

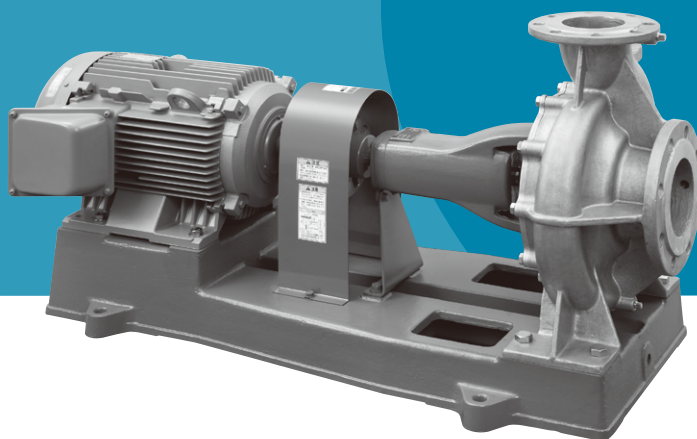
Volute pumps

SJS

TERAL



50Hz



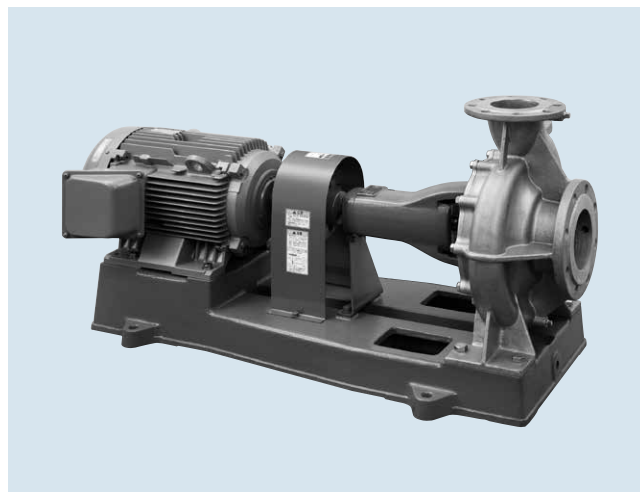
TERAL INC.

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.



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

Description of types

SJS 80 × 65 L 5 3.7 - e

- | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|
| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ |
| ① Model | | | | ⑤ Frequency (50Hz) | | |
| ② Suction nominal diameter (80mm) | | | | ⑥ Output (3.7kW) | | |
| ③ Discharge nominal diameter (65mm) | | | | ⑦ Equipped with Top Runner efficiency (equivalent to IE3) motor | | |
| ④ Type | | | | | | |

Standard specifications/Special specifications

— : Not available

Pumping liquid	Liquid quality	Fresh water	
	Liquid temperature	0~80°C *1	
Total suction head (In case of 20°C)		-6m but -5m for 100×80	
Allowable positive pressure		See the specification table.	
Specifications		Standard specifications	Special specifications
Structure	Impeller	Closed	—
	Shaft seal	Mechanical seal (SiC vs Carbon)	Mechanical seal (SiC vs SiC) Double mechanical seal (super hard vs super hard) ...7.5kW or less Gland packing ...7.5kW or less External water injection ...when handling liquid contains some foreign matter
	Bearing	Sealed ball bearing	—
	Gland drain	Drain hole	Cock
	Casing drain	Plug	Cock
	Coupling guard	TERAL standard	Sealed type coupling guard
	Others	—	Oil free treatment (grade I)
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	Totally enclosed fan-cooled outdoor
	Power source	3-phase/200V	3-phase/400V
	Synchronous rotation speed	3000min ⁻¹	—
Piping connection		JIS10K standard flange	—
Painting*2	Paint color	7.5BG5/1.5	Specified color for outer surface
	Painting type	TERAL standard	Salt-resistant paint Heavy-duty salt-resistant paint

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

* 1 When it exceeds 80°C, please contact us.

