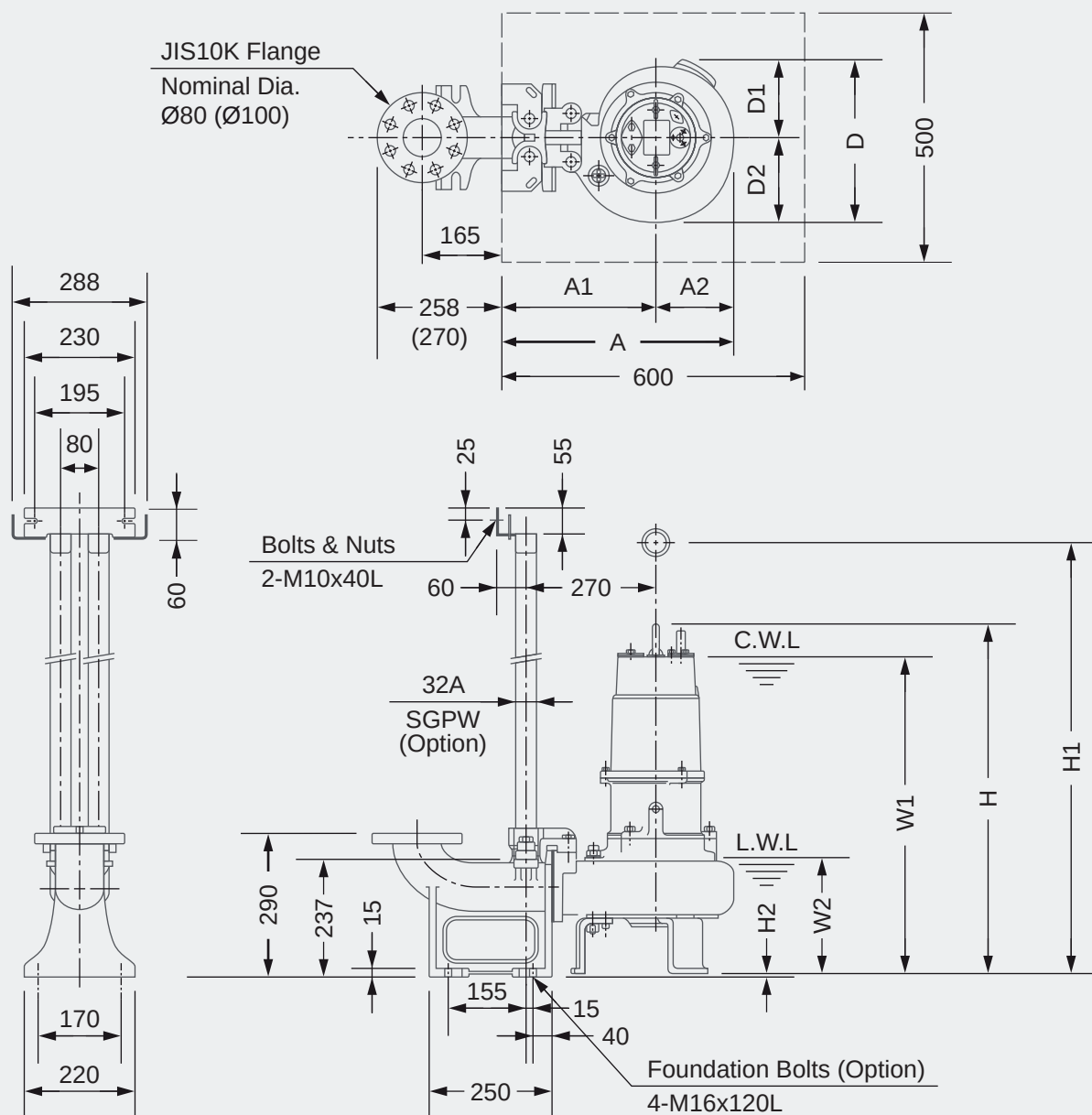
The figures in parentheses () show the dimensions for discharge bore at nominal Ø65

Model (50Hz)	A mm	A1 mm	A2 mm	D mm	D1 mm	D2 mm	W1 mm	W2 mm	H mm	H1 mm	H2 mm
80C2-1.5	410	285	125	250	125	125	500	240	533	735	50

Sewage Pumps
C Series
■ Dimensions (100C Series)
Free Standing


All dimensions are in millimeters.
 C.W.L.: Continuous running water level
 L.W.L.: Lowest running water level

Model (50Hz)	A	A1	A2	B	D	D1	D2	W1	W2	H
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
100C4-2.2	596	337	154	328	331	164	167	570	225	616
100C4-3.7	602	337	160	333	339	164	175	645	235	690

Sewage Pumps
C Series
■ Dimensions (100C Series)
Guide Rail Fitting


All dimensions are in millimeters.

C.W.L.: Continuous running water level

L.W.L.: Lowest running water level

The figures in parentheses () show the dimensions for discharge bore at nominal Ø100

Model (50Hz)	A mm	A1 mm	A2 mm	D mm	D1 mm	D2 mm	W1 mm	W2 mm	H mm	H1 mm	H2 mm
100C4-2.2	484	330	154	331	164	167	585	240	631	790	15
100C4-3.7	490	330	160	339	164	175	655	245	700	860	10

Sewage Pumps

B Series (2-Pole 2.2~5.5kW)

■ Applications

- Waste water discharge of industry, shopping mall, hospital and hotel
- Domestic sewage and storm-water drainage of uptown, parking lot and municipal engineering
- Sewage discharge of sewage treatment plant and farm
- Pumping muddy water and lye of construction factory and mine
- Pumping clean water of agriculture and aquaculture

■ Features

- Stainless steel shaft for corrosion resistance
- Cast iron pump body for toughness
- Silicon carbide mechanical seal for scratch prevention
- Built-in thermal protectors of motors with power 5.5kW or below to protect motors from burning and parts from damaging

■ Specifications

Model		B Series (2-Pole 2.2~5.5kW)
Phase		3
Voltage	V	380 / 400 / 415
Frequency	Hz	50
Output	kW (HP)	2.2~5.5 (3~7.5)
Head	m	up to 42
Flow	m³/h	up to 110
Discharge	mm (inch)	50~100 (2"~4")
Max. Immersion Depth	m	10
Fluid Temperature	°C	up to 40
Density of Liquid	g/cm³	1.3
Trans Medium's PH:		6~10
Insulation Class		B
Protection Class		IP68
Cable Length	m	8

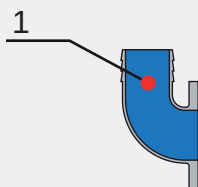


Sewage Pumps

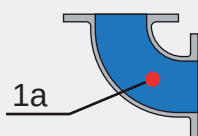
B Series (2-Pole 2.2~5.5kW)

Construction

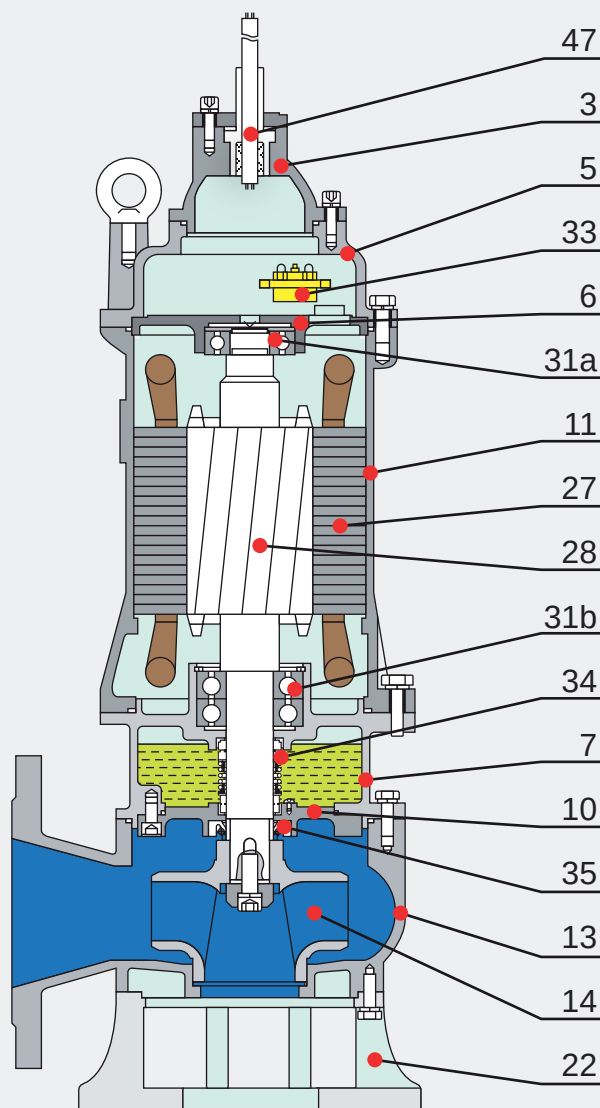
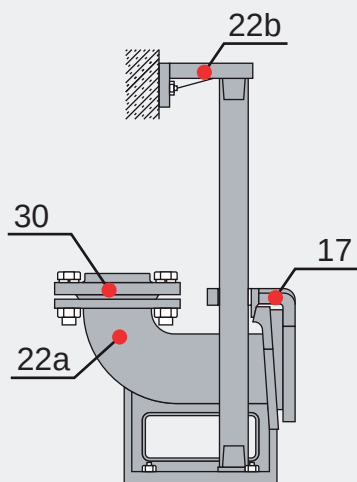
Movable Soft Pipe Installation (R)



Movable Hard Pipe Installation (Y)



Auto-coupled Installation (Z)

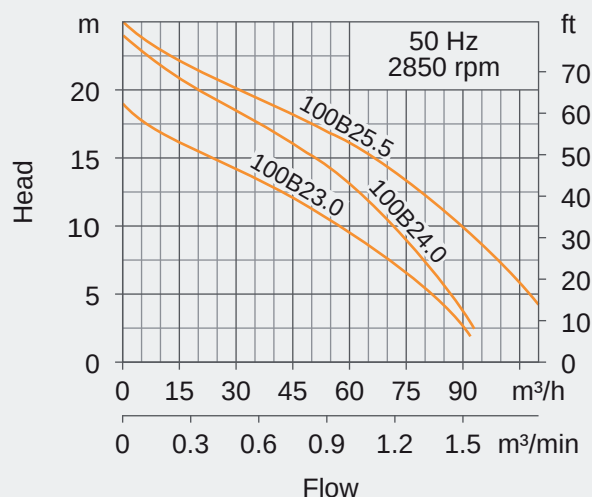
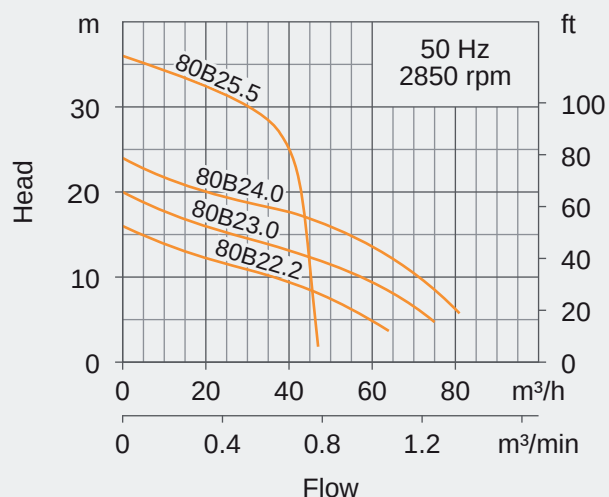
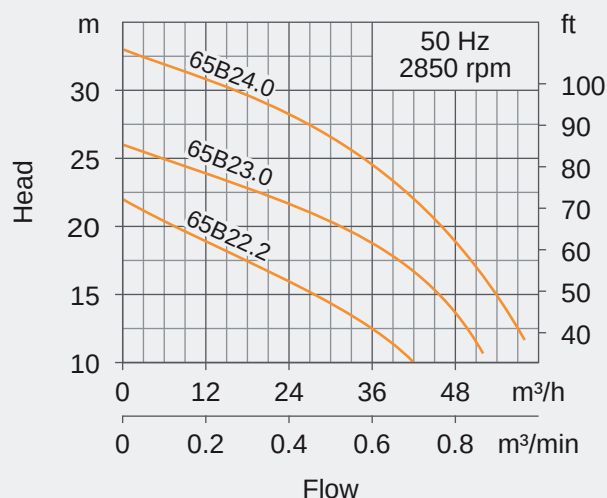
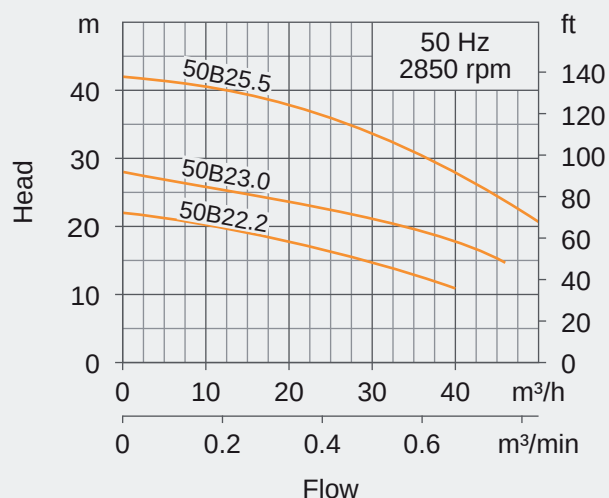


B Series (2-Pole 2.2~5.5kW)						
No.	Part Name	Material		No.	Part Name	Material
1	Hose coupling	Cast iron		22a	Coupling seat	Cast iron
1a	Hose coupling	Cast iron		22b	Upper guide support	Cast iron
3	Terminal box	Cast iron		27	Stator	Cast iron
5	Upper cover	Cast iron		28	Rotor	Shaft: AISI304SS
6	Up-Bearing house	Cast iron		30	Flange	Cast iron
7	Bearing house	Cast iron		31a	Bearing	Ball bearing
10	Seal bracket	Cast iron		31b	Bearing	Ball bearing
11	Motor body	Cast iron		33	Motor protector	--
13	Pump body	Cast iron		34	Mechanical seal	SiC-SiC/Carbon-Ceramic
14	Impeller	Cast iron		35	Oil seal	--
17	Coupling adapter	Cast iron		47	Cable	--
22	Seat assembly	Cast iron				

Sewage Pumps

B Series (2-Pole 2.2~5.5kW)

Performance Curves



Performance Table

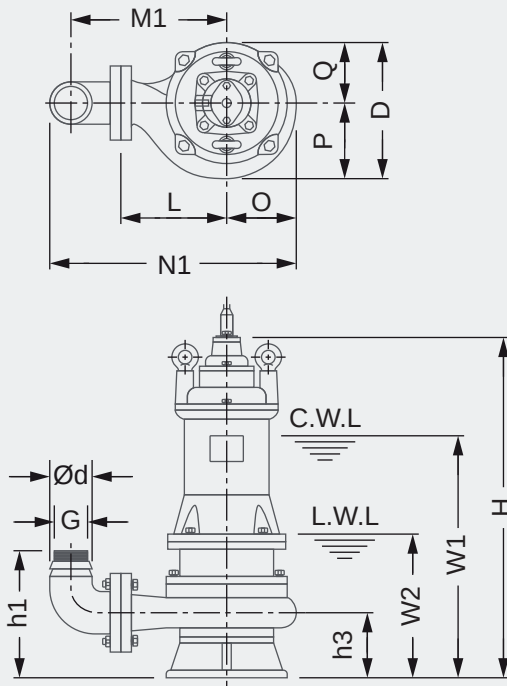
Model (50Hz)	Outlet	Motor Power		Rated Current (380V)	Rated Flow		Rated Head	Max. Flow		Max. Head	Impeller Passage	Cable
	mm	kW	HP	A	m³/h	m³/min	m	m³/h	m³/min	m	mm	mm²
50B22.2	50	2.2	3	5	15	0.25	19	40	0.67	22	20	4G1.0
65B22.2	65	2.2	3	5	25	0.42	16	42	0.70	22	20	4G1.0
80B22.2	80	2.2	3	5	40	0.67	9	64	1.07	16	30	4G1.0
50B23.0	50	3	4	6.5	15	0.25	25	46	0.77	28	20	4G1.5
65B23.0	65	3	4	6.5	25	0.42	22	52	0.87	26	20	4G1.5
80B23.0	80	3	4	6.5	40	0.67	13	75	1.25	20	30	4G1.5
100B23.0	100	3	4	6.5	60	1.00	9	92	1.53	19	30	4G1.5
65B24.0	65	4	5.5	8.9	25	0.42	28	58	0.97	33	20	4G1.5
80B24.0	80	4	5.5	8.9	40	0.67	18	81	1.35	24	30	4G1.5
100B24.0	100	4	5.5	8.9	60	1.00	13	93	1.55	24	30	4G1.5
50B25.5	50	5.5	7.5	11.7	15	0.25	40	52	0.87	42	20	4G2.5
80B25.5	80	5.5	7.5	11.7	30	0.50	30	47	0.78	36	25	4G2.5
100B25.5	100	5.5	7.5	11.7	65	1.08	15	110	1.83	25	30	4G2.5

Sewage Pumps

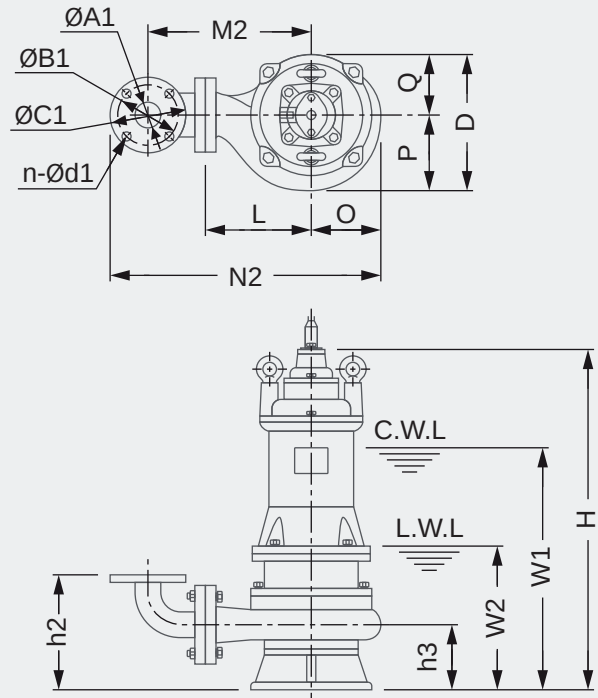
B Series (2-Pole 2.2~5.5kW)

■ Dimensions & Weights

Movable Soft Pipe Installation (R)



Movable Hard Pipe Installation (Y)



