

面对复杂多变的工矿环境，凯程致力于
水工业流体技术和环保产业开发制造，
提供优质产品、技术和工程的全面系统解决方案。

Facing the complex and changable industrial environment,
KaiCheng is committed to studying industrial fluid technology
and developing environmental protection industry.
We devote ourself to providing high quality products,
technology and a whole set solutions in engineering.

工业流体输送专家

Experts in Water industry liquid transportation



FY型液下泵 FY TYPE UNDER-WATER PUMPS

产品说明书 Product specification



FY 型液下泵 FY type under-water pump



■ 产品简介及特点 Brief introduction and features

- FY 型液下泵系立式单级液下离心泵，是我公司融合国外先进技术经改造设计而生产的新型泵。
- FY 型液下泵取消了机械密封，解决了其它泵因机械密封容易磨损而经常维修的烦恼，使该泵具有无泄漏、使用寿命长、节约泵的运行成本、提高工作效率等特点。
- FY 泵采取独特的离心式叶轮，供输送不含固体颗粒等清洁的介质，振动小，噪音低、效率高。

●FY series are vertical single-stage under-water centrifugal pumps, which are designed and manufactured by our company, on the basis of foreign developed technology.

●FY series are canceled mechanical seal, so they won't make for problems because of mechanical seal like other pumps, and resolved the troubles of maintain. They have many advantages, such as non-leakage, long using life, saving cost, improved the work efficiency and so on.

●FY series adopt special centrifugal impeller, which are used to transport the clean medium without solid grain, so they are provided with lightly librate, low noise and high efficiency.

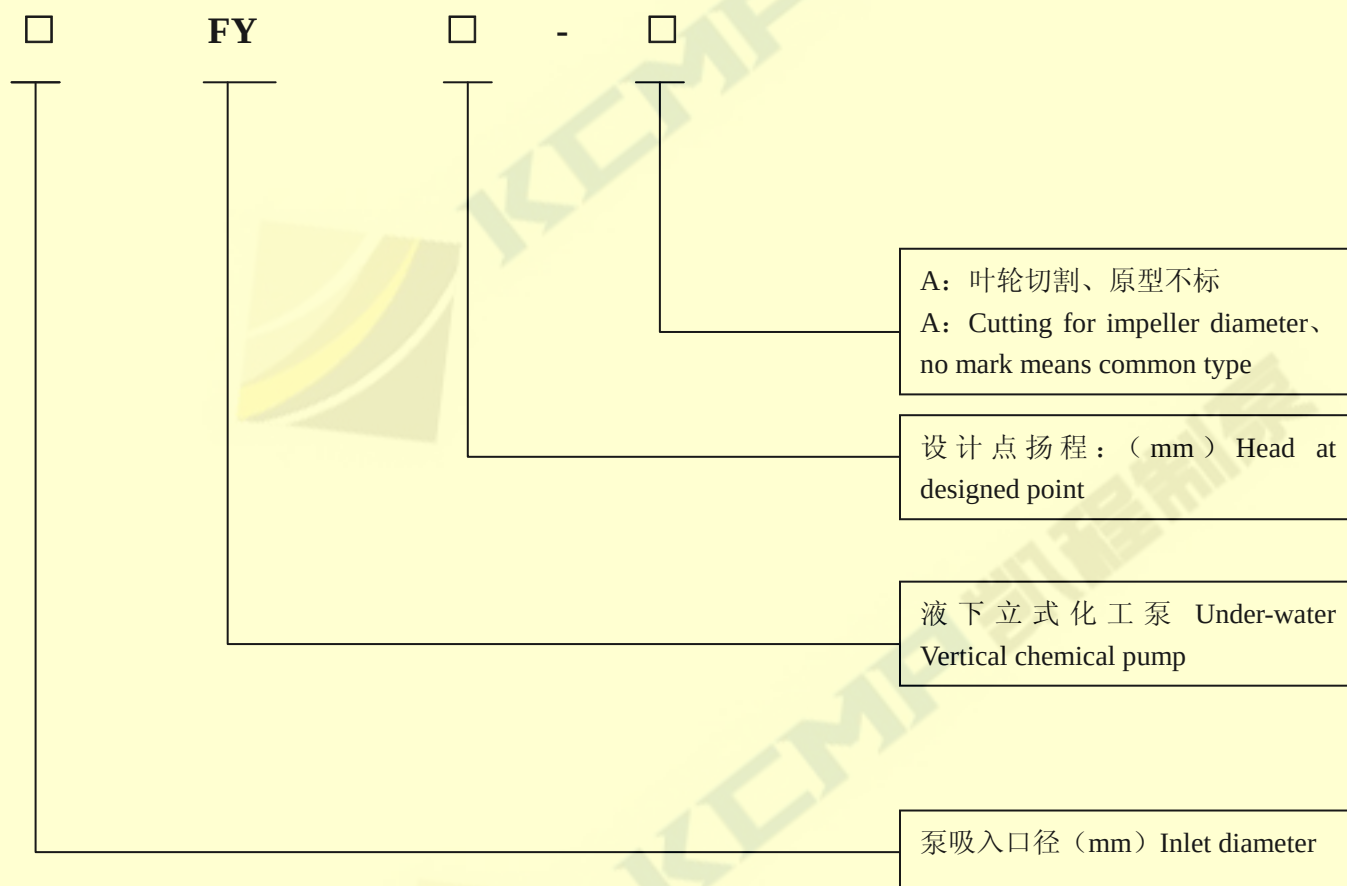
■主要用途 Applications

- 广泛用于石油、化工、制药、造纸、冶金等行业。
- They can be widely used in oil,chemical industry,medicine,paper making,metallurgy and so on.

