ShinMaywa

Prowinner Bangkok Co., Ltd.
Wastewater Solutions

LINE

WWW.PROWINNERBANGKOK.CO.TH

Centrifugal Pumps

(End Suction Closed coupled type) AD Series

2-Pole motor

New Product
Centrifugal Pump

End Suction Centrifugal Pump
Closed coupled type, 2-pole motor

ShinMaywa

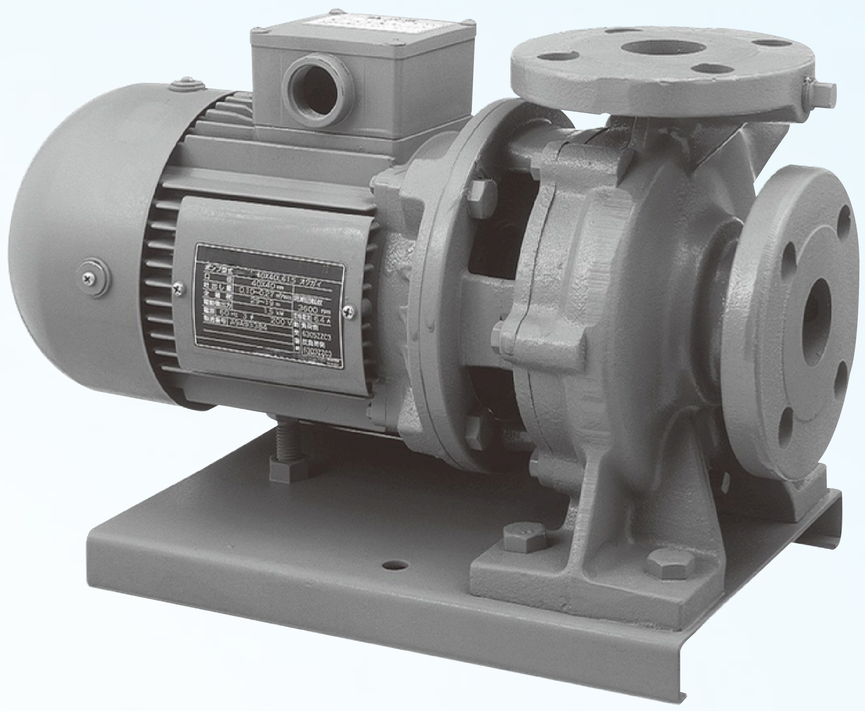
AD Series

0.40–7.5kW

Suction size : 32–80 mm

Discharge size : 32–65 mm

- Total suction head（In case of 20℃）−6m
- Allowable positive pressure



Features

- Energy-Saving efficient pump equipped with a Top Runner efficiency motor (equivalent to IE3). (pumps of 0.4kW or less are our high efficiency standard products.)
- Compact and lightweight design through of a 2-pole motor.
- Simple installation – requires minimal space for setup.
- Maintenance and inspection are easy, thanks to the B.P.O. (Back Pull-Out) structure, which allows disassembly and reassembly without removing piping.
- Stable installation with reduced piping load, made possible by the upright discharge design.
- Mounting dimensions are compatible with conventional pump models.

Applications

- General water distribution for buildings and apartment complexes
- Hot and cold water circulation systems
- Industrial process water supply
- Transmission and delivery of drinking water
- Water spraying and irrigation for fields and agricultural

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

Description of model name

AD–40 × 40 L 5 .75 –e

① ② ③ ④ ⑤ ⑥

① Model name
② Nominal suction diameter (40mm)
③ Nominal discharge diameter (40mm)
④ Frequency (50Hz)
⑤ Output (0.75kW)
⑥ Equipped with a Top Runner motor (equivalent to IE3)

Standard Specifications

Handling liquid	Kind of liquid	Fresh water
	Temperatute	0～80℃
Structure /Material	Impeller	Closed / FC200... (excluding the following) FCD450...AD2-65×50L52.2-e
	Shaft	SUS304
	Shaft seal	Mechanical seal (Ceramic vs Carbon)
	Bearing	Sealed ball bearing (built-in the motor)
	Casing drain	Plug
	Casing	FC200... (excluding the following) FCD450...AD2-65×50L52.2-e
Electric Motor	Type	Totally enclosed fan-cooled outdoor
	Efficiency	Top Runner efficiency (equivalent to IE3) (0.4kW is IE3 efficiency)
	Starting method	Direct-on-Line start
	Phase/Voltage	3-phase/380V
	Synchronous rotation speed	3000min-1

Standard accessories / Special accessories

- Commonbase 1
- Copanion flange ..... 2 set (with packing, bolts, and nuts) (nominal diameter 32m only)
- Priming plug 1

※ Standard accessories are included in the product components.

