

Volute pumps

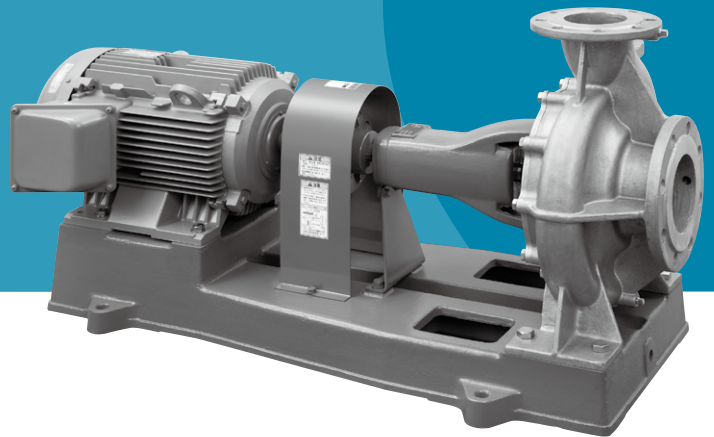
SJS

TERAL



Triple e series

60Hz



TERAL INC.

Applications

- Circulation of cold/warm water
- Hot-water supply
- General water supply
- Conveyance of industrial water
- Conveyance and distribution of tap water
- Water sprinkling and irrigation of paddies and fields
- Other uses

Features

- ① Energy-saving pump with a Top Runner efficiency (equivalent to IE3) motor.
- ② Strong, with additional distortion resistance, and longer life through the adoption of precision stainless steel casting
- ③ Usable at liquid temperatures up to 80°C.
- ④ Improved sealing performance and easy maintenance through the adoption of mechanical seal.
- ⑤ Compliant with new water quality standards.
- ⑥ B.P.O. (Back pullout) structure facilitates maintenance and inspection.
- ⑦ Compact and lightweight due to 2-pole motor.
- ⑧ Compatible mounting dimensions with conventional pumps.

Description of types

SJS 80 × 65 L 6 5.5 - e

① ② ③ ④ ⑤ ⑥ ⑦

- ① Model
- ② Suction nominal diameter (80mm)
- ③ Discharge nominal diameter (65mm)
- ④ Type
- ⑤ Frequency (60Hz)
- ⑥ Output (5.5kW)
- ⑦ Equipped with Top Runner efficiency (equivalent to IE3) motor

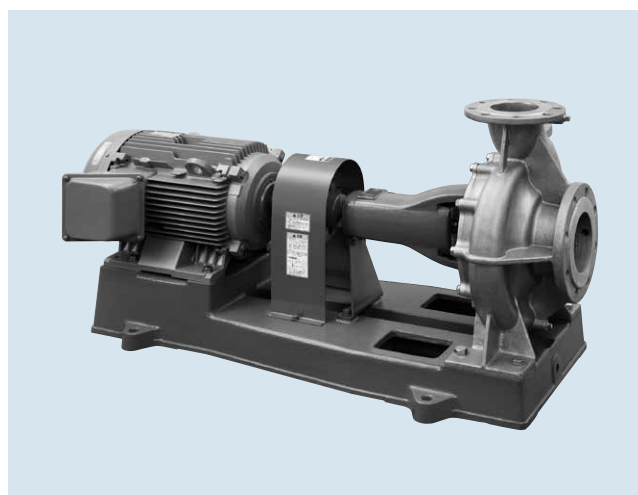
Standard specifications

Pumping liquid	Liquid quality	Fresh water
	Liquid temperature	0~80°C*
Total suction head (In case of 20°C)		-6m : Nominal diameter 80×65 -5m : Nominal diameter 100×80
Allowable boost pressure		See the Specification table.
Structure	Impeller	Closed
	Bearing	Sealed ball bearing
	Shaft seal	Mechanical seal (SiC vs carbon)
Material	Impeller	SCS13
	Shaft	SUS304
	Casing	SCS13
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 indoor type
	Power source	3-phase, 200/220V
	Synchronous rotation speed	3600min ⁻¹
Flange spec		JIS 10K standard type

* For more than 80°C, contact us.