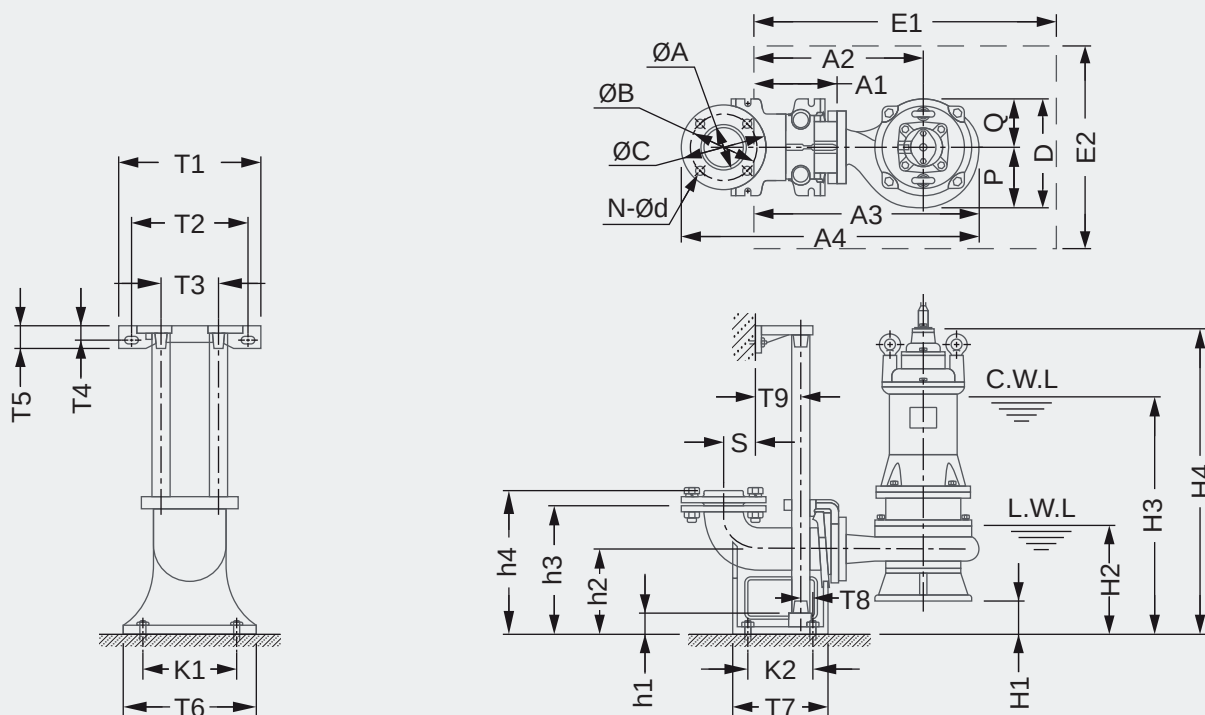
C.W.L.: Continuous running water level

L.W.L.: Lowest running water level

Model (50Hz)	Ød	G	ØA1	ØB1	ØC1	n-Ød1	h1	h2	h3	W1	W2	H	O	P	Q	L	D	M1	M2	N1	N2
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
50B22.2	50	G1½"	50	110	140	4-Ø14	210	205	105	410	145	575	107	113	100	165	213	230	260	363	438
65B22.2	65	G2"	65	130	160	4-Ø14	225	225	105	410	145	575	107	113	100	165	213	235	275	375	463
80B22.2	80	G2½"	80	150	190	4-Ø18	255	250	110	415	150	580	105	111	100	160	211	252	302	395	502
50B23.0	50	G1½"	50	110	140	4-Ø14	210	205	105	425	145	510	107	113	100	165	213	230	260	363	438
65B23.0	65	G2"	65	130	160	4-Ø14	225	225	105	425	145	610	107	113	100	165	213	235	275	375	463
80B23.0	80	G2½"	80	150	190	4-Ø18	270	265	125	450	170	630	107	115	100	153	215	245	295	390	497
100B23.0	100	--	100	170	210	4-Ø18	295	275	125	450	170	630	107	115	100	165	215	267	315	425	528
65B24.0	65	G2"	65	130	160	4-Ø14	240	240	120	455	160	650	115	115	115	180	230	250	290	397	486
80B24.0	80	G2½"	80	150	190	4-Ø18	280	275	135	480	185	675	115	115	115	165	230	257	307	410	517
100B24.0	100	--	100	170	210	4-Ø18	305	285	135	480	185	675	115	115	115	175	230	278	327	443	547
50B25.5	50	G1½"	50	110	140	4-Ø14	235	230	130	475	160	675	125	130	125	175	255	240	272	390	467
80B25.5	80	G2½"	80	150	190	4-Ø18	275	270	130	495	175	690	125	125	125	175	250	267	317	430	537
100B25.5	100	--	100	170	210	4-Ø18	305	285	135	505	190	705	131	140	125	180	265	285	334	465	570

Model (50Hz)	Movable Soft Pipe Installation (R)			Movable Hard Pipe Installation (Y)		
	N.W.	G.W.	Packing Dimensions	N.W.	G.W.	Packing Dimensions
	kg	kg	mm	kg	kg	mm
50B22.2	42	48	690x260x315	44	50	690x260x325
65B22.2	44	50	690x260x315	48	54	690x260x325
80B22.2	47	52	710x260x315	51	56	710x260x335
50B23.0	50	55	710x260x315	52	57	710x260x325
65B23.0	51	57	710x260x315	55	61	710x260x325
80B23.0	55	60	750x240x325	59	64	750x240x345
100B23.0	57	63	750x260x345	63	69	750x260x375

Model (50Hz)	Movable Soft Pipe Installation (R)			Movable Hard Pipe Installation (Y)		
	N.W.	G.W.	Packing Dimensions	N.W.	G.W.	Packing Dimensions
	kg	kg	mm	kg	kg	mm
65B24.0	61	69	780x260x335	65	73	780x260x345
80B24.0	65	71	800x260x325	69	75	800x260x345
100B24.0	67	73	800x260x355	73	79	800x260x385
50B25.5	74	81	790x290x355	76	83	790x290x365
80B25.5	77	83	800x290x335	81	87	800x290x355
100B25.5	81	89	810x300x375	87	95	810x300x405

Sewage Pumps
B Series (2-Pole 2.2~5.5kW)
■ Dimensions & Weights
Auto-Coupled Installation (Z)


C.W.L.: Continuous running water level

L.W.L.: Lowest running water level

Auto Coupling	ØA mm	ØB mm	ØC mm	N-Ød mm	T1 mm	T2 mm	T3 mm	T4 mm	T5 mm	T6 mm	T7 mm	T8 mm	T9 mm	K1 mm	K2 mm	S mm	h1 mm	h2 mm	h3 mm	h4 mm
50-50(PN6)	Ø50 / G2"	110	140	4-Ø14	265	215	105	25	42	200	215	15	67	165	135	63	25	160	250	280
65-65(PN6)	Ø65 / G2½"	130	160	4-Ø14	280	230	125	30	50	230	235	20	70	190	155	90	25	165	265	295
80-80(PN6)	Ø80 / G3"	150	190	4-Ø18	315	265	145	27	50	255	225	30	78	215	155	77	25	190	305	335
100-100(PN6)	Ø100 / G4"	170	210	4-Ø18	365	305	170	32	55	295	260	35	95	265	175	100	25	230	350	380

Model (50Hz)	Auto Coupling	H1 mm	H2 mm	H3 mm	H4 mm	A1 mm	A2 mm	A3 mm	A4 mm	P mm	Q mm	D mm	E1x2 mm	For Bare Pump Only*		
														N.W. kg	G.W. kg	Packing Dimensions mm
50B22.2	50-50(PN6)	55	200	465	630	155	319	426	559	113	100	213	650x550	40	46	690x260x315
65B22.2	65-65(PN6)	60	205	470	635	155	318	425	596	113	100	213	650x550	42	48	690x260x315
80B22.2	80-80(PN6)	78	230	495	660	176	336	441	613	111	100	211	650x550	42	47	710x260x315
50B23.0	50-50(PN6)	55	200	480	665	155	319	426	559	113	100	213	650x550	48	53	710x260x315
65B23.0	65-65(PN6)	60	205	485	670	155	318	425	596	113	100	213	650x550	48	54	710x260x315
80B23.0	80-80(PN6)	68	235	515	695	176	329	436	608	115	100	215	650x550	50	55	750x240x325
100B23.0	100-100(PN6)	108	275	555	735	200	364	471	677	115	100	215	700x550	51	57	750x260x345
65B24.0	65-65(PN6)	45	205	500	695	155	333	448	619	115	115	230	650x550	58	66	780x260x335
80B24.0	80-80(PN6)	57	240	535	730	176	341	456	628	115	115	230	650x550	60	66	800x260x325
100B24.0	100-100(PN6)	97	280	575	770	200	375	490	696	115	115	230	700x550	61	67	800x260x355
50B25.5	50-50(PN6)	32	190	505	705	155	330	455	588	130	125	255	650x550	72	79	790x290x355
80B25.5	80-80(PN6)	61	235	555	750	176	351	476	648	125	125	250	700x550	72	78	800x290x335
100B25.5	100-100(PN6)	95	285	600	800	200	381	512	718	140	125	265	700x550	75	83	810x300x375

* The coupling and pump are packed individually. Packing dimensions and weights in the above table only refer to the bare pump, excluding coupling.

Sewage Pumps

B Series (2-Pole 7.5~11kW)

■ Applications

- Waste water discharge of industry, shopping mall, hospital and hotel
- Domestic sewage and storm-water drainage of uptown, parking lot and municipal engineering
- Sewage discharge of sewage treatment plant and farm
- Pumping muddy water and lye of construction factory and mine
- Pumping clean water of agriculture and aquaculture

■ Features

- Stainless steel shaft for corrosion resistance
- Cast iron pump body for toughness
- Silicon carbide mechanical seal for scratch prevention
- Built-in thermal protectors of motors with power 7.5kW to protect motors from burning and parts from damaging

■ Specifications

Model		B Series (2-Pole 7.5~11kW)
Phase		3
Voltage	V	380 / 400 / 415
Frequency	Hz	50
Output	kW (HP)	7.5~11 (10~15)
Head	m	up to 52
Flow	m ³ /h	up to 200
Discharge	mm (inch)	50~150 (2"~6")
Max. Immersion Depth	m	20
Fluid Temperature	°C	up to 40
Density of Liquid	g/cm ³	1.3
Trans Medium's PH:		6~10
Insulation Class		F
Protection Class		IP68
Cable Length	m	8

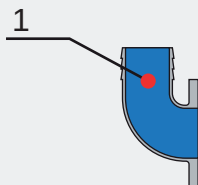


Sewage Pumps

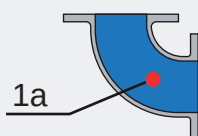
B Series (2-Pole 7.5~11kW)

Construction

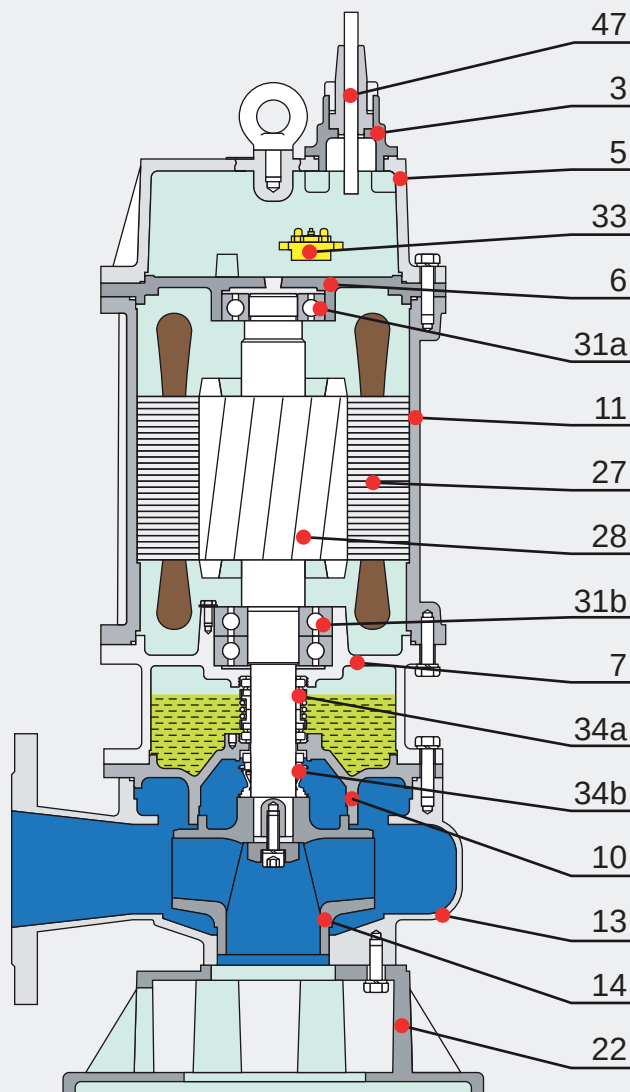
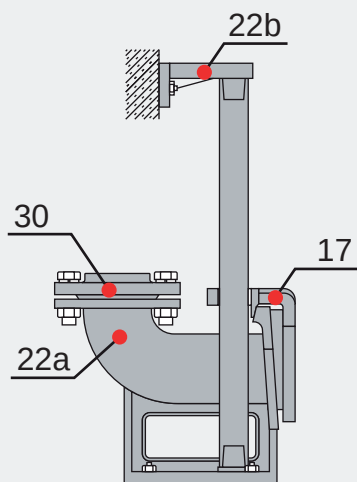
Movable Soft Pipe Installation (R)



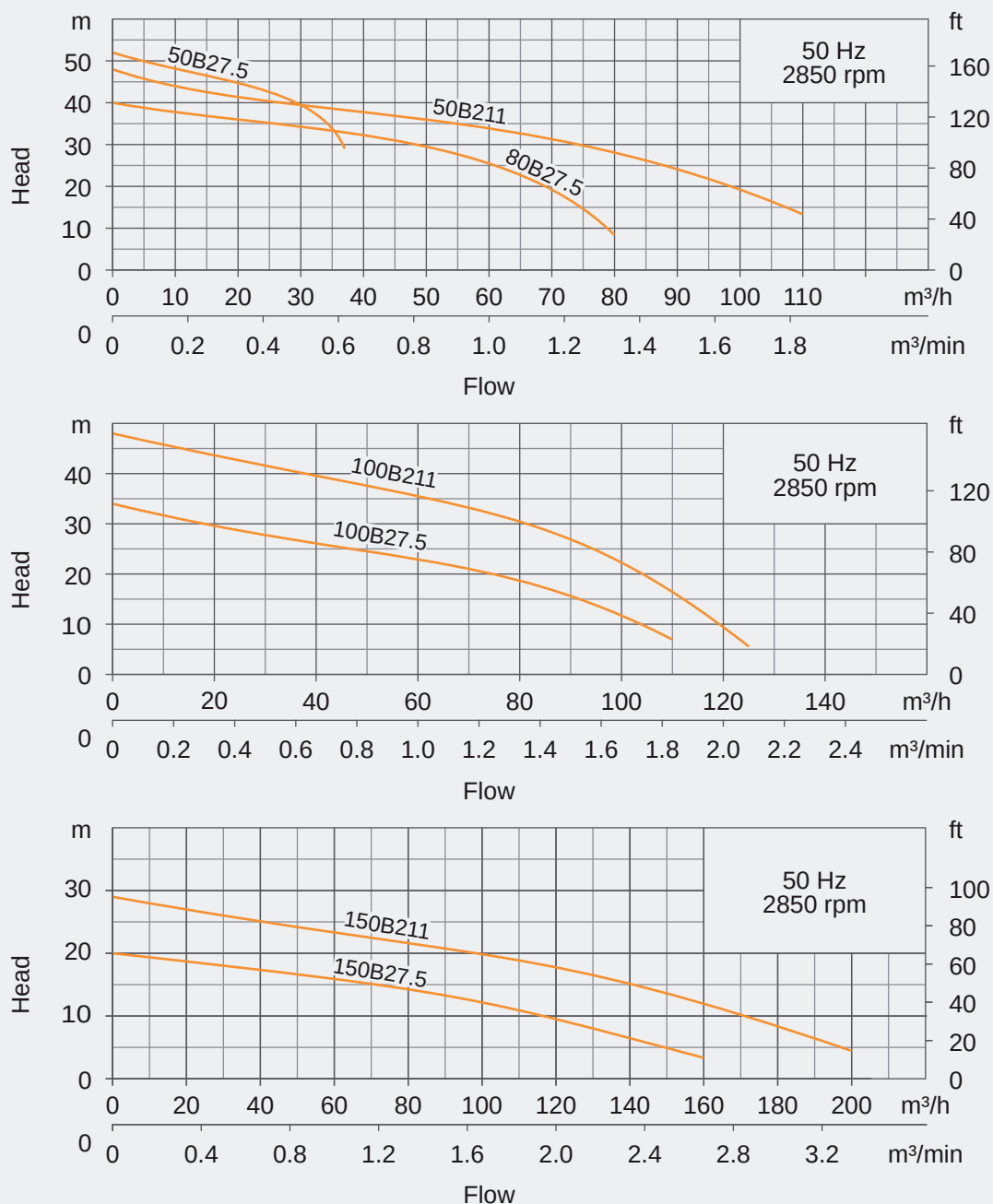
Movable Hard Pipe Installation (Y)



Auto-coupled Installation (Z)



B Series (2-Pole 7.5~11kW)						
No.	Part Name	Material		No.	Part Name	Material
1	Hose coupling	Cast iron		22a	Coupling seat	Cast iron
1a	Hose coupling	Cast iron		22b	Upper guide support	Cast iron
3	Terminal box	Cast iron		27	Stator	--
5	Upper cover	Cast iron		28	Rotor	Shaft: AISI304SS
6	Up-Bearing house	Cast iron		30	Flange	Cast iron
7	Bearing house	Cast iron		31a	Bearing	Ball bearing
10	Seal bracket	Cast iron		31b	Bearing	Ball bearing
11	Motor body	Cast iron		33	Motor protector	--
13	Pump body	Cast iron		34a	Mechanical seal	SiC-SiC/Carbon-Ceramic
14	Impeller	Ductile iron		34b	Mechanical seal	SiC-SiC
17	Coupling adapter	Cast iron		47	Cable	--
22	Seat assembly	Cast iron				

Sewage Pumps
B Series (2-Pole 7.5~11kW)
Performance Curves

Performance Table

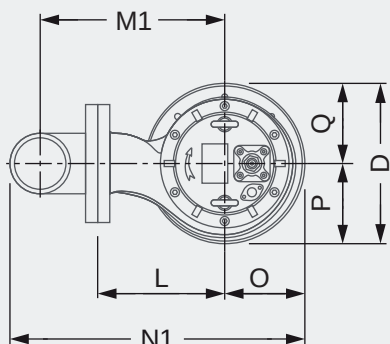
Model (50Hz)	Outlet	Motor Power		Rated Current (380V)		Rated Flow		Rated Head	Max. Flow		Max. Head	Impeller Passage	Cable
	mm	kW	HP	A	m³/h	m³/min	m	m	m³/h	m³/min	m	mm	mm²
50B27.5	50	7.5	10	15.7	20	0.33	45	37	0.62	52	25	25	4G4.0
80B27.5	80	7.5	10	15.7	30	0.50	35	80	1.33	40	30	30	4G4.0
100B27.5	100	7.5	10	15.7	65	1.08	22	110	1.83	34	35	35	4G4.0
150B27.5	150	7.5	10	15.7	100	1.67	12	160	2.67	20	35	35	4G4.0
80B211	80	11	15	22	45	0.75	37	110	1.83	48	35	35	4G4.0
100B211	100	11	15	22	65	1.08	35	125	2.08	48	35	35	4G4.0
150B211	150	11	15	22	100	1.67	20	200	3.33	29	50	50	4G4.0

