

Centrifugal Pumps

SJ

TERAL

60Hz



TERAL INC.

Applications

- General water supply in buildings and apartments, etc
- Hot and cold water circulation
- Supply of industrial water
- Distribution of waterworks
- Irrigation and watering in rice fields and dry fields

Features

- ① Small in size and weight by adoption of a bipolar motor.
- ② Performance covering a wide range of specifications is comparable to a large sized one.
- ③ Easy installation in a small space.
- ④ Assembly and disassembly without piping disconnection possible and easy maintenance and inspection because of B.P.O. (back pull-out) structure.
- ⑤ Advantageous for piping load with stabilized installation because of upright discharge.
- ⑥ Product compliant with Japanese Industrial Standards (JIS B8313).

Standard specifications

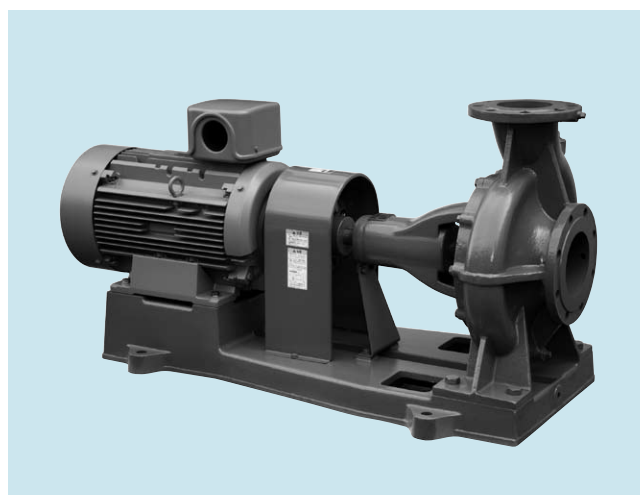
Liquid to be lifted	Liquid quality: Clean water Liquid temperature: 0~80°C
Total suction head	-6m (20°C) However, -5m (20°C) in the case of 100 × 80
Boost pressure	See the specifications
Structure	Impeller: Closed
	Bearing: Mechanical seal
	Shaft seal: Sealed ball bearing
Material	Impeller: CAC406 (65×50M, 80×65M...FC200)
	Spindle: SUS403
	Casing: FC200 or FCD450※1
Motor	Type: Totally-enclosed-fan-cooled motor indoor type
	Power: Three-phase/200/220V
	Synchronous rotation speed: 3600min ⁻¹
Flange standard	JIS 10K flange
Paint color	7.5BG5/1.5

※ 1 Varies depending on type

Special specifications

Material change	All steel made, Impeller CAC406 (65×50M, 80×65M only)
Motor change	Voltage change, change to totally-enclosed-fan-cooled motor outdoor type, etc.

※ Please note that in the case of change to special specifications, the outline drawing may be partially changed.



※ Please note that product colors may differ from that in the photo.

How to read the model type

SJ 32 × 32 L 6 1.5

①

②

③

④

⑤

① Model

② Nominal suction diameter (32mm)

③ Nominal discharge diameter (32mm)

④ Frequency (60Hz)

⑤ Output (1.5kW)

Standard accessories

Motor	1
Common base	1
Pump-priming plug	1
Coupling	1 set
Coupling cover	1

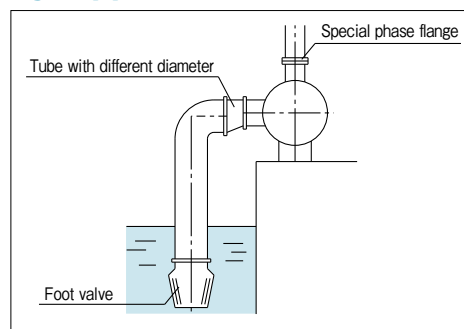
Special accessories

Foot valve	
Suction cover	
Sluice valve, Check valve	Packing, bolts and nuts attached
Foundation bolt	1 set
Mating flange	Packing, bolts and nuts attached
Special phase flange (in the case of a discharge diameter the same as the suction diameter)	Bolts and nuts attached
Tube with different diameter	See the figure below
Vibration isolated table	
Pressure gauge, vacuum gauge, compound gauge	Cock and pipe attached
Vibration proof fittings	

