

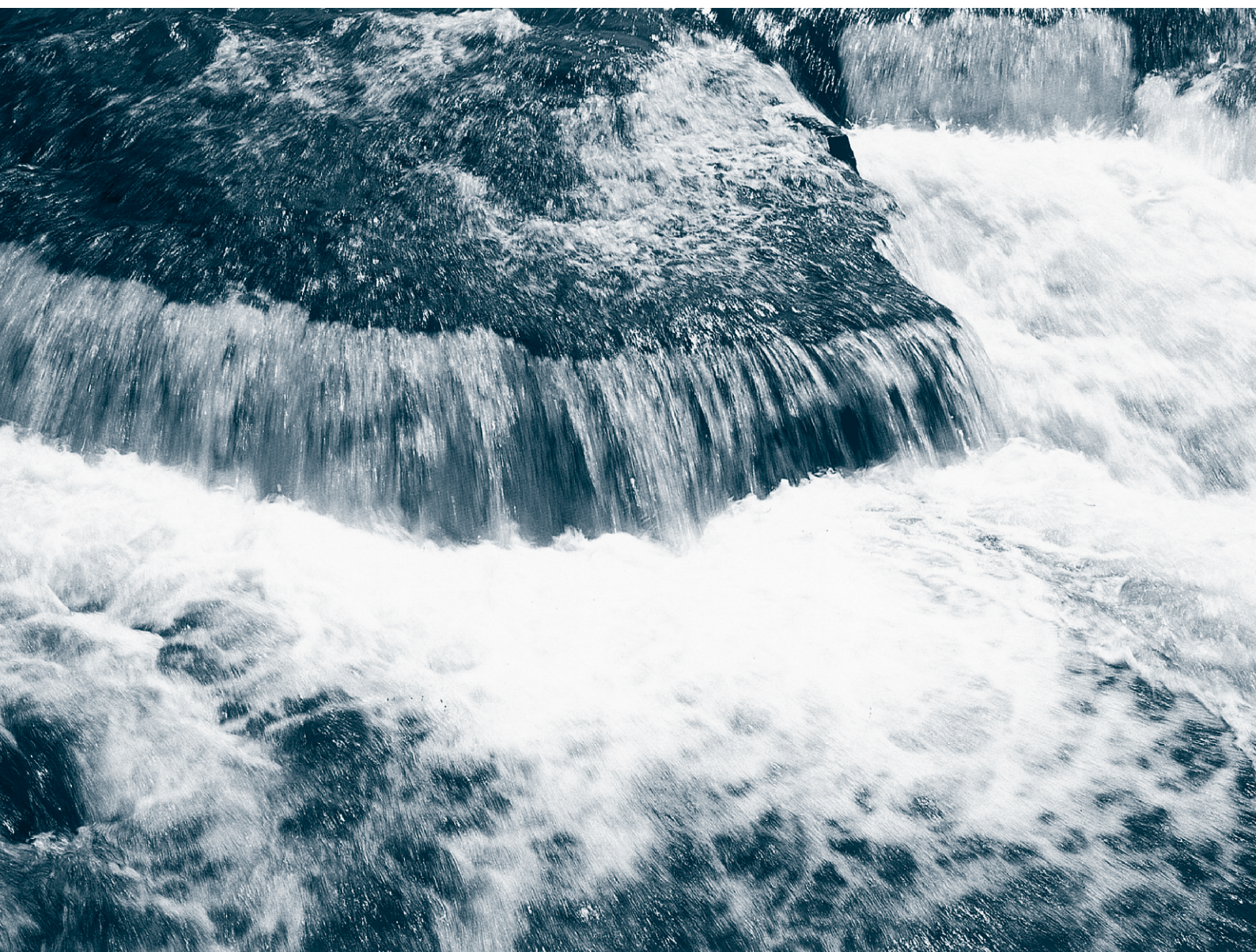
Volute pumps

SJ

TERAL



60Hz



TERAL INC.