Sewage Pumps

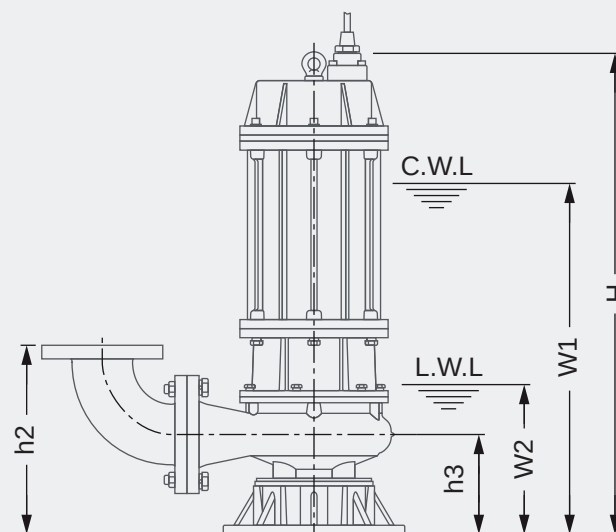
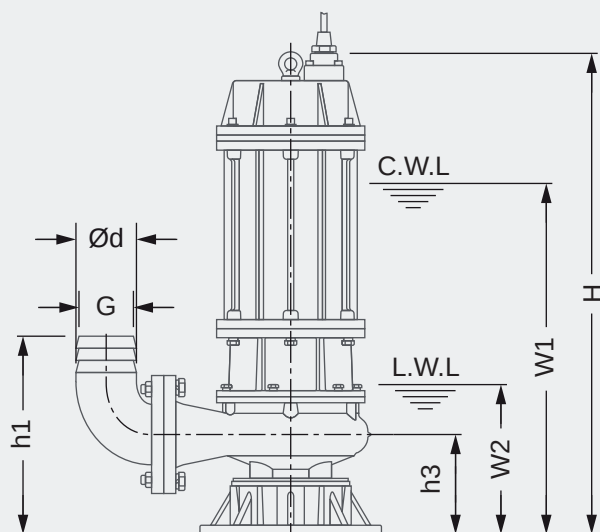
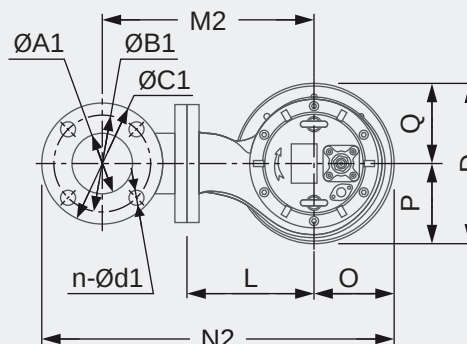
B Series (2-Pole 7.5~11kW)

■ Dimensions & Weights

Movable Soft Pipe Installation (R)



Movable Hard Pipe Installation (Y)

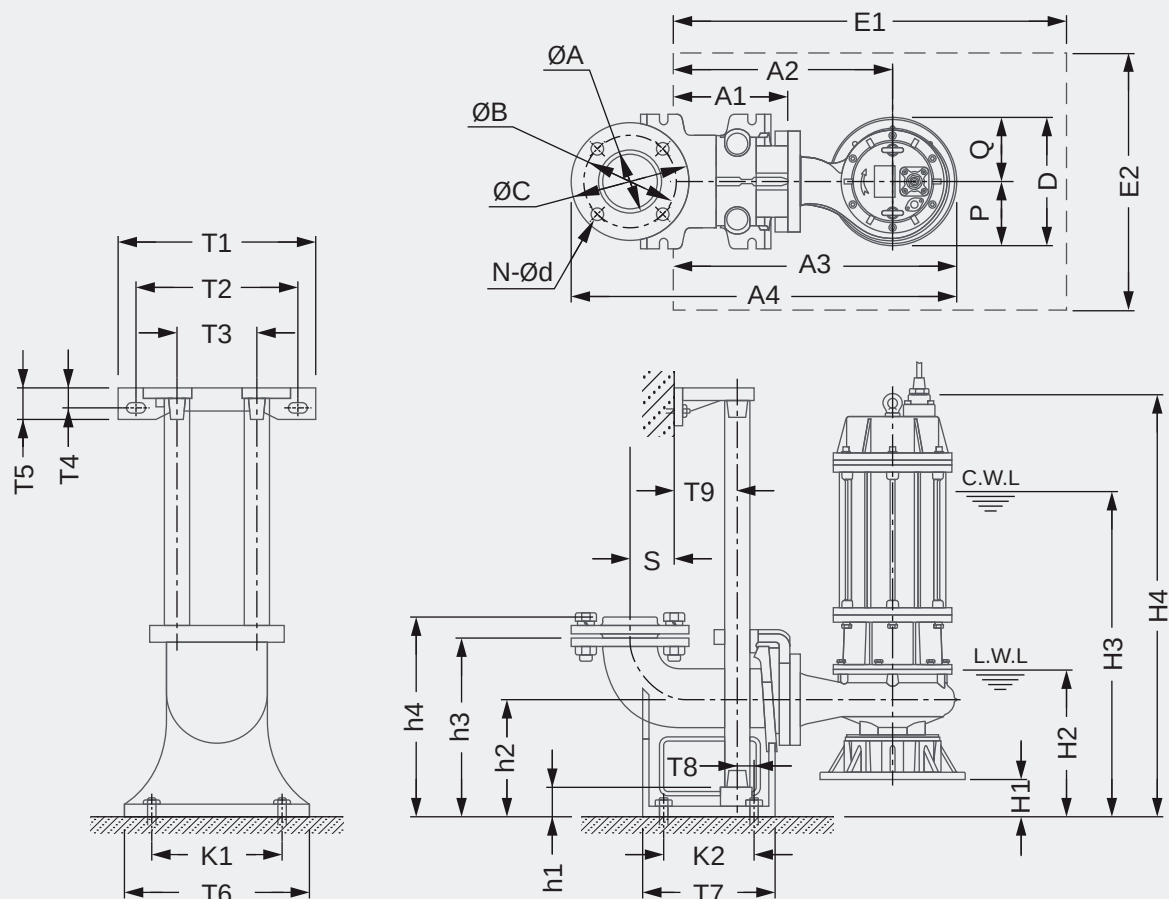


C.W.L.: Continuous running water level
L.W.L.: Lowest running water level

Model (50Hz)	Ød	G	ØA1	ØB1	ØC1	n-Ød1	h1	h2	h3	W1	W2	H	O	P	Q	L	D	M1	M2	N1	N2
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
50B27.5	50	G1½"	50	110	140	4-Ø14	265	260	160	540	210	760	162	162	162	200	324	267	298	454	530
80B27.5	80	--	80	150	190	4-Ø18	305	300	160	540	210	760	162	162	162	200	324	292	342	491	599
100B27.5	100	--	100	170	210	4-Ø18	345	325	175	560	230	780	162	162	162	200	324	302	352	514	619
150B27.5	150	--	150	225	265	8-Ø18	405	380	180	575	245	795	162	162	162	210	324	362	412	598	706
80B211	80	--	80	150	190	4-Ø18	320	315	175	580	230	825	162	162	162	200	324	292	342	491	599
100B211	100	--	100	170	210	4-Ø18	345	325	175	580	230	825	162	162	162	200	324	302	352	514	619
150B211	150	--	150	225	265	8-Ø18	405	380	180	595	245	840	162	162	162	210	324	362	412	598	706

Model (50Hz)	Movable Soft Pipe Installation (R)			Movable Hard Pipe Installation (Y)		
	N.W.	G.W.	Packing Dimensions	N.W.	G.W.	Packing Dimensions
	kg	kg	mm	kg	kg	mm
50B27.5	114	127	894x364x435	116	129	894x364x445
80B27.5	118	130	894x364x435	122	134	894x364x455
100B27.5	122	134	924x364x435	128	140	924x364x465
150B27.5	134	146	944x384x455	142	154	944x384x495

Model (50Hz)	Movable Soft Pipe Installation (R)			Movable Hard Pipe Installation (Y)		
	N.W.	G.W.	Packing Dimensions	N.W.	G.W.	Packing Dimensions
	kg	kg	mm	kg	kg	mm
80B211	131	143	964x364x435	135	147	964x364x455
100B211	133	145	964x364x435	139	151	964x364x465
150B211	145	157	984x384x455	153	165	984x384x495

Sewage Pumps
B Series (2-Pole 7.5~11kW)
■ Dimensions & Weights
Auto-Coupled Installation (Z)


C.W.L.: Continuous running water level

L.W.L.: Lowest running water level

Auto Coupling	ØA mm	ØB mm	ØC mm	N-Ød mm	T1 mm	T2 mm	T3 mm	T4 mm	T5 mm	T6 mm	T7 mm	T8 mm	T9 mm	K1 mm	K2 mm	S mm	h1 mm	h2 mm	h3 mm	h4 mm
80-80(PN6)	Ø80 / G3"	150	190	4-Ø18	315	265	145	27	50	255	225	30	78	215	155	77	25	190	305	335
100-100(PN6)	Ø100 / G4"	170	210	4-Ø18	365	305	170	32	55	295	260	35	95	265	175	100	25	230	350	380
150-150(PN6)	Ø150	225	265	8-Ø18	400	260	280	24	48	400	410	75	95	280	300	200	390	300	480	--

Model (50Hz)	Auto Coupling	H1 mm	H2 mm	H3 mm	H4 mm	A1 mm	A2 mm	A3 mm	A4 mm	P mm	Q mm	D mm	E1x2 mm	For Bare Pump Only*		
														N.W.	G.W.	Packing Dimensions
														kg	kg	mm
50B27.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
80B27.5	80-80(PN6)	30	240	570	790	175	375	538	710	162	162	324	750x550	113	125	894x364x435
100B27.5	100-100(PN6)	55	285	615	835	200	400	562	768	162	162	324	750x550	116	128	924x364x435
150B27.5	150-150(PN6)	120	365	695	915	285	495	655	996	162	162	324	850x550	122	134	944x384x455
80B211	80-80(PN6)	15	245	595	840	175	375	538	710	162	162	324	750x550	126	138	964x364x435
100B211	100-100(PN6)	55	285	635	880	200	400	562	768	162	162	324	750x550	127	139	964x364x435
150B211	150-150(PN6)	120	365	715	960	285	495	655	996	162	162	324	750x550	133	145	984x384x455

* The coupling and pump are packed individually. Packing dimensions and weights in the above table only refer to the bare pump, excluding coupling.

Sewage Pumps

B Series (4-Pole 2.2~7.5kW)

■ Applications

- Waste water discharge of industry, shopping mall, hospital and hotel
- Domestic sewage and storm-water drainage of uptown, parking lot and municipal engineering
- Sewage discharge of sewage treatment plant and farm
- Pumping muddy water and lye of construction factory and mine
- Pumping clean water of agriculture and aquaculture

■ Features

- Stainless steel shaft for corrosion resistance
- Cast iron pump body for toughness
- Silicon carbide mechanical seal for scratch prevention
- Built-in thermal protectors of motors with power 7.5kW or below to protect motors from burning and parts from damaging

■ Specifications

Model		B Series (4-Pole 2.2~7.5kW)
Phase		3
Voltage	V	380 / 400 / 415
Frequency	Hz	50
Output	kW (HP)	2.2~7.5 (3~10)
Head	m	up to 24
Flow	m ³ /h	up to 400
Discharge	mm (inch)	80~200 (3"~8")
Max. Immersion Depth	m	20
Fluid Temperature	°C	up to 40
Density of Liquid	g/cm ³	1.3
Trans Medium's PH:		6~10
Insulation Class		F
Protection Class		IP68
Cable Length	m	8

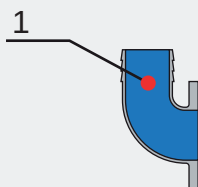


Sewage Pumps

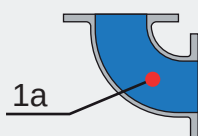
B Series (4-Pole 2.2~7.5kW)

Construction

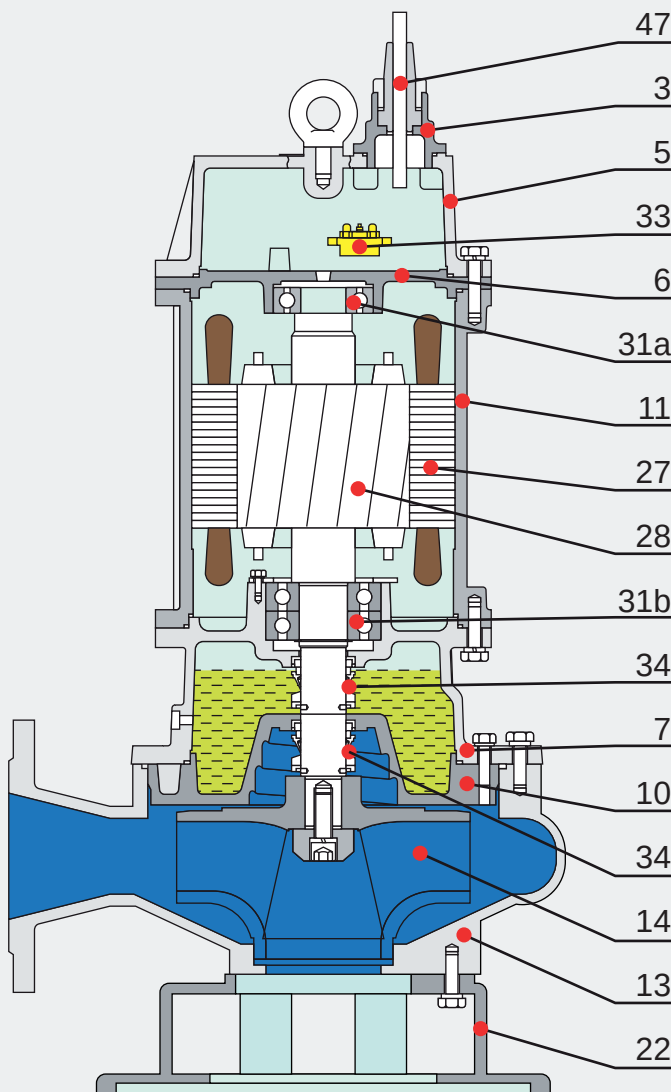
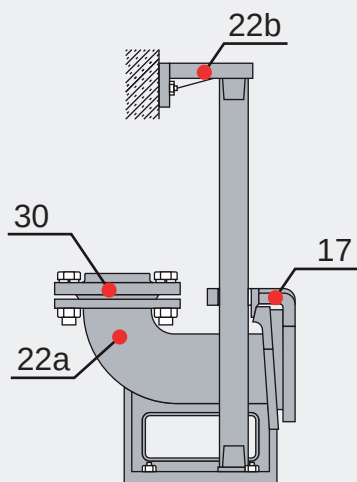
Movable Soft Pipe Installation (R)



Movable Hard Pipe Installation (Y)



Auto-coupled Installation (Z)

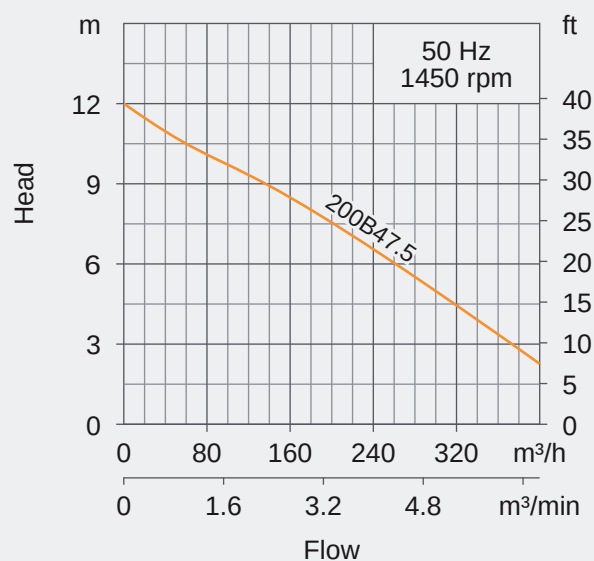
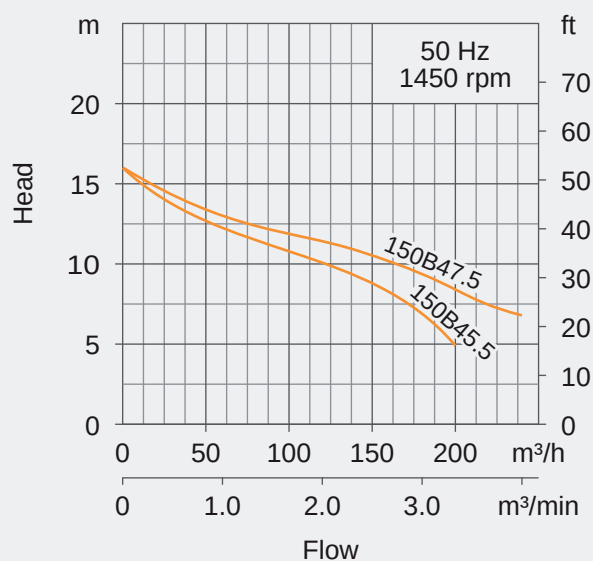
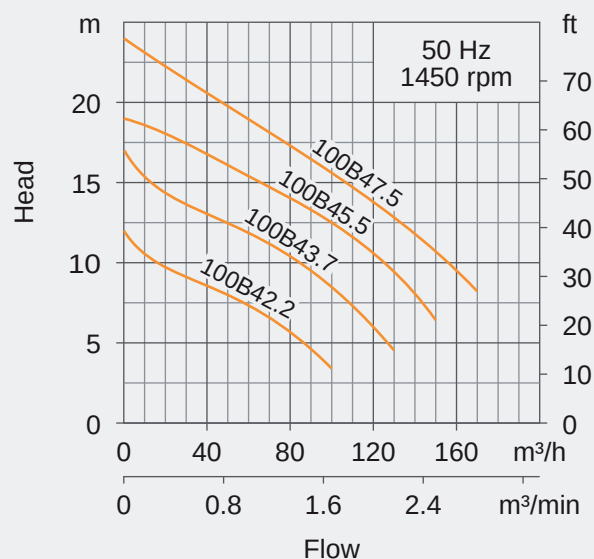
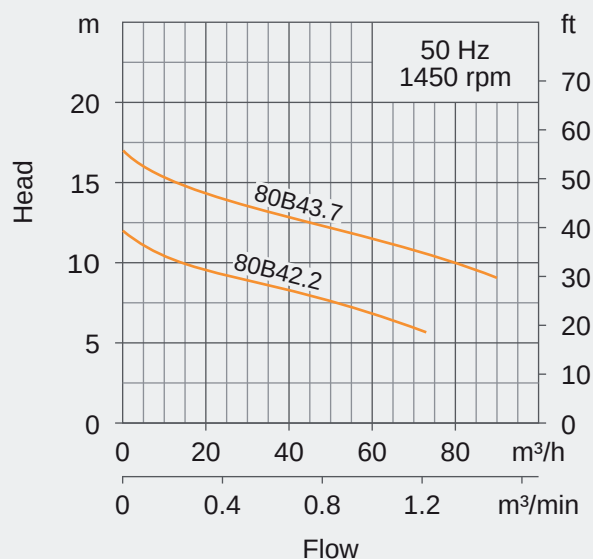


