

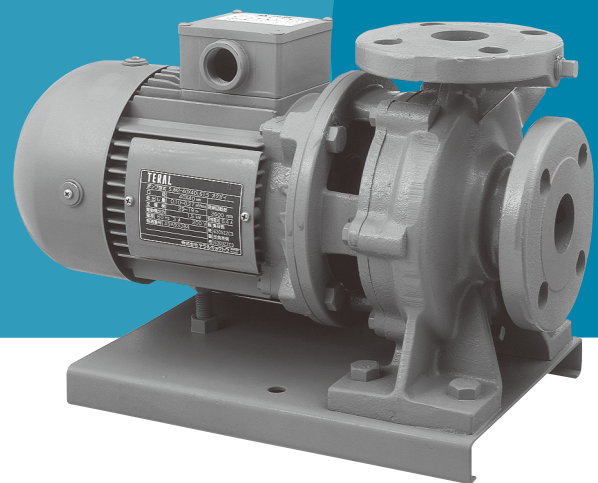
Volute pumps

SJM2/SJM3

TERAL



50Hz



TERAL INC.

Applications

- General water supply for buildings, condominiums, etc.
- Circulation of cold/warm water
- Conveyance of industrial water
- Conveyance and distribution of tap water
- Irrigation of paddies and fields
- Water sprinkling

Features

- ① Energy-saving pump with a Top Runner efficiency (equivalent to IE3) motor. (pumps of 0.4kW or less are our high efficiency standard products.)
- ② Compact and lightweight through the adoption of 2-pole motor.
- ③ High performance covering a wide range of uses.
- ④ Easy to install, and does not require a large space.
- ⑤ Easy to perform maintenance and inspection as disassembly and reassembly can be performed without removing piping due to the B.P.O (back pull out) structure.
- ⑥ Advantageous in piping load by stable installation due to straight-up discharge.
- ⑦ 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

SJM2 - 32 × 32 L 5 .75 - e

① ② ③ ④ ⑤ ⑥

- ① Model
- ② Nominal suction diameter (32mm)
- ③ Nominal discharge diameter (32mm)
- ④ Frequency (50Hz)
- ⑤ Output (0.75kW)
- ⑥ Equipped with Top Runner efficiency (equivalent to IE3) motor

Standard specifications / Special specifications

— : Not available

Pumping liquid	Liquid quality	Fresh water	
	Liquid temperature	0~80°C	
Total suction head (In case of 20°C)		~6m	
Allowable positive pressure		See the specification table.	
Specifications		Standard specifications	Special specifications
Structure	Impeller	Closed	—
	Shaft seal	Mechanical seal (Ceramic vs Carbon)	Mechanical seal (Sic vs Carbon)
	Bearing	Sealed ball bearing (built-in the motor)	—
	Casing drain	Plug	Cock
Material	Impeller	CAC406(excluding the following) SCS13...SJM3-65X50L52.2-e	—
	Shaft	SUS304	—
	Casing	FC200... (excluding the following) FCD450...SJM3-65X50L52.2-e	—
	Others	—	All iron
Motor	Efficiency	Top Runner efficiency (equivalent to IE3) (0.4kW is IE3 efficiency)	—
	Starting method	Direct-on-line start	—
	Type	Totally enclosed fan-cooled outdoor	—
	Power source	3-phase/200V	3-phase, 380/400/415V
	Synchronous rotation speed	3000min ⁻¹	—
Piping connection		JIS10K standard flange (Special flange for nominal diameter 32mm)	—
Painting	Paint color	7.5BG5/1.5	Specified color for outer surface
	Painting type	TERAL standard	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.

Standard accessories

Common base 1
Companion flange 2 set
(with packing, bolts, and nuts)
(nominal diameter 32mm only)
Priming plug 1

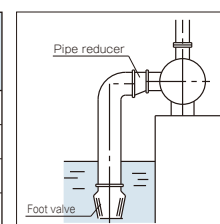
* Standard accessories are included in the product components.

