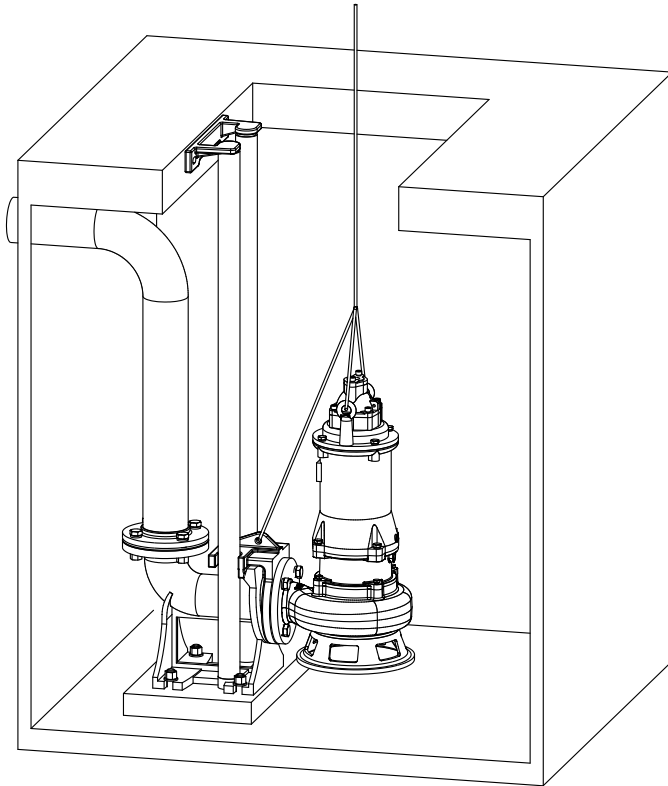




Coupling installation manual

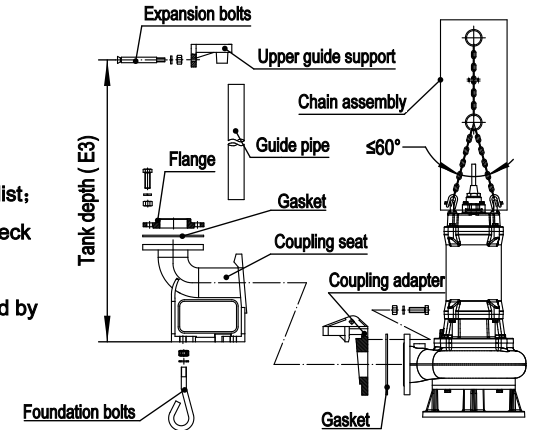


**ZHEJIANG FENGYUAN PUMP
INDUSTRY CO.,LTD.**

**Before install the coupling
please read this manual first**

Check components and parts

- Check if the components are all in readiness by list;
- If the accessory bag is not purchased, please check whether the relevant parts are prepared or not;
- Check all the parts if there is any damage caused by bumps.



Coupling list

Model	Materials	40-40 (PN6)	50-50 (PN6)	65-65 (PN6)	80-80 (PN6)	100-100 (PN6)	150-150 (PN6)
Coupling seat	Cast iron	40-40 (PN6)	50-50 (PN6)	65-65 (PN6)	80-80 (PN6)	100-100 (PN6)	150-150 (PN6)
Coupling adapter	Cast iron	40-40 (PN6)	50-50 (PN6)	65-65 (PN6)	80-80 (PN6)	100-100 (PN6)	150-150 (PN6)
Gasket	NBR	Φ130xΦ100xΦ40	Φ140xΦ110xΦ55	Φ160xΦ130xΦ70	Φ190xΦ150xΦ85	Φ210xΦ170xΦ100	Φ270xΦ225xΦ150
Bolt	Steel	4-M12×35	4-M12×35	4-M12×35	4-M16×45	4-M16×45	8-M16×65
Spring washer	Steel	4-Ø12	4-Ø12	4-Ø12	4-Ø16	4-Ø16	8-Ø16
Nut	Steel	/	/	/	/	/	8-M16
Flange	Cast iron	1.5"	2"	2.5"	3"	4"	/
Gasket	NBR	Φ130xΦ100xΦ40	Φ140xΦ110xΦ55	Φ160xΦ130xΦ70	Φ190xΦ150xΦ85	Φ210xΦ170xΦ100	/
Bolt	Steel	4-M12x50	4-M12x50	4-M12x50	4-M16x55	4-M16x55	/
Spring washer	Steel	4-Φ12	4-Φ12	4-Φ12	4-Φ16	4-Φ16	/
Nut	Steel	4-M12	4-M12	4-M12	4-M16	4-M16	/
Upper guide support	Cast iron	40-40 (PN6)	50-50 (PN6)	65-65 (PN6)	80-80 (PN6)	100-100 (PN6)	150-150 (PN6)
Lifting bolt	Steel	/	/	/	/	/	M16
Reserved hole for Foundation bolts		80×80×270	80×80×270	80×80×270	80×80×270	100×100×350	100×100×350
Guide Pipe (self-prepared)	size	1"	1"	1"	1.5"	1.5"	1.5"
	length	Ø32×2.5 (E3)-150	Ø32×2.5 (E3)-20	Ø32×2.5 (E3)-10	Ø48×3 (E3)-20	Ø48×3 (E3)-20	Ø48×3 (E3)-410
accessory bag (option) Including Foundation bolts, Expansion bolt,Chain assembly		TOPJ-01	≤1.5kW: TOPJ-02 ≥2.2kW: TOPJ-03	TOPJ-03	TOPJ-03	≤7.5kW: TOPJ-04 ≥11kW: TOPJ-05	≤22kW: TOPJ-06 30~45kW: TOPJ-07