B Series (4-Pole 2.2~7.5kW)						
No.	Part Name	Material		No.	Part Name	Material
1	Hose coupling	Cast iron		22	Seat assembly	Cast iron
1a	Hose coupling	Cast iron		22a	Coupling seat	Cast iron
3	Terminal box	Cast iron		22b	Upper guide support	Cast iron
5	Upper cover	Cast iron		27	Stator	--
6	Up-Bearing house	Cast iron		28	Rotor	Shaft: AISI304SS
7	Bearing house	Cast iron		30	Flange	Cast iron
10	Seal bracket	Cast iron		31a	Bearing	Ball bearing
11	Motor body	Cast iron		31b	Bearing	Ball bearing
13	Pump body	Cast iron		33	Motor protector	--
14	Impeller	Ductile iron		34	Mechanical seal	SiC-SiC
17	Coupling adapter	Cast iron		47	Cable	--

Sewage Pumps

B Series (4-Pole 2.2~7.5kW)

Performance Curves



Performance Table

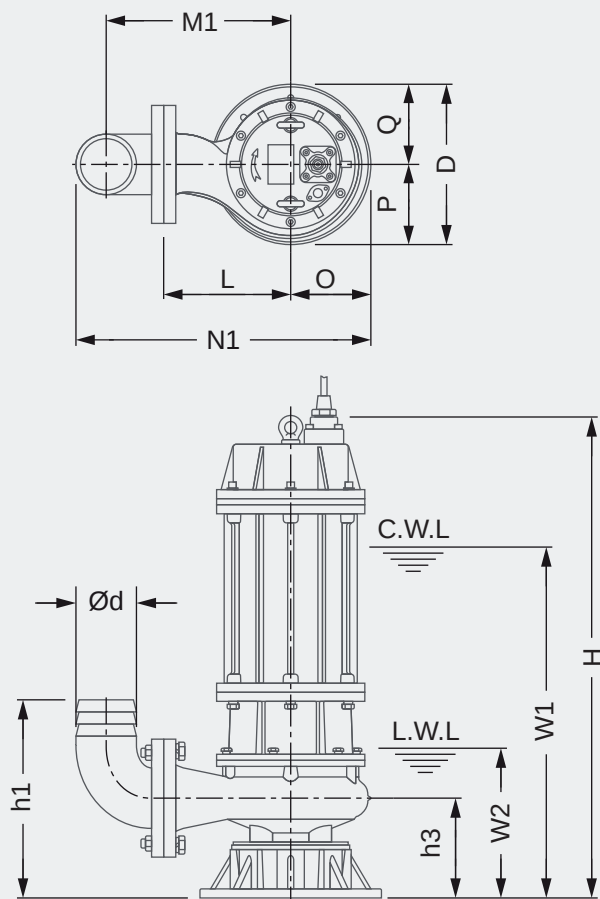
Model (50Hz)	Outlet	Motor Power		Rated Current (380V)	Rated Flow		Rated Head	Max. Flow		Max. Head	Impeller Passage	Cable
	mm	kW	HP	A	m³/h	m³/min	m	m³/h	m³/min	m	mm	mm²
80B42.2	80	2.2	3	5	45	0.75	8	73	1.22	12	50	4G1.5
100B42.2	100	2.2	3	5	60	1.00	7	100	1.67	12	50	4G1.5
80B43.7	80	3.7	5	8.5	45	0.75	13	90	1.50	17	50	4G1.5
100B43.7	100	3.7	5	8.5	60	1.00	12	130	2.17	17	50	4G1.5
100B45.5	100	5.5	7.5	11.7	65	1.08	15	150	2.50	19	50	4G2.5
150B45.5	150	5.5	7.5	11.7	110	1.83	10	200	3.33	16	55	4G2.5
100B47.5	100	7.5	10	15.7	100	1.67	15	170	2.83	24	50	4G4.0
150B47.5	150	7.5	10	15.7	150	2.50	10	240	4.00	16	75	4G4.0
200B47.5	200	7.5	10	15.7	250	4.17	6	400	6.67	12	80	4G4.0

Sewage Pumps

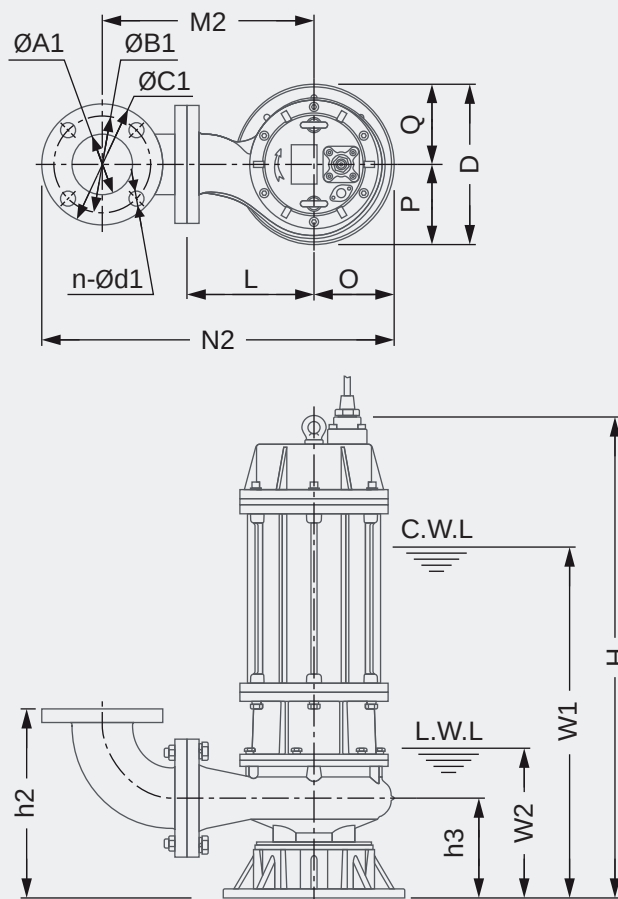
B Series (4-Pole 2.2~7.5kW)

■ Dimensions & Weights

Movable Soft Pipe Installation (R)



Movable Hard Pipe Installation (Y)



C.W.L.: Continuous running water level

L.W.L.: Lowest running water level

Model (50Hz)	Ød	ØA1	ØB1	ØC1	n-Ød1	h1	h2	h3	W1	W2	H	O	P	Q	L	D	M1	M2	N1	N2
80B42.2	80	80	150	190	4-Ø18	310	305	165	475	232	622	163	176	160	220	336	312	362	513	620
100B42.2	100	100	170	210	4-Ø18	335	315	165	475	232	622	163	176	160	220	336	322	372	535	640
80B43.7	80	80	150	190	4-Ø18	310	305	165	540	232	687	163	176	160	220	336	312	362	513	620
100B43.7	100	100	170	210	4-Ø18	335	315	165	540	232	687	163	176	160	220	336	322	372	535	640
100B45.5	100	100	170	210	4-Ø18	360	340	190	585	255	805	190	202	180	280	382	382	432	622	727
150B45.5	150	150	225	265	8-Ø18	430	405	205	615	285	835	200	215	185	300	400	452	502	726	834
100B47.5	100	100	170	210	4-Ø18	360	340	190	630	255	850	190	202	180	280	382	382	432	622	727
150B47.5	150	150	225	265	8-Ø18	430	405	205	660	285	880	200	215	185	300	400	452	502	726	834
200B47.5	200	200	295	340	8-Ø22	540	460	230	695	320	915	230	255	192	350	447	552	582	882	982

Model (50Hz)	Movable Soft Pipe Installation (R)			Movable Hard Pipe Installation (Y)		
	N.W.	G.W.	Packing Dimensions	N.W.	G.W.	Packing Dimensions
	kg	kg	mm	kg	kg	mm
80B42.2	78	87	705x375x465	82	91	705x375x465
100B42.2	80	89	705x375x465	84	93	705x375x465
80B43.7	88	97	765x375x465	92	101	765x375x465
100B43.7	90	99	765x375x465	94	103	765x375x465

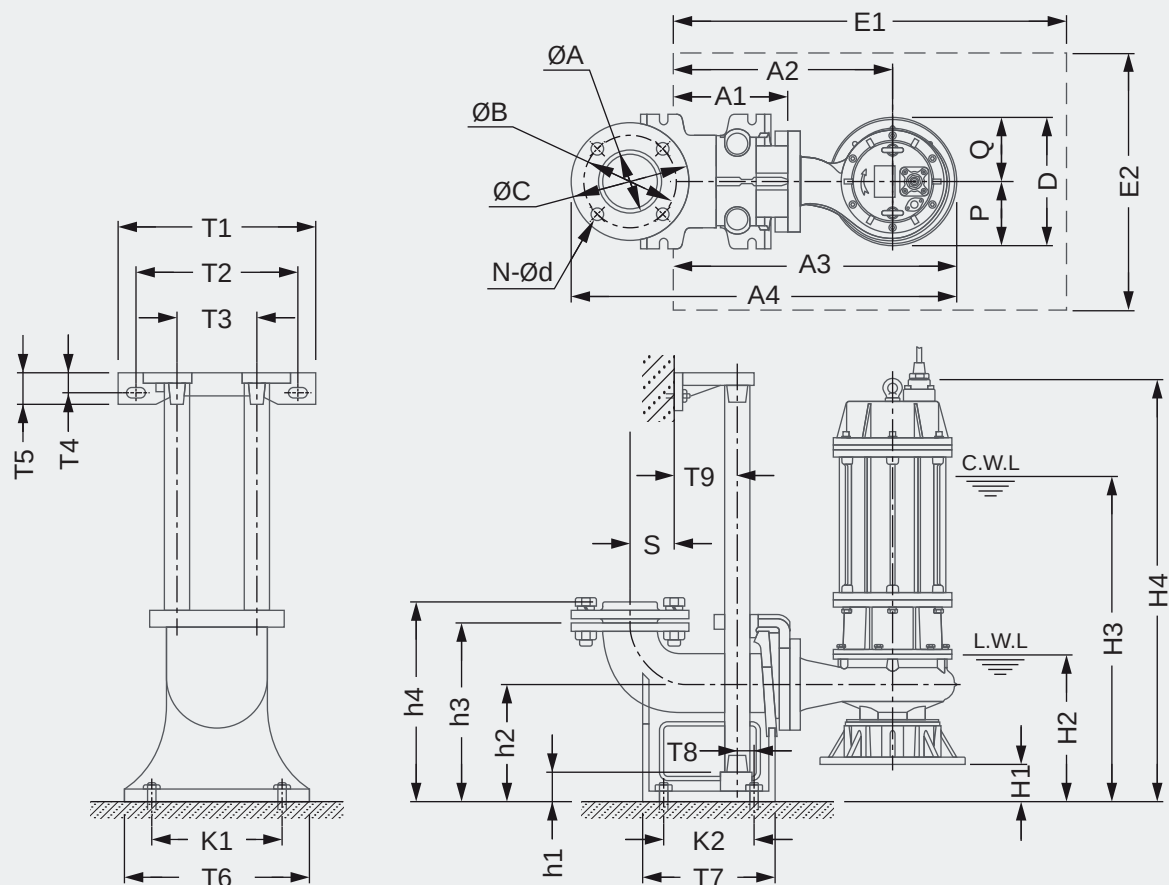
Model (50Hz)	Movable Soft Pipe Installation (R)			Movable Hard Pipe Installation (Y)		
	N.W.	G.W.	Packing Dimensions	N.W.	G.W.	Packing Dimensions
	kg	kg	mm	kg	kg	mm
100B45.5	143	156	905x415x555	149	162	934x414x585
150B45.5	154	167	935x445x585	162	175	964x444x625
100B47.5	159	172	955x415x555	165	178	984x414x585
150B47.5	172	184	985x445x585	180	192	990x444x625
200B47.5	203	218	1010x490x700	211	226	730x490x1090

Sewage Pumps

B Series (4-Pole 2.2~7.5kW)

■ Dimensions & Weights

Auto-Coupled Installation (Z)



C.W.L.: Continuous running water level

L.W.L.: Lowest running water level

Auto Coupling	ØA mm	ØB mm	ØC mm	N-Ød mm	T1 mm	T2 mm	T3 mm	T4 mm	T5 mm	T6 mm	T7 mm	T8 mm	T9 mm	K1 mm	K2 mm	S mm	h1 mm	h2 mm	h3 mm	h4 mm
80-80(PN6)	Ø80 / G3"	150	190	4-Ø18	315	265	145	27	50	255	225	30	78	215	155	77	25	190	305	335
100-100(PN6)	Ø100 / G4"	170	210	4-Ø18	365	305	170	32	55	295	260	35	95	265	175	100	25	230	350	380
150-150(PN6)	Ø150	225	265	8-Ø18	400	260	280	24	48	400	410	75	95	280	300	200	390	300	480	--
200-200(PN10)	Ø200	295	340	8-Ø22	400	260	280	24	48	400	445	100	95	300	355	230	440	325	555	--

Model (50Hz)	Auto Coupling	H1 mm	H2 mm	H3 mm	H4 mm	A1 mm	A2 mm	A3 mm	A4 mm	P mm	Q mm	D mm	E1x2 mm	For Bare Pump Only*		
														N.W. kg	G.W. kg	Packing Dimensions mm
80B42.2	80-80(PN6)	25	260	500	650	175	395	560	730	176	160	336	800x600	73	82	735x375x465
100B42.2	100-100(PN6)	65	300	540	690	200	420	582	790	176	160	336	800x600	74	83	735x375x465
80B43.7	80-80(PN6)	25	260	560	710	175	395	560	730	176	160	336	800x600	83	92	795x375x465
100B43.7	100-100(PN6)	65	300	600	750	200	420	582	790	176	160	336	800x600	84	93	795x375x465
100B45.5	100-100(PN6)	42	295	625	845	200	480	670	875	202	180	382	900x600	137	150	934x414x555
150B45.5	150-150(PN6)	93	380	710	930	285	585	785	1125	215	185	400	1000x600	142	155	964x444x585
100B47.5	100-100(PN6)	42	295	670	890	200	480	670	875	202	180	382	900x600	153	166	984x414x555
150B47.5	150-150(PN6)	93	380	755	975	285	585	785	1125	215	185	400	1000x600	160	172	990x444x585
200B47.5	200-200(PN10)	95	415	790	1010	285	635	865	1263	255	192	447	1050x650	178	193	1010x490x700

* The coupling and pump are packed individually. Packing dimensions and weights in the above table only refer to the bare pump, excluding coupling.

Sewage Pumps

B Series (4-Pole 11~22kW)

■ Applications

- Waste water discharge of industry, shopping mall, hospital and hotel
- Domestic sewage and storm-water drainage of uptown, parking lot and municipal engineering
- Sewage discharge of sewage treatment plant and farm
- Pumping muddy water and lye of construction factory and mine
- Pumping clean water of agriculture and aquaculture

■ Features

- Stainless steel shaft for corrosion resistance
- Cast iron pump body for toughness
- Silicon carbide mechanical seal for scratch prevention
- Built-in thermal protectors of motors with power 7.5kW or below to protect motors from burning and parts from damaging

■ Specifications

Model		B Series (4-Pole 11~22kW)
Phase		3
Voltage	V	380 / 400 / 415
Frequency	Hz	50
Output	kW (HP)	11~22 (15~30)
Head	m	up to 44
Flow	m ³ /h	up to 800
Discharge	mm (inch)	100~250 (4"~10")
Max. Immersion Depth	m	20
Fluid Temperature	°C	up to 40
Density of Liquid	g/cm ³	1.3
Trans Medium's PH:		6~10
Insulation Class		F
Protection Class		IP68
Cable Length	m	8

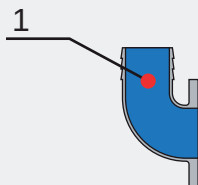


Sewage Pumps

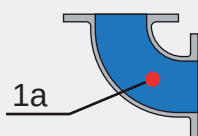
B Series (4-Pole 11~22kW)

Construction

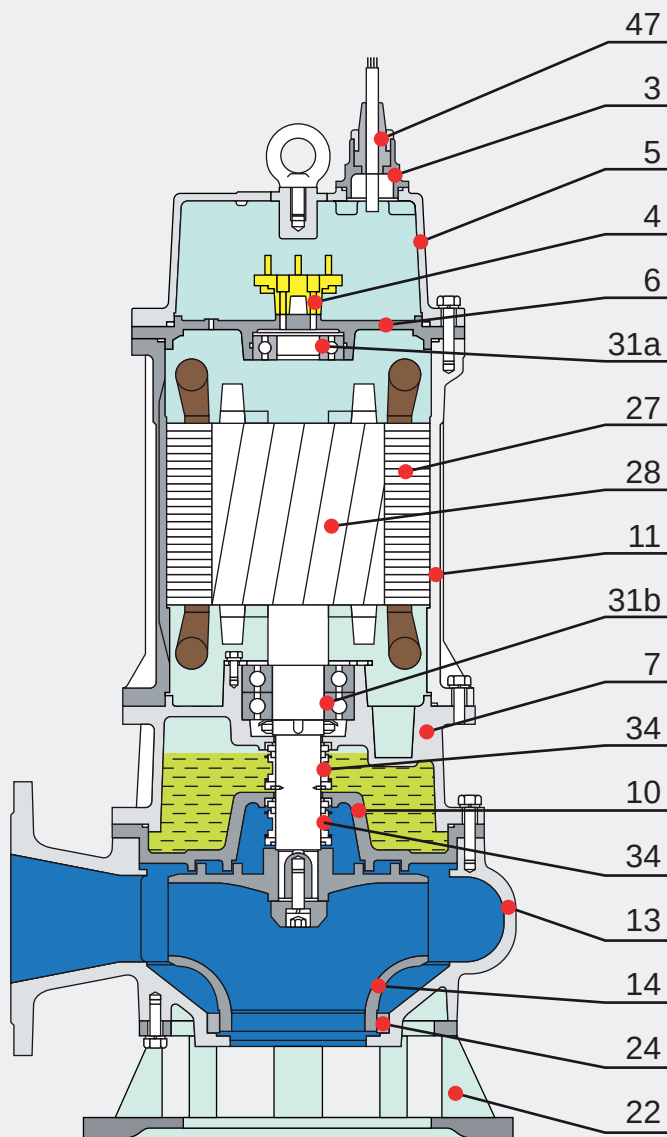
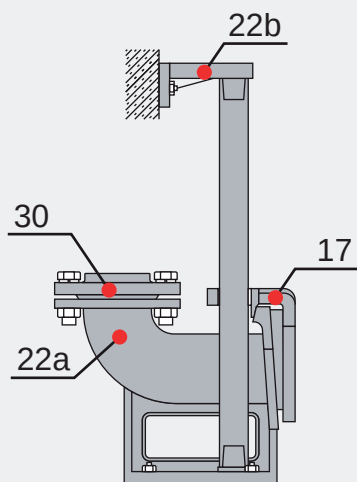
Movable Soft Pipe Installation (R)



Movable Hard Pipe Installation (Y)



Auto-coupled Installation (Z)