Special accessories

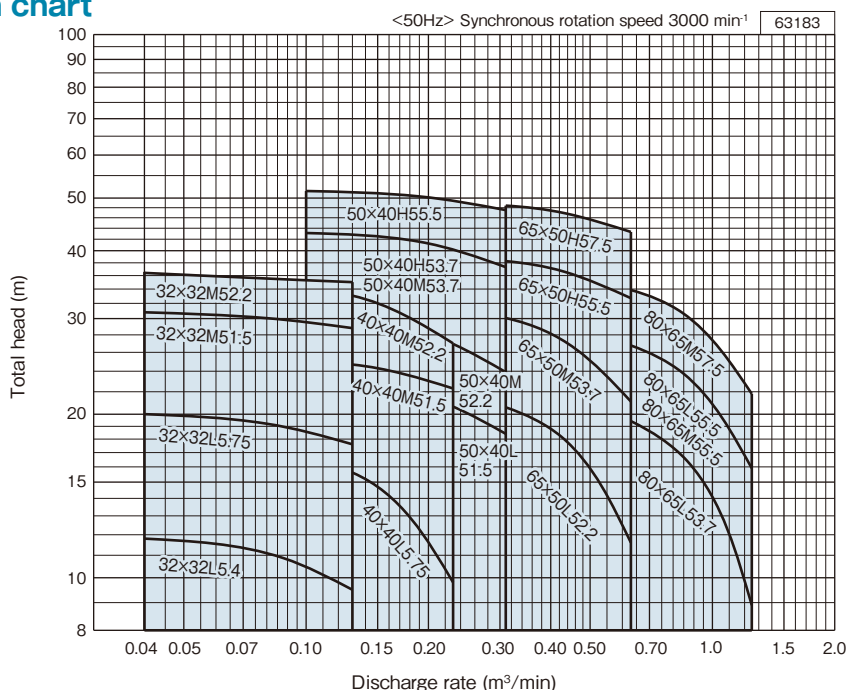
Foot valve
Suction cover
Sluice valve, check valve
Companion flange (with packing, bolts, and nuts)
*Standard accessory for nominal diameter 32mm
Special companion flange
(for making the discharge diameter identical to the suction diameter)
Pipe reducer
Vibration isolator
Pressure gauge, compound gauge (with cock and pipes)
Vibration isolation joint
Anchor bolt

Foot valve / pipe reducer

Nominal diameter		Foot valve nominal diameter	Pipe reducer
Suction s	Discharge d		
32	32	32	—
40	40	40	—
50	40	50	—
65	50	65	—
80	65	100	80×100



Selection chart



Specification table

Nominal diameter mm		Type	Output kW	Specifications		Allowable positive pressure MPa
Suction	Discharge			Discharge rate m ³ /min	Total head m	
32	32	SJM2-32×32L5.4-e	0.4	0.090	10.8	0.87
		SJM2-32×32L5.75-e	0.75	0.090	18.9	0.78
		SJM2-32×32M51.5-e	1.5	0.090	29.8	0.67
		SJM2-32×32M52.2-e	2.2	0.090	35.4	0.60
40	40	SJM2-40×40L5.75-e	0.75	0.150	14.7	0.80
		SJM2-40×40M51.5-e	1.5	0.150	24.3	0.73
		SJM2-40×40M52.2-e	2.2	0.150	32.0	0.62
50	40	SJM2-50×40L51.5-e	1.5	0.210	21.2	0.76
		SJM2-50×40M52.2-e	2.2	0.210	27.7	0.67
		SJM2-50×40M53.7-e	3.7	0.210	40.9	0.54
		SJM2-50×40H53.7-e	3.7	0.210	40.9	0.55
		SJM3-50×40H55.5-e	5.5	0.210	49.9	0.46
65	50	SJM3-65×50L52.2-e	2.2	0.420	18.3	0.75
		SJM3-65×50M53.7-e	3.7	0.420	27.6	0.66
		SJM3-65×50H55.5-e	5.5	0.420	36.8	0.59
		SJM3-65×50H57.5-e	7.5	0.420	47.1	0.49
80	65	SJM3-80×65L53.7-e	3.7	0.840	16.8	0.76
		SJM3-80×65L55.5-e	5.5	0.840	23.9	0.71
		SJM3-80×65M55.5-e	5.5	0.840	24.7	0.67
		SJM3-80×65M57.5-e	7.5	0.840	30.8	0.60