- Foot valve
- Suction cover
- Sluice valve, check valve
- Companion flange (packing, bolt and nut included) ※ Standard accessory for nominaldiameter 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

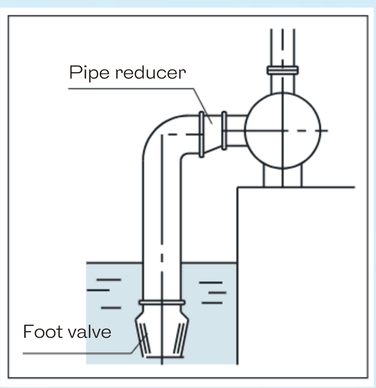
Optional Specification

- Mechanical seal (Sic vs Carbon)
- Plug – Cock
- Sealed type coupling guard
- Shaft – SUS304
- Totally enclosed fan-cooled outdoor ...1.5kW or more
- Salt-resistant paint / Heavy duty salt-resistant paint

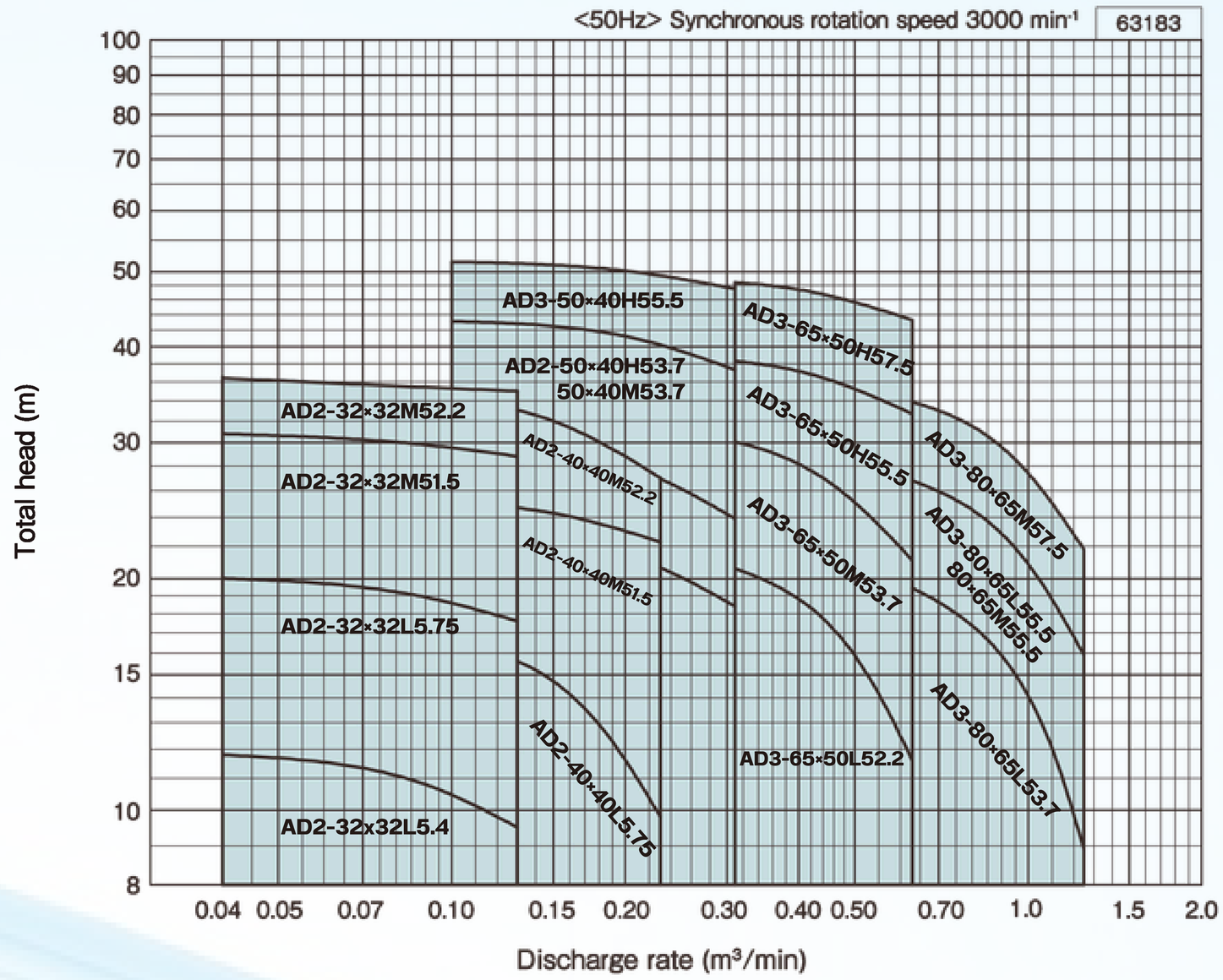
Foot valve / pipe reducer application table