Standard accessories

Motor	1	Coupling	1 set
Common base	1	Coupling cover	1
Priming plug	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) Double mechanical seal specification (super hard vs super hard) (7.5kW or less) Grand packing (7.5kW or less) 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
Motor	Type	Totally enclosed fan-cooled outdoor type
	Power supply	Voltage change
Paint*1		Specified color for outer surface, salt-resistant paint, heavy-duty salt-resistant paint
Other		Oil free treatment (Grade I/ Grade II)

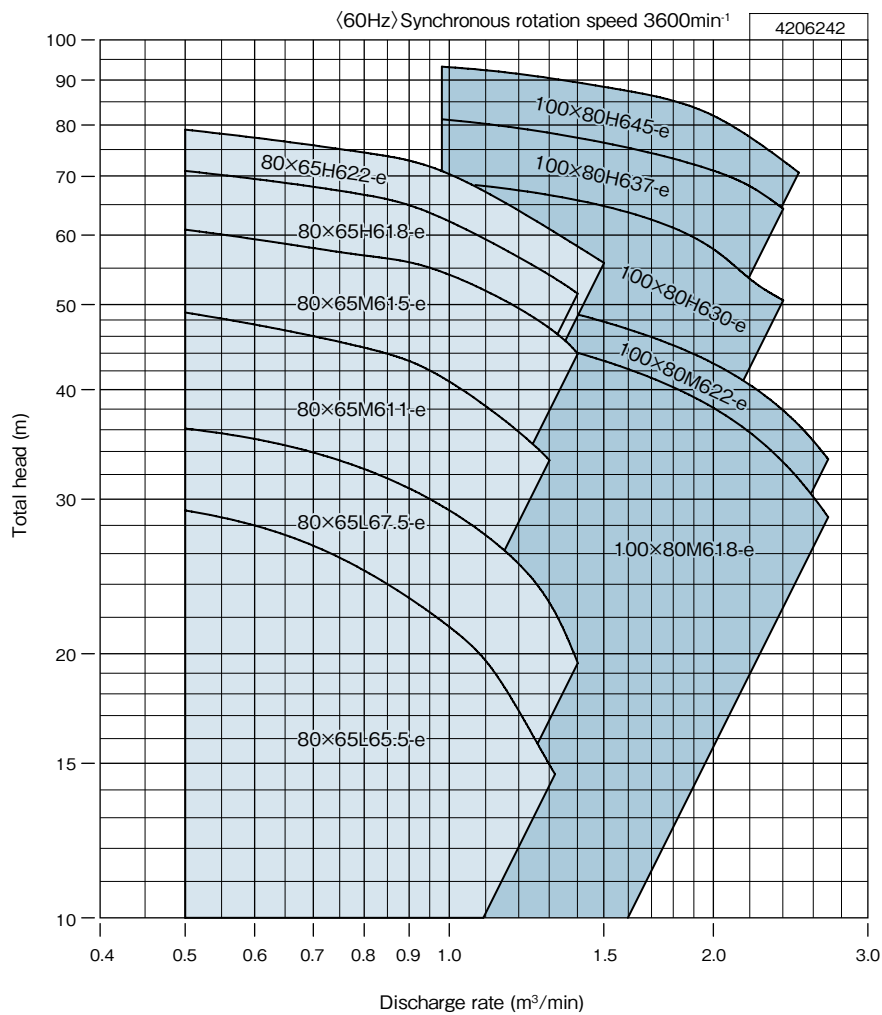
* Please note that in case of special specifications, the assembly drawing, etc., may differ from the standard drawing.

*1 Stainless steel parts are not painted

Special accessories

Companion flange (bolt and nut included)2 sets
 Foot valve
 Suction cover
 Sluice valve, check valve
 Vibration isolator
 Pressure gauge, compound gauge, vacuum gauge
 Vibration isolation joint