Motor specification table

Classification		Output kW	Starting			Thermal class	Bearing ^{*1}	
Phase	Type		Torque %	Current A	Method		Load side (D.S)	Anti-load side (O.S)
3-phase	Totally enclosed fan-cooled outdoor type	0.4	379	14.2	Direct-on-Line	F	6204ZZC3E	6203ZZC3E
		0.75	331	26.8	Direct-on-Line	F	6205ZZC3E	6204ZZC3E
		1.5	312	39	Direct-on-Line	B	6306ZZC3E	6305ZZC3E
		2.2	313	61.7	Direct-on-Line	B	6306ZZC3E	6205ZZC3E
		3.7	319	143	Direct-on-Line	B	6307ZZC3E	6306ZZC3E
		5.5	235	182	Direct-on-Line	B	6308ZZC3E	6306ZZC3E
		7.5	242	234	Direct-on-Line	B	6308ZZC3E	6306ZZC3E

*1 Urea grease is used for bearings.

Component parts list

Type	Mechanical seal	O-ring (for casing)	O-ring (for priming)
SJM2-32×32L5.4-e	H-16	G140	P22
SJM2-32×32L5.75-e	H-16	G140	P22
SJM2-32×32M51.5-e	H-20H	K184	P22
SJM2-32×32M52.2-e	H-20H	K184	P22
SJM2-40×40L5.75-e	H-16	G140	P22
SJM2-40×40M51.5-e	H-20H	K184	P22
SJM2-40×40M52.2-e	H-20H	K184	P22
SJM2-50×40L51.5-e	H-20H	G140	P22
SJM2-50×40M52.2-e	H-20H	K184	P22
SJM2-50×40M53.7-e	H-20H	K184	P22

Type	Mechanical seal	O-ring (for casing)	O-ring (for priming)
SJM2-50×40H53.7-e	H-20H	K223	P22
SJM3-50×40H55.5-e	H-25H-1	K223	P22
SJM3-65×50L52.2-e	H-20H	G140	P22
SJM3-65×50M53.7-e	H-20H	K184	P22
SJM3-65×50H55.5-e	H-25H-1	K223	P22
SJM3-65×50H57.5-e	H-25H-1	K223	P22
SJM3-80×65L53.7-e	H-20H	K160	P22
SJM3-80×65L55.5-e	H-25H-1	K160	P22
SJM3-80×65M55.5-e	H-25H-1	K184	P22
SJM3-80×65M57.5-e	H-25H-1	K184	P22

