



APEC-SUN

Submersible Pump

SB-Series

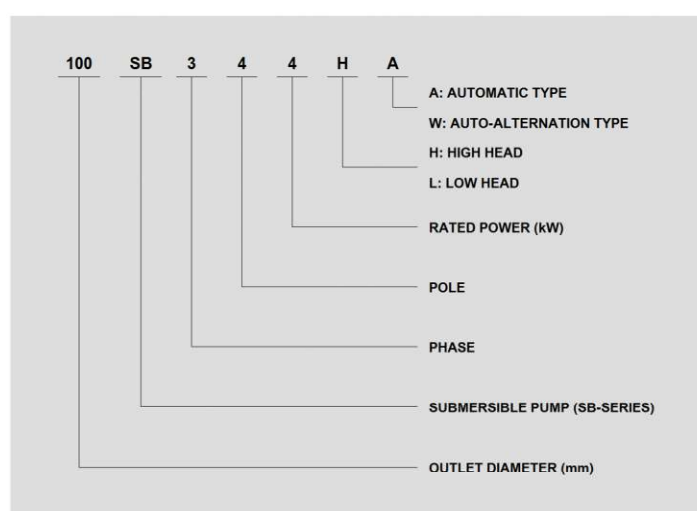


The SP-Series, the basic sewage pumps with channel impeller that minimize clogging, winding, and other foreign matter-related trouble. Years of know-how are built into very part of the pumps for highly reliable operation.

APPLICATIONS:

- Sewage pump stations.
- Waste water treatments.
- Septic systems.
- Campgrounds.
- Basements.
- Construction drainage.
- Other applications requiring sewage water removal.

TYPE DESCRIPTION:



AUTOMATIC

The automatic model has an integral control circuit and two float switches that operate at a low voltage. It operates automatically in response to the change in water levels. As it has a Circle Thermal Protector (CTP) integrated into the motor to protect the motor from overload or overheating, it is not required to provide an extra motor protection circuit in the starter panel.

AUTO-ALTERNATION

The auto-alternation model is used along with an automatic model. The combinational use of these two pumps enables each pump to operate alternately without control panel.

DRY PIT

The advantage of dry pit is that it will not be damaged by flooding, as it is constructed with a submersible pump.

GUIDE RAIL

The guide rail fitting system connects the pump to and from the piping easily just by lowering and hoisting the pump, allowing easy maintenance and inspection without the need to enter the sump. This system is made of cast iron and is compatible with cast iron pumps.

FEATURES:

MOTOR

The motor is dry-type, squirrel-cage induction motor, housed in a watertight housing. The insulation class is B, E or F. In each of these insulation class, all the standard pumps can be used under the ambient temperature of 40°C.

MOTOR PROTECTOR

Each pump up to 7.5kW as standard has a built in auto-cut, self-resetting Circle Thermal Protector (CTP). Integrated in the motor housing, the CTP directly cuts the motor circuit if excessive heat builds up or an overcurrent caused by an electrical or mechanical failure occurs.

Miniature Thermal Protectors (MTPs) are imbedded in the winding of the pumps of star-delta starting. These MTPs are connected in series, and their wires are led out of the motor. Should the winding temperature rise to the actuating temperature, the bimetal strip opens to cause the control panel to shut the power supply.

IMPELLER

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



MECHANICAL SEAL

All pumps are provided with a Silicon Carbide dual inside mechanical seal that is located completely out of the pumpage, running in an oil-filled chamber. The advantages of this seal are twofold, it eliminates spring failure caused by corrosion, abrasion or fouling which prevents the seal faces from closing properly, and prevents loss of cooling to the bottom seal faces during run-dry conditions which causes the bottom seal to fail.

SHAFT

A high tensile stainless steel is used for all pumps. It is designed to have an adequate strength for the transmission of the full load.

LEAKAGE SENSOR

A stainless steel probe type leak sensor is standardized for large pumps (22kW and over).

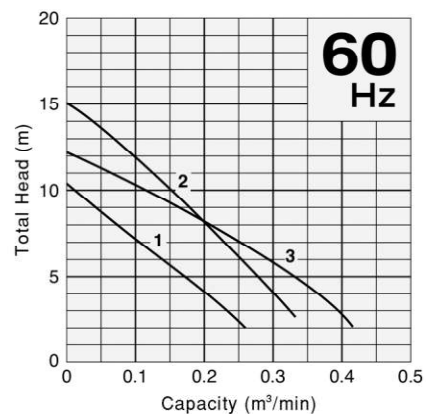
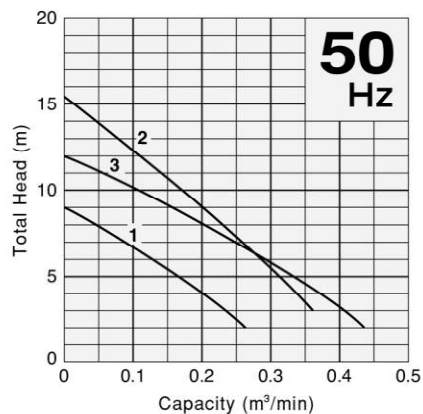
CABLE ENTRY

Every cable has an anti-wicking block at the cable entry section of the pump. This mechanism is such that a part of each conductor is stripped back and the part is sealed by molded rubber or epoxy potting which has flowed in between each strand of the conductor. This unique feature prevents wicking along the strands of the conductor itself.

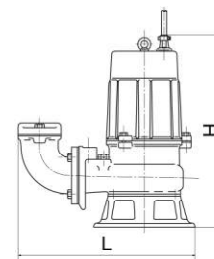
OIL LIFTER (PATENTED)

The Oil Lifter is a lubrication equipment for the mechanical seal, designed to stabilize the function of the seal. Utilizing the rotational energy of the shaft seal, it supplies lubricant reduces below the rated volume. The Oil Lifter turns the wasted energy into added protection and doubles the life expectancy of the mechanical seal and also the maintenance term.