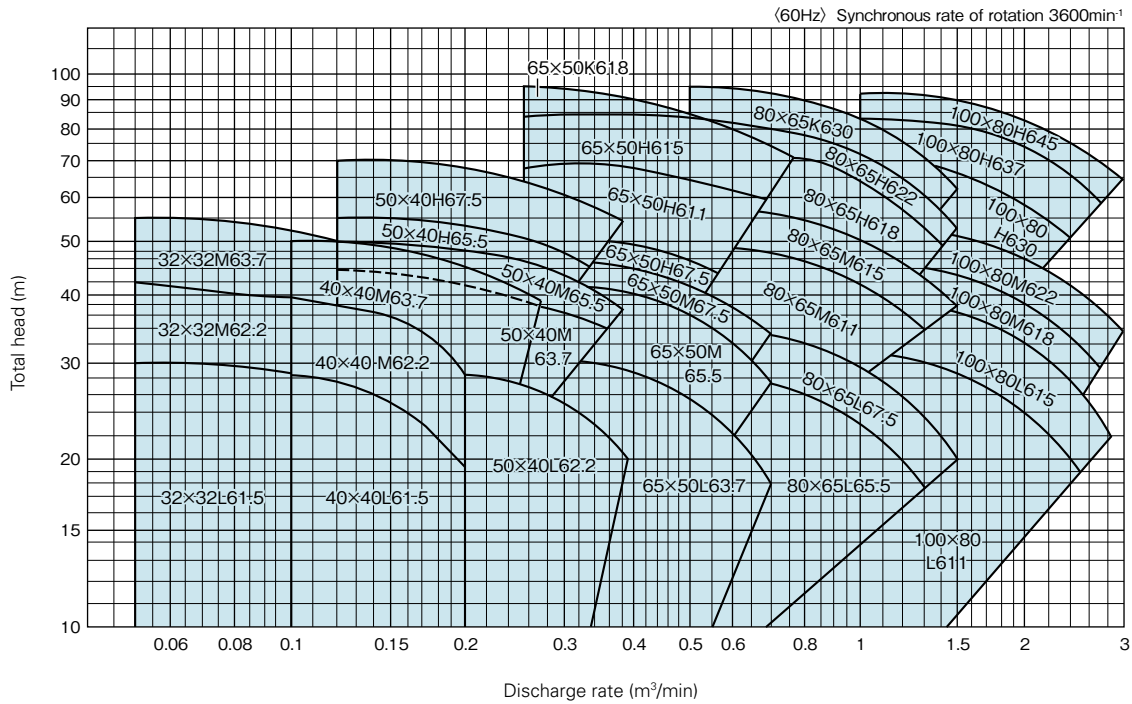
Foot valve, tube with different diameter, special phase flange application table

Nominal diameter mm		Foot valve nominal diameter mm	Tube with different diameter	Special phase 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	65/80
100	80	125	100×125	80/100

※ Special phase flange is used to adjust the discharge diameter to the suction diameter.