Model	Materials	150-150(PN10)	200-200(PN10)	250-250(PN10)	300-300(PN10)	400-400(PN10)
Coupling seat	Cast iron	150-150(PN10)	200-200(PN10)	250-250(PN10)	300-300(PN10)	400-400(PN10)
Coupling adapter	Cast iron	150-150(PN10)	200-200(PN10)	250-250(PN10)	300-300(PN10)	400-400(PN10)
Gasket	NBR	285xΦ240xΦ150	Φ340xΦ295xΦ200	Φ395xΦ350xΦ250	Φ445xΦ400xΦ300	Φ565xΦ515xΦ400
Bolt	Steel	8-M20×80	8-M20×80	12-M20×80	12-M20×100	16-M24×100
Spring washer	Steel	8-Ø20	8-Ø20	12-Ø20	12-Ø20	16-Ø24
Nut	Steel	8-M20	8-M20	12-M20	12-M20	16-M24
Flange	Cast iron	/	/	/	/	/
Gasket	NBR	/	/	/	/	/
Bolt	Steel	/	/	/	/	/
Spring washer	Steel	/	/	/	/	/
Nut	Steel	/	/	/	/	/
Upper guide support	Cast iron	150-150(PN10)	200-200(PN10)	250-250(PN10)	300-300(PN10)	400-400(PN10)
Lifting bolt	Steel	M16	M16	M16	M18	M18
Reserved hole for Foundation bolts		100×100×350	100×100×350	100×100×350	100×100×350	100×100×350
Guide Pipe (self-prepared)	size	1.5"	1.5"	1.5"	2"	2"
	length	Ø48×3 (E3)-410	Ø48×3 (E3)-460	Ø48×3 (E3)-480	Ø60×3.5 (E3)-590	Ø60×3.5 (池深E3)-790
accessory bag (option) Including Foundation bolts, Expansion bolt,Chain assembly		≤22kW: TOPJ-06 30~45kW: TOPJ-07	≤22kW: TOPJ-06 30~45kW: TOPJ-08 55~75kW: TOPJ-10	≤22kW: TOPJ-06 30~45kW: TOPJ-09 55~75kW: TOPJ-010	30~45kW: TOPJ-09 55~75kW: TOPJ-10	30~45kW: TOPJ-09 55~75kW: TOPJ-10