Applications

- General water supply in buildings and apartments, etc
- Hot and cold water circulation
- Supply of industrial water
- Conveyance and distribution of tap water
- Water sprinkling and irrigation of paddies and fields

Features

- ① Energy-saving pump with a Top Runner efficiency (equivalent to IE3) motor.
- ② Compact and lightweight by adoption of a 2-pole motor.
- ③ Easy installation in a small space.
- ④ B.P.O.(back pull-out) structure for easy disassembly and maintenance.
- ⑤ Robust structure for piping load with stable installation because of upright discharge.

Description of types

SJ 32 × 32 L 6 1.5 - H - e

① ② ③ ④ ⑤ ⑥ ⑦

- ① Model
- ② Nominal suction diameter (32mm)
- ③ Nominal discharge diameter (32mm)
- ④ Frequency (60Hz)
- ⑤ Output (1.5kW)
- ⑥ Performance code None : Standard
H : According to customer specified point
- ⑦ Equipped with a Top Runner motor (equivalent to IE3)

Standard specifications

Pumping liquid	Liquid quality	Fresh water
	Liquid temperature	0 - 80°C
Total suction head (In case of 20°C)		-6m; -5m for 100×80
Allowable boost pressure		See the Specification table.
Structure	Impeller	Closed
	Shaft seal	Mechanical seal (SiC vs Carbon)
	Bearing	Sealed ball bearing
Material	Impeller	CAC406 (65×50M, 80×65M...FC200)
	Shaft	SUS403
	Casing	FC200 or FCD450*1
Motor	Efficiency	Top Runner efficiency (equivalent to IE3)
	Starting method	Direct-on-Line start : 7.5kW or less Star-delta start : 11kW or more
	Type	Totally enclosed fan-cooled outdoor type : 0.75kW Totally enclosed fan-cooled indoor type : 1.5kW or more
	Power source	3-phase, 200/220V
	Synchronous rotation speed	3600min ⁻¹
Flange spec		JIS 10K standard type
Paint color		7.5BG5/1.5

*1 The material differs according to the type.

Standard accessories

Motor	1
Common base	1
Priming plug	1
Coupling	1 set
Coupling cover	1



* Please note that some of the devices in the photo may differ from actual devices in coating color, etc.

Special specifications

Structure	Shaft seal	Mechanical seal (SiC vs SiC) Grand packing External water feeding ... In the case where foreign substances are contained in the liquid handled
	Other	Drain (below gland/below casing) Sealed coupling cover, No common base
Material	Impeller	CAC406 (65×50M, 80×65M)
	Shaft	SUS304
Motor	Other	All steel made
	Type	Totally enclosed fan-cooled outdoor type (1.5kW or more)
Paint	Power supply	Voltage change
		Specified color for outer surface, salt-resistant paint, heavy-duty salt-resistant paint Japan Sewage Works Agency specifications

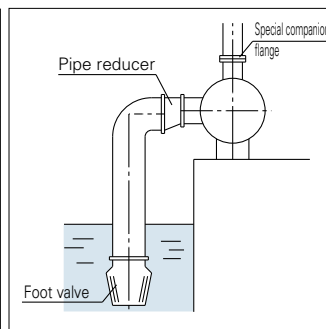
* Please note that in case of special specifications, the assembly drawing, etc., may differ from the standard drawing.

Special accessories

Foot valve
Suction cover
Sluice valve, Check valveBolt, nut, and packing included
Companion flangeBolt, nut, and packing included
Special companion flange (when adjusting the discharge diameter to the suction diameter)Bolt and nut included
Tube with different diameter.....See the figure below
Vibration isolator
Pressure gauge, vacuum gauge, compound gaugeCock and pipe included
Vibration isolation joint