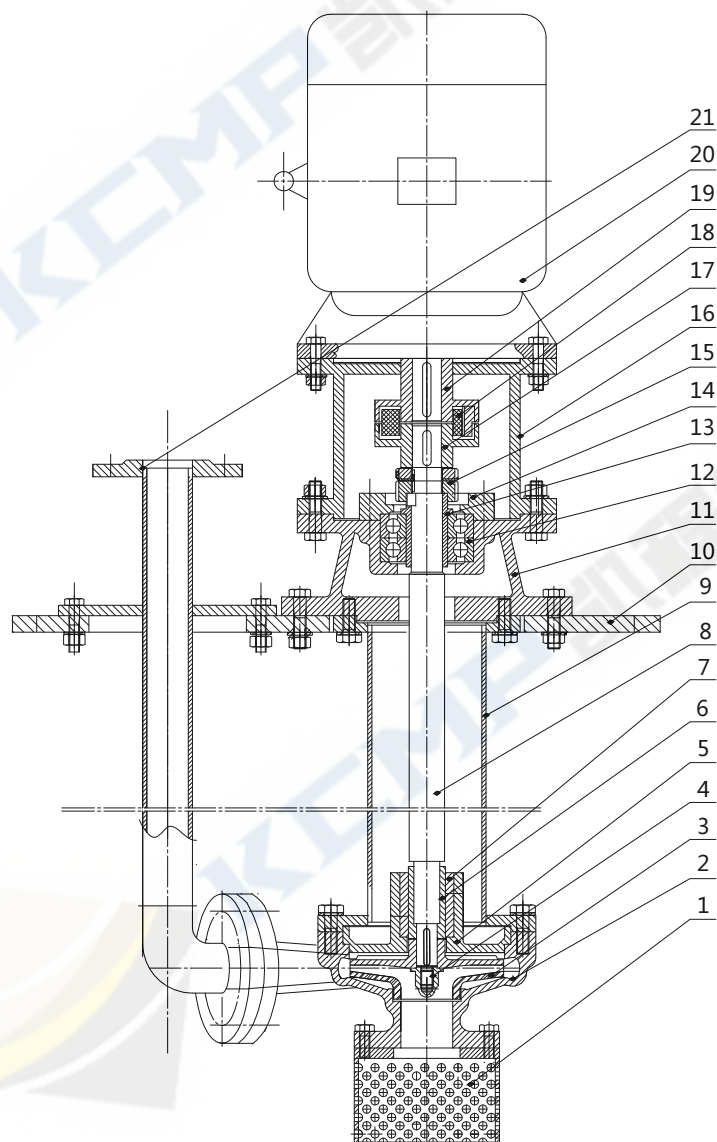
■工作条件 Operating conditions

- | | | |
|-------------------------------|----------------------------|--|
| ●介质温度: -20~+140℃ | ●环境温度: ≤+40℃ | ●流量: 2~240m ³ /h |
| ●扬程: 6~50m | ●口径: 25-200mm | ●系统最大工作压力: ≤1.6Mpa |
| ●Medium temperature:-20~+140℃ | ●Ambient temperature:≤+40℃ | ●Capality: 2~240m ³ /h |
| ●Head: 6~50m | ●Caliber:25~200mm | ●System Max Operating Pressure:≤1.6MPa |

■型号意义 Designation meaning



FY型泵结构图 Type FY Structural drawing



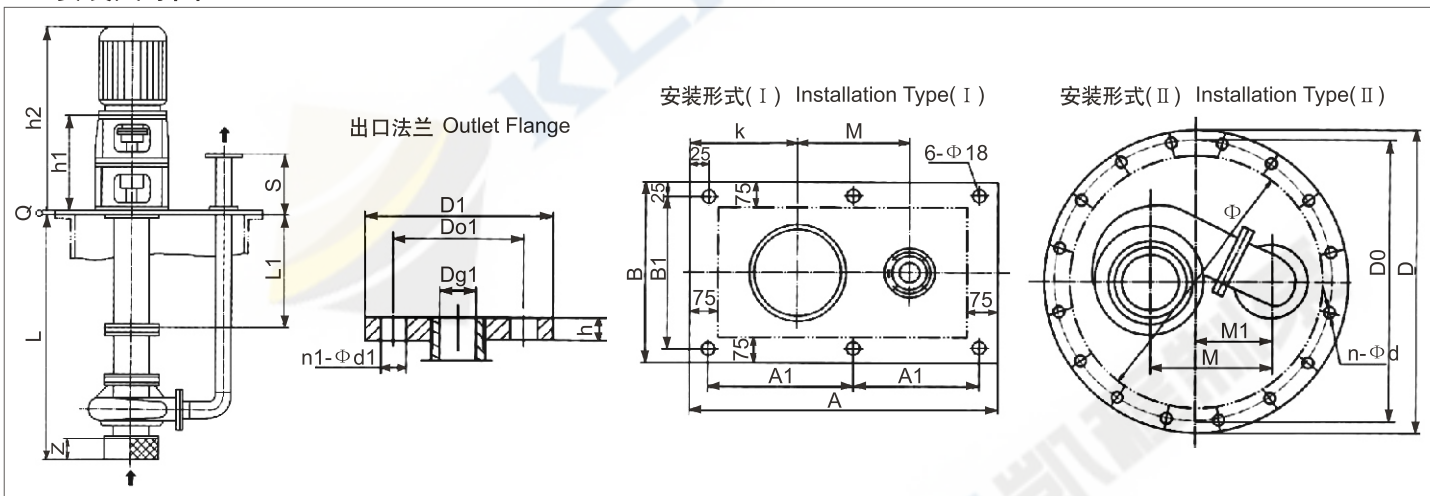
N0.	名称 / 材质		Name / Material	
1	过滤网	不锈钢	Filter	Stainless Steel
2	泵体	不锈钢/铸铁	Pump Casing	Stainless Steel / Cast Iron
3	叶轮	不锈钢/铸铁	Impeller	Stainless Steel / Cast Iron
4	叶帽	不锈钢	Nut	Stainless Steel
5	泵盖	不锈钢/铸铁	Pump Cover	Stainless Steel / Cast Iron
6	轴套	不锈钢/铸铁	Shaft Sleeve	Stainless Steel / Cast Iron
7	轴承	石墨	Bearings	Graphite
8	泵轴	不锈钢/铸铁	Pump Shaft	Stainless Steel / Cast Iron
9	支撑管	不锈钢/碳钢	Supporting Tube	Stainless Steel / Carbon Steel
10	安装板	碳钢	Installation Plate	Carbon Steel
11	主轴承座	铸铁	Main Bearing Seat	Cast Iron
12	滚动轴承	轴承钢	Rolling Bearing	Bearing Steel
13	轴承套	碳钢	Bearing Sleeve	Carbon Steel
14	轴承压盖	铸铁	Bearing Cover	Cast Iron
15	锁紧螺母	碳钢	Lock Nut	Carbon Steel
16	电机架	铸铁	Motor Frame	Cast Iron
17	联轴器	铸铁	Coupler	Cast Iron
18	六角块	耐磨胶	Hexagonal Pieces	Wear-resisting Rubber
19	电机联轴器	铸铁	Motor Coupler	Cast Iron
20	电机	Y2/YB2	Motor	Y2/YB2
21	出液管	不锈钢/碳钢	Outlet Parts	Stainless Steel / Carbon Steel