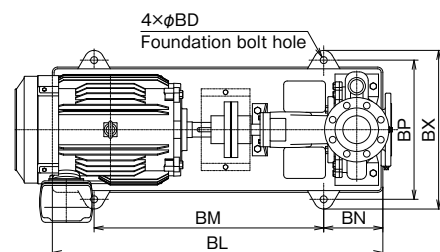
Selection chart



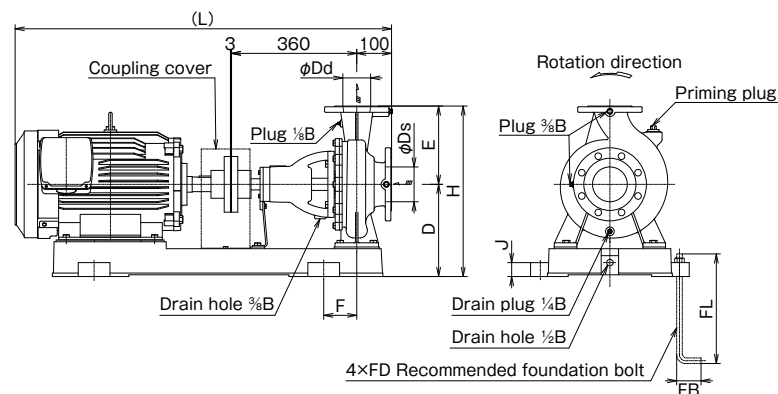
Specification table

Nominal diameter mm		Type	Output kW	Allowable boost pressure MPa	Specifications					
Suction	Discharge				Discharge rate m³/min	Total head m	Discharge rate m³/min	Total head m	Discharge rate m³/min	Total head m
80	65	SJS80×65L65.5-e	5.5	0.67	0.5	29.1	1.0	21.4	1.32	14.6
		SJS80×65L67.5-e	7.5	0.61	0.5	36	1.0	29.1	1.4	19.5
		SJS80×65M611-e	11	0.9	0.5	48.9	1.0	40.8	1.3	33.2
		SJS80×65M615-e	15	0.79	0.5	60.8	1.0	54	1.4	43.9
		SJS80×65H618-e	18.5	0.67	0.5	70.9	1.0	62.1	1.4	51.4
		SJS80×65H622-e	22	0.59	0.5	79	1.0	70.3	1.5	55.7
100	80	SJS100×80M618-e	18.5	0.93	0.98	47.4	1.97	38.4	2.7	28.6
		SJS100×80M622-e	22	0.88	0.98	52.1	1.97	43.1	2.7	33.3
		SJS100×80H630-e	30	0.7	0.98	68.9	1.97	58.3	2.4	50.5
		SJS100×80H637-e	37	0.58	0.98	81.2	1.97	71.3	2.4	64.2
		SJS100×80H645-e	45	0.46	0.98	93.2	1.97	82.5	2.5	70.6

Assembly drawing



Flange dimensions: JIS 10K standard type or equivalent



Note) Total length dimension, approximate mass and terminal box position may be slightly different depending on motor manufacturer.
The coupling cover is included in the standard accessories.

Dimensions

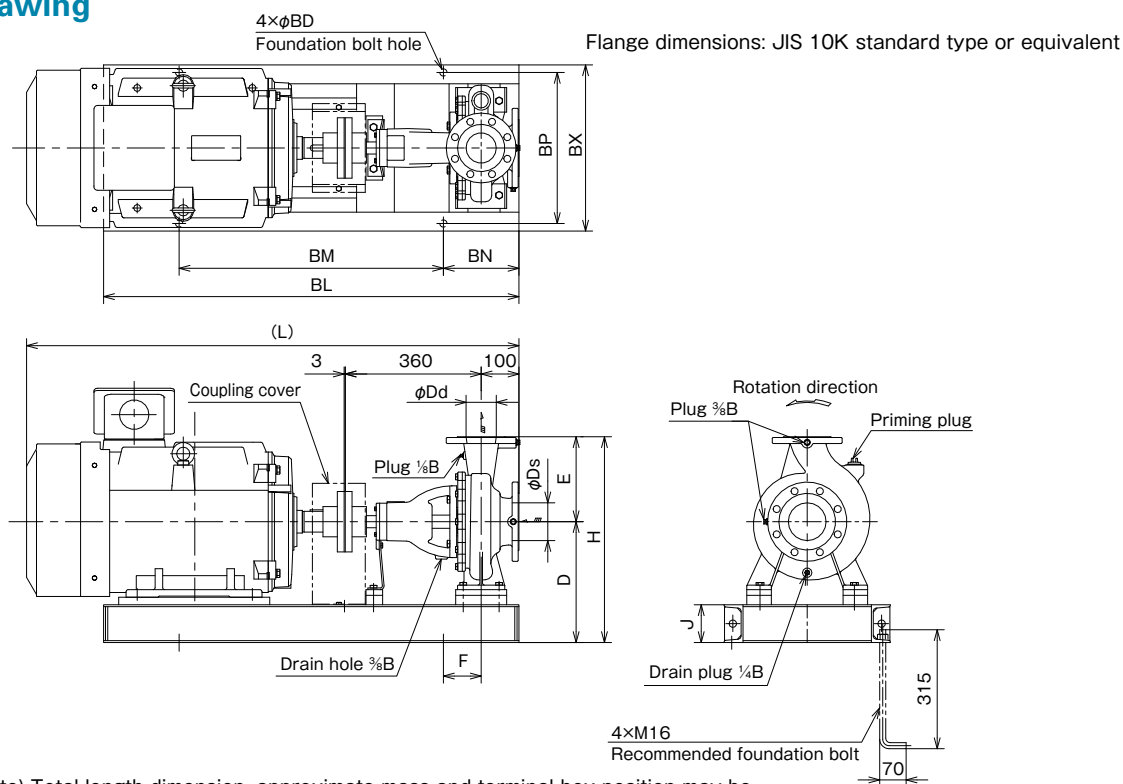
(Unit: mm)