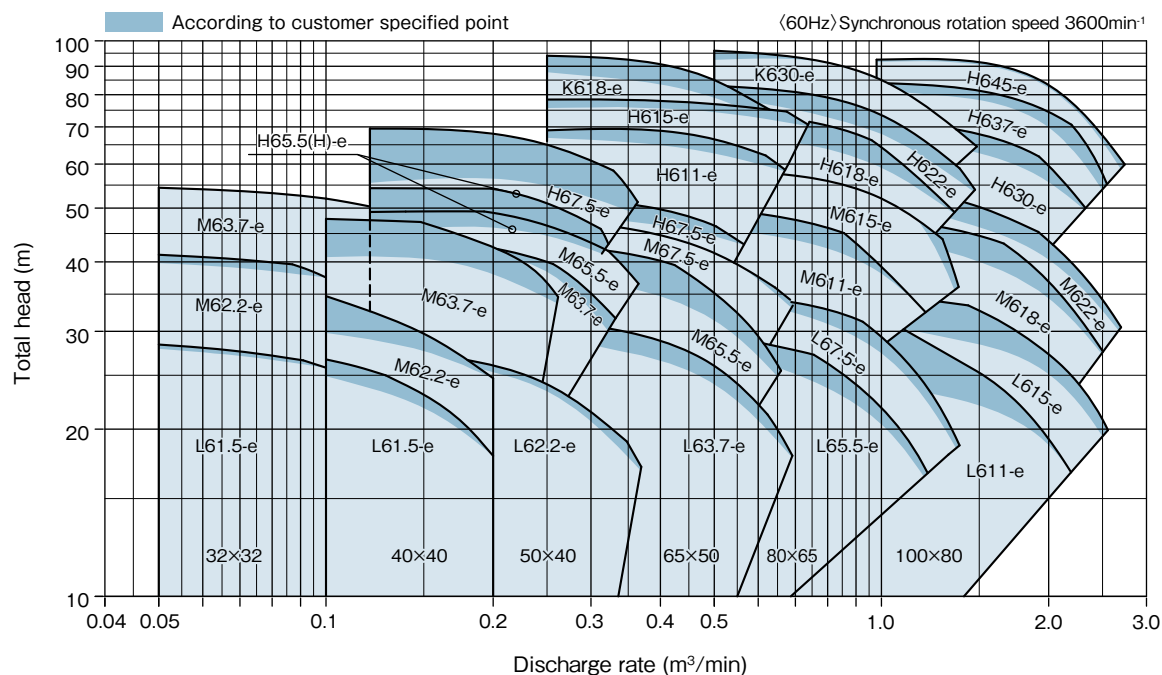
Foot valve, pipe reducer, special companion flange application table

Nominal diameter mm	Foot valve nominal diameter mm	Pipe reducer	Special companion flange
Suction s	Discharge d		
32	32	32	—
40	40	40	—
50	40	50	40/50
65	50	65	50/65
80	65	100	80/100
100	80	125	100/125



* Special companion flange is used to adjust the discharge diameter to the suction diameter.