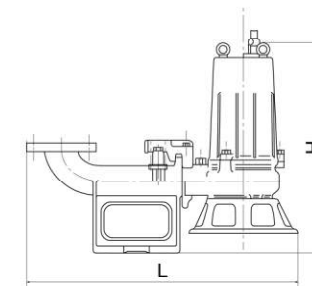
SPECIFICATIONS & DIMENSIONS:



Free Standing



Guide Rail Fitting



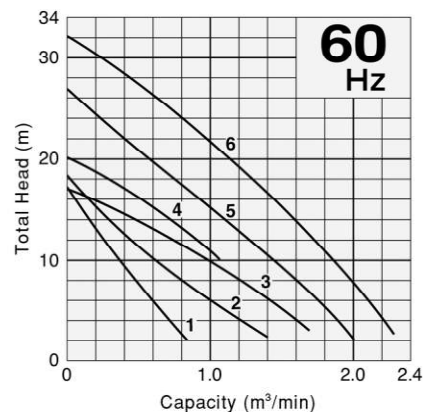
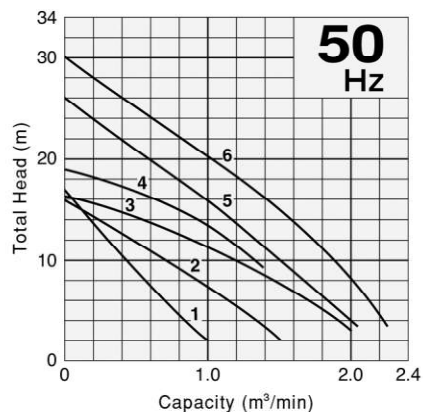
CURVE NO.	STANDARD		AUTOMATIC		AUTO-ALTERNATION		POWER (kW)	DIA (mm)	PHASE	REVOLUTION 50Hz / 60Hz (min ⁻¹)	STARTING METHOD	IMPELLER PASSAGE (mm)	CABLE LENGTH (m)	CABLE CODE
	FREE STANDING	GUIDE RAIL FITTING	FREE STANDING	GUIDE RAIL FITTING	FREE STANDING	GUIDE RAIL FITTING								
1	50SB12.4	AT50					0.4	50	1	3000 / 3600	CAPACITOR	35X22 / 35X18	5	a
1	50SB32.4	AT50					0.4	50	3	3000 / 3600	D.O.L.	35x22 / 35x18	6	A
2	50SB12.75	AT50	50SB12.75A	AT50			0.75	50	1	3000 / 3600	CAPACITOR	21x25	5	a(b ^{*1})
2	50SB32.75H	AT50	50SB32.75HA	AT50	50SB32.75HW	AT50	0.75	50	3	3000 / 3600	D.O.L.	21x25	6	A
3	50SB32.75	AT50	50SB32.75A	AT50	50SB32.75W	AT50	0.75	50	3	3000 / 3600	D.O.L.	45x20 / 51x23	6	A

(*1) 100 - 120V.

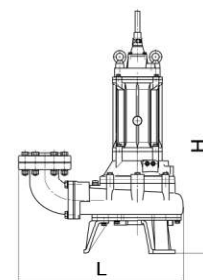
CURVE NO.	DIMENSION L x H (mm)				DRY WEIGHT (kg)			
	STANDARD		AUTO & AUTO-ALTERNATION		STANDARD		AUTO & AUTO-ALTERNATION	
	FREE STANDING	GUIDE RAIL FITTING	FREE STANDING	GUIDE RAIL FITTING	FREE STANDING	GUIDE RAIL FITTING	FREE STANDING	GUIDE RAIL FITTING
1	350 x 453	556 x 511			25	24		
1	340 x 420	556 x 477			23	22		
2	405 x 523	621 x 566	405 x 580	621 x 623	32	30	34	32
2	405 x 415	621 x 458	433 x 496	623 x 539	24	23	25	24
3	405 x 439	621 x 479	433 x 520	623 x 560	25	24	26	25

* Weights without cable and duckfoot bend.

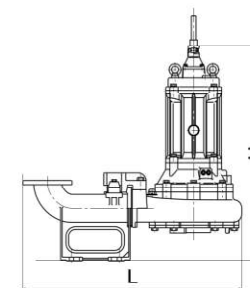
SPECIFICATIONS & DIMENSIONS:



Free Standing



Guide Rail Fitting



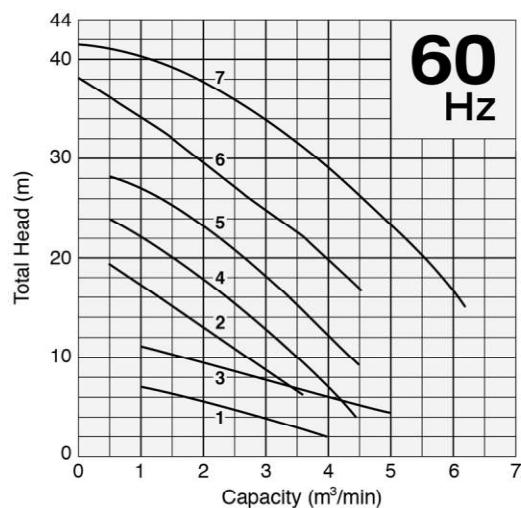
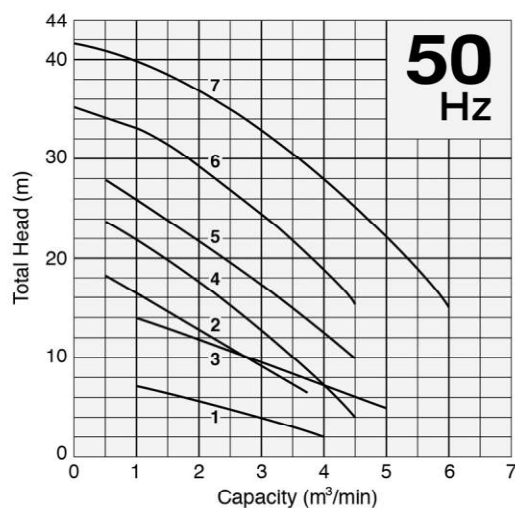
CURVE NO.	STANDARD		AUTOMATIC		AUTO-ALTERNATION		POWER (kW)	DIA (mm)	PHASE	REVOLUTION 50Hz / 60Hz (min ⁻¹)	STARTING METHOD	IMPELLER PASSAGE (mm)	CABLE LENGTH (m)	CABLE CODE
	FREE STANDING	GUIDE RAIL FITTING	FREE STANDING	GUIDE RAIL FITTING	FREE STANDING	GUIDE RAIL FITTING								
1	80SB321.5	AT80	80SB321.5A	AT80	80SB321.5W	AT80	1.5	80	3	3000 / 3600	D.O.L	49x41 / 49x35	6	A
2	100SB342.2	AT100	100SB342.2A	AT100	100SB342.2W	AT100	2.2	100	3	1500 / 1800	D.O.L	47x53 / 47x46	6	A(B ⁻²)
3	100SB343.7	AT100	100SB343.7A	AT100	100SB343.7W	AT100	3.7	100	3	1500 / 1800	D.O.L	81x53 / 81x47	6	B(C ⁻²)
4	100SB343.7H	AT100					3.7	100	3	1500 / 1800	D.O.L	35x62 / 35x55	6	B(C ⁻²)
5	100SB345.5	AT100					5.5	100	3	1500 / 1800	D.O.L	40x51 / 40x43	8	D
6	100SB347.5	AT100					7.5	100	3	1500 / 1800	D.O.L	40x61 / 40x54	8	E