Selection chart

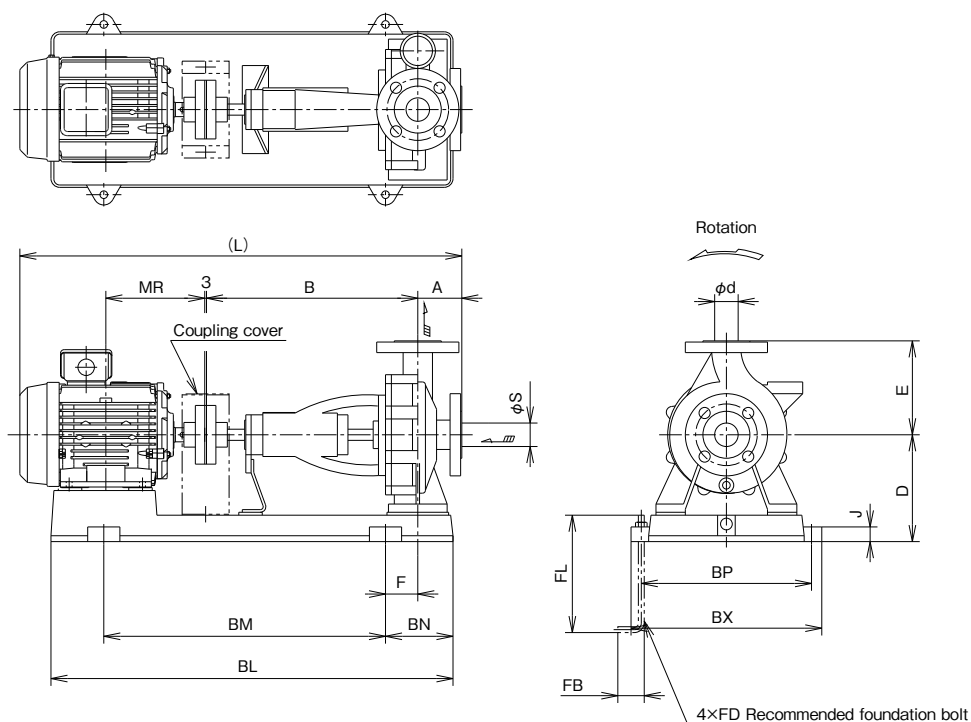


Specifications

Nominal diameter mm		Model	Output kW	Specification						Permissible boost pressure MPa
Suction	Discharge			Discharge rate m³/min	Total head m	Discharge rate m³/min	Total head m	Discharge rate m³/min	Total head m	
32	32	SJ32×32L61.5	1.5	0.05	30.5	0.07	30	0.10	29	0.69
		SJ32×32M62.2	2.2	0.05	42	0.07	41.5	0.10	40	0.58
		SJ32×32M63.7	3.7	0.05	55	0.10	52	0.15	48	0.45
40	40	SJ40×40L61.5	1.5	0.10	29	0.16	24	0.20	20	0.69
		SJ40×40M62.2	2.2	0.10	40	0.16	35.5	0.20	30	0.58
		SJ40×40M63.7	3.7	0.10	50	0.18	47	0.27	41	0.49
50	40	SJ50×40L62.2	2.2	0.16	30	0.25	27	0.38	20	0.69
		SJ50×40M63.7	3.7	0.12	44.5	0.25	40	0.35	34.5	0.54
		SJ50×40M65.5	5.5	0.12	51	0.25	46.5	0.38	38.5	0.46
		SJ50×40H65.5	5.5	0.12	56	0.25	51	0.33	44.5	0.43
		SJ50×40H67.5	7.5	0.12	69.5	0.25	65	0.38	54.5	0.29
65	50	SJ65×50L63.7	3.7	0.25	31.5	0.50	26	0.70	18.5	0.67
		SJ65×50M65.5	5.5	0.25	43	0.50	36.8	0.70	28	0.56
		SJ65×50M67.5	7.5	0.25	47.8	0.50	41.5	0.70	34	0.49
		SJ65×50H67.5	7.5	0.25	52.2	0.50	46.5	0.57	43.7	0.48
		SJ65×50H611	11	0.25	69	0.50	66.5	0.68	60	0.29
		SJ65×50H615	15	0.25	85	0.50	83	0.75	73	0.15
		SJ65×50K618	18.5	0.25	94	0.50	85	0.75	65	0.05
80	65	SJ80×65L65.5	5.5	0.50	29.2	1.00	24	1.32	18	0.68
		SJ80×65L67.5	7.5	0.50	35	1.00	30	1.50	20	0.63
		SJ80×65M611	11	0.50	50	1.00	42	1.30	34.5	0.46
		SJ80×65M615	15	0.50	58.5	1.00	52	1.50	38.5	0.39
		SJ80×65H618	18.5	0.50	74.5	1.00	65	1.40	51	0.21
		SJ80×65H622	22	0.50	83	1.00	73.5	1.50	55	0.14
		SJ80×65K630	30	0.50	96	1.00	85	1.50	64	0.02
100	80	SJ100×80L611	11	0.98	32	1.97	25.5	2.45	19	0.66
		SJ100×80L615	15	0.98	39.3	1.97	33.5	2.80	22	0.58
		SJ100×80M618	18.5	0.98	48.2	1.97	39.8	2.70	30.5	0.49
		SJ100×80M622	22	0.98	54	1.97	47	2.95	34.5	0.44
		SJ100×80H630	30	0.98	72	1.97	61	2.40	52.5	0.24
		SJ100×80H637	37	0.98	84	1.97	75	2.70	61	0.15
		SJ100×80H645	45	0.98	93	1.97	85.5	2.95	65	0.07