备注：图中实线表示泵转速：2960rpm，虚线表示泵转速：1480rpm，点划线表示泵转速：980rpm。
Note: Real line refers to pump speed: 2960rpm, Broken line refers to pump speed: 1480rpm, Point-line refers to pump speed: 980rpm.

性能参数表 Performance Parameters

Type 泵型号	Q 流量 Capacity (m³/h) (L/s)		Head (m) 扬程	r/min speed 转速	kW Power 功率	Outlet Diameter (mm) 出口直径	Length (m) 液下长度
25FY-16	1.98 3.6 3.96	0.55 1 1.1	19.2 16 12.8	2960	1.5	25	0.5~2.5
25FY-16A	1.80 3.27 3.6	0.50 0.91 1.00	15.8 13.2 10.6	2960	1.5	25	0.5~2.5
25FY-25	1.98 3.6 3.96	0.55 1 1.1	30 25 20	2960	2.2	25	0.5~2.5
25FY-25A	1.80 3.27 3.6	0.50 0.91 1.0	24.8 20.7 16.6	2960	2.2	25	0.5~2.5
25FY-41	1.98 3.6 3.96	0.55 1 1.1	49.2 41 32.8	2960	4	25	0.5~2.5
25FY-41A	1.80 3.27 3.60	0.5 0.91 1.0	40.8 34 27.2	2960	3	25	0.5~2.5
40FY-16	3.96 7.2 7.92	1.10 2 2.2	18.8 15.7 12.6	2960	2.2	32	0.5~2.5
40FY-16A	3.6 6.55 7.2	1.00 1.82 2.00	15.6 13 10.4	2960	1.5	32	0.5~2.5

安装尺寸图 Installation Dimensions Drawing



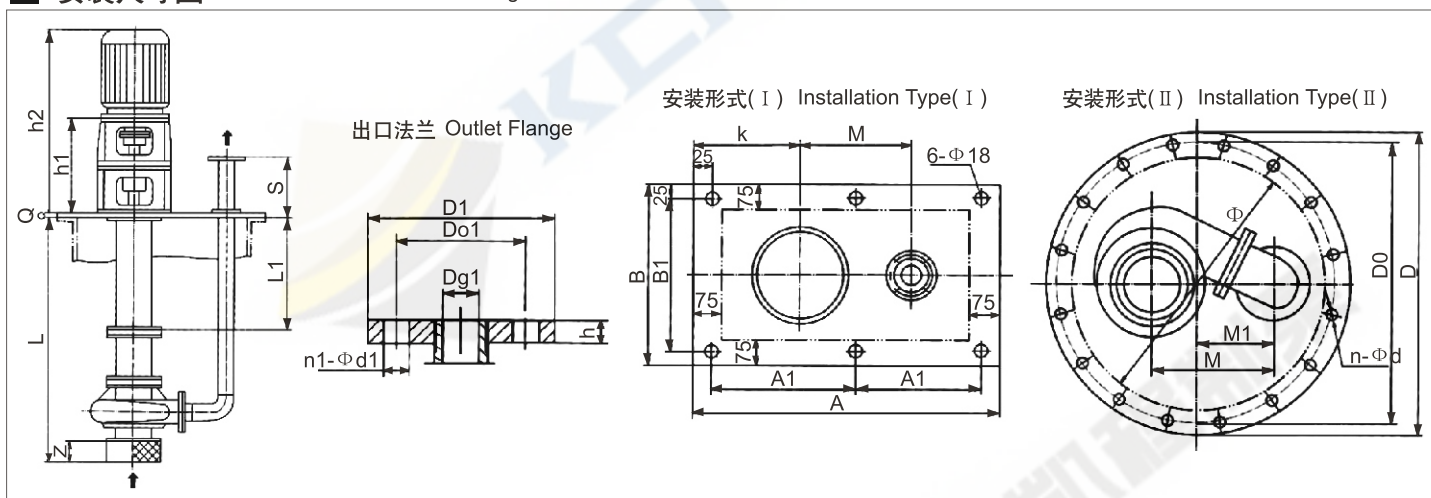
安装尺寸表 Installation Dimensions

Type 泵型号	尺寸(毫米) Dimensions (mm)																				轴承架 Bearing Frame	Z
25FY-16	Φ	M	M1	L1	L	Dg1	D1	D01	h	S	n1-Φd1	D	D0	Q	n-Φd	A	A1	B	B1	K		
25FY-25	Φ 450	225	162	1200	500 ~2500	Φ 25	Φ 115	Φ 85	14	109	4-Φ 14	Φ 580	Φ 540	25	12-Φ 18	600	275	430	380	237	01	72
25FY-41																						
40FY-16						Φ 32	Φ 135	Φ 100	16		4-Φ 18											82