(*2) 200 - 240V

CURVE NO.	DIMENSION L x H (mm)				DRY WEIGHT (kg)			
	STANDARD		AUTO & AUTO-ALTERNATION		STANDARD		AUTO & AUTO-ALTERNATION	
	FREE STANDING	GUIDE RAIL FITTING	FREE STANDING	GUIDE RAIL FITTING	FREE STANDING	GUIDE RAIL FITTING	FREE STANDING	GUIDE RAIL FITTING
1	446 x 536	668 x 586	485 x 630	707 x 680	36	34	40	38
2	596 x 642	754 x 656	602 x 733	760 x 748	68	64	78	74
3	602 x 716	760 x 725	602 x 863	760 x 873	84	80	94	90
4	603 x 692	761 x 706			82	78		
5	687 x 908	905 x 906			147	140		
6	687 x 929	905 x 927			169	162		

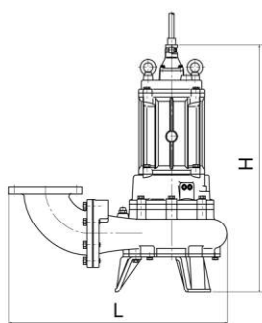
* Weights without cable and duckfoot bend.

SPECIFICATIONS & DIMENSIONS:

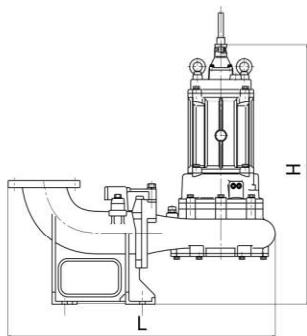


CURVE NO.	STANDARD		POWER (kW)	DIA (mm)	PHASE	REVOLUTION 50Hz / 60Hz (min ⁻¹)	STARTING METHOD	IMPELLER PASSAGE (mm)	CABLE LENGTH (m)	CABLE CODE
	FREE STANDING	GUIDE RAIL FITTING								
1	150SB363.7	AT150	3.7	150	3	1000 / 1200	D.O.L.	70 / 55	6	D
2	150SB347.5H	AT150	7.5	150	3	1500 / 1800	D.O.L.	75 / 70	8	E
3	150SB347.5L	AT150	7.5	150	3	1500 / 1800	D.O.L.	60 / 50	8	E
4	150SB3411	AT150	11	150	3	1500 / 1800	STAR-DELTA	75	8	F
5	150SB3415	AT150	15	150	3	1500 / 1800	STAR-DELTA	75	8	G
6	150SB3422	AT150	22	150	3	1500 / 1800	STAR-DELTA	75	10	P
7	150SB3437	AT150	37	150	3	1500 / 1800	STAR-DELTA	40x72 / 40x50	10	Q

Free Standing



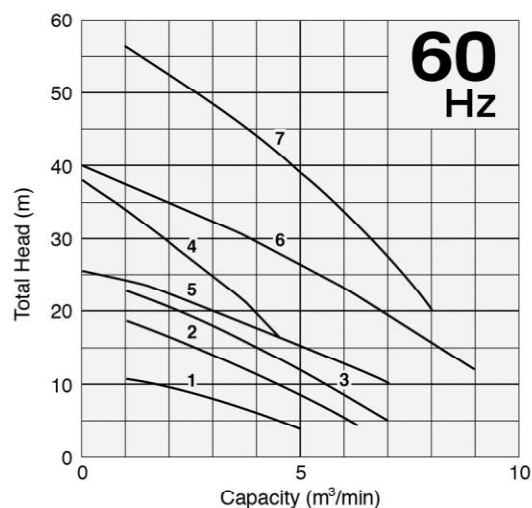
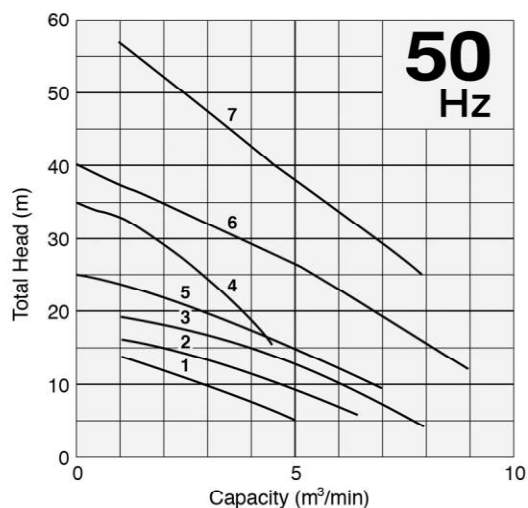
Guide Rail Fitting



CURVE NO.	DIMENSION L x H (mm)		DRY WEIGHT (kg)	
	STANDARD		STANDARD	
	FREE STANDING	GUIDE RAIL FITTING	FREE STANDING	GUIDE RAIL FITTING
1	838 x 903	1023 x 926	188	158
2	834 x 952	1028 x 976	210	180
3	871 x 1085	1065 x 1030	200	175
4	895 x 1098	1089 x 1052	250	220
5	895 x 1168	1089 x 1122	270	240
6	898 x 1222	1092 x 1181	327	298
7	1085 x 1548	1306 x 1380	640	540

* Weights without cable and duckfoot bond.