Assembly drawing

Flange dimensions: JIS 10K flange or equivalent



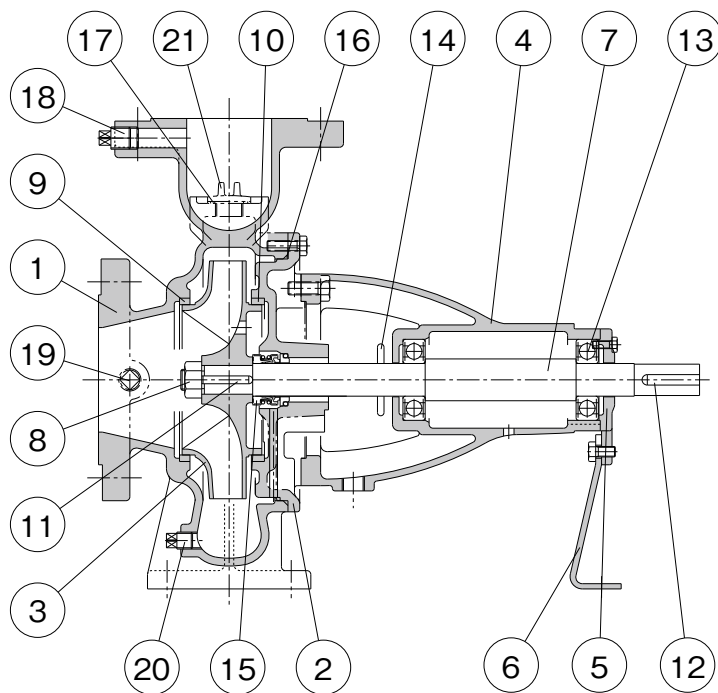
Note) Total length dimension and approximate mass may vary slightly depending on the motor manufacturer.

Dimensions

(Unit: mm)