Assembly drawing

SJM2-e

Fig. 1

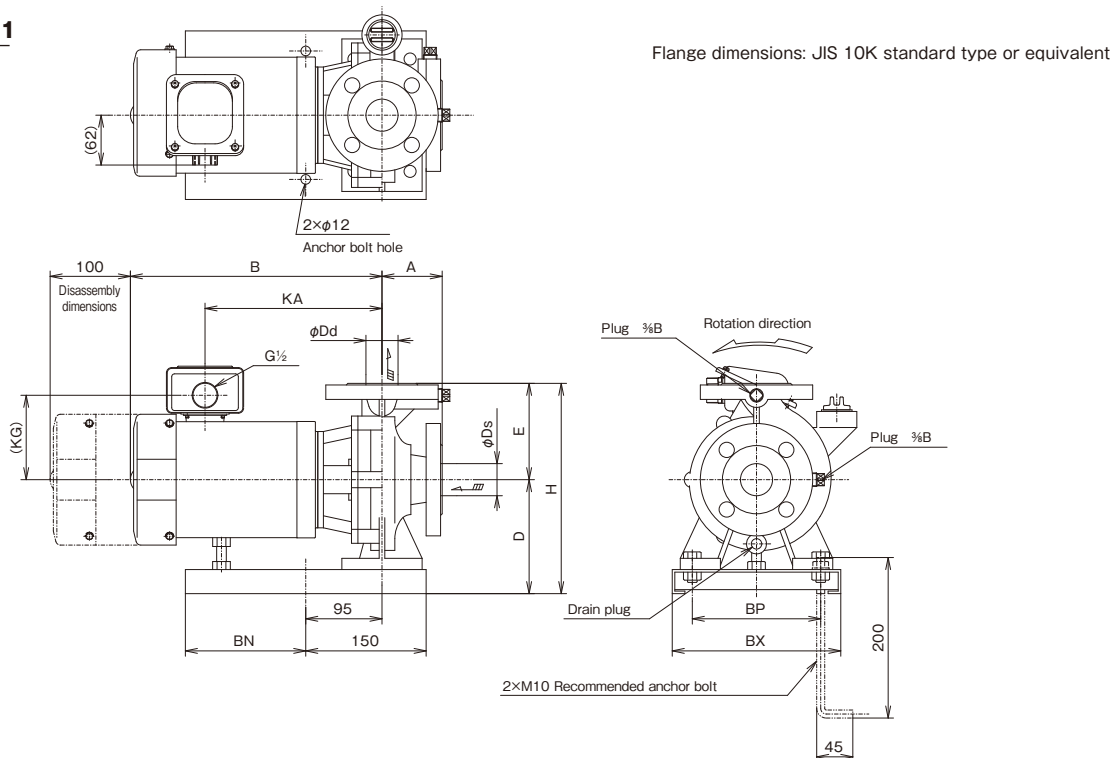
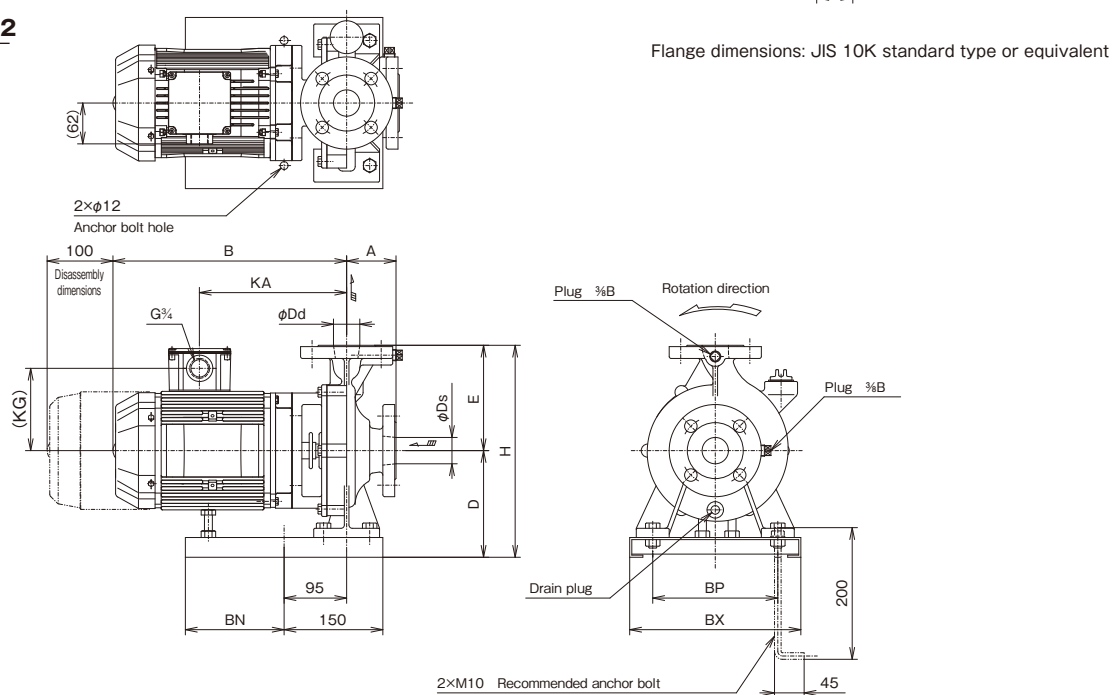