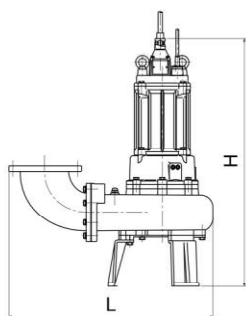
SPECIFICATIONS & DIMENSIONS:



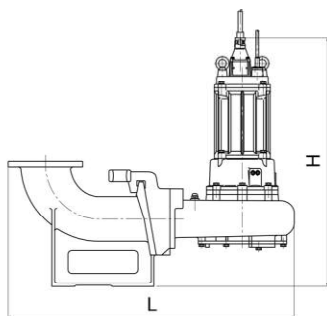
CURVE NO.	STANDARD		POWER (kW)	DIA (mm)	PHASE	REVOLUTION 50Hz / 60Hz (min ⁻¹)	STARTING METHOD	IMPELLER PASSAGE (mm)	CABLE LENGTH (m)	CABLE CODE
	FREE STANDING	GUIDE RAIL FITTING								
1	200SB347.5	AT200	7.5	200	3	1500 / 1800	D.O.L.	80x60 / 100x50	8	E
2	200SB3411	AT200	11	200	3	1500 / 1800	STAR-DELTA	68x60 / 65x58	8	F
3	200SB3415	AT200	15	200	3	1500 / 1800	STAR-DELTA	70x60 / 69x60	8	G
4	200SB3422H	AT200	22	200	3	1500 / 1800	STAR-DELTA	75	10	P
5	200SB3422	AT200	22	200	3	1500 / 1800	STAR-DELTA	75	10	P
6	200SB3437	AT200	37	200	3	1500 / 1800	STAR-DELTA	40x77	10	J(Q ²)
7	200SB3455	AT200	55	200	3	1500 / 1800	STAR-DELTA	40x110 / 45x90	10	K

(*2) 200 - 240V

Free Standing



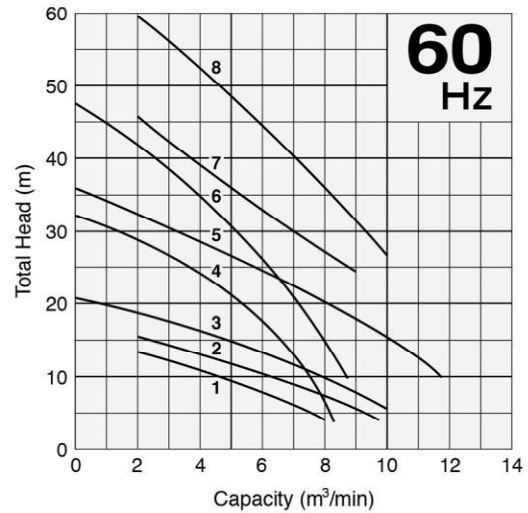
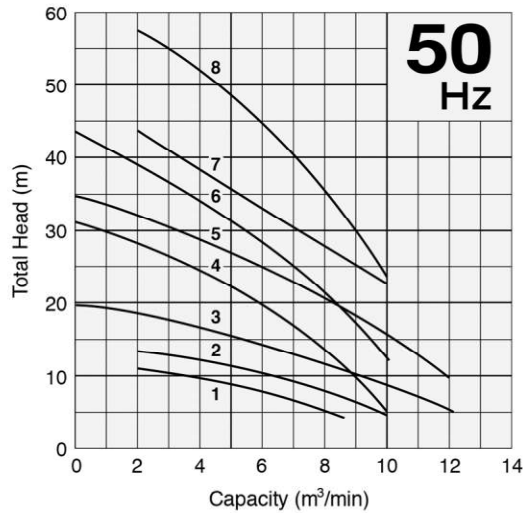
Guide Rail Fitting



CURVE NO.	DIMENSION L x H (mm)		DRY WEIGHT (kg)	
	STANDARD		STANDARD	
	FREE STANDING	GUIDE RAIL FITTING	FREE STANDING	GUIDE RAIL FITTING
1	926 x 1085	1265 x 1050	207	212
2	926 x 1131	1263 x 1096	258	263
3	971 x 1196	1234 x 1161	300	285
4	953 x 1222	1117 x 1181	332	298
5	953 x 1222	1117 x 1181	323	289
6	1190 x 1571	1428 x 1458	670	565
7	1188 x 1698	1497 x 1612	1060	1020

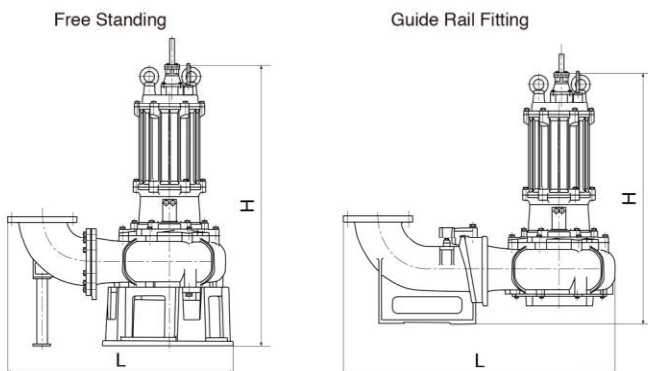
* Weights without cable and duckfoot bond.

SPECIFICATIONS & DIMENSIONS:



CURVE NO.	STANDARD		POWER (kW)	DIA (mm)	PHASE	REVOLUTION 50Hz / 60Hz (min ⁻¹)	STARTING METHOD	IMPELLER PASSAGE (mm)	CABLE LENGTH (m)	CABLE CODE
	FREE STANDING	GUIDE RAIL FITTING								
1	250SB3611	AT250	11	250	3	1000 / 1200	STAR-DELTA	80x68 / 80x58	8	M(N ²)
2	250SB3415	AT250	15	250	3	1500 / 1800	STAR-DELTA	73x64	8	G
3	250SB3622	AT250	22	250	3	1000 / 1200	STAR-DELTA	90x90 / 96x76	10	J
4	250SB3430	AT250	30	250	3	1500 / 1800	STAR-DELTA	75x80 / 76x76	10	J
5	250SB3437	AT250	37	250	3	1500 / 1800	STAR-DELTA	63x80 / 65x76	10	Q
6	250SB3445	AT250	45	250	3	1500 / 1800	STAR-DELTA	45x70 / 45x68	10	J
7	250SB3455	AT250	55	250	3	1500 / 1800	STAR-DELTA	45x70 / 45x68	10	K
8	250SB3475	AT250	75	250	3	1500 / 1800	STAR-DELTA	35x75 / 35x78	10	K