- Piping connection : JIS10K standard flange

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



Performance Curves



Standard Specifications

Nominal diameter mm		Type	Output kW	Specifications		
Suction	Discharge			Discharge rate m3/min	Total head m	Allowable positive pressure
32	32	AD2-32×32L5.4-e	0.4	0.090	10.8	0.87
		AD2-32×32L5.75-e	0.75	0.090	18.9	0.78
		AD2-32×32M51.5-e	1.5	0.090	29.8	0.67
		AD2-32×32M52.2-e	2.2	0.090	35.4	0.60
40	40	AD2-40×40L5.75-e	0.75	0.150	14.7	0.80
		AD2-40×40M51.5-e	1.5	0.150	24.3	0.73
		AD2-40×40M52.2-e	2.2	0.150	32	0.62
50	40	AD2-50×40L51.5-e	1.5	0.210	21.2	0.76
		AD2-50×40M52.2-e	2.2	0.210	27.7	0.67
		AD2-50×40M53.7-e	3.7	0.210	40.9	0.54
		AD2-50×40H53.7-e	3.7	0.210	40.9	0.55
		AD3-50×40H55.5-e	5.5	0.210	49.9	0.46
65	50	AD3-65×50L52.2-e	2.2	0.420	18.3	0.75
		AD3-65×50M53.7-e	3.7	0.420	27.6	0.66
		AD3-65×50H55.5-e	5.5	0.420	36.8	0.59
		AD3-65×50H57.5-e	7.5	0.420	47.1	0.49
80	65	AD3-80×65L53.7-e	3.7	0.840	16.8	0.76
		AD3-80×65L55.5-e	5.5	0.840	23.9	0.71
		AD3-80×65M55.5-e	5.5	0.840	24.7	0.67
		AD3-80×65M57.5-e	7.5	0.840	30.8	0.60

Motor Specifications

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-	F	6204ZZC3E	6203ZZC3E
		0.75	331	26.8	Direct-on-	F	6205ZZC3E	6204ZZC3E
		1.5	312	39	Direct-on-	B	6306ZZC3E	6305ZZC3E
		2.2	313	61.7	Direct-on-	B	6306ZZC3E	6205ZZC3E
		3.7	319	143	Direct-on-	B	6307ZZC3E	6306ZZC3E
		5.5	235	182	Direct-on-	B	6308ZZC3E	6306ZZC3E
		7.5	242	234	Direct-on-	B	6308ZZC3E	6306ZZC3E

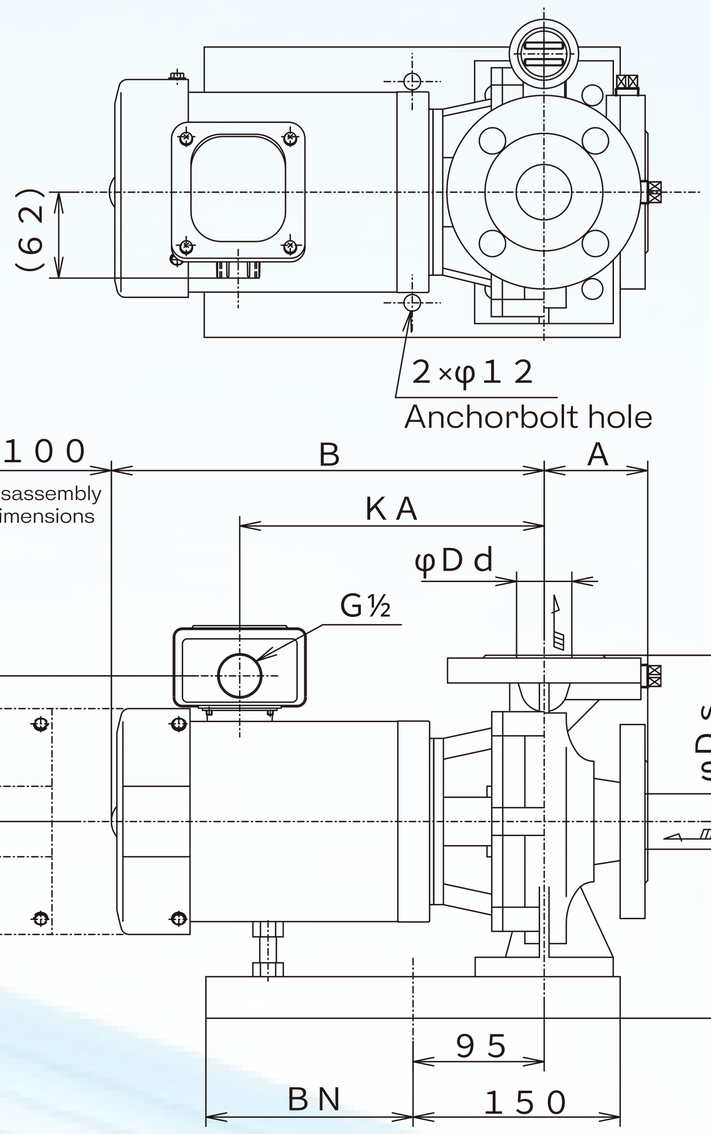
Component Parts List

Type	Mechanical Seal	O-ring (for casing)	O-ring (for priming)
AD2-32×32L5.4-e	H-16	G140	P22
AD2-32×32L5.75-e	H-16	G140	P22
AD2-32×32M51.5-e	H-20H	K184	P22
AD2-32×32M52.2-e	H-20H	K184	P22
AD2-40×40L5.75-e	H-16	G140	P22
AD2-40×40M51.5-e	H-20H	K184	P22
AD2-40×40M52.2-e	H-20H	K184	P22
AD2-50×40L51.5-e	H-20H	G140	P22
AD2-50×40M52.2-e	H-20H	K184	P22
AD2-50×40M53.7-e	H-20H	K184	P22