Nominal diameter		Pump type	Output kW	A	B	D	E	F	J	L	MR	BL	BM	BN	BP	BX	FB	FD	FL	Approx. mass kg
Suction ϕ_s	Discharge ϕ_d																			
32	32	SJ32×32L61.5	1.5	75	360	162	120	55	25	753	168.5	685	480	115	230	265	45	M10	200	57
		SJ32×32M62.2	2.2	75	360	182	160	55	25	753	168.5	685	480	115	290	325	45	M10	200	69
		SJ32×32M63.7	3.7	75	360	202	160	70	30	810	200	730	540	130	290	335	55	M12	250	79
40	40	SJ40×40L61.5	1.5	75	360	162	120	55	25	753	168.5	685	480	115	230	265	45	M10	200	58
		SJ40×40M62.2	2.2	75	360	182	160	55	25	753	168.5	685	480	115	290	325	45	M10	200	71
		SJ40×40M63.7	3.7	75	360	202	160	70	30	810	200	730	540	130	290	335	55	M12	250	79
50	40	SJ50×40L62.2	2.2	80	360	162	140	55	25	758	168.5	685	480	115	230	265	45	M10	200	67
		SJ50×40M63.7	3.7	80	360	202	160	70	30	815	200	730	540	130	290	335	55	M12	250	87
		SJ50×40M65.5	5.5	80	360	202	160	70	30	871	239	820	540	130	320	365	55	M12	250	102
		SJ50×40H65.5	5.5	80	360	230	180	55	30	871	239	820	540	130	350	395	55	M12	250	114
		SJ50×40H67.5	7.5	80	360	230	180	55	30	871	239	820	540	130	350	395	55	M12	250	119
		SJ65×50L63.7	3.7	80	360	162	140	55	25	815	200	725	480	115	290	325	45	M10	200	83
65	50	SJ65×50M65.5	5.5	80	360	202	160	70	30	871	239	820	540	130	320	365	55	M12	250	106
		SJ65×50M67.5	7.5	80	360	202	160	70	30	871	239	820	540	130	320	365	55	M12	250	111
		SJ65×50H67.5	7.5	100	360	230	180	55	30	891	239	820	540	130	350	395	55	M12	250	136
		SJ65×50H611	11	100	360	245	180	95	40	1058	323	950	660	170	400	456	70	M16	315	172
		SJ65×50H615	15	100	360	245	180	95	40	1058	323	950	660	170	400	456	70	M16	315	181
		SJ65×50K618	18.5	100	360	265	225	95	40	1058	345	950	660	170	400	456	70	M16	315	197
		SJ80×65L65.5	5.5	100	360	202	160	70	30	891	239	820	540	130	320	365	55	M12	250	114
80	65	SJ80×65L67.5	7.5	100	360	202	160	70	30	891	239	820	540	130	320	365	55	M12	250	119
		SJ80×65M611	11	100	360	245	180	95	40	1058	323	950	660	170	400	456	70	M16	315	163
		SJ80×65M615	15	100	360	245	180	95	40	1058	323	950	660	170	400	456	70	M16	315	172
		SJ80×65H618	18.5	100	360	245	200	95	40	1058	345	950	660	170	400	456	70	M16	315	189
		SJ80×65H622	22	100	360	275	200	90	75	1106	352	950	650	150	365	400	70	M16	315	224
		SJ80×65K630	30	100	360	265	225	95	40	1179	371	1000	660	170	440	496	70	M16	315	282
		SJ100×80L611	11	100	360	245	180	95	40	1058	323	950	660	170	400	456	70	M16	315	171
100	80	SJ100×80L615	15	100	360	245	180	95	40	1058	323	950	660	170	400	456	70	M16	315	180
		SJ100×80M618	18.5	100	360	245	200	95	40	1058	345	950	660	170	400	456	70	M16	315	196
		SJ100×80M622	22	100	360	300	200	100	100	1106	352	1000	600	200	360	400	70	M16	315	217
		SJ100×80H630	30	100	360	265	225	95	40	1179	371	1000	660	170	440	496	70	M16	315	289
		SJ100×80H637	37	100	360	320	225	100	100	1215	396	1100	700	200	400	440	70	M16	315	387
		SJ100×80H645	45	100	360	320	225	100	100	1215	396	1100	700	200	400	440	70	M16	315	402
		SJ100×80H653	53	100	360	320	225	100	100	1215	396	1100	700	200	400	440	70	M16	315	402

Sectional drawing



Parts list

No.	Part name	Qty	Materials
1	Casing	1	FC200
2	Casing cover	1	FC200
3	Impeller	1	CAC406
4	Bearing case	1	FC200
5	Bearing cover	1	FC200
6	Attached leg	1	SS400
7	Spindle	1	SUS403
8	Impeller nut	1	SUS304
9	Wearing ring	1	CAC406
10	Wearing 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	-
16	O-ring A	1	NBR
17	O-ring B	1	NBR
18	Plug	1	SS400
19	Plug	1	SS400
20	Plug	1	SS400
21	Pump-priming plug	1	CAC202

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