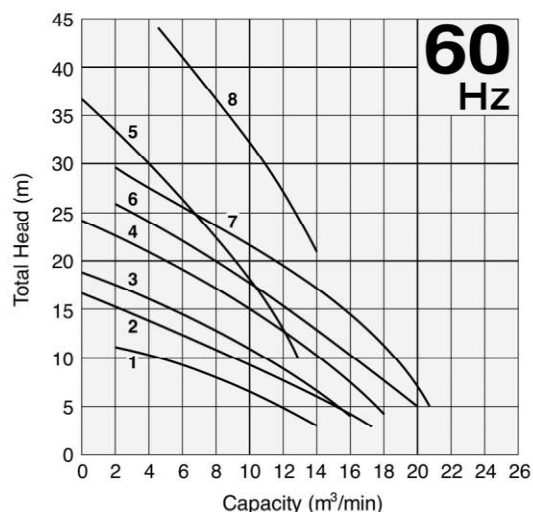
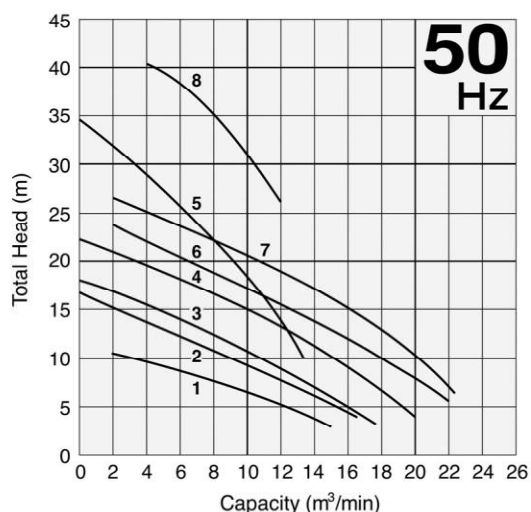
(*2) 200 - 240V



CURVE NO.	DIMENSION L x H (mm)		DRY WEIGHT (kg)	
	STANDARD		STANDARD	
	FREE STANDING	GUIDE RAIL FITTING	FREE STANDING	GUIDE RAIL FITTING
1	1203 x 1211	1513 x 1165	430	390
2	1146 x 1228	1451 x 1194	420	380
3	1313 x 1565	1586 x 1504	665	560
4	1295 x 1512	1566 x 1445	645	525
5	1295 x 1575	1566 x 1508	725	600
6	1313 x 1537	1578 x 1478	695	595
7	1293 x 1698	1586 x 1635	1100	1040
8	1293 x 1698	1586 x 1635	1150	1090

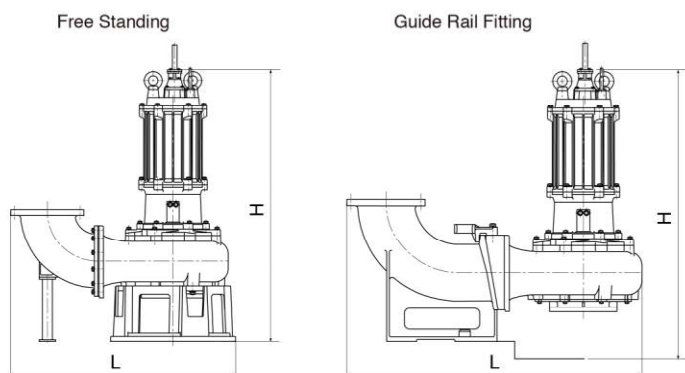
* Weights without cable and duckfoot bond.

SPECIFICATIONS & DIMENSIONS:



CURVE NO.	STANDARD		POWER (kW)	DIA (mm)	PHASE	REVOLUTION 50Hz / 60Hz (min ⁻¹)	STARTING METHOD	IMPELLER PASSAGE (mm)	CABLE LENGTH (m)	CABLE CODE
	FREE STANDING	GUIDE RAIL FITTING								
1	300SB3615	AT300	15	300	3	1000 / 1200	STAR-DELTA	140x90 / 140x60	8	N(O ²)
2	300SB3622	AT300	22	300	3	1000 / 1200	STAR-DELTA	140x76 / 127x76	10	J
3	300SB3630	AT300	30	300	3	1000 / 1200	STAR-DELTA	130x115 / 140x76	10	Q
4	300SB3637	AT300	37	300	3	1000 / 1200	STAR-DELTA	140x100 / 140x65	10	Q
5	300SB3445	AT300	45	300	3	1500 / 1800	STAR-DELTA	60x90 / 70x76	10	J
6	300SB3645	AT300	45	300	3	1000 / 1200	STAR-DELTA	130x85 / 134x76	10	K
7	300SB3655	AT300	55	300	3	1000 / 1200	STAR-DELTA	105x90 / 110x90	10	K
8	300SB3475	AT300	75	300	3	1500 / 1800	STAR-DELTA	60x80 / 65x90	10	K

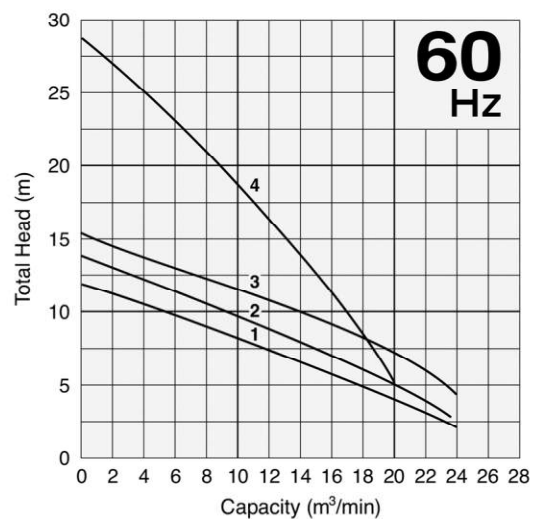
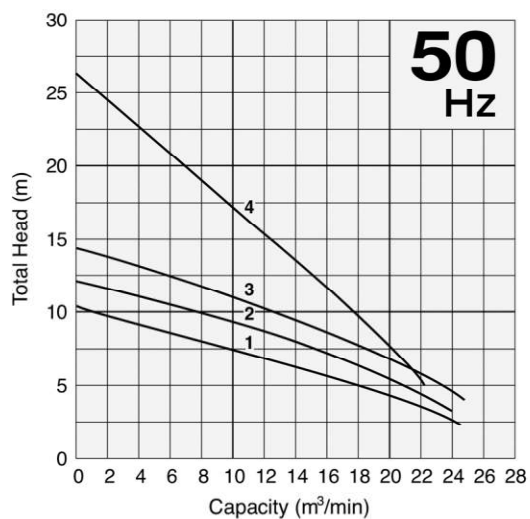
(*2) 200 - 240V