性能参数表 Performance Parameters

Type	Q 流量 Capacity		Head (m)	r/min speed	kW Power	Outlet Diameter (mm)	Length (m)
泵型号	(m³/h)	(L/s)	扬程	转速	功率	出口直径	液下长度
40FY-26	3.96 7.2 7.92	1.10 2 2.2	30.6 25.5 20.4	2960	3	32	0.5~2.5
40FY-26A	3.6 6.55 7.2	1.00 1.82 2.00	25.2 21 16.8	2960	3	32	0.5~2.5
40FY-40	3.96 7.2 7.92	1.10 2 2.2	48 40 32	2960	5.5	32	0.5~2.5
40FY-40	1.98 3.6 3.96	0.55 1.0 1.1	12 10 8	1480	1.1	32	0.5~2.5
40FY-40A	3.6 6.55 7.2	1.00 1.82 2.00	39.2 32.7 26.1	2960	5.5	32	0.5~2.5
40FY-40A	1.8 3.3 3.6	0.5 0.92 1.0	9.8 8.2 6.5	1480	1.1	32	0.5~2.5
50FY-16	7.92 14.4 15.8	2.20 4 4.4	18.8 15.7 12.6	2960	3	40	0.5~2.5
50FY-16A	7.2 13.1 14.4	2.00 3.64 4	15.6 13 10.4	2960	3	40	0.5~2.5

安装尺寸图 Installation Dimensions Drawing



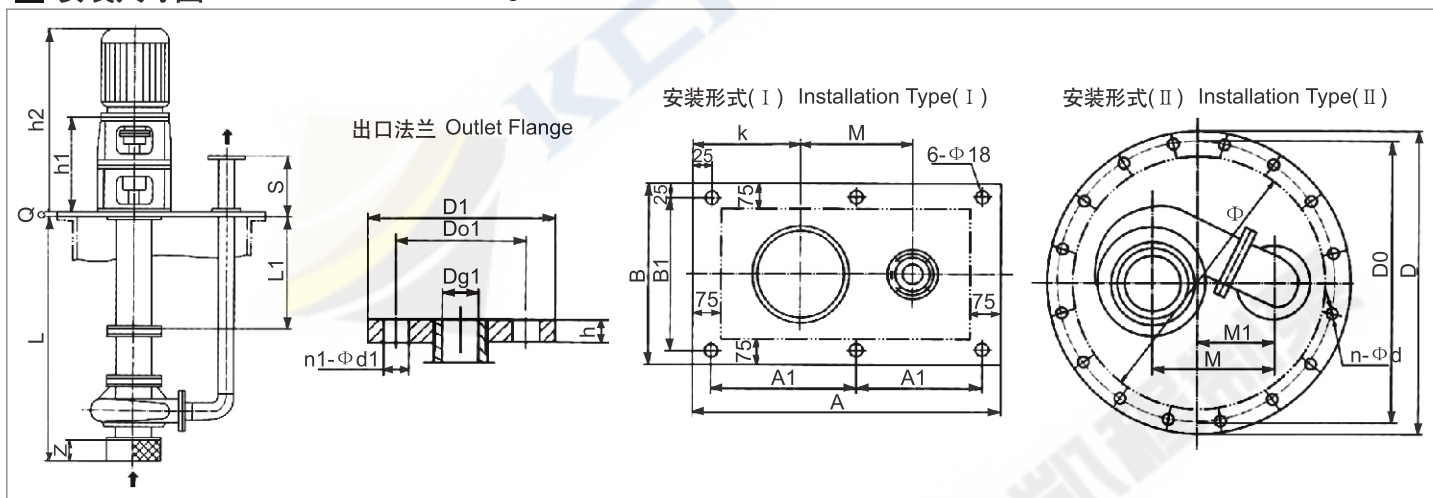
安装尺寸表 Installation Dimensions

Type	尺寸(毫米) Dimensions (mm)																			
泵型号	Φ	M	M1	L1	L	Dg1	D1	Do1	h	S	n1-Φd1	D	D0	Q	n-Φd	A	A1	B	B1	K
40FY-26																				
40FY-40	Φ450	225	162	1200	500 ~2500	Φ32	Φ135	Φ100	16	109	4-Φ18	Φ580	Φ540	25	12-Φ18	600	275	430	380	237
50FY-16						Φ40	Φ145	Φ110												
																				01
																				92