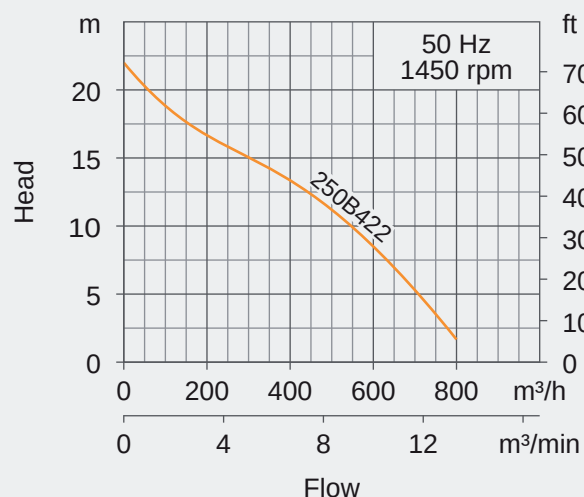
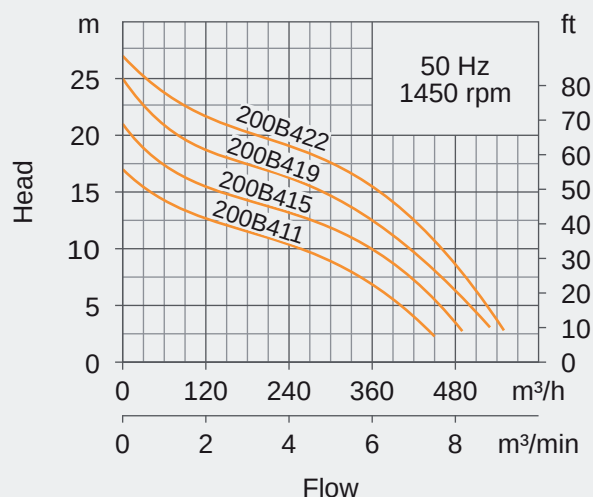
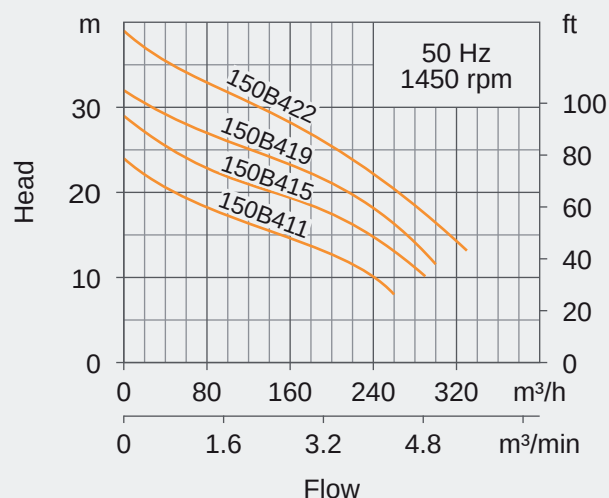
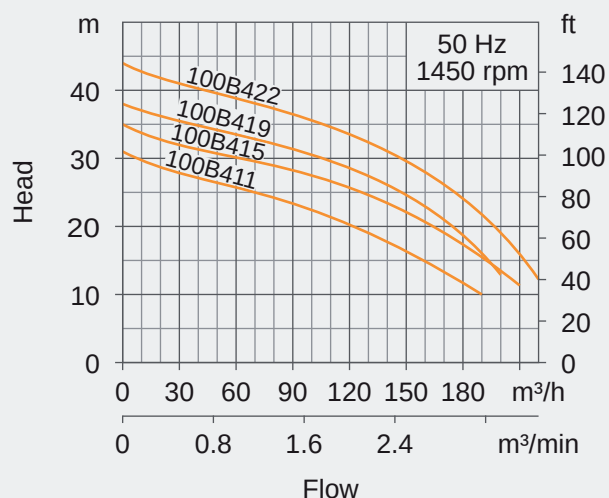


B Series (4-Pole 11~22kW)						
No.	Part Name	Material		No.	Part Name	Material
1	Hose coupling	Cast iron		22	Seat assembly	Cast iron
1a	Hose coupling	Cast iron		22a	Coupling seat	Cast iron
3	Terminal box	Cast iron		22b	Upper guide support	Cast iron
4	Wiring terminal	--		24	Neck ring	High chrome alloy
5	Upper cover	Cast iron		27	Stator	--
6	Up-Bearing house	Cast iron		28	Rotor	Shaft: AISI420SS
7	Bearing house	Cast iron		30	Flange	Cast iron
10	Seal bracket	Cast iron		31a	Bearing	Ball bearing
11	Motor body	Cast iron		31b	Bearing	Ball bearing
13	Pump body	Cast iron		34	Mechanical seal	SiC-SiC
14	Impeller	Ductile iron		47	Cable	--
17	Coupling adapter	Cast iron				

Sewage Pumps

B Series (4-Pole 11~22kW)

Performance Curves



Performance Table

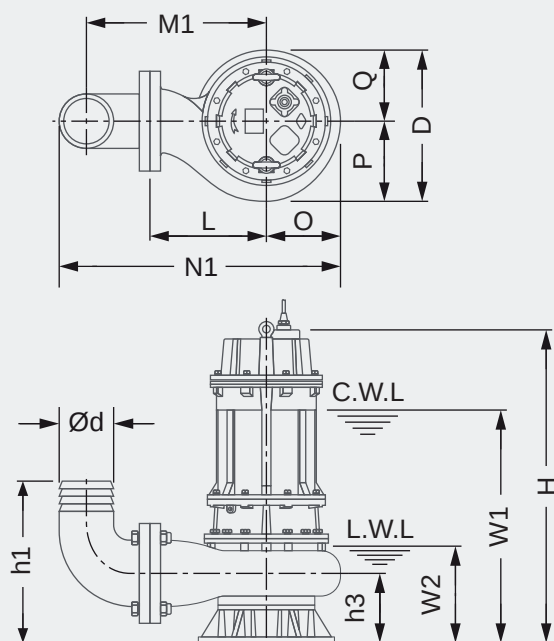
Model (50Hz)	Outlet	Motor Power		Rated Current (380V)	Rated Flow		Rated Head	Max. Flow		Max. Head	Impeller Passage	Cable
	mm	kW	HP	A	m³/h	m³/min	m	m³/h	m³/min	m	mm	mm²
100B411	100	11	15	22	100	1.67	22	190	3.17	31	50	4G4.0
150B411	150	11	15	22	150	2.50	15	260	4.33	24	65	4G4.0
200B411	200	11	15	22	300	5.00	9	450	7.50	17	70	4G4.0
100B415	100	15	20	30.1	100	1.67	27	210	3.50	35	50	4G6.0
150B415	150	15	20	30.1	150	2.50	20	290	4.83	29	65	4G6.0
200B415	200	15	20	30.1	300	5.00	12	490	8.17	21	70	4G6.0
100B419	100	19	25	38	100	1.67	31	200	3.33	38	50	4G10.0
150B419	150	19	25	38	150	2.50	24	300	5.00	32	60	4G10.0
200B419	200	19	25	38	300	5.00	15	530	8.83	25	70	4G10.0
100B422	100	22	30	45	100	1.67	36	220	3.67	44	50	4G10.0
150B422	150	22	30	45	150	2.50	28	330	5.50	39	60	4G10.0
200B422	200	22	30	45	300	5.00	18	550	9.17	27	70	4G10.0
250B422	250	22	30	45	500	8.33	11	800	13.33	22	90	4G10.0

Sewage Pumps

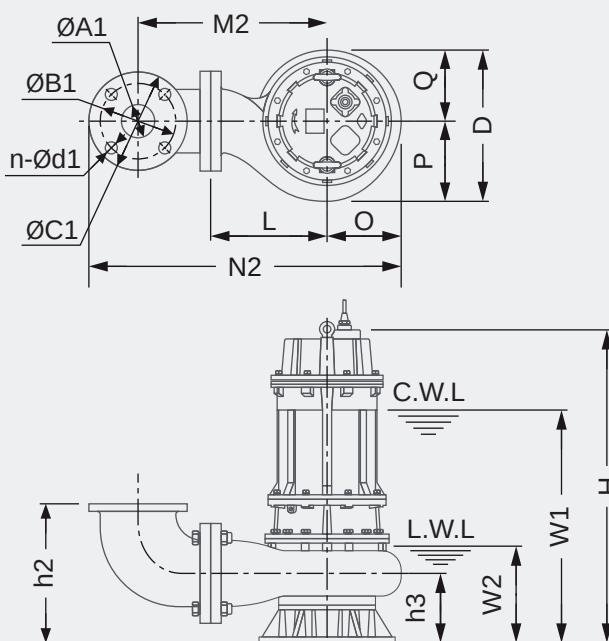
B Series (4-Pole 11~22kW)

■ Dimensions & Weights

Movable Soft Pipe Installation (R)



Movable Hard Pipe Installation (Y)



C.W.L.: Continuous running water level

L.W.L.: Lowest running water level

Model (50Hz)	Ød mm	ØA1 mm	ØB1 mm	ØC1 mm	n-Ød1 mm	h1 mm	h2 mm	h3 mm	W1 mm	W2 mm	H mm	O mm	P mm	Q mm	L mm	D mm	M1 mm	M2 mm	N1 mm	N2 mm
100B411	100	100	170	210	4-Ø18	355	335	185	650	255	910	210	217	210	310	427	412	462	672	777
150B411	150	150	225	265	8-Ø18	440	415	215	680	285	940	210	225	210	320	435	472	522	757	865
200B411	200	200	295	340	8-Ø22	545	465	235	720	325	980	225	253	210	340	463	542	572	868	968
100B415	100	100	170	210	4-Ø18	355	335	185	695	255	955	210	217	210	310	427	412	462	672	777
150B415	150	150	225	265	8-Ø18	440	415	215	725	285	985	210	225	210	320	435	472	522	757	865
200B415	200	200	295	340	8-Ø22	545	465	235	765	325	1025	225	253	210	340	463	542	572	868	968
100B419	100	100	170	210	4-Ø18	355	335	185	715	255	1010	218	227	210	325	437	427	477	695	800
150B419	150	150	225	265	8-Ø18	440	415	215	740	285	1035	220	235	210	335	445	487	537	783	890
200B419	200	200	295	340	8-Ø22	545	465	235	785	325	1080	233	260	210	350	470	552	582	885	985
100B422	100	100	170	210	4-Ø18	355	335	185	736	255	1030	218	227	210	325	437	427	477	695	800
150B422	150	150	225	265	8-Ø18	440	415	215	760	285	1055	220	235	210	335	445	487	537	783	890
200B422	200	200	295	340	8-Ø22	545	465	235	805	325	1100	233	260	210	350	470	552	582	885	985
250B422	--	250	350	395	12-Ø22	--	545	275	860	400	1160	280	313	270	400	583	--	673	--	1150

* Standard equipment with 250mm outlet dimension does not include the bend hose coupling.

Model (50Hz)	Movable Soft Pipe Installation (R)			Movable Hard Pipe Installation (Y)		
	N.W.	G.W.	Packing Dimensions	N.W.	G.W.	Packing Dimensions
	kg	kg	mm	kg	kg	mm
100B411	253	271	700x470x1125	259	277	700x470x1125
150B411	256	274	700x470x1155	264	282	700x470x1155
200B411	280	299	720x500x1195	288	307	720x500x1195
100B415	275	293	700x470x1175	281	299	700x470x1195
150B415	277	295	700x470x1195	285	303	700x470x1195
200B415	302	321	720x500x1245	310	329	720x500x1245
100B419	326	345	700x480x1265	332	351	700x480x1265

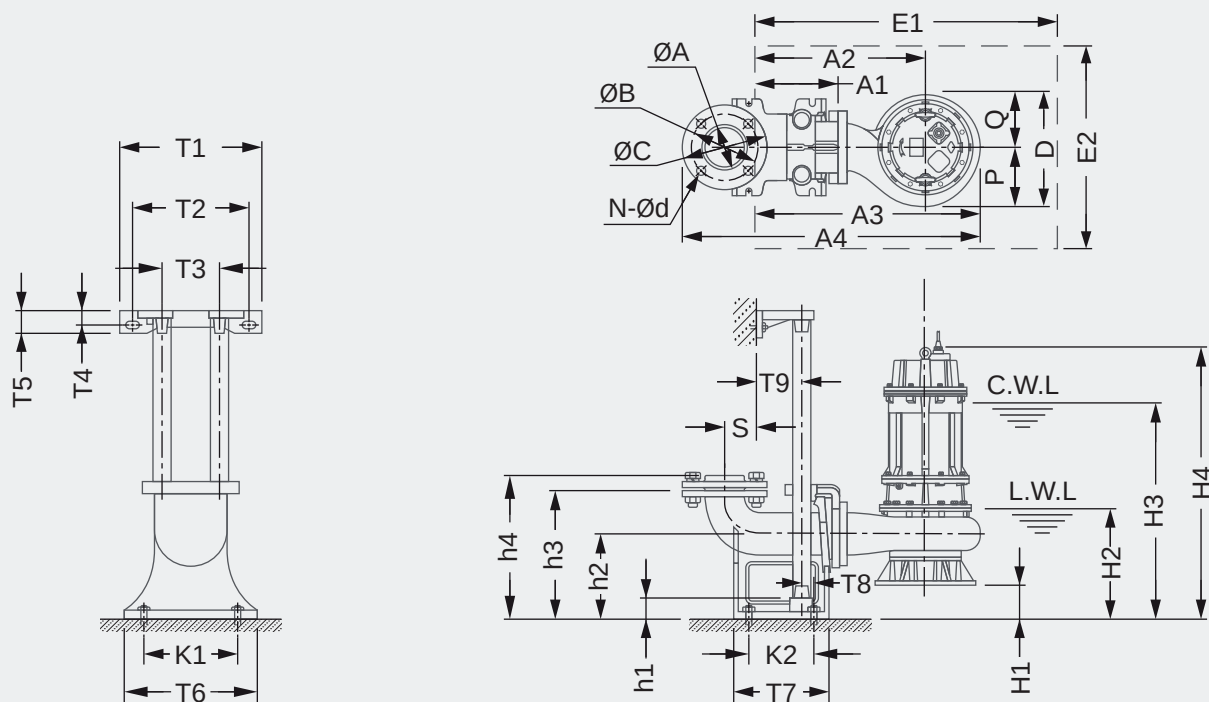
Model (50Hz)	Movable Soft Pipe Installation (R)			Movable Hard Pipe Installation (Y)		
	N.W.	G.W.	Packing Dimensions	N.W.	G.W.	Packing Dimensions
	kg	kg	mm	kg	kg	mm
150B419	327	346	700x480x1265	335	354	700x480x1265
200B419	354	373	740x510x1305	362	381	740x510x1305
100B422	346	366	700x480x1265	352	372	700x480x1265
150B422	347	367	700x480x1265	355	375	700x480x1265
200B422	374	394	740x510x1305	382	402	740x510x1305
250B422	360	381	720x600x1375	400	421	720x600x1375

Sewage Pumps

B Series (4-Pole 11~22kW)

■ Dimensions & Weights

Auto-Coupled Installation (Z)



C.W.L.: Continuous running water level

L.W.L.: Lowest running water level

Auto Coupling	ØA	ØB	ØC	N-Ød	T1	T2	T3	T4	T5	T6	T7	T8	T9	K1	K2	S	h1	h2	h3	h4
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
100-100(PN6)	Ø100 / G4"	170	210	4-Ø18	365	305	170	32	55	295	260	35	95	265	175	100	25	230	350	380
150-150(PN6)	Ø150	225	265	8-Ø18	400	260	280	24	48	400	410	75	95	280	300	200	390	300	480	--
200-200(PN10)	Ø200	295	340	8-Ø22	400	260	280	24	48	400	445	100	95	300	355	230	440	325	555	--
250-250(PN10)	Ø250	350	395	12-Ø22	400	260	280	24	48	460	555	110	95	360	430	295	460	315	630	--

* Standard equipment with 150, 200 or 250 mm outlet dimension does not include flange.

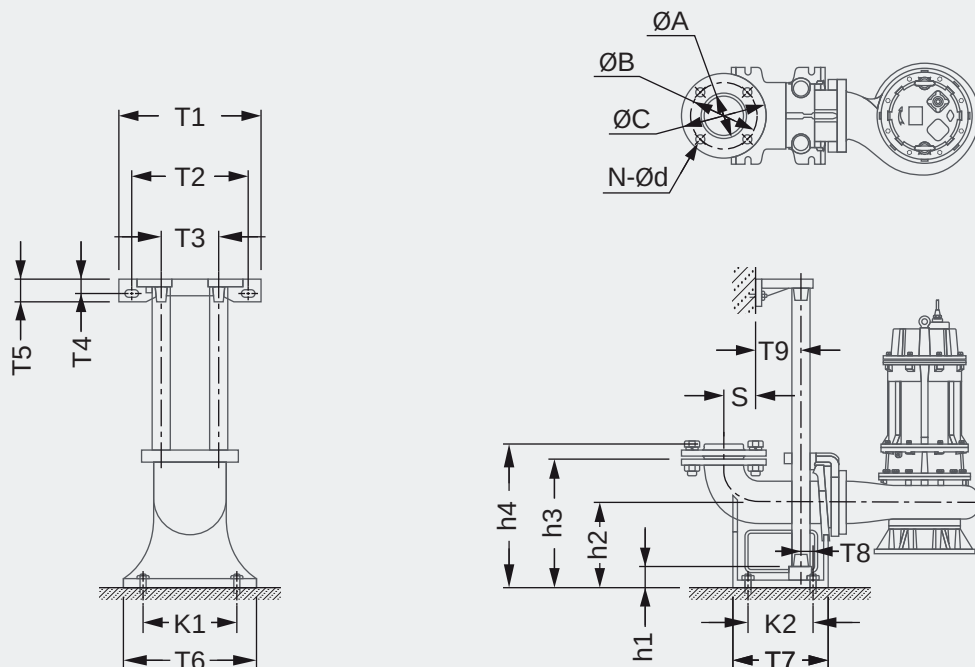
Model (50Hz)	Auto Coupling													For Bare Pump Only*		
		H1	H2	H3	H4	A1	A2	A3	A4	P	Q	D	E1x2	N.W.	G.W.	Packing Dimensions
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg	mm
100B411	100-100(PN6)	45	300	695	955	200	510	720	925	217	210	427	900x600	247	1265	700x470x1115
150B411	150-150(PN6)	85	370	765	1025	285	605	815	1155	225	210	435	1050x650	244	262	700x470x1145
200B411	200-200(PN10)	90	415	810	1070	285	625	850	1250	253	210	463	1050x650	255	284	720x500x1185
100B415	100-100(PN6)	45	300	740	1000	200	510	720	925	217	210	427	900x600	269	287	700x470x1165
150B415	150-150(PN6)	85	370	810	1070	285	605	815	1155	225	210	435	1050x650	265	283	720x470x1185
200B415	200-200(PN10)	90	415	855	1115	285	625	850	1250	253	210	463	1050x650	277	296	700x500x1235
100B419	100-100(PN6)	45	300	760	1055	200	525	743	950	227	210	437	900x600	320	339	700x480x1255
150B419	150-150(PN6)	85	375	825	1120	285	620	840	1180	235	210	445	1050x650	315	334	700x480x1255
200B419	200-200(PN10)	90	420	875	1170	285	635	868	1265	260	210	470	1050x650	329	348	740x510x1295
100B422	100-100(PN6)	45	300	780	1075	200	525	743	950	227	210	437	900x600	340	360	700x480x1255
150B422	150-150(PN6)	85	375	845	1140	285	620	840	1180	235	210	445	1050x650	335	355	700x480x1255
200B422	200-200(PN10)	90	420	895	1190	285	635	868	1265	260	210	470	1050x650	349	369	740x510x1295
250B422	250-250(PN10)	40	440	900	1200	310	710	990	1482	313	270	583	1100x850	360	381	720x600x1300

* The coupling and pump are packed individually. Packing dimensions and weights in the above table only refer to the bare pump, excluding coupling.