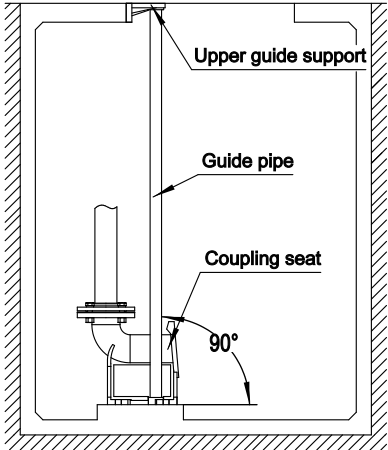
accessory bag list

Model	Coupling	Accessory		
		Foundation bolts	Expansion bolts	Chain assembly
TOPJ-01	40-40	4-M12×220	2-M10	Ø4×5m
TOPJ-02	50-50(≤1.5kW)	4-M16×220	2-M12	Ø4×5m
TOPJ-03	50-50(≥2.2kW), 65-65, 80-80	4-M16×220	2-M12	Ø5×5m
TOPJ-04	100-100(≤7.5kW)	4-M20×300	2-M12	Ø5×5m
TOPJ-05	100-100(≥11kW)	4-M20×300	2-M12	Ø6×5m
TOPJ-06	150-150 (≤22kW)	4-M20×300	3-M14	Ø6×5m
TOPJ-07	150-150 (30~45kW)	4-M20×300	3-M14	Ø8×5m
TOPJ-08	200-200 (≤22kW), 250-250 (≤22kW)	4-M24×300	3-M14	Ø6×5m
TOPJ-09	200-200 (30~45kW), 250-250 (30~45kW) 300-300 (30~45kW)	4-M24×300	3-M14	Ø8×5m
TOPJ-10	200-200 (55~75kW), 250-250 (55~75kW) 300-300 (55~75kW), 400-400 (55~75kW)	4-M24×300	3-M14	Ø10×5m

Installation steps

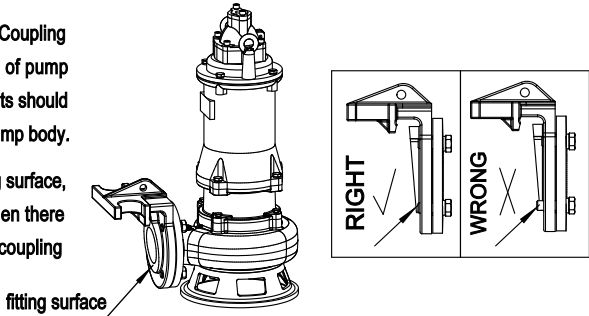
1. Install the coupling seat on the ground (or on the base), fasten it with foundation bolts.
Install the guide pipe on the coupling seat;
Install the upper guide support on the wall, fasten it with expansion bolts, at the same time compact the guide support;

Attention: the surface of ground (or the base) to install the coupling seat should be smooth and horizontal.
Installation position of upper guide support and coupling seat should be calculated, to make sure the guide pipe to be perpendicular.



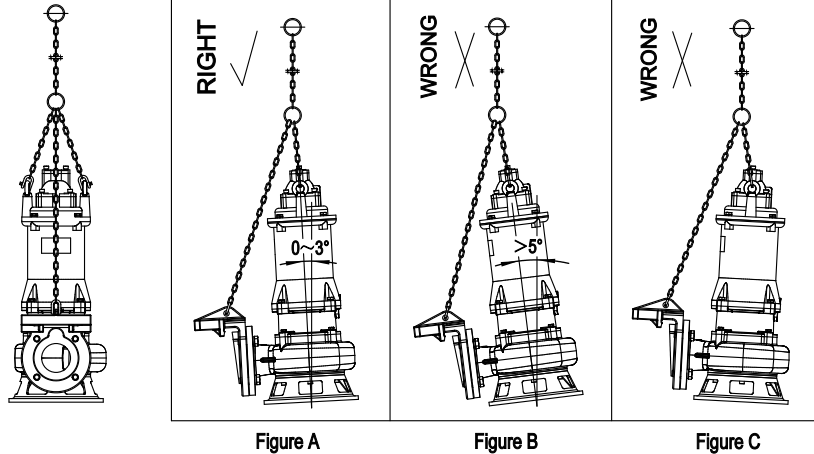
2. Install the coupling adapter on the pump body. if Coupling ≤100-100, bolts should be installed from the side of pump body to coupling adapter. if coupling ≥150-150, bolts should be installed from the side of coupling adapter to pump body.

Attention: bolt should not be exceed over the fitting surface, otherwise it will touch coupling seat. Then there will be gap between coupling seat and coupling adapter, which causes water leakage.



3. Install chain (or rope) on the pump, and adjust obliquity of pump refer to Figure A.

Attention: Obliquity shouldn't be bigger than 5°, as shown in Figure B.
The outlet shouldn't be bend up, as shown in Figure C.



4. Use electric hoist or hoisting machine to put pump slowly down through guide pipe, the coupling adapter and coupling seat will be fitting without any gap automatically at last.

Attention: When it is the first time to put pump down, please check if there's any gap between coupling adapter and coupling seat. if there's gap, it shows that there's something on the contact surface or the obliquity of pump is not adjusted well (refer to Step2), the obliquity should be adjusted again.
When it is the first time to put pump down, please lift the pump to see if it can be lifted successfully. if it is stuck, it shows that the obliquity of pump is not adjusted well (refer to Step2), the obliquity should be adjusted again.
Electric hoist or hoisting machine which is used to hang the pump should be in the middle of two guide pipe, to make sure that the pump is vertical down.