性能参数表 Performance Parameters

Type	Q 流量 Capacity		Head (m)	r/min speed 转速	Power kW 功率	Outlet Diameter (mm) 出口直径	Length (m) 液下长度
泵型号	(m³/h)	(L/s)	扬程				
50FY-25	7.92 14.4 15.8	2.20 4 4.4	30 25 20	2960	4	40	0.5~2.5
50FY-25A	7.20 13.1 14.4	2.00 3.64 4	24.8 20.7 16.6	2960	3	40	0.5~2.5
50FY-40	7.92 14.4 15.8	2.20 4 4.4	48 40 32	2960	7.5	40	0.5~2.5
50FY-40	3.96 7.2 7.9	1.1 2.0 2.2	12 10 8	1480	1.5	40	0.5~2.5
50FY-40A	7.2 13.1 14.4	2.0 3.64 4.0	39.6 33 26.4	2960	5.5	40	0.5~2.5
50FY-40A	3.6 6.6 7.2	1.0 1.83 2.0	9.9 8.2 6.6	1480	1.5	40	0.5~2.5
65FY-16	15.8 28.8 33.1	4.4 8 9.2	18.8 15.7 12.6	2960	4	50	0.75~2.5
65FY-16A	14.4 26.2 30.2	4.0 7.28 8.40	15.6 13 10.4	2960	3	50	0.75~2.5

安装尺寸图 Installation Dimensions Drawing



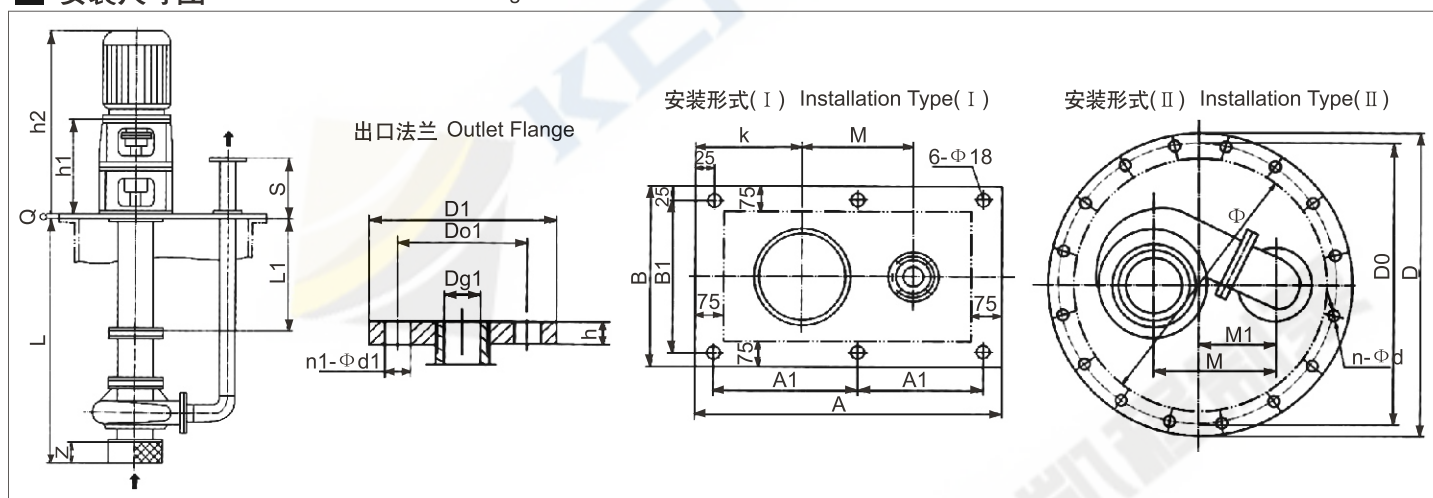
安装尺寸表 Installation Dimensions

Type	尺寸 (毫米) Dimensions (mm)																					
泵型号	φ	M	M1	L1	L	Dg1	D1	Do1	h	S	n1- φ d1	D	D0	Q	n- φ d	A	A1	B	B1	K	轴承架 Bearing Frame	Z
50FY-25	φ 450	225	162	1200	500 ~2500	φ 40	φ 145	φ 110	16	109	4- φ 18	φ 580	φ 540	25	12- φ 18	600	275	430	380	237	01	92
50FY-40																						
65FY-16																						

性能参数表 Performance Parameters

Type	Q 流量 Capacity		Head (m)	r/min speed 转速	kW Power 功率	Outlet Diameter (mm) 出口直径	Length (m) 液下长度
泵型号	(m³/h)	(L/s)	扬程				
65FY-25	15.8	4.4	30	2960	5.5	50	0.75~2.5
	28.8	8	25				
	33.1	9.2	20				
65FY-25A	14.4	4.0	24.8	2960	5.5	50	0.75~2.5
	26.2	7.28	20.7				
	30.2	8.40	16.6				
65FY-40	15.8	4.4	47.4	2960	11	50	0.75~2.5
	28.8	8	39.5				
	33.1	9.2	31.6				
65FY-40	7.9	2.2	11.8	1480	2.2	50	0.75~2.5
	14.4	4.0	9.8				
	16.5	4.6	7.9				
65FY-40A	14.4	4.0	39.2	2960	11	50	0.75~2.5
	26.2	7.28	32.7				
	30.2	8.4	26.2				
65FY-40A	7.2	2.0	9.8	1480	2.2	50	0.75~2.5
	13.1	3.6	8.2				
	15.1	4.2	6.5				
80FY-15	29.7	8.25	18	2960	7.5	65	1~2.5
	54	15	15				
	64.8	18	12				
80FY-15A	27	7.5	14.9	2960	7.5	65	1~2.5
	49.1	13.65	12.4				
	58.9	16.38	9.9				