Sewage Pumps

B Series Auto-Coupling

■ Dimensions & Weights



Auto Coupling	ØA	ØB	ØC	N-Ød	T1	T2	T3	T4	T5	T6	T7	T8	T9	K1	K2	S	h1	h2	h3	h4
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
40-40(PN6)	Ø40 / G1½"	100	130	4-Ø14	225	185	70	18	35	110	140	5	65	65	70	60	150	115	195	215
50-50(PN6)	Ø50 / G2"	110	140	4-Ø14	265	215	105	25	42	200	215	15	67	165	135	63	25	160	250	280
65-65(PN6)	Ø65 / G2½"	130	160	4-Ø14	280	230	125	30	50	230	235	20	70	190	155	90	25	165	265	295
80-80(PN6)	Ø80 / G3"	150	190	4-Ø18	315	265	145	27	50	255	225	30	78	215	155	77	25	190	305	335
100-100(PN6)	Ø100 / G4"	170	210	4-Ø18	365	305	170	32	55	295	260	35	95	265	175	100	25	230	350	380
150-150(PN6)	Ø150	225	265	8-Ø18	400	260	280	24	48	400	410	75	95	280	300	200	390	300	480	--
150-150(PN10)	Ø150	240	280	8-Ø22	400	260	280	24	48	400	410	75	95	280	300	200	390	300	480	--
200-200(PN10)	Ø200	295	340	8-Ø22	400	260	280	24	48	400	445	100	95	300	355	230	440	325	555	--
250-250(PN10)	Ø250	350	395	12-Ø22	400	260	280	24	48	460	555	110	95	360	430	295	460	315	630	--
300-300(PN10)	Ø300	400	445	12-Ø22	500	320	360	32	65	550	570	95	115	414	410	270	570	400	730	--
400-400(PN10)	Ø400	515	565	16-Ø27	520	340	375	32	65	620	660	100	115	495	525	365	770	480	960	--

* Standard equipment with 150, 200, 250, 300 or 400 mm outlet dimension does not include flange.



AutoCoupling	For Bare Auto-Coupling Only*		
	N.W.	G.W.	PackingDimensions
	kg	kg	mm
40-40(PN6)	11	13	370x260x 195
50-50(PN6)	17	19.5	380x320x245
65-65(PN6)	24	27	420x270x345
80-80(PN6)	31	34.5	440x290x395
100-100(PN6)	45	50	500x330x475
150-150(PN6)	96	119	700x440x660
150-150(PN10)	95	118	700x440x660
200-200(PN10)	125	142	770x440x 700
250-250(PN10)	195	215	900x510x760
300-300(PN10)	285	313	920x620x890
400-400(PN10)	450	490	1130x670x1110

Lifting Water in Wells **R95, 6SP and 8SP Series**

The R95, 6SP and 8SP series are submersible multistage pumps. They are designed for raising clean water from wells, primary water supply tanks and reservoirs.



Deep Well Pumps

R95 Series

■ Applications

- Lifting clean and clear water in wells
- Domestic applications
- Civil applications
- Industrial applications
- Water supply
- Irrigation
- Washdown systems
- Pressure boosting

■ Features

- R95-BF series uses radial floating impellers
- R95-DF and R95-DG series use semi-axial impellers
- Durable and easy installation
- Continuous or intermittent duty
- Built-in thermal protectors of motors with power 11kW or below to protect motors from burning and parts from damaging

■ Specifications

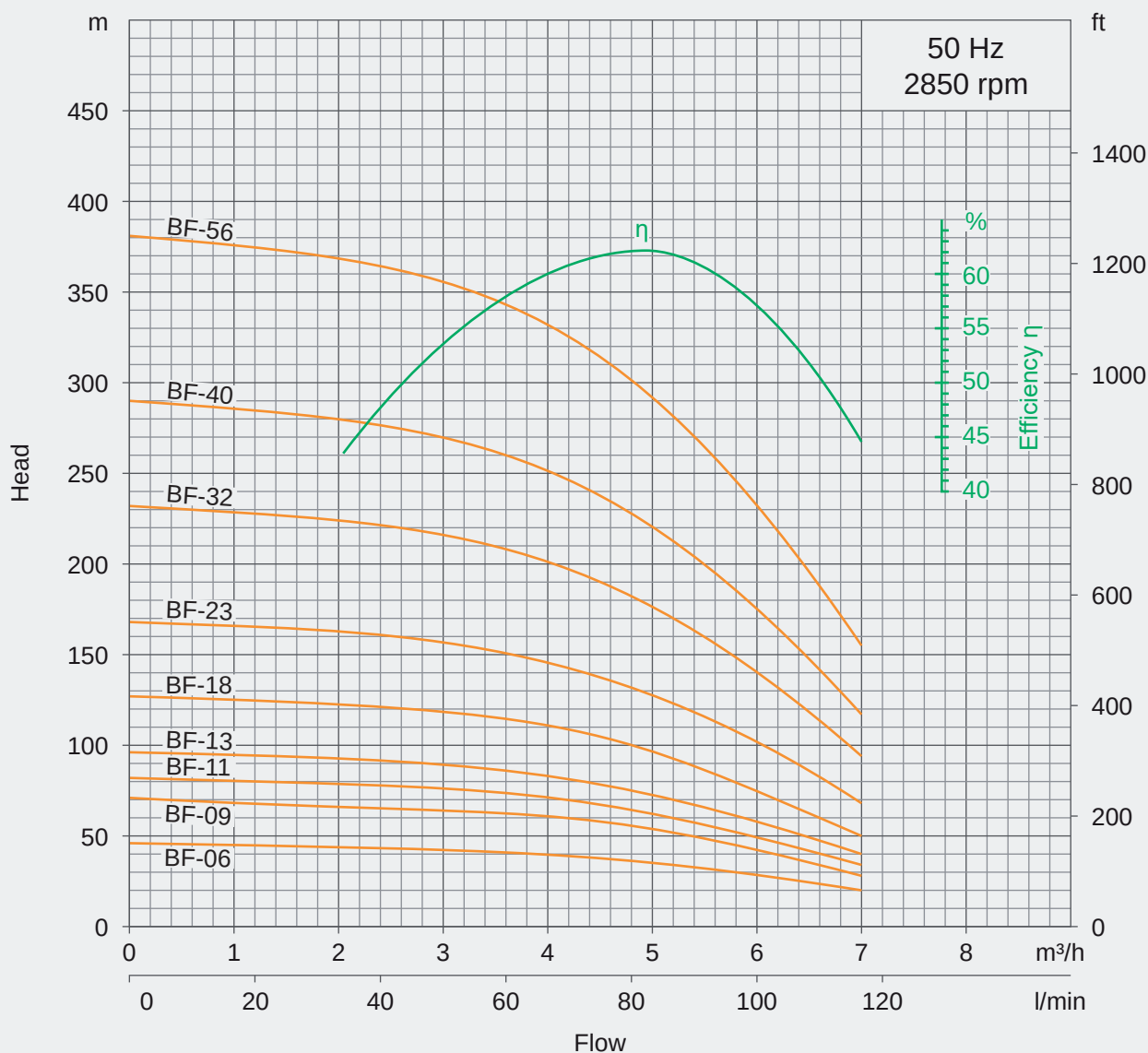
Model		R95 Series
Phase		3
Voltage	V	380
Frequency	Hz	50
Output	kW (HP)	0.37~7.5 (0.5~10)
Head	m	up to 381
Flow	m ³ /h	up to 20
Discharge	mm (inch)	40~50 (1.5"~2")
Max. Submerged Depth	m	100
Water Temperature	°C	1~35
Maximum Permissible Content of Suspended Sand	g/m ³	100
Maximum Starts per Hour at Regular intervals		30



Deep Well Pumps

R95-BF Series

Performance Curves



Performance Table

Model (50Hz)	Motor Power		Rated Current (380V)	Flow Rate								
	HP	kW		A	m³/h	0	1	2	3	4	5	6
			l/min		0	17	33	50	67	83	100	117
R95-BF-06	1	0.75	2.5	Head (m)	46	45	43	42	40	35	28	20
R95-BF-09	1.5	1.1	3.4		71	66	65	62	59	52	41	28
R95-BF-11	2	1.5	4.4		82	81	79	77	71	62	51	34
R95-BF-13	2	1.5	4.4		96	94	93	90	83	73	58	40
R95-BF-18	3	2.2	6.2		127	124	121	113	108	92	83	50
R95-BF-23	4	3	8.3		168	165	162	160	146	128	102	68
R95-BF-32	5.5	4	10.3		232	228	215	208	201	176	140	94
R95-BF-40	7.5	5.5	14		290	282	275	270	251	220	175	117
R95-BF-56	10	7.5	18.5		381	375	368	356	331	289	231	155

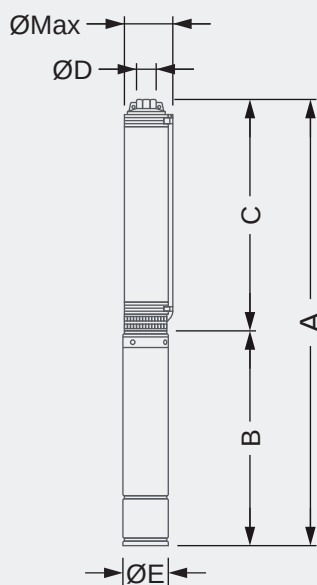
Deep Well Pumps

R95-BF Series

Materials

Part	Material
Delivery door	Copper
Suction support	Copper
Check valve	Plastic (POM)
Valve support	Plastic (PC)
Shaft support	Plastic (PC)
Impeller	NBR / SUS304 / SUS316
Diffuser	Plastic (PPO)
Valve seal	Nitrile rubber (NBR)
Anti-wear washer	Nitrile rubber (NBR)
Pump bearing	SUS304 / SUS316
Pump body	AISI 304
Cable cover	SUS304 / SUS316
Filter	SUS304 / SUS316
Shaft	AISI 431 / SUS304 / SUS316
Shaft coupling	AISI 431 / SUS304 / SUS316
Bushing	AISI 420 / SUS304 / SUS316

Dimensions

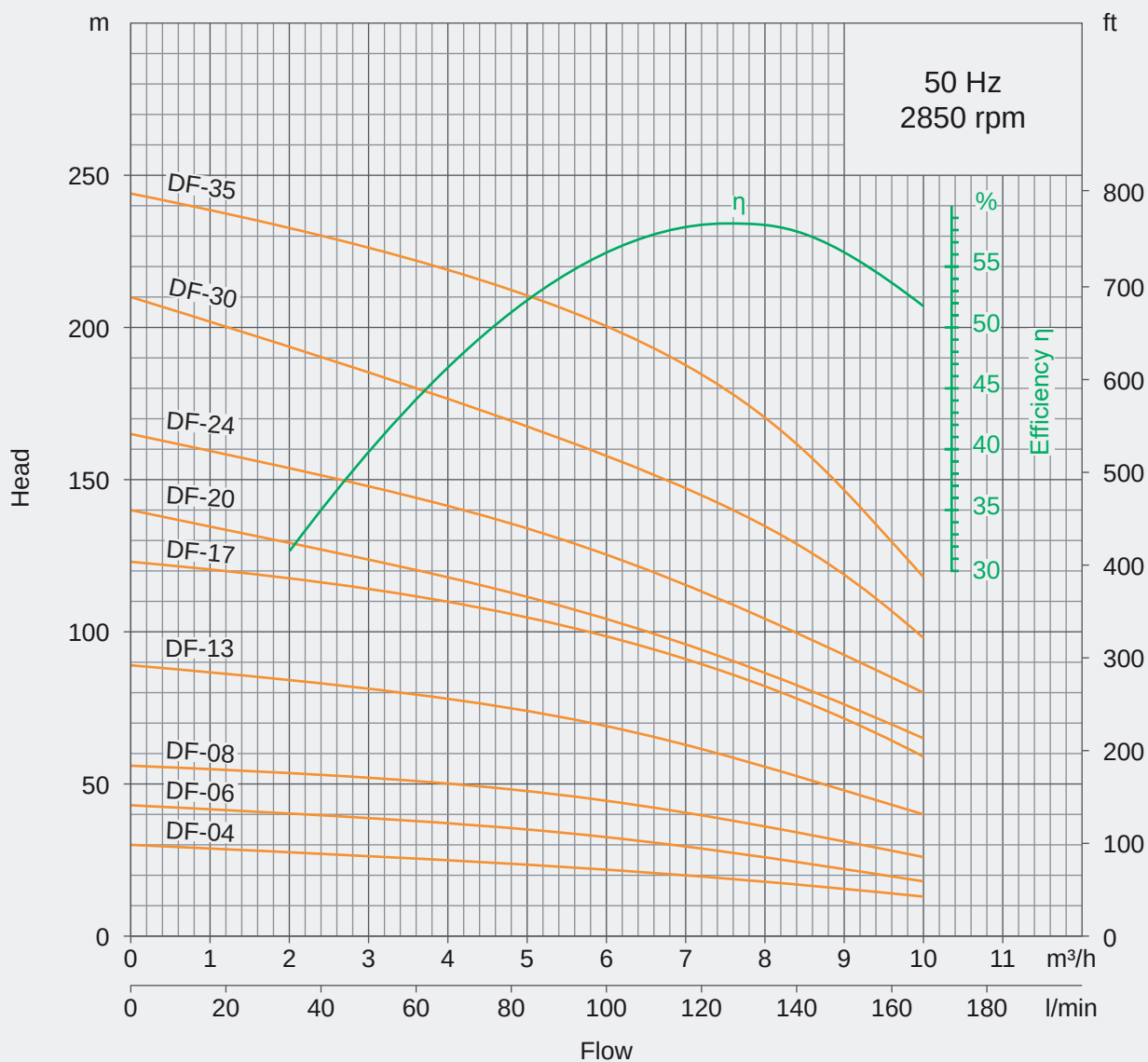


Model (50Hz)	A	B	C	ØD	ØE	ØMax
	mm	mm	mm	inch	mm	mm
R95-BF-06	840	386	454	1 ½" G	95	100
R95-BF-09	970	406	564	1 ½" G	95	100
R95-BF-11	1078	441	637	1 ½" G	95	100
R95-BF-13	1151	441	710	1 ½" G	95	100
R95-BF-18	1358	501	857	1 ½" G	95	100
R95-BF-23	1683	561	1122	1 ½" G	95	100
R95-BF-32	2055	601	1454	1 ½" G	95	100
R95-BF-40	2511	721	1790	1 ½" G	95	100
R95-BF-56	3179	841	2338	1 ½" G	95	100

Deep Well Pumps

R95-DF Series

Performance Curves



Performance Table

Model (50Hz)	Motor Power		Rated Current (380V)		Flow Rate								
	HP	kW			A	m³/h	0	2	4	6	7	8	9
			l/min			0	33	67	100	117	133	150	167
R95-DF-04	1	0.75	2.5	Head (m)	30	28	25	22	19	18	15	13	
R95-DF-06	1.5	1.1	3.4		43	41	38	34	31	28	23	18	
R95-DF-08	2	1.5	4.4		56	54	52	44	40	35	32	26	
R95-DF-13	3	2.2	6.2		89	87	84	73	63	60	48	40	
R95-DF-17	4	3	8.3		123	118	112	100	93	84	72	59	
R95-DF-20	4	3	8.3		140	133	125	115	99	90	80	65	
R95-DF-24	5.5	4	10.3		165	158	153	130	119	107	94	80	
R95-DF.30	7.5	5.5	14		210	200	183	169	150	140	115	98	
R95-DF-35	10	7.5	18.5		244	235	220	200	180	171	140	118	

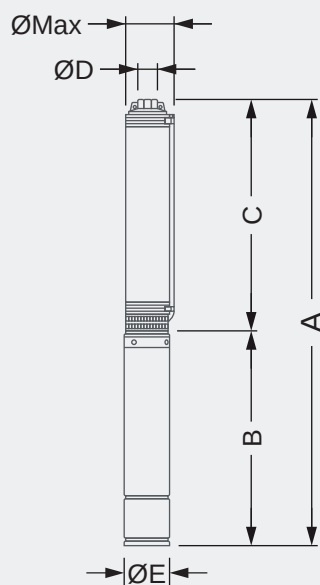
Deep Well Pumps

R95-DF Series

Materials

Part	Material
Delivery door	Copper
Suction support	Copper
Check valve	Plastic (POM)
Valve support	Plastic (PC)
Shaft support	Plastic (PC)
Impeller	NBR / SUS304 / SUS316
Diffuser	Plastic (PPO)
Valve seal	Nitrile rubber (NBR)
Anti-wear washer	Nitrile rubber (NBR)
Pump bearing	SUS304 / SUS316
Pump body	AISI 304
Cable cover	SUS304 / SUS316
Filter	SUS304 / SUS316
Shaft	AISI 431 / SUS304 / SUS316
Shaft coupling	AISI 431 / SUS304 / SUS316
Bushing	AISI 420 / SUS304 / SUS316