Fig. 2



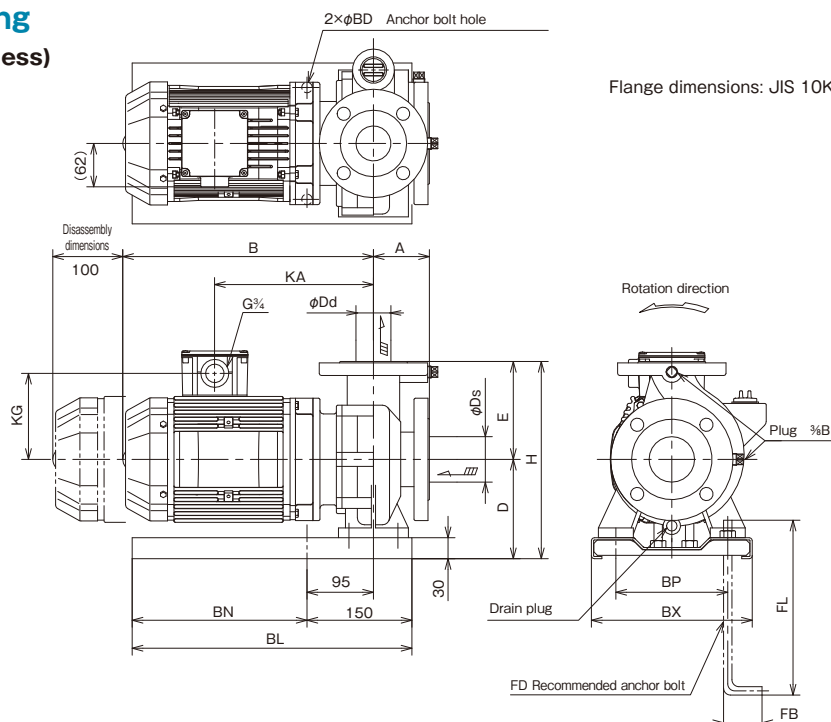
Dimensions

(Unit: mm)

Nominal diameter		Type	Output kW	Fig	Pump/Motor							Common base			Approx. mass kg
Suction Ds	Discharge Dd				A	B	D	E	H	KA	KG	BN	BP	BX	
32	32	SJM2-32×32L5.4-e	0.4	1	75	305	142	120	262	227	103	150	160	210	29
		SJM2-32×32L5.75-e	0.75	1	75	314	142	120	262	221	111	150	160	210	31
		SJM2-32×32M51.5-e	1.5	2	75	350	162	160	322	219	123	185	190	260	37
		SJM2-32×32M52.2-e	2.2	2	75	350	162	160	322	219	123	185	190	260	38
40	40	SJM2-40×40L5.75-e	0.75	1	75	314	142	120	262	221	111	150	160	210	31
		SJM2-40×40M51.5-e	1.5	2	75	350	162	160	322	219	123	185	190	260	37
		SJM2-40×40M52.2-e	2.2	2	75	350	162	160	322	219	123	185	190	260	39
		SJM2-50×40L51.5-e	1.5	2	80	355	142	140	282	224	123	150	160	210	37
50	40	SJM2-50×40M52.2-e	2.2	2	80	350	162	160	322	219	123	185	190	260	45
		SJM2-50×40M53.7-e	3.7	2	80	393	162	160	322	255	147	185	190	260	63
		SJM2-50×40H53.7-e	3.7	2	80	398	190	180	370	260	147	185	190	260	66

Assembly drawing

●SJM3-e (3.7kW or less)