Type	Mechanical Seal	O-ring (for casing)	O-ring (for priming)
AD2-50×40H53.7-e	H-20H	K223	P22
AD3-50×40H55.5-e	H-25H-1	K223	P22
AD3-65×50L52.2-e	H-20H	G140	P22
AD3-65×50M53.7-e	H-20H	K184	P22
AD3-65×50H55.5-e	H-25H-1	K223	P22
AD3-65×50H57.5-e	H-25H-1	K223	P22
AD3-80×65L53.7-e	H-20H	K160	P22
AD3-80×65L55.5-e	H-25H-1	K160	P22
AD3-80×65M55.5-e	H-25H-1	K184	P22
AD3-80×65M57.5-e	H-25H-1	K184	P22

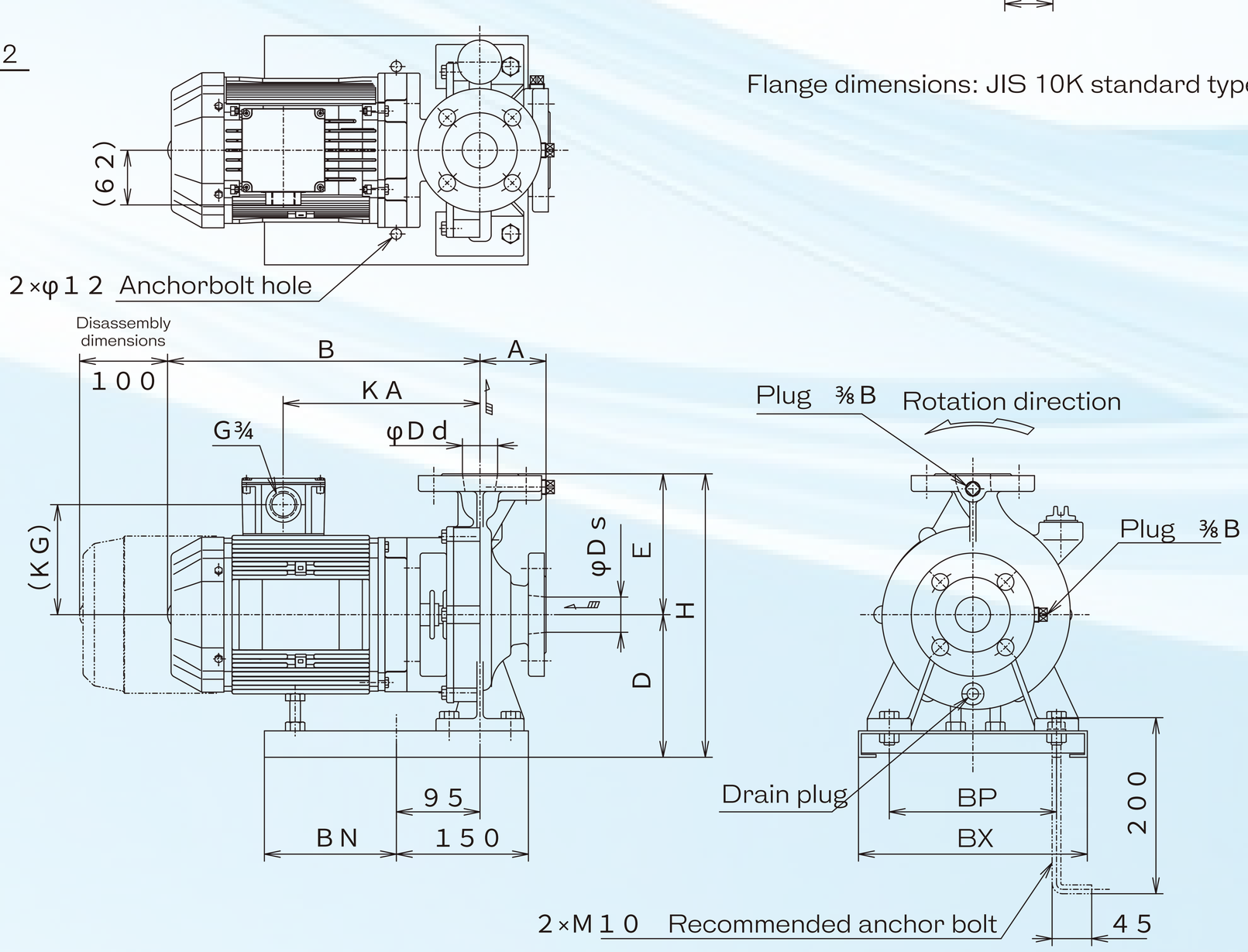
Pump Dimension

- **AD2-e** Fig. 1



Flange dimensions: JIS 10K standard type or equivalent

Fig. 2

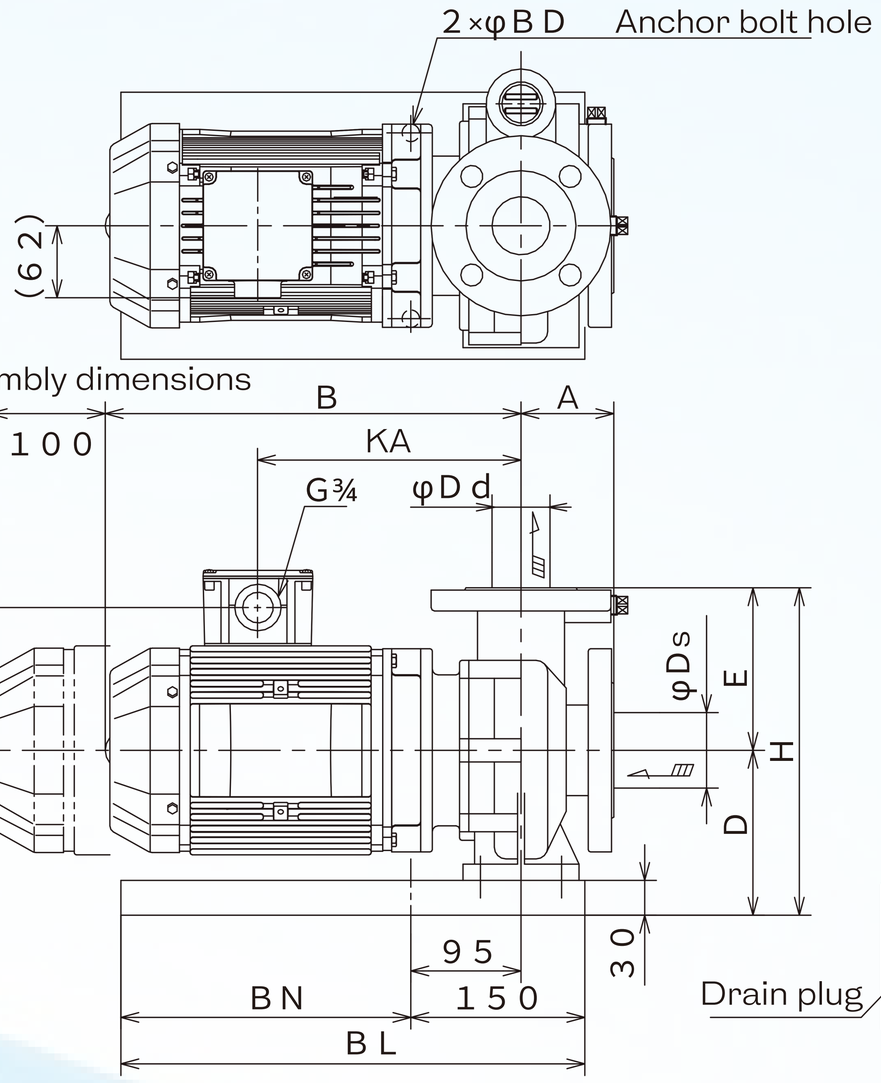


Flange dimensions: JIS 10K standard type or equivalent

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	AD2-32×32L5.4-e	0.4	1	75	305	142	120	262	227	103	150	160	210	29
		AD2-32×32L5.75-e	0.75	1	75	314	142	120	262	221	111	150	160	210	31
		AD2-32×32M51.5-e	1.5	2	75	350	162	160	322	219	123	185	190	260	37
		AD2-32×32M52.2-e	2.2	2	75	350	162	160	322	219	123	185	190	260	38
40	40	AD2-40×40L5.75-e	0.75	1	75	314	142	120	262	221	111	150	160	210	31
		AD2-40×40M51.5-e	1.5	2	75	350	162	160	322	219	123	185	190	260	37
		AD2-40×40M52.2-e	2.2	2	75	350	162	160	322	219	123	185	190	260	39
50	40	AD2-50×40L51.5-e	1.5	2	80	355	142	140	282	224	123	150	160	210	37
		AD2-50×40M52.2-e	2.2	2	80	350	162	160	322	219	123	185	190	260	45
		AD2-50×40M53.7-e	3.7	2	80	393	162	160	322	255	147	185	190	260	63
		AD2-50×40H53.7-e	3.7	2	80	398	190	180	370	260	147	185	190	260	66