* 2 Stainless steel parts are not painted.

Standard accessories

Common base	1
Priming plug	1
Coupling	1 set
Coupling guard	1

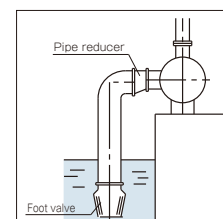
* Standard accessories are included in the product components.

Special accessories

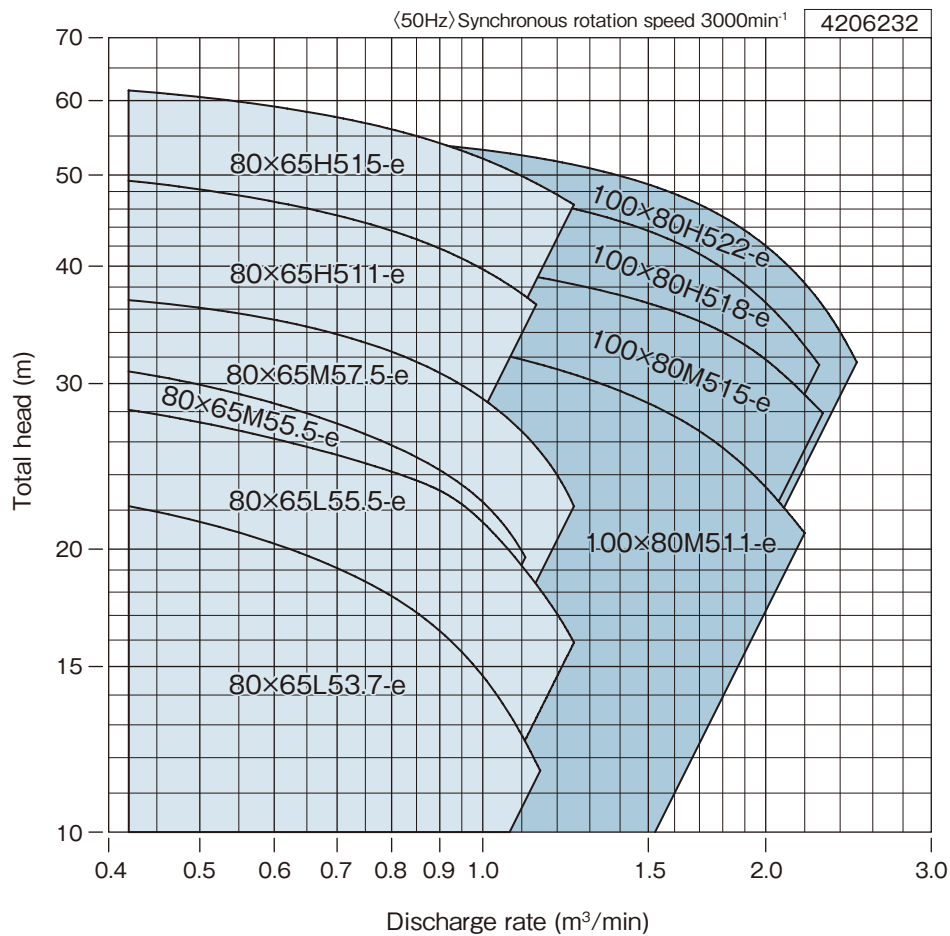
Foot valve
Suction cover
Sluice valve, check valve
Companion flange (packing, bolt and nut included)
Pipe reducer
Vibration isolator
Pressure gauge, compound gauge (with cock and pipes)
Vibration isolation joint
Anchor bolt

Foot valve / pipe reducer application table

Nominal diameter		Foot valve nominal diameter	Pipe reducer
Suction	Discharge		
80	65	100	80 × 100
125	100	150	125 × 150