Selection chart

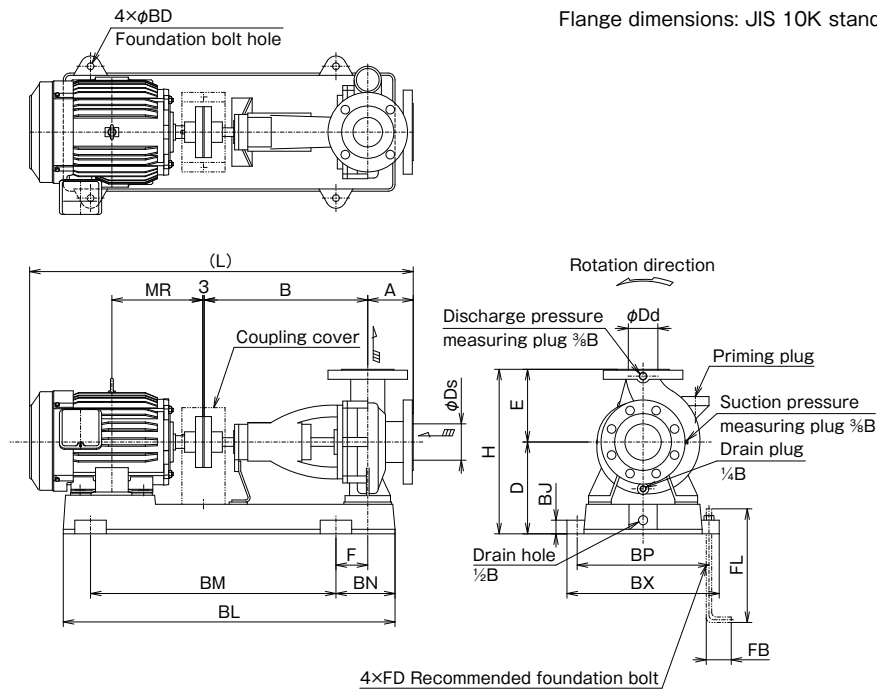


Specification table

Nominal diameter mm		Type	Output kW	Specifications				
Suction	Discharge			Discharge rate m³/min	Total head m	Allowable boost pressure MPa		
32	32	SJ32×32L61.5-e	1.5	0.07	27.1	0.70		
		SJ32×32L61.5H-e	1.5	—	—	—		
		SJ32×32M62.2-e	2.2	0.07	39.0	0.59		
		SJ32×32M62.2H-e	2.2	—	—	—		
		SJ32×32M63.7-e	3.7	0.1	52.0	0.44		
40	40	SJ40×40L61.5-e	1.5	0.16	21.1	0.71		
		SJ40×40L61.5H-e	1.5	—	—	—		
		SJ40×40M62.2-e	2.2	0.16	27.1	0.67		
		SJ40×40M62.2H-e	2.2	—	—	—		
		SJ40×40M63.7-e	3.7	0.18	39.3	0.57		
		SJ40×40M63.7H-e	3.7	—	—	—		
		50	40	SJ50×40L62.2-e	2.2	0.25	23.4	0.71
				SJ50×40L62.2H-e	2.2	—	—	—
				SJ50×40M63.7-e	3.7	0.25	38.4	0.58
				SJ50×40M63.7H-e	3.7	—	—	—
SJ50×40M65.5-e	5.5			0.25	46.5	0.48		
		SJ50×40H65.5-e	5.5	0.25	44.6	0.52		
		SJ50×40H65.5H-e	5.5	—	—	—		
		SJ50×40H67.5-e	7.5	0.25	54.9	0.42		
		SJ50×40H67.5H-e	7.5	—	—	—		
		65	50	SJ65×50L63.7-e	3.7	0.5	24.1	0.70
SJ65×50L63.7H-e	3.7			—	—	—		
SJ65×50M65.5-e	5.5			0.5	31.4	0.61		
SJ65×50M65.5H-e	5.5			—	—	—		
SJ65×50M67.5-e	7.5			0.5	41.5	0.51		
SJ65×50M67.5H-e	7.5			—	—	—		
SJ65×50H67.5-e	7.5			0.5	44.5	0.51		
SJ65×50H67.5H-e	7.5			—	—	—		
SJ65×50H611-e	11			0.5	62.7	0.33		
SJ65×50H611H-e	11			—	—	—		
SJ65×50H615-e	15			0.5	74.4	0.24		
SJ65×50H615H-e	15			—	—	—		
SJ65×50K618-e	18.5			0.5	79.0	0.10		
SJ65×50K618H-e	18.5	—	—	—				

Nominal diameter mm		Type	Output kW	Specifications		
				Discharge rate m³/min	Total head m	Allowable boost pressure MPa
Suction	Discharge					
80	65	SJ80×65L65.5-e	5.5	1	20.4	0.70
		SJ80×65L65.5H-e	5.5	—	—	—
		SJ80×65L67.5-e	7.5	1	27.4	0.63
		SJ80×65L67.5H-e	7.5	—	—	—
		SJ80×65M611-e	11	1	38.1	0.53
		SJ80×65M611H-e	11	—	—	—
		SJ80×65M615-e	15	1	52.0	0.40
		SJ80×65M615H-e	15	—	—	—
		SJ80×65H618-e	18.5	1	59.1	0.31
		SJ80×65H618H-e	18.5	—	—	—
		SJ80×65H622-e	22	1	67.9	0.23
		SJ80×65H622H-e	22	—	—	—
SJ80×65K630-e	30	1	85.0	0.04		
SJ80×65K630H-e	30	—	—	—		
100	80	SJ100×80L611-e	11	1.97	19.0	0.76
		SJ100×80L611H-e	11	—	—	—
		SJ100×80L615-e	15	1.97	25.4	0.71
		SJ100×80L615H-e	15	—	—	—
		SJ100×80M618-e	18.5	1.97	34.8	0.57
		SJ100×80M618H-e	18.5	—	—	—
		SJ100×80M622-e	22	1.97	40.8	0.51
		SJ100×80M622H-e	22	—	—	—
		SJ100×80H630-e	30	1.97	56.2	0.35
		SJ100×80H630H-e	30	—	—	—
		SJ100×80H637-e	37	1.97	70.6	0.22
		SJ100×80H637H-e	37	—	—	—
		SJ100×80H645-e	45	1.97	83.1	0.11
		SJ100×80H645H-e	45	—	—	—