CURVE NO.	DIMENSION L x H (mm)		DRY WEIGHT (kg)	
	STANDARD		STANDARD	
	FREE STANDING	GUIDE RAIL FITTING	FREE STANDING	GUIDE RAIL FITTING
1	1302 x 1314	1666 x 1274	550	520
2	1366 x 1574	1685 x 1577	720	615
3	1366 x 1637	1685 x 1640	765	635
4	1366 x 1644	1685 x 1647	785	660
5	1348 x 1586	1667 x 1567	785	655
6	1414 x 1788	1778 x 1721	1300	1230
7	1414 x 1833	1778 x 1766	1550	1500
8	1436 x 1698	1795 x 1663	1150	1100

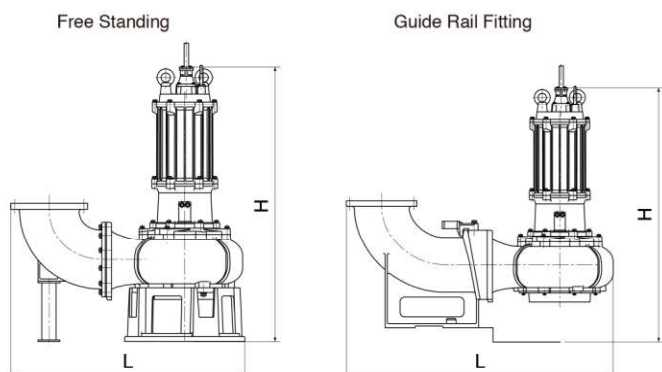
* Weights without cable and duckfoot bond.

SPECIFICATIONS & DIMENSIONS:



CURVE NO.	STANDARD		POWER (kW)	DIA (mm)	PHASE	REVOLUTION 50Hz / 60Hz (min ⁻¹)	STARTING METHOD	IMPELLER PASSAGE (mm)	CABLE LENGTH (m)	CABLE CODE
	FREE STANDING	GUIDE RAIL FITTING								
1	350SB3822	AT350	22	350	3	750 / 900	STAR-DELTA	156x100 / 160x90	10	J
2	350SB3630	AT350	30	350	3	1000 / 1200	STAR-DELTA	190x95 / 200x70	10	J(Q ²)
3	350SB3637	AT350	37	350	3	1000 / 1200	STAR-DELTA	190x130 / 200x100	10	J(Q ²)
4	350SB3645	AT350	45	350	3	1000 / 1200	STAR-DELTA	130x90 / 140x78	10	J

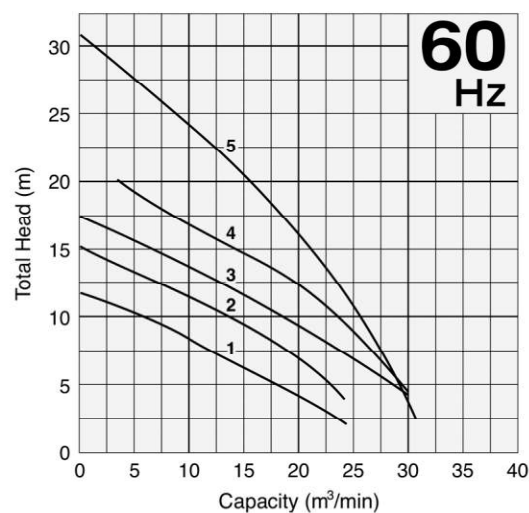
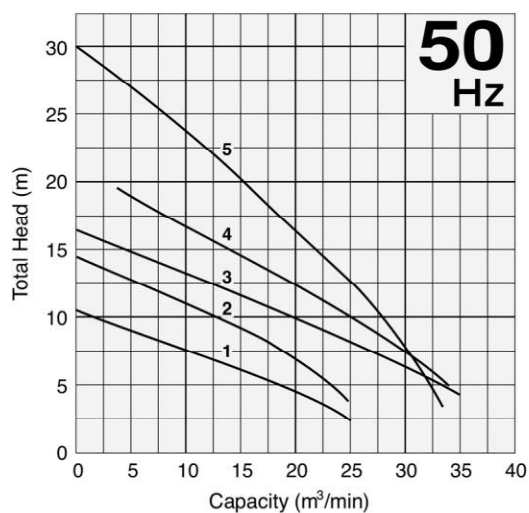
(*2) 200 - 240V



CURVE NO.	DIMENSION L x H (mm)		DRY WEIGHT (kg)	
	STANDARD		STANDARD	
	FREE STANDING	GUIDE RAIL FITTING	FREE STANDING	GUIDE RAIL FITTING
1	1488 x 1677	1845 x 1692	910	760
2	1488 x 1677	1845 x 1692	870	720
3	1488 x 1684	1845 x 1699	905	750
4	1508 x 1788	1845 x 1811	1316	1161

* Weights without cable and duckfoot bond.