安装尺寸图 Installation Dimensions Drawing



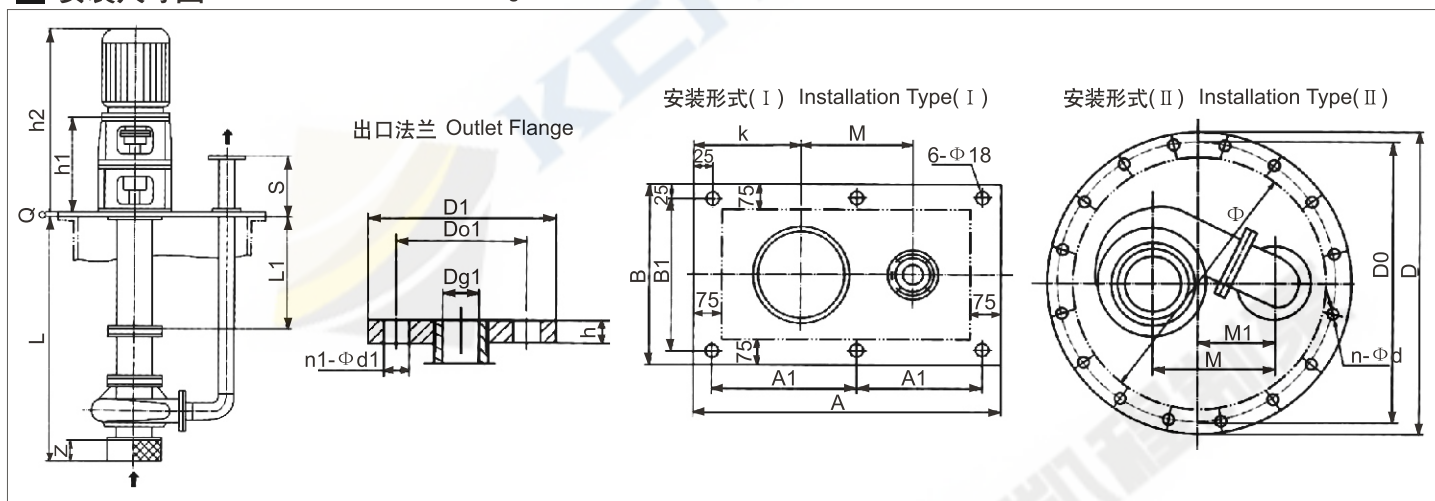
安装尺寸表 Installation Dimensions

Type	尺 寸 (毫米) Dimensions (mm)																																				
泵型号	φ	M	M1	L1	L	Dg1	D1	Do1	h	S	n1-φd1	D	D0	Q	n-φd	A	A1	B	B1	K	轴承架 Bearing Frame	Z															
65FY-25	φ 580	308	210	1300	750 ~2500	φ 50	φ 160	φ 125	16	120	4-φ 18	φ 700	φ 650	30	16-φ 18	750	350	510	460	277	02																
65FY-40																																					117
80FY-15					1000 ~2500	φ 65	φ 180	φ 145	18																												

性能参数表 Performance Parameters

Type 泵型号	Q 流量 Capacity (m³/h) (L/s)		Head (m) 扬程	r/min speed 转速	kW Power 功率	Outlet Diameter (mm) 出口直径	Length (m) 液下长度
80FY-24	29.7 54 64.8	8.25 15 18	28.8 24 19.2	2960	11	65	1~2.5
80FY-24A	27 49.1 58.9	7.5 13.65 16.38	23.9 19.9 15.9	2960	11	65	1~2.5
80FY-38	29.7 54 64.8	8.25 15 18	45.6 38 30.4	2960	18.5	65	1~2.5
80FY-38	14.8 27 32.4	4.1 7.5 9.0	11.4 9.5 7.6	1480	3.0	65	1~2.5
80FY-38A	27 49.1 58.9	7.5 13.64 16.36	37.8 31.5 25.2	2960	15	65	1~2.5
80FY-38A	13.5 24.5 29.5	3.75 6.8 8.2	9.5 7.8 6.3	1480	2.2	65	1~2.5
100FY-23	55.4 100.8 120	15.4 28 33.6	27 22.5 18	2960	18.5	80	1~2.5
100FY-23A	50.5 91.8 110	14 25.5 30.6	22.3 18.6 14.9	2960	15	80	1~2.5