Assembly drawing



Flange dimensions: JIS 10K standard type or equivalent

Note) Overall length dimensions, approximate mass and terminal box position may vary depending on the motor manufacturer.

Dimensions

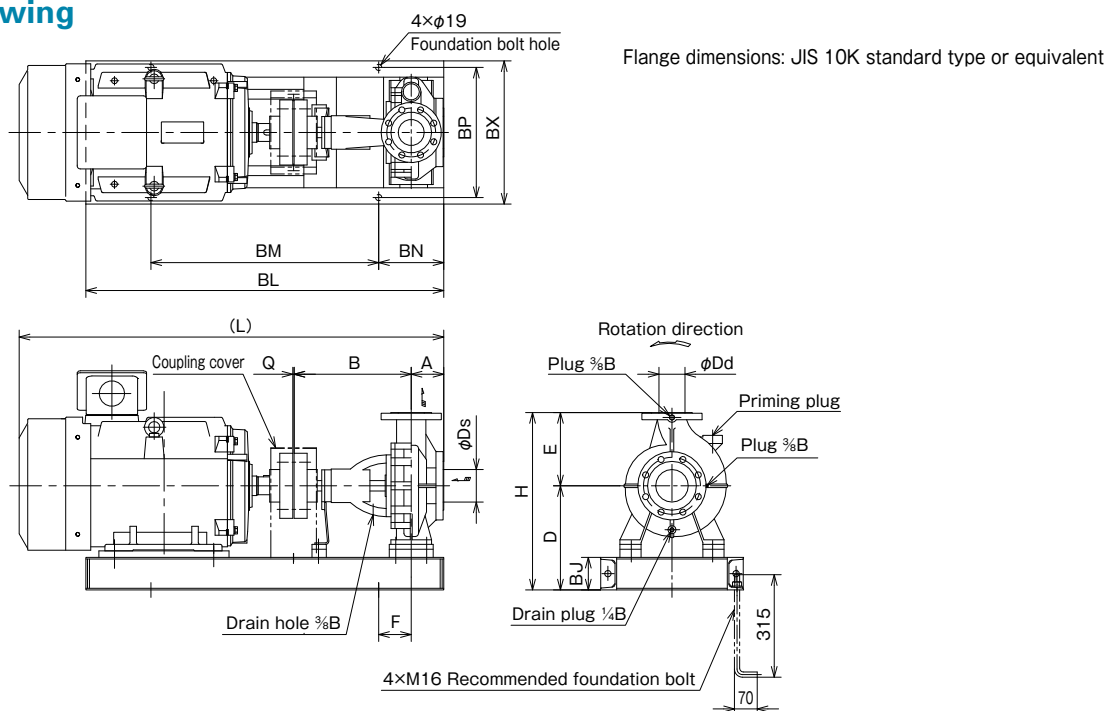
(Unit: mm)