Dimensions

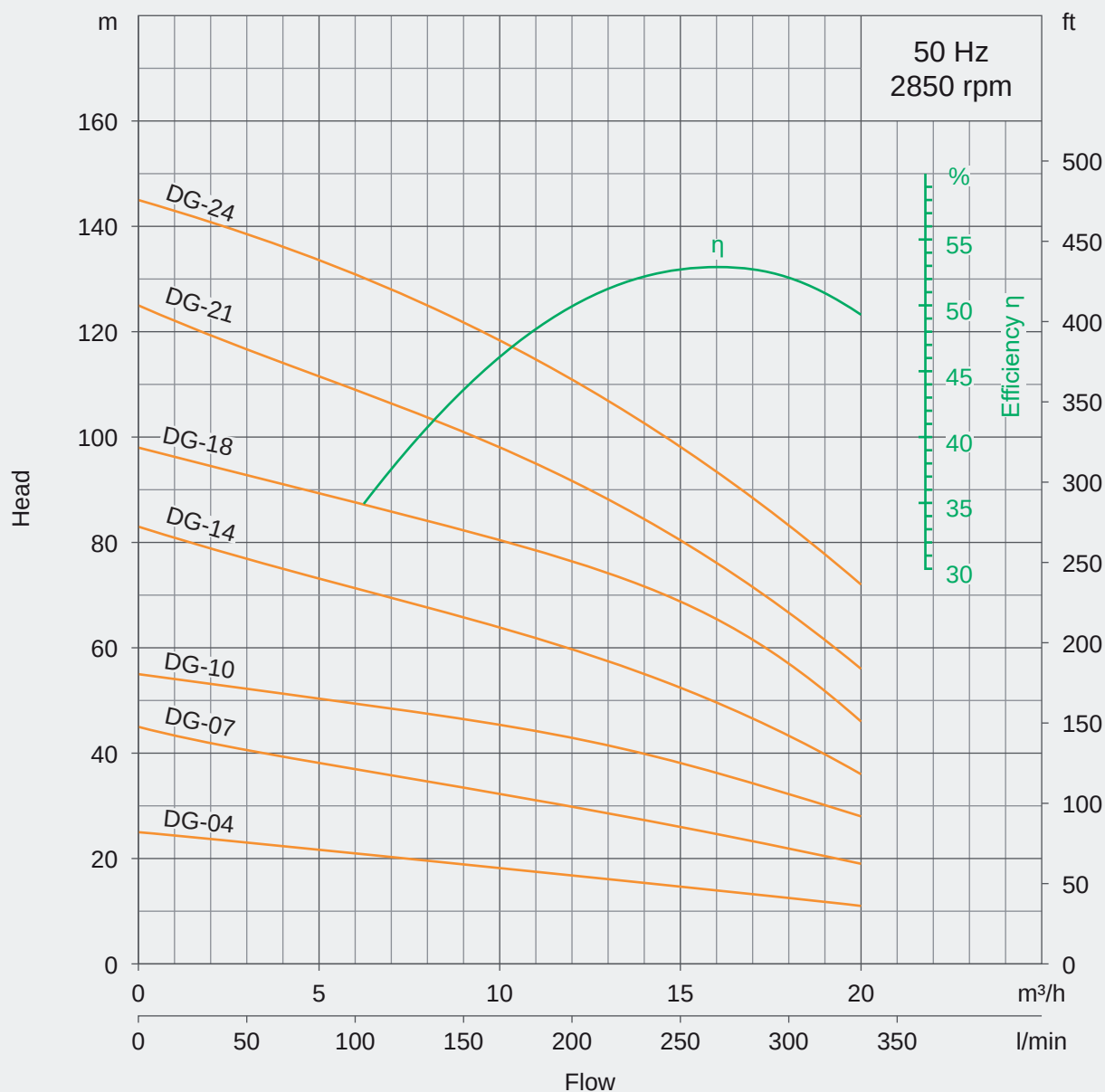


Model (50Hz)	A	B	C	ØD	ØE	ØMax
	mm	mm	mm	inch	mm	mm
R95-DF-04	828	386	442	2" G	95	100
R95-DF-06	943	406	537	2" G	95	100
R95-DF-08	1092	441	651	2" G	95	100
R95-DF-13	1415	501	914	2" G	95	100
R95-DF-17	1740	561	1179	2" G	95	100
R95-DF-20	1901	561	1340	2" G	95	100
R95-DF-24	2148	601	1547	2" G	95	100
R95-DF.30	2643	721	1922	2" G	95	100
R95-DF-35	3026	841	2185	2" G	95	100

Deep Well Pumps

R95-DG Series

Performance Curves



Performance Table

Model (50Hz)	Motor Power		Rated Current (380V)	Flow Rate								
	HP	kW		A	m³/h	0	6	9	12	14	16	18
			l/min		0	100	150	200	233	267	300	333
R95-DG-04	2	1.5	4.4	Head (m)	25	21	19	17	16	14	13	11
R95-DG-07	3	2.2	6.2		45	35	32	30	28	25	22	19
R95-DG-10	4	3	8.3		55	50	47	44	40	36	33	28
R95-DG-14	5.5	4	10.3		83	72	66	60	56	50	43	36
R95-DG-18	7.5	5.5	14		98	89	81	78	71	63	55	46
R95-DG-21	10	7.5	18.5		125	112	100	93	84	75	66	56
R95-DG-24	10	7.5	18.5		145	130	118	110	104	91	84	72

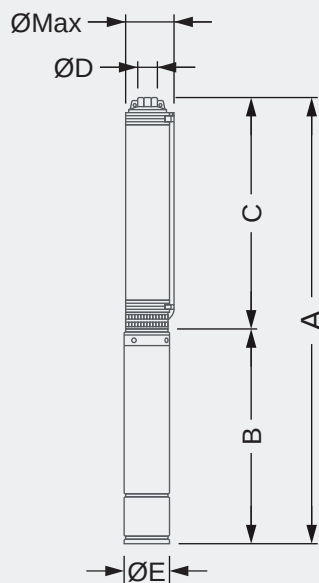
Deep Well Pumps

R95-DG Series

Materials

Part	Material
Delivery door	Copper
Suction support	Copper
Check valve	Plastic (POM)
Valve support	Plastic (PC)
Shaft support	Plastic (PC)
Impeller	NBR / SUS304 / SUS316
Diffuser	Plastic (PPO)
Valve seal	Nitrile rubber (NBR)
Anti-wear washer	Nitrile rubber (NBR)
Pump bearing	SUS304 / SUS316
Pump body	AISI 304
Cable cover	SUS304 / SUS316
Filter	SUS304 / SUS316
Shaft	AISI 431 / SUS304 / SUS316
Shaft coupling	AISI 431 / SUS304 / SUS316
Bushing	AISI 420 / SUS304 / SUS316

Dimensions



Model (50Hz)	A	B	C	ØD	ØE	ØMax
	mm	mm	mm	inch	mm	mm
R95-DG-04	925	441	484	2" G	95	100
R95-DG-07	1202	501	701	2" G	95	100
R95-DG-10	1466	561	905	2" G	95	100
R95-DG-14	1821	601	1220	2" G	95	100
R95-DG-18	2257	721	1536	2" G	95	100
R95-DG-21	2586	841	1745	2" G	95	100
R95-DG-24	2899	841	2058	2" G	95	100

Deep Well Pumps

SP Series

■ Applications

- Lifting clean and clear water in wells
- Domestic applications
- Civil applications
- Industrial applications
- Water supply
- Irrigation
- Washdown systems
- Pressure boosting

■ Features

- With 100% SS304 metal materials, the structure is corrosion-resistant, clean and environmentally friendly, and does not cause secondary pollution to water
- The stainless steel impeller is significantly better than ordinary plastic impeller and brass impeller in terms of wear resistance and service life, so that the pump has the characteristics of high efficiency, good stability and long service life
- The stainless steel net can prevent sand or large particles from entering the pump body
- Built-in special thrust bearing effectively prevents damage to the pump during startup and transportation
- Continuous or intermittent duty
- Built-in thermal protectors of motors with power 11kW or below to protect motors from burning and parts from damaging

■ Specifications

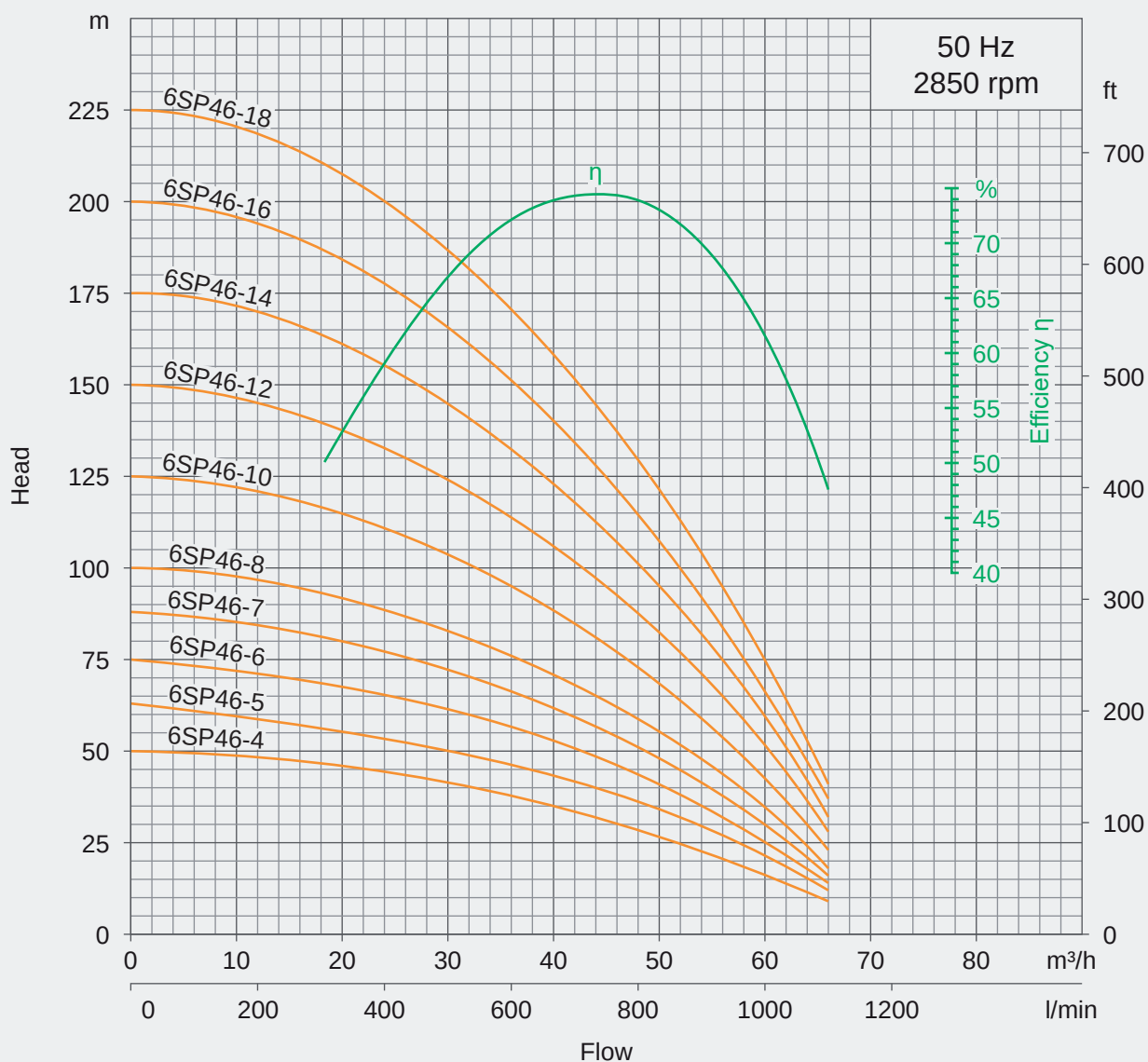
Model		SP Series
Phase		3
Voltage	V	380
Frequency	Hz	50
Output	kW (HP)	7.5~93 (10~125)
Head	m	up to 420
Flow	m ³ /h	up to 135
Discharge	mm (inch)	80~100 (3"~4")
Max. Submerged Depth	m	150
Water Temperature	°C	1~35
Maximum Permissible Content of Suspended Sand	g/m ³	100
Maximum Starts per Hour		30



Deep Well Pumps

6SP46 Series

Performance Curves



Performance Table

Model (50Hz)	Motor Power		Rated Current (380V)	Flow Rate								
	HP	kW		A	m³/h	0	24	30	36	42	48	54
			l/min		0	400	500	600	700	800	900	1100
6SP46-4	10	7.5	17	Head (m)	50	44	40	37	34	30	23	9
6SP46-5	10	7.5	17		63	55	51	46	42	37	29	12
6SP46-6	12.5	9.2	21		75	67	62	57	51	44	35	14
6SP46-7	15	11	24		88	78	72	66	60	52	41	16
6SP46-8	17.5	13	28		100	89	82	76	68	59	46	18
6SP46-10	20	15	32		125	111	104	94	85	74	58	23
6SP46-12	25	18.5	40		150	134	124	114	102	89	70	28
6SP46-14	30	22	46		175	155	144	133	119	102	81	32
6SP46-16	35	26	54		200	178	166	151	136	118	93	37
6SP46-18	40	30	62		225	202	188	170	151	131	104	41

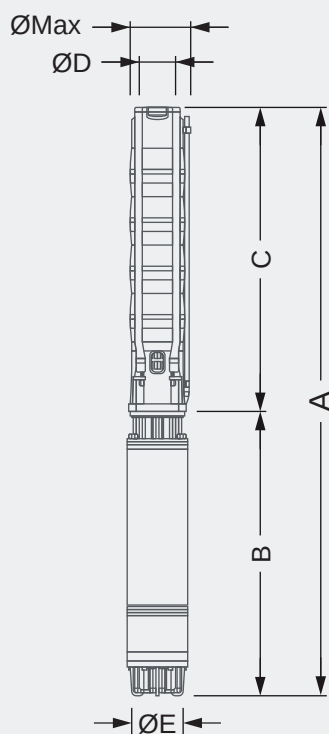
Deep Well Pumps

6SP46 Series

■ Materials

Part	Material
Shaft	SUS304 / SUS316
Check valve	SUS304 / SUS316
Coupling	SUS304 / SUS316
Pump body	SUS304 / SUS316
Impeller	SUS304 / SUS316
Diffuser	SUS304 / SUS316
Bearing	SUS304 / SUS316
Suction strainer	SUS304 / SUS316
Suction support	SUS304 / SUS316
Delivery body	SUS304 / SUS316
Cable cover	SUS304 / SUS316
Filter	SUS304 / SUS316
Bushing	AISI 420 / SUS304 / SUS316

■ Dimensions

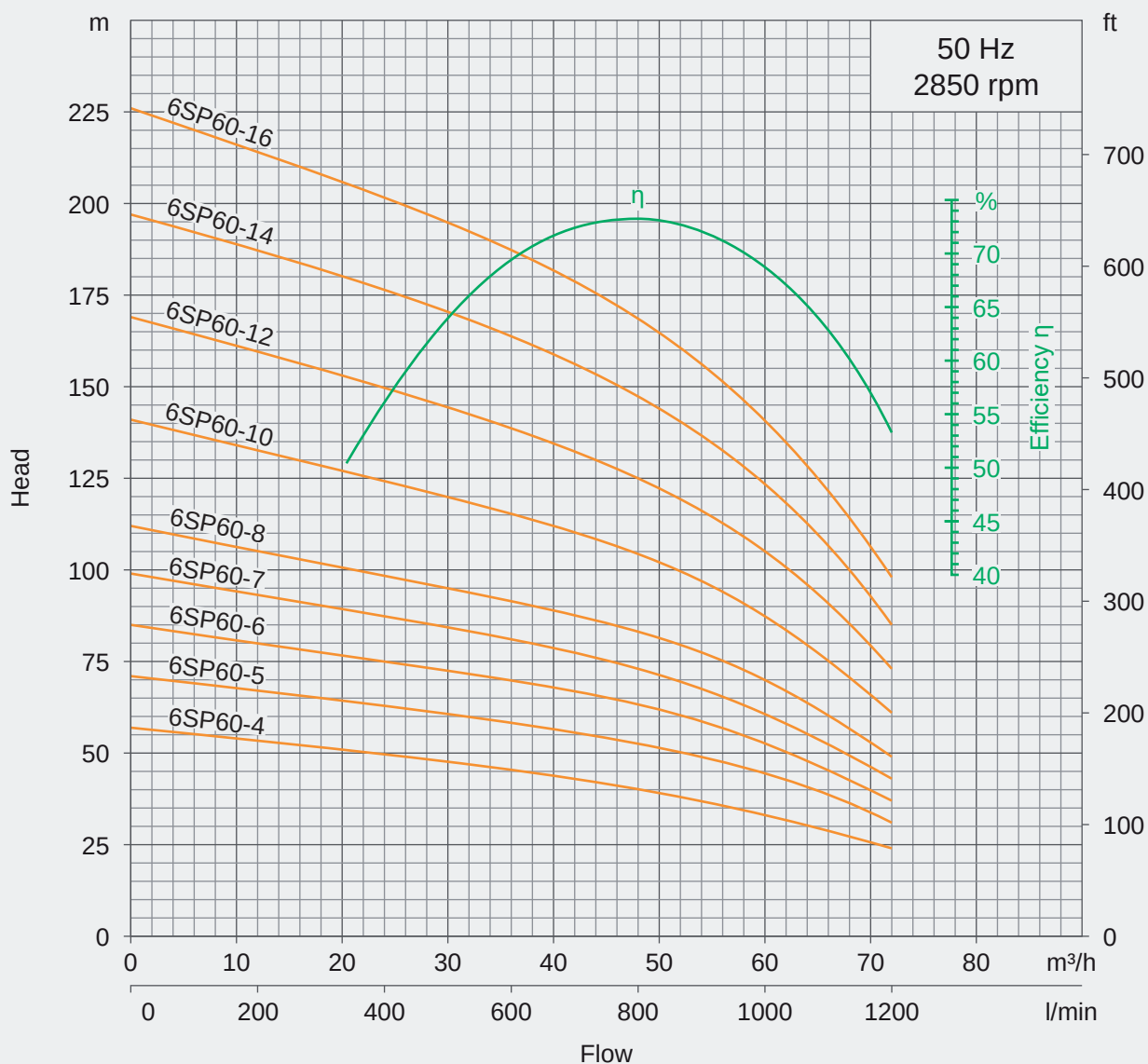


Model (50Hz)	A	B	C	ØD	ØE	ØMax
	mm	mm	mm	inch	mm	mm
6SP46-4	1505.2	783	722.2	3"G	144	145
6SP46-5	1618	783	835	3"G	144	145
6SP46-6	1760.8	813	947.8	3"G	144	145
6SP46-7	1898.6	838	1060.6	3"G	144	145
6SP46-8	2041.4	868	1173.4	3"G	144	145
6SP46-10	2322	923	1399	3"G	144	145
6SP46-12	2597.6	973	1624.6	3"G	144	145
6SP46-14	2873.2	1023	1850.2	3"G	144	145
6SP46-16	3143.8	1068	2075.8	3"G	144	145
6SP46-18	3424.4	1123	2301.4	3"G	144	145

Deep Well Pumps

6SP60 Series

Performance Curves



Performance Table

Model (50Hz)	Motor Power		Rated Current (380V)	Flow Rate								
	HP	kW		A	m³/h	0	24	36	42	48	54	60
			l/min		0	400	600	700	800	900	1000	1200
6SP60-4	10	7.5	17	Head (m)	57	50	45	42	39	37	34	24
6SP60-5	12.5	9.2	21		71	64	59	56	53	49	45	31
6SP60-6	15	11	24		85	75	70	67	64	59	53	37
6SP60-7	17.5	13	28		99	88	81	78	74	69	62	43
6SP60-8	20	15	32		112	98	92	88	84	78	71	49
6SP60-10	25	18.5	40		141	125	115	110	105	98	89	61
6SP60-12	30	22	46		169	150	139	132	126	118	107	73
6SP60-14	35	26	54		197	175	160	152	145	137	125	85
6SP60-16	40	30	62		226	204	185	176	166	157	142	98

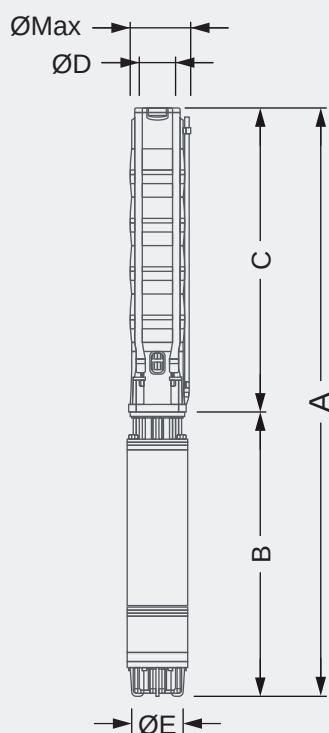
Deep Well Pumps

6SP60 Series

■ Materials

Part	Material
Shaft	SUS304 / SUS316
Check valve	SUS304 / SUS316
Coupling	SUS304 / SUS316
Pump body	SUS304 / SUS316
Impeller	SUS304 / SUS316
Diffuser	SUS304 / SUS316
Bearing	SUS304 / SUS316
Suction strainer	SUS304 / SUS316
Suction support	SUS304 / SUS316
Delivery body	SUS304 / SUS316
Cable cover	SUS304 / SUS316
Filter	SUS304 / SUS316
Bushing	AISI 420 / SUS304 / SUS316