安装尺寸图 Installation Dimensions Drawing



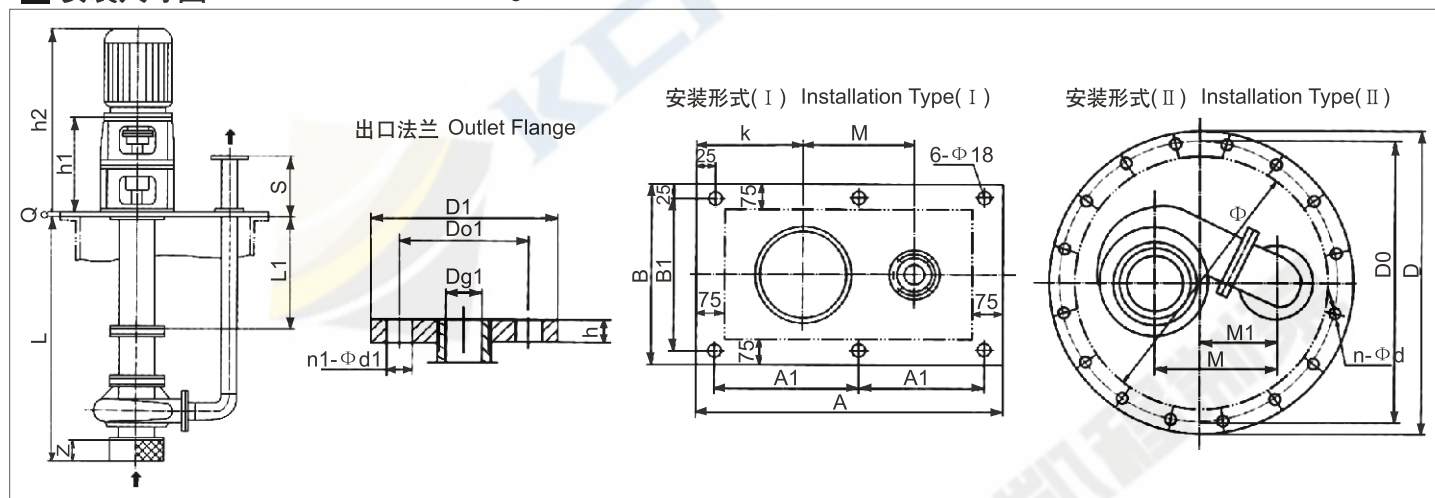
安装尺寸表 Installation Dimensions

Type 泵型号	尺寸(毫米) Dimensions (mm)																				轴承架 Bearing Frame	Z
80FY-24																						137
80FY-38	Φ 580	308	210	1300	1000 ~2500	Φ 65	Φ 180	Φ 145	18													
100FY-23						Φ 80	Φ 195	Φ 160	20													128

性能参数表 Performance Parameters

Type	Q 流量 Capacity		Head (m)	r/min speed	Power kW	Outlet Diameter (mm)	Length (m)
泵型号	(m³/h)	(L/s)	扬程	转速	功率	出口直径	液下长度
100FY-37	55.4 100.8 120	15.4 28 33.6	43.8 36.5 29.2	2960	22	80	1~2.5
100FY-37	27.7 50.4 60	7.7 14 16.7	11 9.1 7.3	1480	4.0	80	1~2.5
100FY-37A	50.5 91.8 110	14 25.5 30.6	36.2 30.2 24.2	2960	22	80	1~2.5
100FY-37A	25.2 45.9 55	7.0 12.8 27.5	9.1 7.5 6.1	1480	3.0	80	1~2.5
150FY-22	104.4 190.8 226.8	29 53 63	26.4 22 17.6	2960	30	125	1~2.5
150FY-22A	95.4 173.5 209	26.5 48.2 58	21.8 18.2 14.6	2960	22	125	1~2.5

安装尺寸图 Installation Dimensions Drawing



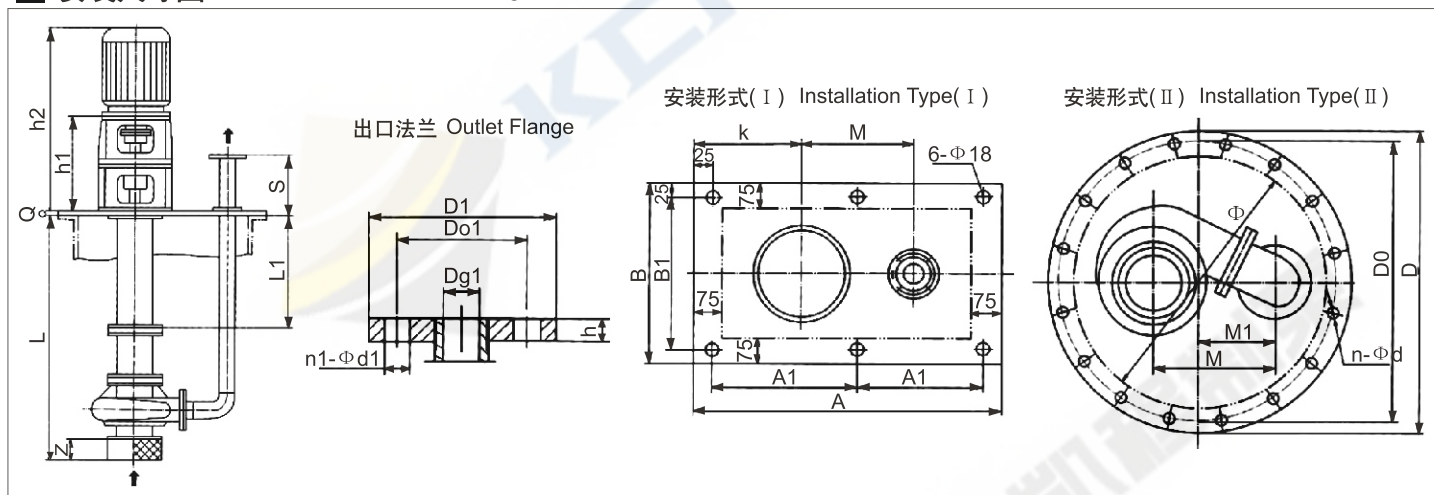
安装尺寸表 Installation Dimensions

Type	尺寸 (毫米) Dimensions (mm)																			
泵型号	Φ	M	M1	L1	L	Dg1	D1	Do1	h	S	n1-Φd1	D	D0	Q	n-Φd	A	A1	B	B1	K
100FY-37	Φ 580	308	210	1300	1000~2500	Φ 80	Φ 195	Φ 160	20	120	4-Φ 18	Φ 700	Φ 650	30	16-Φ 18	750	350	510	460	277
150FY-22	Φ 800	385	250	1200	1000~2500	Φ 125	Φ 270	Φ 220	22	250	8-Φ 18	Φ 1000	Φ 950	35	20-Φ 25	1100	525	720	670	415