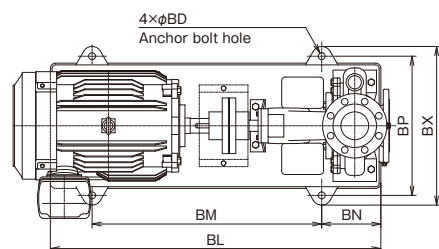
Selection chart



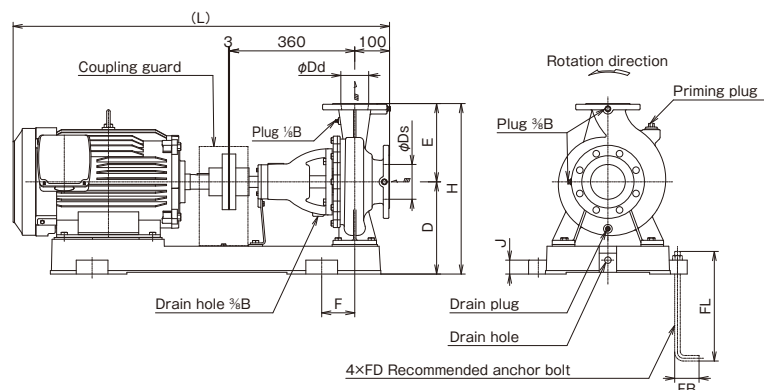
Specification table

Nominal diameter mm		Type	Output kW	Allowable positive 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	SJS80×65L53.7-e	3.7	0.76	0.42	22.2	0.84	17.3	1.15	11.6
		SJS80×65L55.5-e	5.5	0.70	0.42	28.1	0.84	23.8	1.25	15.9
		SJS80×65M55.5-e	5.5	1.08	0.42	30.9	0.84	25.2	1.11	19.6
		SJS80×65M57.5-e	7.5	1.02	0.42	36.8	0.84	31.8	1.25	22.2
		SJS80×65H511-e	11	0.89	0.42	49.3	0.84	42.9	1.14	36.4
100	80	SJS80×65H515-e	15	0.77	0.42	61.5	0.84	55.2	1.25	46.5
		SJS100×80M511-e	11	1.07	0.84	33.5	1.67	27.0	2.2	20.8
		SJS100×80M515-e	15	0.99	0.84	40.6	1.67	35.2	2.3	27.9
		SJS100×80H518-e	18.5	0.91	0.84	48.9	1.67	41.6	2.28	31.4
		SJS100×80H522-e	22	0.86	0.84	54.1	1.67	46.9	2.5	31.6

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.

Dimensions

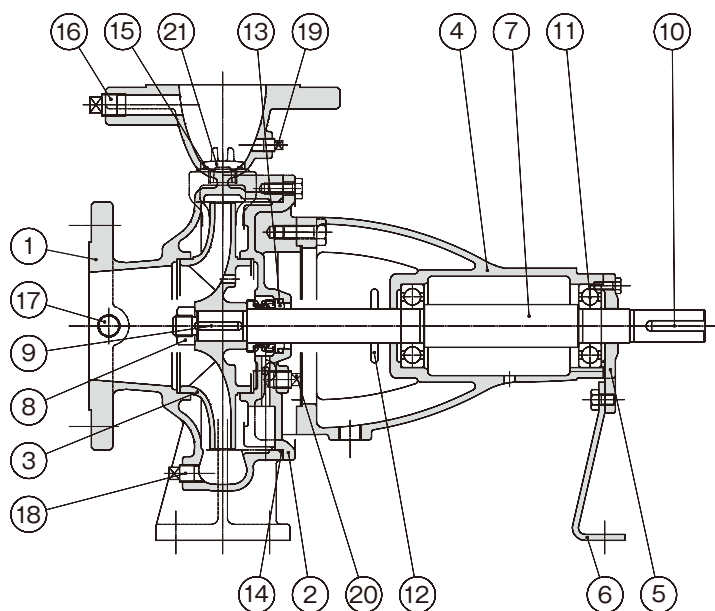
(Unit: mm)