■ Dimensions

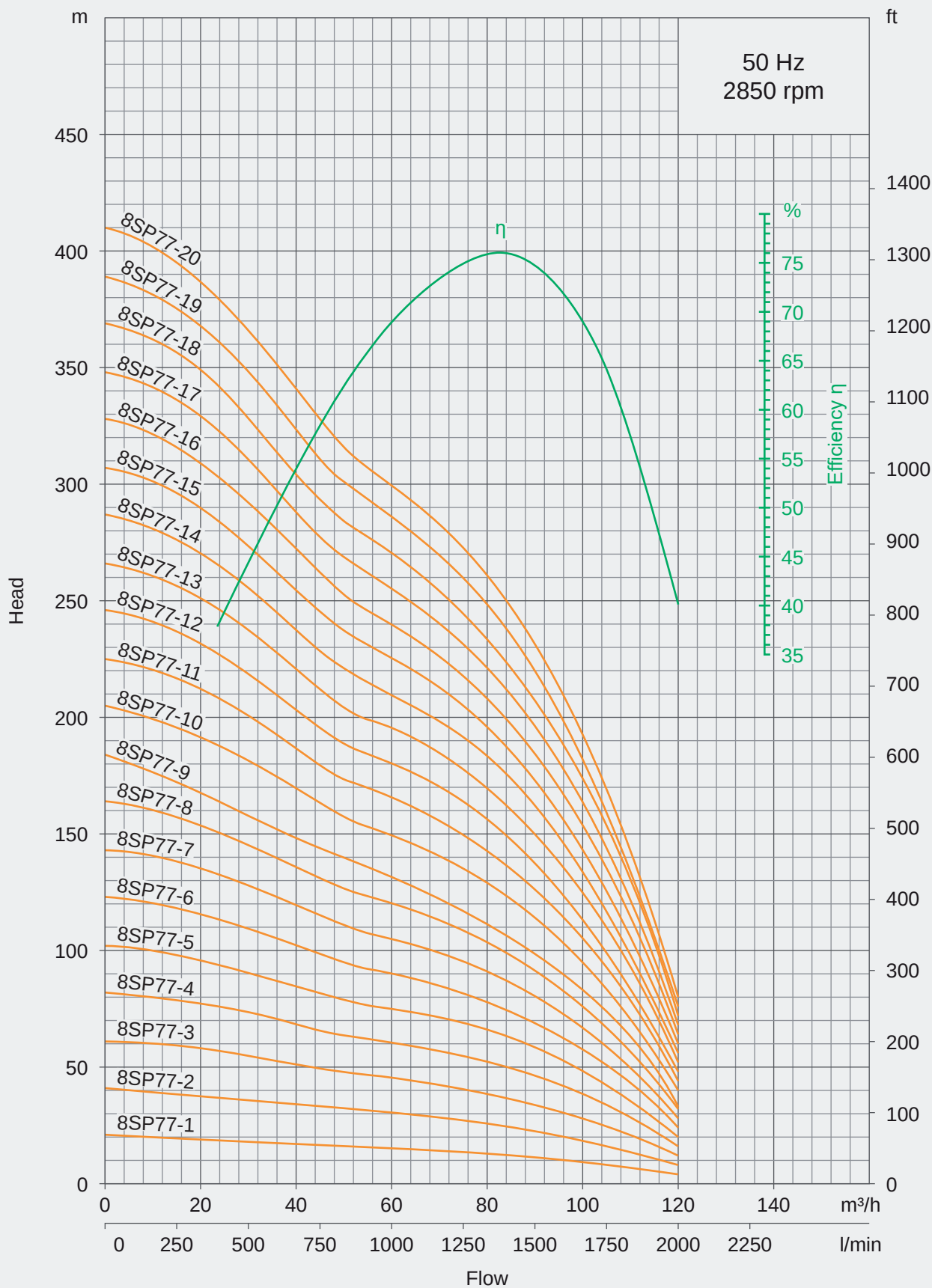


Model (50Hz)	A	B	C	ØD	ØE	ØMax
	mm	mm	mm	inch	mm	mm
6SP60-4	1505.2	783	722.2	3"G	144	145
6SP60-5	1648	813	835	3"G	144	145
6SP60-6	1785.8	838	947.8	3"G	144	145
6SP60-7	1928.6	868	1060.6	3"G	144	145
6SP60-8	2096.4	923	1173.4	3"G	144	145
6SP60-10	2372	973	1399	3"G	144	145
6SP60-12	2647.6	1023	1624.6	3"G	144	145
6SP60-14	2918.2	1068	1850.2	3"G	144	145
6SP60-16	3198.8	1123	2075.8	3"G	144	145

Deep Well Pumps

8SP77 Series

Performance Curves



Deep Well Pumps

8SP77 Series

■ Performance Table

Model (50Hz)	Motor Power		Rated Current (380V)	Flow Rate											
	HP	kW		A	m³/h	0	12	24	36	48	60	72	84	96	120
			l/min		0	200	400	600	800	1000	1200	1400	1600	2000	
8SP77-1*	7.5	5.5	13.6	Head (m)	21	20	19	17.5	16	15	14	12	10.5	4	
8SP77-2*	10	7.5	18		41	40	38	35	32	30	28	25	21	8	
8SP77-3*	15	11	25.8		61	60	57	52.5	48	45	42	37	31.5	12	
8SP77-4*	20	15	33.9		82	80	76	70	64	60	56	49	42	16	
8SP77-5*	25	18.5	41.6		102	100	95	87.5	80	75	70	61.5	52.5	20	
8SP77-6*	30	22	48.2		123	120	114	105	96	90	84	74	63	24	
8SP77-7*	35	26	54.5		143	140	133	122.5	112	105	98	86	73.5	28	
8SP77-8	40	30	65.4		164	160	152	140	128	120	112	98	84	32	
8SP77-9	40	30	65.4		184	175	164	151	141	131	121	106	85	33	
8SP77-10	50	37	79.7		205	198	188	174	160	149	139	123	105	40	
8SP77-11	60	45	96.9		225	220	209	192.5	176	165	154	135	115.5	44	
8SP77-12	60	45	96.9		246	240	228	210	182	180	168	148	126	48	
8SP77-13	75	55	117		266	260	247	227.5	198	195	182	160	136.5	52	
8SP77-14	75	55	117		287	280	266	245	224	210	196	172	147	56	
8SP77-15	75	55	117		307	300	285	262.5	240	225	210	185	158.5	60	
8SP77-16	85	63	132		328	320	304	280	256	240	224	197	169	64	
8SP77-17	85	63	132		348	340	323	297.5	272	255	238	209	179.5	68	
8SP77-18	100	75	155		369	360	342	315	288	270	252	221	190	72	
8SP77-19	100	75	155		389	380	361	332.5	304	285	266	234	200.5	76	
8SP77-20	100	75	155		410	400	380	350	320	300	280	246	211	80	

* Items marked with * are equipped with 6" motor.

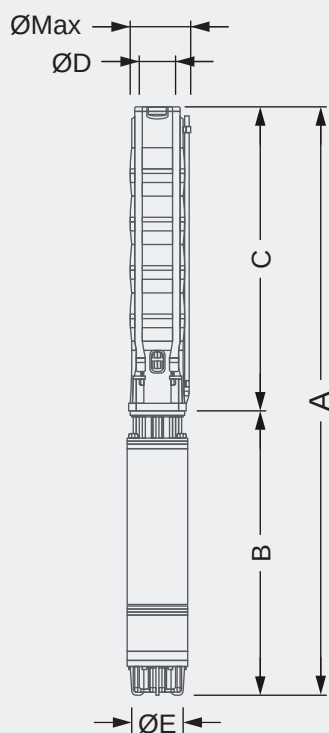
■ Materials

Part	Material
Shaft	SUS304 / SUS316
Check valve	SUS304 / SUS316
Coupling	SUS304 / SUS316
Pump body	SUS304 / SUS316
Impeller	SUS304 / SUS316
Diffuser	SUS304 / SUS316
Bearing	SUS304 / SUS316
Suction strainer	SUS304 / SUS316
Suction support	SUS304 / SUS316
Delivery body	SUS304 / SUS316
Cable cover	SUS304 / SUS316
Filter	SUS304 / SUS316
Bushing	AISI 420 / SUS304 / SUS316

Deep Well Pumps

8SP77 Series

■ Dimensions



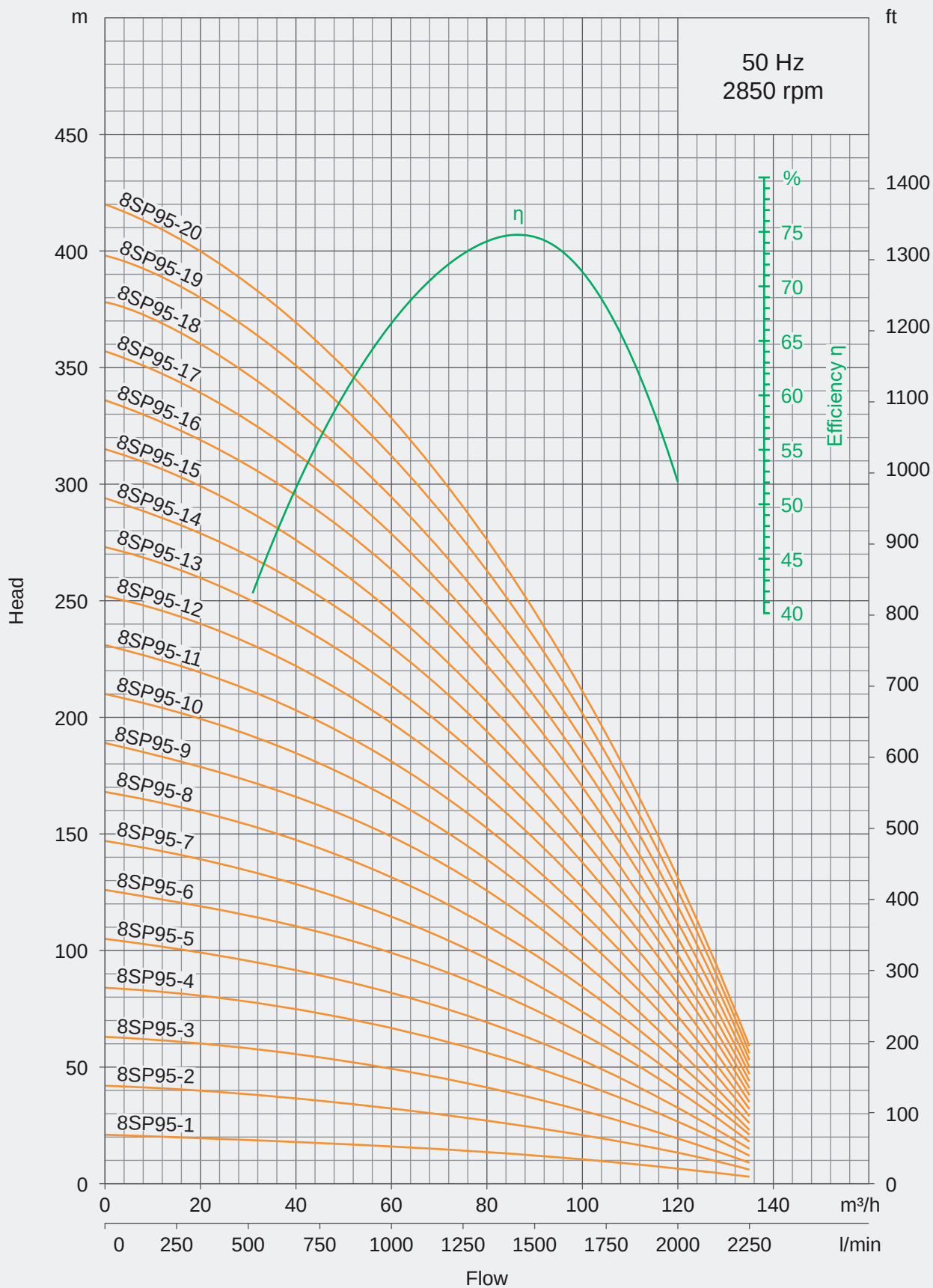
Model (50Hz)	A	B	C	ØD	ØE	ØMax
	mm	mm	mm	inch	mm	mm
8SP77-1*	1152	748	404	4"G	191	200
8SP77-2*	1291	783	508	4"G	191	200
8SP77-3*	1450	838	612	4"G	191	200
8SP77-4*	1639	923	716	4"G	191	200
8SP77-5*	1793	973	820	4"G	191	200
8SP77-6*	1947	1023	924	4"G	191	200
8SP77-7*	2096	1068	1028	4"G	191	200
8SP77-8	2306.4	1174.4	1132	4"G	191	200
8SP77-9	2410.4	1174.4	1236	4"G	191	200
8SP77-10	2559.4	1219.4	1340	4"G	191	200
8SP77-11	2718.4	1274.4	1444	4"G	191	200
8SP77-12	2822.4	1274.4	1548	4"G	191	200
8SP77-13	3061.4	1409.4	1652	4"G	191	200
8SP77-14	3165.4	1409.4	1756	4"G	191	200
8SP77-15	3269.4	1409.4	1860	4"G	191	200
8SP77-16	3433.4	1469.4	1964	4"G	191	200
8SP77-17	3537.4	1469.4	2068	4"G	191	200
8SP77-18	3711.4	1539.4	2172	4"G	191	200
8SP77-19	3815.4	1539.4	2276	4"G	191	200
8SP77-20	3919.4	1539.4	2380	4"G	191	200

* Items marked with * are equipped with 6" motor.

Deep Well Pumps

8SP95 Series

Performance Curves



Deep Well Pumps

8SP95 Series

■ Performance Table

Model (50Hz)	Motor Power		Rated Current (380V)	Flow Rate											
	HP	kW		A	m³/h	0	15	30	45	60	75	90	105	120	135
			l/min		0	250	500	750	1000	1250	1500	1750	2000	2250	
8SP95-1*	7.5	5.5	13.6	Head (m)	21	20	19	18	16	14	12.5	10	6	3	
8SP95-2*	12.5	9.2	21.7		42	41	39	36	33	28	25	20	13	6	
8SP95-3*	17.5	13	29.8		63	61	58	54	49	42	37.5	29	19	9	
8SP95-4*	25	18.5	41.6		84	82	78	72	66	56	50	39	26	12	
8SP95-5*	30	22	48.2		105	102	97	90	82	70	62.5	49	32	15	
8SP95-6*	35	26	54.5		126	122	116	108	99	84	75	59	38	18	
8SP95-7	40	30	65.4		147	143	136	126	115	98	87.5	68	45	21	
8SP95-8	50	37	79.7		168	163	155	142	132	114	100	78	51	23	
8SP95-9	50	37	79.7		189	183	174	160	149	121	112.5	88	57	26	
8SP95-10	60	45	96.9		210	204	194	178	165	139	125	98	64	29	
8SP95-11	60	45	96.9		231	224	213	196	181	154	137.5	107	70	32	
8SP95-12	75	55	117		252	245	232	214	198	168	150	117	77	35	
8SP95-13	75	55	117		273	265	251	232	214	182	162.5	127	83	38	
8SP95-14	85	63	132		294	285	270	250	231	196	175	137	89	41	
8SP95-15	85	63	132		315	306	289	268	247	210	187.5	146	96	44	
8SP95-16	100	75	155		336	326	308	286	264	224	200	156	102	47	
8SP95-17	100	75	155		357	346	327	304	280	238	212.5	166	108	50	
8SP95-18	125	93	185		378	367	346	322	297	252	225	176	115	53	
8SP95-19	125	93	185		398	387	365	340	313	266	237.5	185	121	56	
8SP95-20	125	93	185		420	408	384	358	330	280	250	195	128	59	

* Items marked with * are equipped with 6" motor.

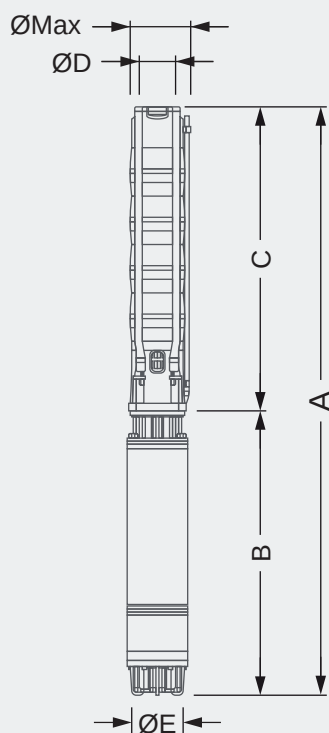
■ Materials

Part	Material
Shaft	SUS304 / SUS316
Check valve	SUS304 / SUS316
Coupling	SUS304 / SUS316
Pump body	SUS304 / SUS316
Impeller	SUS304 / SUS316
Diffuser	SUS304 / SUS316
Bearing	SUS304 / SUS316
Suction strainer	SUS304 / SUS316
Suction support	SUS304 / SUS316
Delivery body	SUS304 / SUS316
Cable cover	SUS304 / SUS316
Filter	SUS304 / SUS316
Bushing	AISI 420 / SUS304 / SUS316

Deep Well Pumps

8SP95 Series

■ Dimensions



Model (50Hz)	A	B	C	ØD	ØE	ØMax
	mm	mm	mm	inch	mm	mm
8SP95-1*	1162	748	414	4"G	191	200
8SP95-2*	1331	813	518	4"G	191	200
8SP95-3*	1490	868	622	4"G	191	200
8SP95-4*	1699	973	726	4"G	191	200
8SP95-5*	1853	1023	830	4"G	191	200
8SP95-6*	2002	1068	934	4"G	191	200
8SP95-7	2212.4	1174.4	1038	4"G	191	200
8SP95-8	2361.4	1219.4	1142	4"G	191	200
8SP95-9	2465.4	1219.4	1246	4"G	191	200
8SP95-10	2624.4	1274.4	1350	4"G	191	200
8SP95-11	2728.4	1274.4	1454	4"G	191	200
8SP95-12	2967.4	1409.4	1558	4"G	191	200
8SP95-13	3071.4	1409.4	1662	4"G	191	200
8SP95-14	3235.4	1469.4	1766	4"G	191	200
8SP95-15	3339.4	1469.4	1870	4"G	191	200
8SP95-16	3513.4	1539.4	1974	4"G	191	200
8SP95-17	3617.4	1539.4	2078	4"G	191	200
8SP95-18	3811.4	1629.4	2182	4"G	191	200
8SP95-19	3915.4	1629.4	2286	4"G	191	200
8SP95-20	4019.4	1629.4	2390	4"G	191	200

* Items marked with * are equipped with 6" motor.

SUZUKA



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Information are subject to change without notice.

Photos are for reference only.

Please contact us for more information.