Flange dimensions: JIS 10K standard type or equivalent

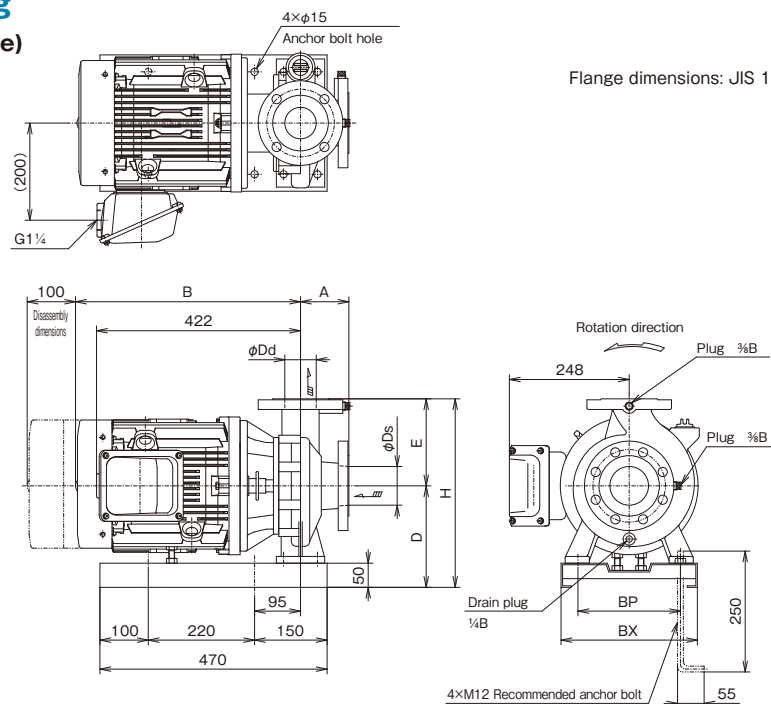
Dimensions

Nominal diameter		Type	Output kW	Pump/Motor							Common base					Anchor bolt			Approx. mass kg
Suction Ds	Discharge Dd			A	B	D	E	H	KA	KG	BD	BL	BN	BP	BX	FB	FD	FL	
65	50	SJM3-65×50L52.2-e	2.2	80	359	142	140	282	228	123	15	400	250	160	230	55	4×M12	250	32
		SJM3-65×50M53.7-e	3.7	80	402	162	160	322	264	147	12	335	185	190	260	45	2×M10	200	64
80	65	SJM3-80×65L53.7-e	3.7	100	402	162	160	322	264	147	12	335	185	190	260	45	2×M10	200	61

(Unit: mm)

Assembly drawing

●SJM3-e (5.5kW or more)