Nominal diameter		Type	Output kW	Pump / Motor								Common base								Foundation bolt			Approx. mass kg
Suction Ds	Discharge Dd			A	B	D	E	F	H	L	MR	BD	BJ	BL	BM	BN	BP	BX	FB	FD	FL		
32	32	SJ32×32L61.5(H)-e	1.5	75	360	162	120	55	282	750	169	13	25	685	480	115	230	265	45	M10	200	61	
		SJ32×32M62.2(H)-e	2.2	75	360	182	160	55	342	750	169	13	25	685	480	115	290	325	45	M10	200	74	
		SJ32×32M63.7-e	3.7	75	360	202	160	70	362	819	200	15	30	730	540	130	290	335	55	M12	250	87	
40	40	SJ40×40L61.5(H)-e	1.5	75	360	162	120	55	282	750	169	13	25	685	480	115	230	265	45	M10	200	62	
		SJ40×40M62.2(H)-e	2.2	75	360	182	160	55	342	750	169	13	25	685	480	115	290	325	45	M10	200	76	
		SJ40×40M63.7(H)-e	3.7	75	360	202	160	70	362	819	200	15	30	730	540	130	290	335	55	M12	250	87	
50	40	SJ50×40L62.2(H)-e	2.2	80	360	162	140	55	302	755	169	13	25	685	480	115	230	265	45	M10	200	72	
		SJ50×40M63.7(H)-e	3.7	80	360	202	160	70	362	824	200	15	30	730	540	130	290	335	55	M12	250	95	
		SJ50×40M65.5-e	5.5	80	360	202	160	70	362	894	239	15	30	820	540	130	320	365	55	M12	250	113	
		SJ50×40H65.5(H)-e	5.5	80	360	230	180	55	410	894	239	15	30	820	540	130	350	395	55	M12	250	125	
		SJ50×40H67.5(H)-e	7.5	80	360	230	180	55	410	894	239	15	30	820	540	130	350	395	55	M12	250	131	
65	50	SJ65×50L63.7(H)-e	3.7	80	360	162	140	55	302	824	200	13	25	725	480	115	290	325	45	M10	200	91	
		SJ65×50M65.5(H)-e	5.5	80	360	202	160	70	362	894	239	15	30	820	540	130	320	365	55	M12	250	117	
		SJ65×50M67.5(H)-e	7.5	80	360	202	160	70	362	894	239	15	30	820	540	130	320	365	55	M12	250	123	
		SJ65×50H67.5(H)-e	7.5	100	360	230	180	55	410	914	239	15	30	820	540	130	350	395	55	M12	250	145	
		SJ65×50H611(H)-e	11	100	360	245	180	95	425	1107	323	20	40	950	660	170	400	456	70	M16	315	222	
		SJ65×50H615(H)-e	15	100	360	245	180	95	425	1107	323	20	40	950	660	170	400	456	70	M16	315	222	
80	65	SJ65×50K618(H)-e	18.5	100	360	265	225	95	490	1137	345	20	40	950	660	170	400	456	70	M16	315	269	
		SJ80×65L65.5(H)-e	5.5	100	360	202	160	70	362	914	239	15	30	820	540	130	320	365	55	M12	250	125	
		SJ80×65L67.5(H)-e	7.5	100	360	202	160	70	362	914	239	15	30	820	540	130	320	365	55	M12	250	131	
		SJ80×65M611(H)-e	11	100	360	245	180	95	425	1107	323	20	40	950	660	170	400	456	70	M16	315	216	
		SJ80×65M615(H)-e	15	100	360	245	180	95	425	1107	323	20	40	950	660	170	400	456	70	M16	315	216	
		SJ80×65H618(H)-e	18.5	100	360	245	200	95	445	1137	345	20	40	950	660	170	400	456	70	M16	315	257	
100	80	SJ80×65K630(H)-e	30	100	360	265	225	95	490	1174	371	20	40	1000	660	170	440	496	70	M16	315	362	
		SJ100×80L611(H)-e	11	100	360	245	180	95	425	1107	323	20	40	950	660	170	400	456	70	M16	315	224	
		SJ100×80L615(H)-e	15	100	360	245	180	95	425	1107	323	20	40	950	660	170	400	456	70	M16	315	224	
		SJ100×80M618(H)-e	18.5	100	360	245	200	95	445	1137	345	20	40	950	660	170	400	456	70	M16	315	263	
			SJ100×80H630(H)-e	30	100	360	265	225	95	490	1174	371	20	40	1000	660	170	440	496	70	M16	315	373

*Mounting dimensions are compatible with SJ model (product equipped with totally enclosed fan-cooled IE1 motor). Also the motor frame number is the same. Therefore, replacement with a Top Runner efficiency (equivalent to IE3) motor is possible. However, please keep the following point in mind. The number of revolutions will increase because of the characteristics of the motor, which may cause the flow rate to exceed the rated current value. Please adjust the flow rate to use the motor within the rated current value.