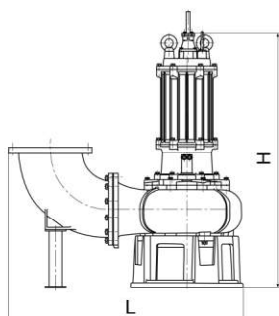
SPECIFICATIONS & DIMENSIONS:



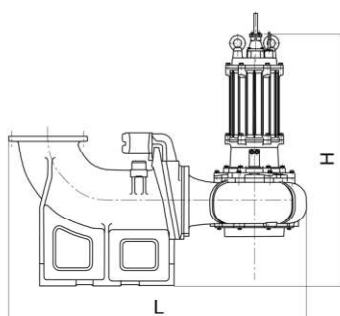
CURVE NO.	STANDARD		POWER (kW)	DIA (mm)	PHASE	REVOLUTION 50Hz / 60Hz (min ⁻¹)	STARTING METHOD	IMPELLER PASSAGE (mm)	CABLE LENGTH (m)	CABLE CODE
	FREE STANDING	GUIDE RAIL FITTING								
1	400SB3822	AT400	22	400	3	750 / 900	STAR-DELTA	156x109 / 160x90	10	J
2	400SB3637	AT400	37	400	3	1000 / 1200	STAR-DELTA	190x130 / 200x100	10	J(Q ²)
3	400SB3645	AT400	45	400	3	1000 / 1200	STAR-DELTA	175x128 / 175x100	10	J
4	400SB3655	AT400	55	400	3	1000 / 1200	STAR-DELTA	145x110 / 175x100	10	K
5	400SB3675	AT400	75	400	3	1000 / 1200	STAR-DELTA	130x100 / 140x90	10	K

(*2) 200 - 240V

Free Standing



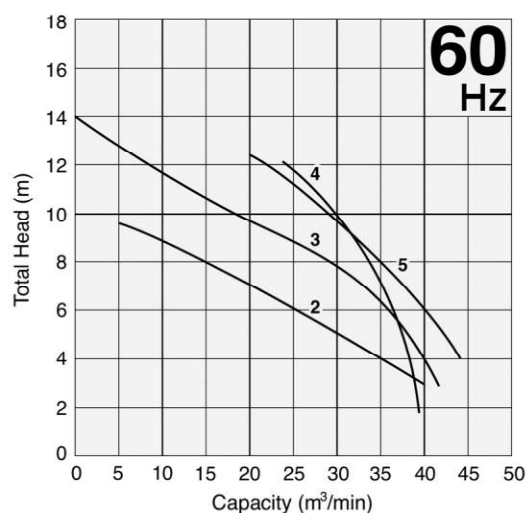
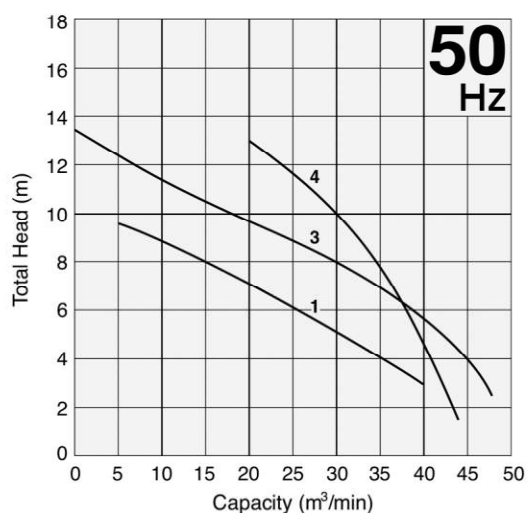
Guide Rail Fitting



CURVE NO.	DIMENSION L x H (mm)		DRY WEIGHT (kg)	
	STANDARD		STANDARD	
	FREE STANDING	GUIDE RAIL FITTING	FREE STANDING	GUIDE RAIL FITTING
1	1583 x 1677	2122 x 1752	930	865
2	1583 x 1684	2122 x 1759	925	855
3	1633 x 1792	2130 x 1920	1416	1346
4	1621 x 1878	2141 x 1956	1750	1700
5	1616 x 1878	2136 x 1956	1850	1800

* Weights without cable and duckfoot bend.

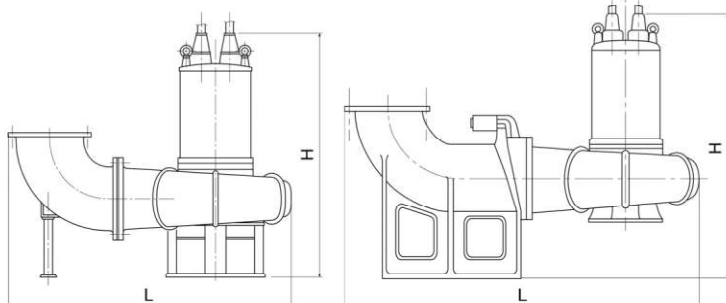
SPECIFICATIONS & DIMENSIONS:



CURVE NO.	STANDARD		POWER (kW)	DIA (mm)	PHASE	REVOLUTION 50Hz / 60Hz (min ⁻¹)	STARTING METHOD	IMPELLER PASSAGE (mm)	CABLE LENGTH (m)	CABLE CODE
	FREE STANDING	GUIDE RAIL FITTING								
1	500SB31037	AT500	37	500	3	600 / -	STAR-DELTA	225 x 100	10	K
2	500SB31237	AT500	37	500	3	- / 600	STAR-DELTA	225 x 100	10	K
3	500SB3855	AT500	55	500	3	750 / 900	STAR-DELTA	175x140 / 175x80	10	K
4	500SB3675	AT500	75	500	3	1000 / 1200	STAR-DELTA	130x120 / 130x100	10	K
5	500SB3875	AT500	75	500	3	- / 900	STAR-DELTA	190x80	10	K

Free Standing

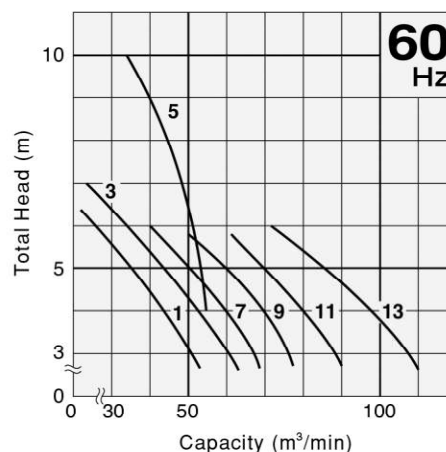
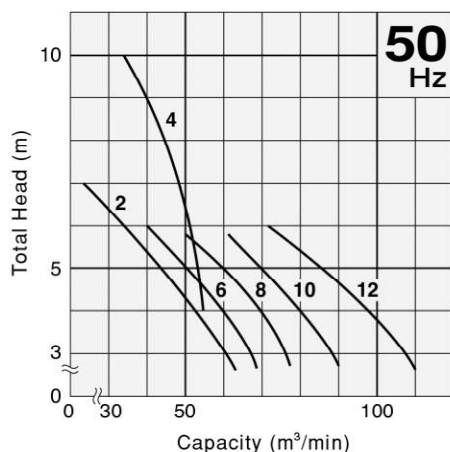
Guide Rail Fitting