Nominal diameter		Type	Output kW	Pump / Motor						Common base						Anchor bolt			Approx. mass kg
Ds	Dd			D	E	H	F	L	J	BD	BL	BM	BN	BP	BX	FB	FD	FL	
80	65	SJS80×65L53.7-e	3.7	202	160	362	70	844	30	15	730	540	130	290	335	55	M12	250	114
		SJS80×65L55.5-e	5.5	202	160	362	70	913	30	15	820	540	130	320	365	55	M12	250	144
		SJS80×65M55.5-e	5.5	230	180	410	55	914	30	15	820	540	130	350	395	55	M12	250	124
		SJS80×65M57.5-e	7.5	230	180	410	55	914	30	15	820	540	130	350	395	55	M12	250	125
		SJS80×65H511-e	11	245	200	445	95	1107	40	20	950	660	170	400	456	70	M16	315	238
100	80	SJS80×65H515-e	15	245	200	445	95	1107	40	20	950	660	170	400	456	70	M16	315	243
		SJS100×80M511-e	11	245	200	445	95	1107	40	20	950	660	170	400	456	70	M16	315	244
		SJS100×80M515-e	15	245	200	445	95	1107	40	20	950	660	170	400	456	70	M16	315	249
		SJS100×80H518-e	18.5	265	225	490	95	1137	40	20	950	660	170	400	456	70	M16	315	288
		SJS100×80H522-e	22	265	225	490	95	1136	40	20	1000	660	170	440	496	70	M16	315	337

*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



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.

* The drawing shows the standard specifications.
Contact us for special specifications because some parts may differ.

This image shows a full page of a handwriting practice worksheet. It consists of multiple rows of horizontal dashed lines spaced evenly down the page, providing a guide for letter height and placement. The background is plain white, and there are no margins or additional markings.

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TERAL INC.

Head Office 230, Moriwake, Miyuki-cyo, Fukuyama-city, Hiroshima, 720-0003, Japan
Tel.+81-84-955-1111 Fax.+81-84-955-5777
www.teral.net

Teral Asia Limited

Room 1001,10/F, Olympia Plaza, 255 King's Road, North Point, Hong Kong
Tel.+852-2571-0935 Fax.+852-2571-0619

TERAL THAI CO.,LTD.

150 Moo 16 Udomsoraryuth Rd., T.Bangkrasan, A.Bangpa-In, Ayutthaya 13160 Thailand
Tel.+66-3535-2148-9 Fax.+66-3535-2150

TERAL TRADING & SERVICE CO.,LTD.

150 Moo 16 Udomsoraryuth Rd., T.Bangkrasan, A.Bangpa-In, Ayutthaya 13160 Thailand
Tel.+66-3535-2145-7 Fax.+66-3535-8549

PT.Teral Indonesia Pumps and Fans

Sinpasa Commercial Blok SB No 001
Jl. Boulevar Selatan Summarecon Bekasi
RT.003/RW.005, Kel. Marga Mulya, Kec. Bekasi Utara, Kota Bekasi, Jawa Barat 17142
TEL:+62-21-8949-4116

Teral Vietnam Limited Liability Company

9th Floor, LADECO Building, No.266 Doi Can Street, Ngoc Ha Ward, Hanoi City, Vietnam
Tel.+84-24-393-52-790 Fax.+84-24-393-52-289

Teral General Machine (Shanghai) Co.,Ltd.

No.285, Yuan Qu Road(N), Bei Qiao, Min Hang District, Shanghai 201109, China
Tel.+86-21-6490-9128 Fax.+86-21-6490-9126

Teral Middle East F.Z.C.

1806-002, 18th floor, BB1, Mazaya Business Avenue, JLT, Dubai, UAE. PO Box 414781
Tel.+971-4369 9039

Teral Pumps & Fans North America Ltd.

Suite # 197, 800-15355 24 Ave Surrey, B.C., CANADA V4A 2H9
Tel.+1-604-839-1008