Assembly drawing Dimension

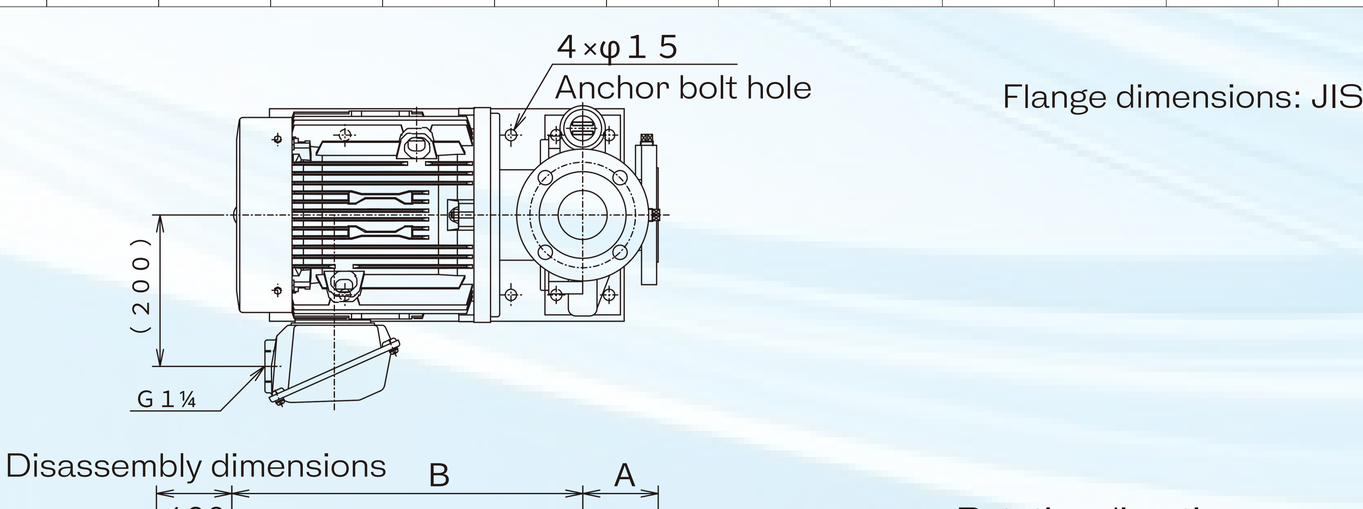
- **AD3-e (3.7kW or less)**



Flange dimensions: JIS 10K standard type or equivalent

Nominal diameter		Type	Output kW	Pump/Motor							Common base					Achor 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	AD3-65×50L52.2-e	2.2	80	359	142	140	282	228	123	15	400	250	160	230	55	4xM12	250	32
		AD3-65x50M53.7-e	3.7	80	402	162	160	322	264	147	12	335	185	190	260	45	2xM10	200	64
80	65	AD3-80×65L53.7-e	3.7	100	402	162	160	322	264	147	12	335	185	190	260	45	2xM10	200	61