Nominal diameter		Type	Output kW	Pump / Motor					Common base						Foundation bolt			Approx. mass kg	
				D	E	H	F	L	J	BD	BL	BM	BN	BP	BX	FB	FD		FL
Ds	Dd																		
80	65	SJS80×65L65.5-e	5.5	202	160	362	70	914	30	15	820	540	130	320	365	55	M12	250	133
		SJS80×65L67.5-e	7.5	202	160	362	70	914	30	15	820	540	130	320	365	55	M12	250	141
		SJS80×65M611-e	11	245	180	425	95	1107	40	20	950	660	170	400	456	70	M16	315	214
		SJS80×65M615-e	15	245	180	425	95	1107	40	20	950	660	170	400	456	70	M16	315	214
		SJS80×65H618-e	18.5	245	200	445	95	1137	40	20	950	660	170	400	456	70	M16	315	250
100	80	SJS100×80M618-e	18.5	245	200	445	95	1137	40	20	950	660	170	400	456	70	M16	315	256
		SJS100×80H630-e	30	265	225	490	95	1174	40	20	1000	660	170	440	496	70	M16	315	350

*Mounting dimension is compatible with SJS type (product equipped with totally-enclosed fan-cooled IE1 motor). In addition, the motor frame No. is the same, so it is possible to replace with a top runner (equivalent to IE3) motor. However, pay attention to the following.

The rotation speed of the motor increases because of its characteristics. Therefore adjust the flow rate and use the product so that the current should not exceed the rated current.

Assembly drawing



Note) Total length dimension, approximate mass and terminal box position may be slightly different depending on motor manufacturer.
The coupling cover is included in the standard accessories.

Dimensions

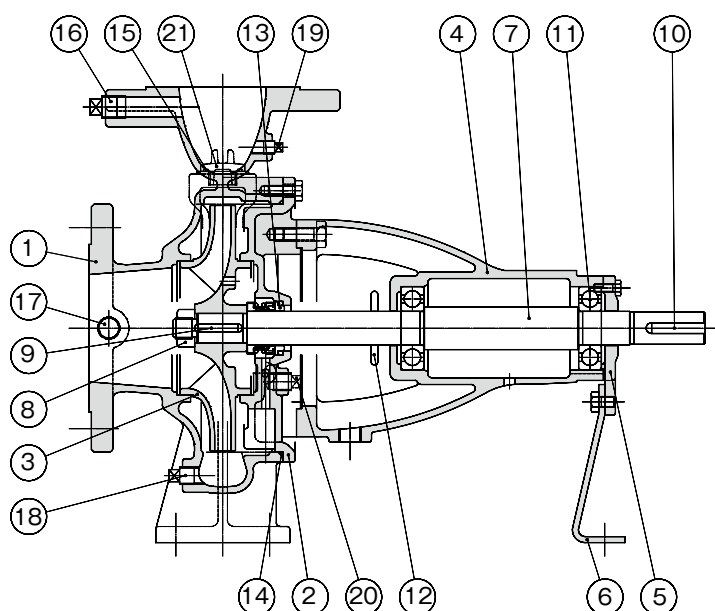
(Unit: mm)

Nominal diameter		Type	Output kW	Pump / Motor					Common base						Approx. mass kg	
				D	E	H	F	L	J	BD	BL	BM	BN	BP		BX
Ds	Dd															
80	65	SJS80×65H622-e	22	275	200	475	90	1136	75	19	950	650	150	365	400	295
100	80	SJS100×80M622-e	22	300	200	500	100	1136	100	19	1000	600	200	360	400	298
		SJS100×80H637-e	37	320	225	545	100	1305	100	19	1100	700	200	400	440	434
		SJS100×80H645-e	45	320	225	545	100	1305	100	19	1100	700	200	400	440	452

*Mounting dimension is compatible with SJS type (product equipped with totally-enclosed fan-cooled IE1 motor). In addition, the motor frame No. is the same, so it is possible to replace with a top runner (equivalent to IE3) motor. However, pay attention to the following.

The rotation speed of the motor increases because of its characteristics. Therefore adjust the flow rate and use the product so that the current should not exceed the rated current.

Example of sectional drawing



* The drawing shows the standard specifications.

Contact us for special specifications because some parts may differ.

Parts list

No.	Part name	Qty	Material
1	Casing	1	SCS13
2	Casing cover	1	SCS13
3	Impeller	1	SCS13
4	Bearing case	1	FC200
5	Bearing cover	1	FC200
6	Mounting leg	1	SS400
7	Shaft	1	SUS304
8	Impeller nut	1	SUS304
9	Impeller key	1	SUS304
10	Coupling key	1	S45C
11	Ball bearing	2	SUJ2
12	Deflector	1	CR
13	Mechanical seal	1	SiC vs carbon
14	O-ring	1	NBR
15	O-ring	1	NBR
16	Plug	1	SUS304
17	Plug	1	SUS304
18	Drain plug	1	SUS304
19	Plug	1	SUS304
20	Plug*	1	SUS304
21	Priming plug	1	SCS13

The part indicated with an * is not included in SJS80×65L-e.

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