性能参数表 Performance Parameters

Type	Q 流量 Capacity		Head (m)	r/min speed 转速	Power kW 功率	Outlet Diameter (mm) 出口直径	Length (m) 液下长度
泵型号	(m³/h)	(L/s)	扬程				
150FY-35	104.4	29	41.6	1480	45	125	1~2.5
	190.8	53	34.7				
	226.8	63	27.8				
150FY-35	69.6	19.3	18.5	980	15	125	1~2.5
	127	35.3	15.4				
	151	41.9	12.4				
150FY-35A	95.4	26.5	34.6	1480	37	125	1~2.5
	173.5	48.2	28.8				
	209	58	23.1				
150FY-35A	63.6	17.7	15.4	980	11	125	1~2.5
	115.7	32.1	12.8				
	139.3	38.7	10.2				
200FY-21	198	55	25.2	1480	45	150	1~2.5
	360	100	21				
	396	110	16.8				
200FY-21	132	36.7	11.2	980	15	150	1~2.5
	240	66.7	9.3				
	264	73.3	7.5				
200FY-21A	180	50	20.9	1480	37	150	1~2.5
	327	91	17.4				
	360	100	13.9				
200FY-21A	120	33.3	9.3	980	11	150	1~2.5
	218	60.6	7.7				
	240	66.7	6.2				

安装尺寸图 Installation Dimensions Drawing



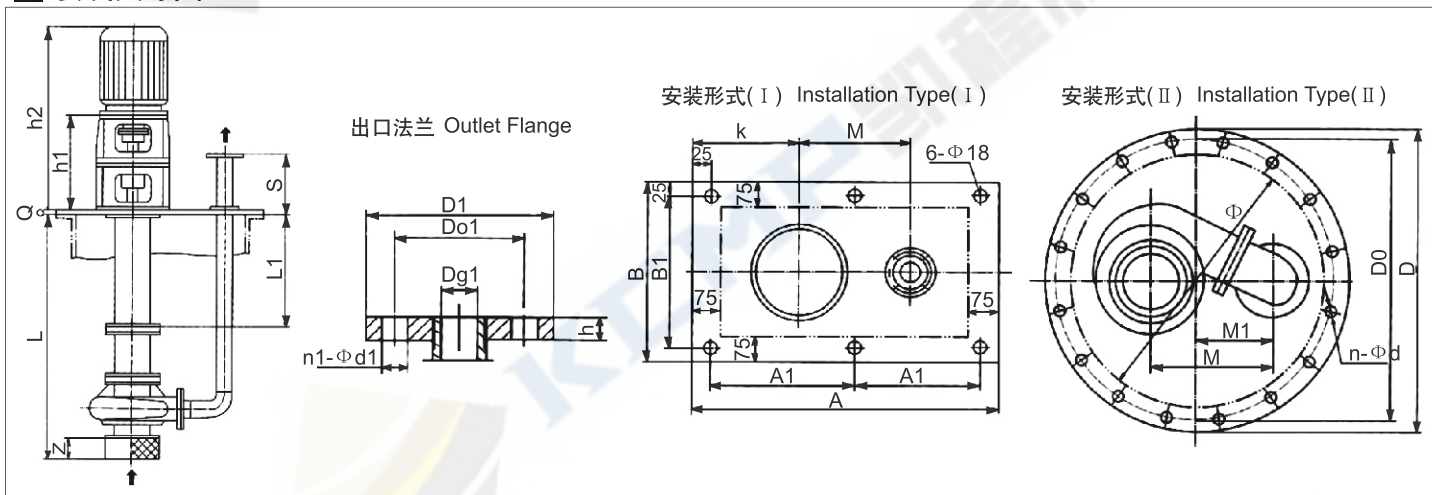
安装尺寸表 Installation Dimensions

Type	尺寸 (毫米) Dimensions (mm)																					
泵型号	φ	M	M1	L1	L	Dg1	D1	Do1	h	S	n1-φd1	D	D0	Q	n-φd	A	A1	B	B1	K	轴承架 Bearing Frame	Z
150FY-35	φ 800	385	250	1200	1000 ~2500	φ 125	φ 270	φ 220	22	250	8-φ 18	φ 1000	φ 950	35	20-φ 25	1100	525	720	670	415	03	164
200FY-21						φ 150	φ 300	φ 250				198										

性能参数表 Performance Parameters

Type	Q 流量 Capacity		Head (m)	r/min speed 转速	Power kW 功率	Outlet Diameter (mm) 出口直径	Length (m) 液下长度
泵型号	(m³/h)	(L/s)	扬程				
200FY-34	198	55	40.2	1480	75	150	1~2.5
	360	100	33.5				
	396	110	26.8				
200FY-34	132	36.7	17.9	980	22	150	1~2.5
	240	66.7	14.9				
	264	73.3	11.9				
200FY-34A	180	50	32.4	1480	55	150	1~2.5
	327	91	27				
	360	99	21.6				
200FY-34A	120	33.3	14.4	980	18.5	150	1~2.5
	218	60.6	12				
	240	66.7	9.6				

安装尺寸图 Installation Dimensions Drawing



安装尺寸表 Installation Dimensions

Type	尺 寸 (毫米) Dimensions (mm)																					
泵型号	φ	M	M1	L1	L	Dg1	D1	Do1	h	S	n1-φ d1	D	D0	Q	n-φ d	A	A1	B	B1	K	轴承架 Bearing Frame	Z
200FY-34	φ 800	385	250	1200	1000 ~2500	φ 150	φ 300	φ 250	22	250	8-φ 18	φ 1000	φ 950	35	20-φ 25	1100	525	720	670	415	03	198

轴承架 Bearing Frame	电机机座号 Motor seat Number	90S	90L	100L	112M	132S	160M	160L	180M	200L	225M 4P	250M 4P	280S 4P	
01	h ₁	395		405		431								
	h ₂	655	680	725	745	826								
02	h ₁			477		497	502			530				
	h ₂			797	817	892	992	1037	1062	1195				
03	h ₁							629			669			
	h ₂							1164	1189	1294	1374	1459	1529	

■ 备注：未标电机极数均为2极电机。
Remark: motors not marked with the number of poles are all 2-pole motors.

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