Flange dimensions: JIS 10K standard type or equivalent

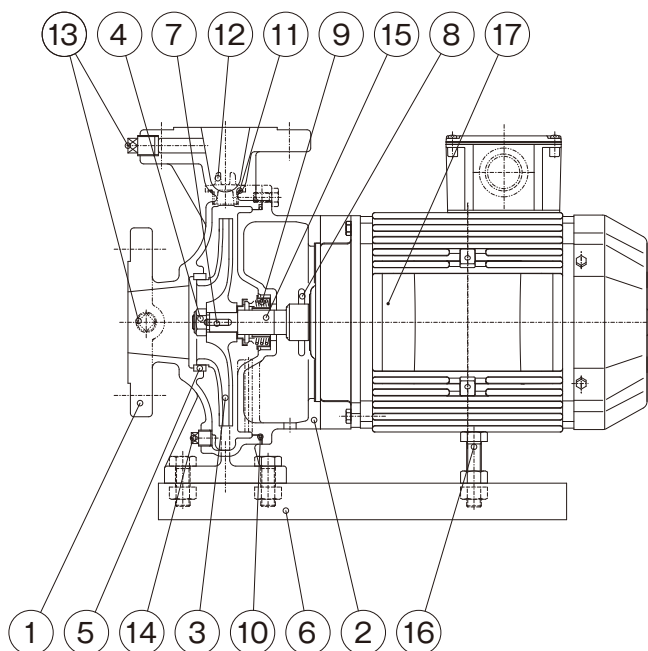
Dimensions

Nominal diameter		Type	Output kW	Pump/Motor					Common base		Approx. mass kg
Suction Ds	Discharge Dd			A	B	D	E	H	BP	BX	
50	40	SJM3-50×40H55.5-e	5.5	80	466	210	180	390	190	260	79
65	50	SJM3-65×50H55.5-e	5.5	100	466	210	180	390	212	282	82
		SJM3-65×50H57.5-e	7.5	100	466	210	180	390	212	282	87
80	65	SJM3-80×65L55.5-e	5.5	100	466	207	160	367	190	260	78
		SJM3-80×65M55.5-e	5.5	100	466	210	180	390	212	282	80
		SJM3-80×65M57.5-e	7.5	100	466	210	180	390	212	282	85

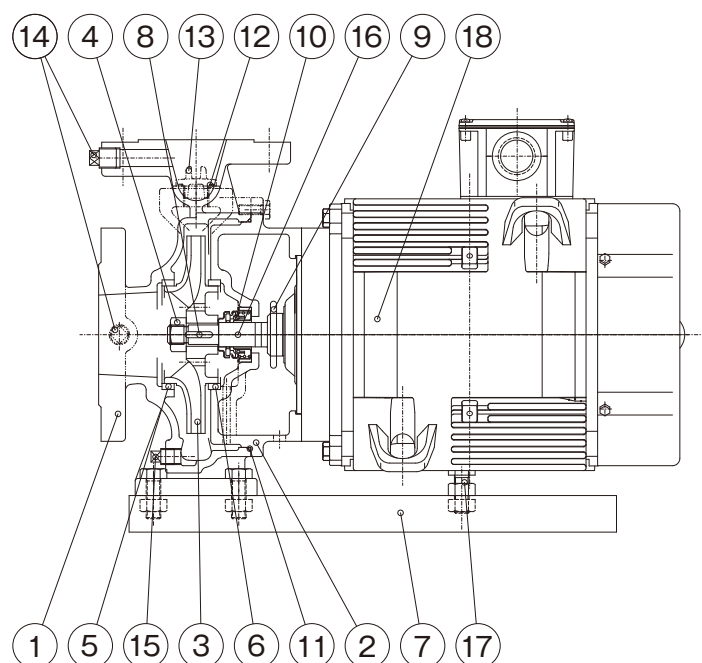
(Unit: mm)

Example of sectional drawing

●SJM2-e



●SJM3-e



Parts list

No.	Part name	Qty	Material
1	Casing	1	FC200
2	Frame	1	FC200
3	Impeller	1	CAC406
4	Impeller nut	1	SUS304
5	Liner ring	1	CAC406
6	Common base	1	SPHC
7	Key	1	SUS304
8	Deflector	1	CR
9	Mechanical seal	1	(Ceramic vs Carbon)
10	O-ring	1	NBR
11	O-ring	1	NBR
12	Priming plug	1	CAC202
13	Plug	1	SWCH
14	Plug	1	SWCH
15	Motor shaft *1	1	Liquid contact part: SUS304
16	Support bolt	1 or 2 *2	SS400
17	Motor	1	—

*1 The indicated materials are equivalent products.

*2 0.75kW or less: 1 1.5kW or more: 2

No.	Part name	Qty	Material
1	Casing	1	FC200 or FCD450*1
2	Frame	1	FC200
3	Impeller	1	SCS13
4	Impeller nut	1	SUS304
5	Liner ring	1	CAC406
6	Liner ring	1	CAC406
7	Common base	1	SPHC
8	Key	1	SUS304
9	Deflector	1	CR
10	Mechanical seal	1	(Ceramic vs Carbon)
11	O-ring	1	NBR
12	O-ring	1	NBR
13	Priming plug	1	CAC202
14	Plug	2	SWCH
15	Plug	1	SWCH
16	Motor shaft *1	1	Liquid contact part: SUS304
17	Support bolt	2	SS400
18	Motor	1	—

*1 The material differs according to the type.

*2 The indicated materials are equivalent products.

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