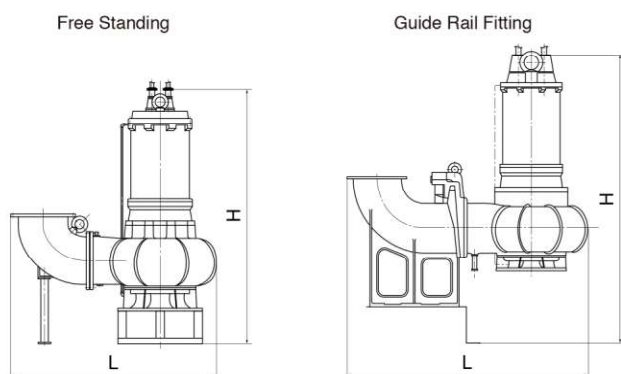
CURVE NO.	DIMENSION L x H (mm)		DRY WEIGHT (kg)	
	STANDARD		STANDARD	
	FREE STANDING	GUIDE RAIL FITTING	FREE STANDING	GUIDE RAIL FITTING
1	2073 x 2081	2622 x 2183	2050	1950
2	2073 x 2081	2622 x 2183	2050	1950
3	2111 x 2077	2660 x 2225	2150	2050
4	2263 x 1987	2812 x 2152	2150	2050
5	2150 x 2694	2700 x 2644	2550	2450

* Weights without cable and duckfoot bend.

SPECIFICATIONS & DIMENSIONS:



CURVE NO.	STANDARD		POWER (kW)	DIA (mm)	PHASE	REVOLUTION 50Hz / 60Hz (min ⁻¹)	STARTING METHOD	IMPELLER PASSAGE (mm)	CABLE LENGTH (m)	CABLE CODE
	FREE STANDING	GUIDE RAIL FITTING								
1	600SB31845	AT600	45	600	3	- / 400	STAR-DELTA	280x90	10	K
2	600SB31255	AT600	55	600	3	500 / -	STAR-DELTA	220x100	10	K
3	600SB31455	AT600	55	600	3	- / 514	STAR-DELTA	220x100	10	K
4	600SB31085	AT600	85	600	3	600 / -	STAR-DELTA	210x85	10	K
5	600SB31285	AT600	85	600	3	- / 600	STAR-DELTA	210x85	10	K
6	700SB31265	AT700	65	700	3	500 / -	STAR-DELTA	300x85	10	K
7	700SB31465	AT700	65	700	3	- / 514	STAR-DELTA	300x85	10	K
8	700SB31275	AT700	75	700	3	500 / -	STAR-DELTA	300x85	10	K
9	700SB31475	AT700	75	700	3	- / 514	STAR-DELTA	300x85	10	K
10	800SB31290	AT800	90	800	3	500 / -	STAR-DELTA	300x90	10	L
11	800SB31490	AT800	90	800	3	- / 514	STAR-DELTA	300x90	10	L
12	800SB314110	AT800	110	800	3	428 / -	STAR-DELTA	310x90	10	L
13	800SB316110	AT800	110	800	3	- / 450	STAR-DELTA	310x90	10	L



CURVE NO.	DIMENSION L x H (mm)		DRY WEIGHT (kg)	
	STANDARD		STANDARD	
	FREE STANDING	GUIDE RAIL FITTING	FREE STANDING	GUIDE RAIL FITTING
1	2522 x 3100	3062 x 3100	5000	5200
2	2522 x 3100	3062 x 3100	3150	3350
3	2522 x 3100	3062 x 3100	3150	3350
4	2468 x 3100	3008 x 3100	3100	3300
5	2468 x 3100	3008 x 3100	3100	3300
6	2840 x 3560	3440 x 3660	4000	4400
7	2840 x 3560	3440 x 3660	4000	4400
8	2840 x 3560	3440 x 3660	4200	4600
9	2840 x 3560	3440 x 3660	4200	4600
10	3053 x 3790	3623 x 3790	5600	5800
11	3053 x 3790	3623 x 3790	5600	5800
12	3053 x 3790	3623 x 3790	5800	6000
13	3053 x 3790	3623 x 3790	5800	6000

* Weights without cable and duckfoot bend.

CABTYRE CABLE:

Single-Phase

CODE	PIECES per UNIT	CORES x mm ²	DIA (mm)	MATERIAL
a	1	3 x 1.25	10.1	PVC
b	1	3 x 2	10.9	

Three-Phase

CODE	PIECES PER UNIT	CORES x mm ²	DIA (mm)	MATERIAL			
A	1	4 x 1.25	11.1	PVC			
B	1	4 x 2	11.8				
C	1	4 x 3.5	13.9				
D	1	4 x 3.5	14.1	Chloroprene Rubber			
E	1	4 x 5.5	16.8				
F	3	4 x 3.5	14.1				
		3 x 3.5	12.9				
		2 x 1.25	9.8				
G	3	4 x 5.5	16.8				
		3 x 5.5	15.2				
		2 x 1.25	9.8				
J	3	4 x 14	21.7	Chloroprene			
		3 x 14	19.7	Rubber			
		4 x 1.25	11.1	PVC			
K	2	3 x 38	35.8	Chloroprene Rubber			
		1 x 22					
		3 x 2					
		3 x 38	35.9				
L	2	3 x 60	45.7	Chloroprene Rubber			
		1 x 22					
		3 x 2					
		3 x 60	45.7				
M	1	7 x 3.5	21.3		Chloroprene Rubber		
		2 x 2					
N	1	7 x 5.5	24.4			Chloroprene Rubber	
		2 x 2					
O	1	7 x 8	25.6				Chloroprene Rubber
		2 x 2					
P	3	4 x 14	21.7	Chloroprene			
		3 x 14	19.7	Rubber			
		2 x 1.25	9.6	PVC			
Q	3	4 x 22	28.8	Chloroprene			
		3 x 22	26.1	Rubber			
		4 x 1.25	11.1	PVC			