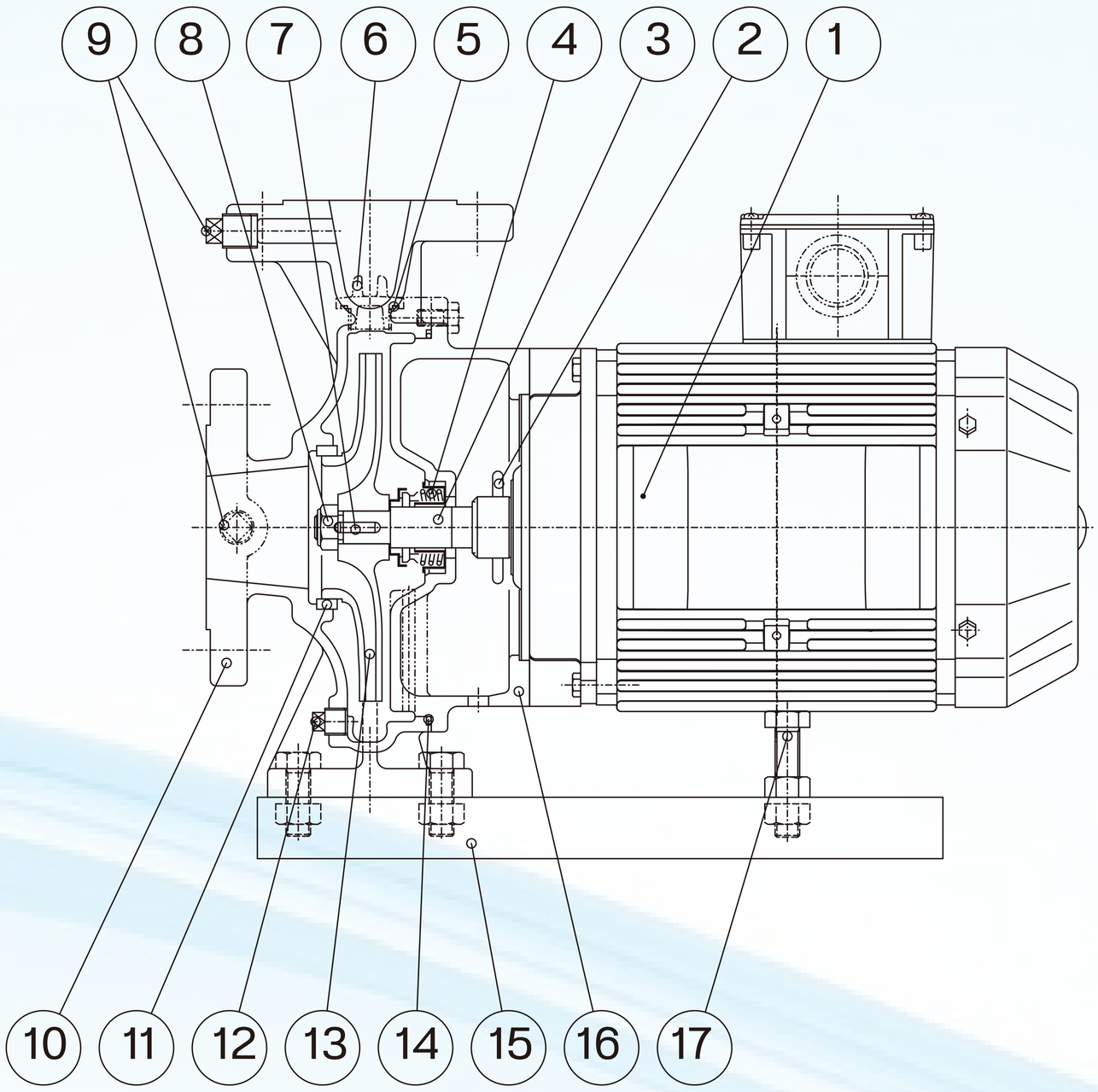
- **AD3-e (5.5kW or more)**



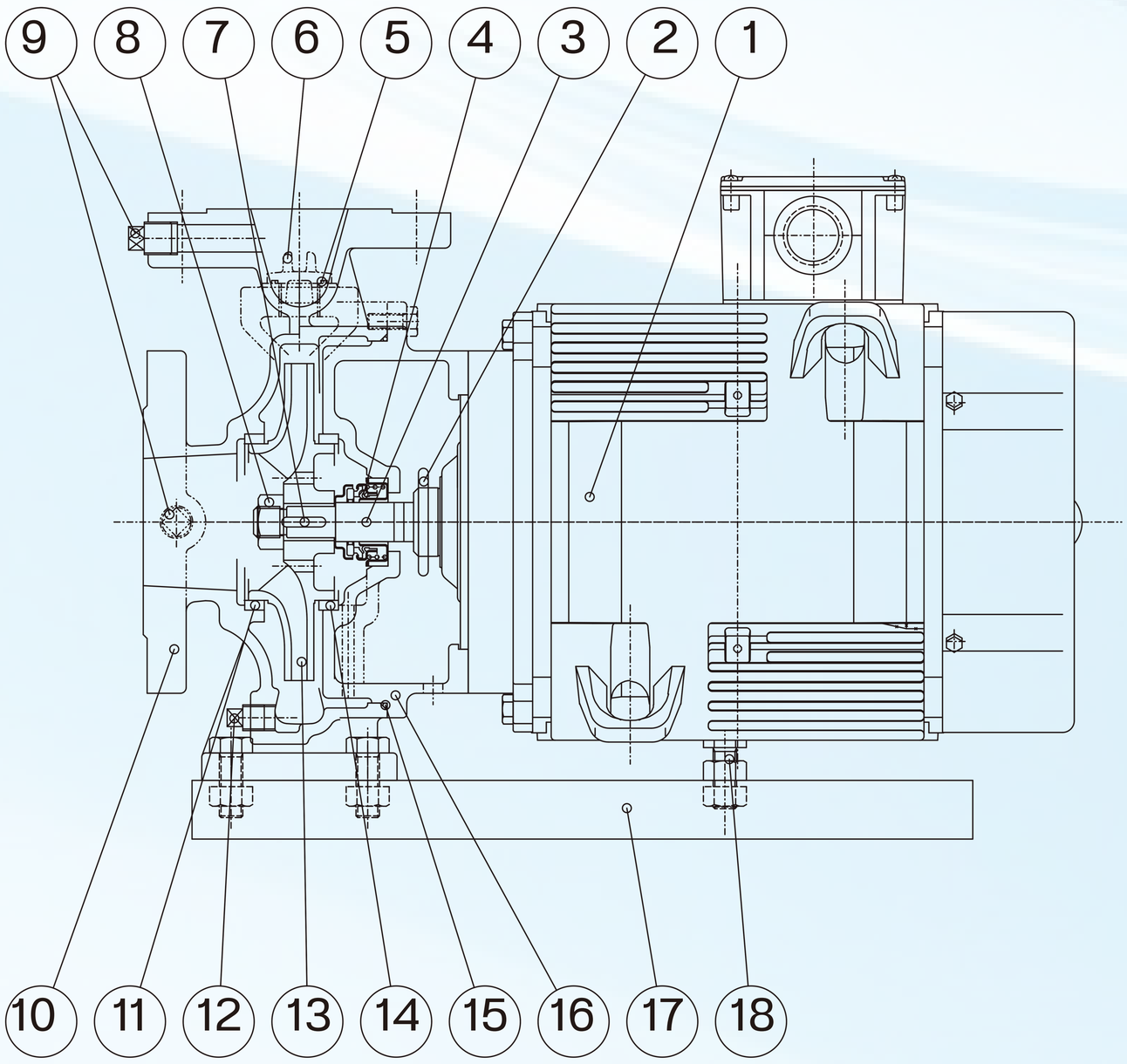
Flange dimensions: JIS 10K standard type or equivalent

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	AD3-50×40H55.5-e	5.5	80	466	210	180	390	190	260	79
65	50	AD3-65×50H55.5-e	5.5	100	466	210	180	390	212	282	82
		AD3-65×50H57.5-e	7.5	100	466	210	180	390	212	282	87
80	65	AD3-80×65L55.5-e	5.5	100	466	207	160	367	190	260	78
		AD3-80×65M55.5-e	5.5	100	466	210	180	390	212	282	80
		AD3-80×65M57.5-e	7.5	100	466	210	180	390	212	282	85