*For products equipped with a drip-proof protection type motor, there are some types which also require a common base because the frame No. may be different when only the motor is replaced.

Assembly drawing



Dimensions

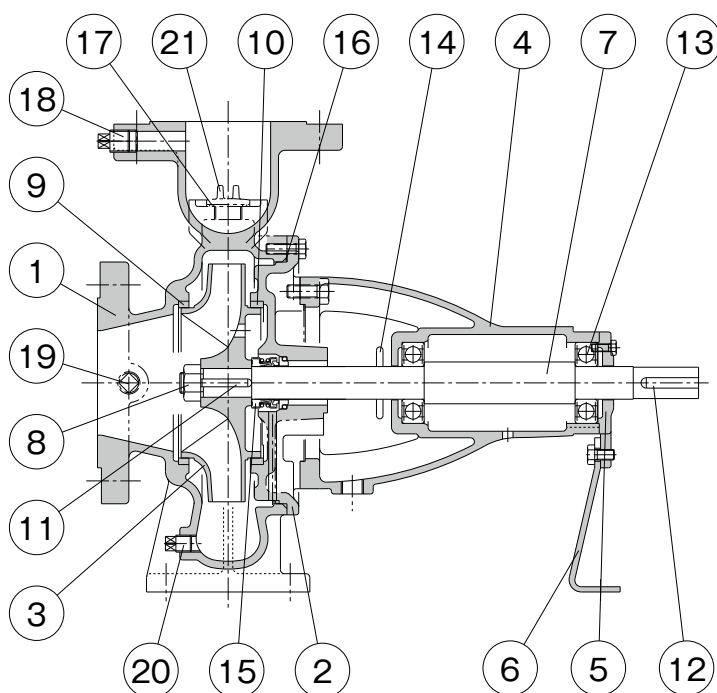
(Unit: mm)

Nominal diameter		Type	Output kW	Pump / Motor								Common base						Approx. mass kg
Suction Ds	Discharge Dd			A	B	D	E	F	H	L	Q	BJ	BL	BM	BN	BP	BX	
80	65	SJ80×65H622(H)-e	22	100	360	275	200	90	475	1136	3	75	950	650	150	365	400	299
		SJ100×80M622(H)-e	22	100	360	300	200	100	500	1136	3	100	1000	600	200	360	400	291
100	80	SJ100×80H637(H)-e	37	100	360	320	225	100	545	1305	4	100	1100	700	200	400	440	449
		SJ100×80H645(H)-e	45	100	360	320	225	100	545	1305	4	100	1100	700	200	400	440	460

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*For products equipped with a drip-proof protection type motor, there are some types which also require a common base because the frame No. may be different when only the motor is replaced.

Example of sectional drawing



Note) This is a representative example. For details, see the sectional drawing of each model.

Parts list

No.	Part name	Qty	Material
1	Casing	1	FC200/FC450
2	Casing cover	1	FC200
3	Impeller	1	CAC406/FC200
4	Bearing case	1	FC200
5	Bearing cover	1	FC200
6	Mounting leg	1	SS400
7	Main shaft	1	SUS403
8	Impeller nut	1	SUS304
9	Liner ring	1	CAC406
10	Liner ring	1	CAC406
11	Impeller key	1	SUS304
12	Coupling key	1	S45C
13	Ball bearing	2	SUJ2
14	Deflector	1	CR
15	Mechanical seal	1	SIC vs Carbon
16	O-ring	1	NBR
17	O-ring	1	NBR
18	Plug	1	SWCH
19	Plug	1	SWCH
20	Drain plug	1	SWCH
21	Priming plug	1	C3771B

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