Sectional View



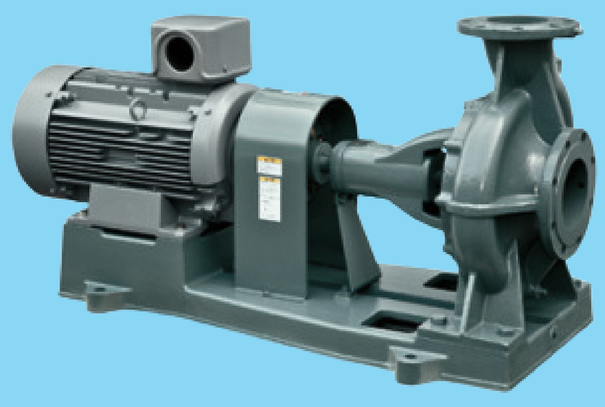
No.	Part name	Material
1	Motor	-
2	Deflector	CR
3	Motor shaft	Liquid contact part : SUS304
4	Mechanical seal	(Ceramic vs Carbon)
5	O-ring	NBR
6	Priming plug	CAC202
7	Key	SUS304
8	Impeller nut	SUS304
9	Plug	SWCH
10	Casing	FC200
11	Liner ring	CAC406
12	Plug	SWCH
13	Impeller	CAC406
14	O-ring	NBR
15	Frame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



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

ShinMaywa Centrifugal Pump

AC (2-poles)
ACF (4-poles)



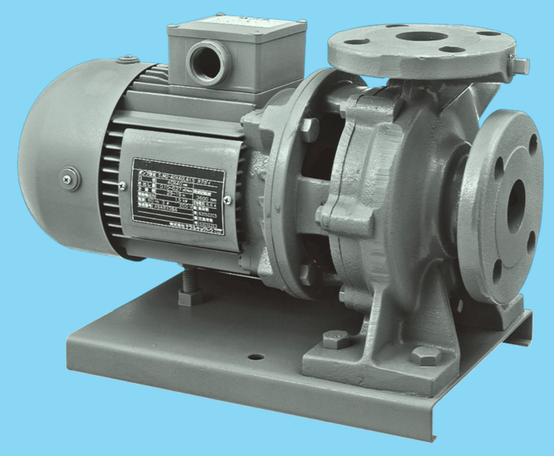
JIS standard(JISB8313) by referring internal standard ISO2858

End Suction
Direct coupled pump

Specification data		
Model	AC	ACF
Rate output (kW)	0.75-45	0.4-75
Suction Diameter (mm)	32-100 (Ø)	40-200 (Ø)
Discharge Diameter (mm)	32-80 (Ø)	32-150 (Ø)

※ Total suction head (20℃) : -6m , -5m for 100x80
※ Liquid Temperature : 0-80℃

AD



End Suction
Closed coupled pump

Specification data	
Rate output (kW)	0.4-7.5
Suction Diameter (mm)	32-80 (Ø)
Discharge Diameter (mm)	32-65 (Ø)

※ Total suction head (20℃) : -6m
※ Liquid Temperature : 0-80℃

ALD



In-Line
Closed coupled pump

Specification data	
Rate output (kW)	0.25-7.5
Diameter (mm)	25-100 (Ø)

※ Total suction head (20℃) : -6m
※ Liquid Temperature : 0-80℃

Other ShinMaywa Submersible Pump & Watertreatment equipment

Submersible Pump / Dry Pit pump



CNWX CNMJ-MT CN-MT NORUS CNT/CWT

Axial Flow Pump / Gate Pump



SD/SA SAH/SAH-L

Float Pump



FP

Dewatering Pump



BTR/BTR-S BUCF BU/BUK SN

Blower / Turbo Blower



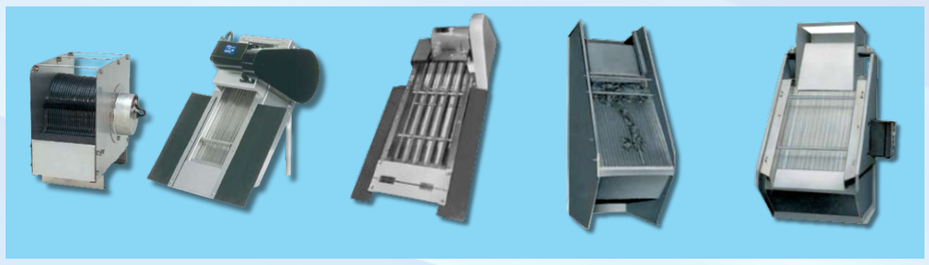
ARH ARS RB-H TURBOMAX

Submersible Mixer



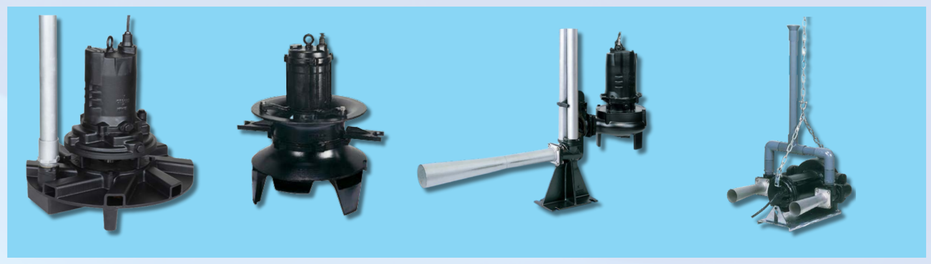
SM/SME SMM SML

Screen



BS VS S SB

Aerator/Ejector



JSA SJ JA JB

Float Switch



LC MS FV

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