



YJG型 立式单级单吸离心清水泵

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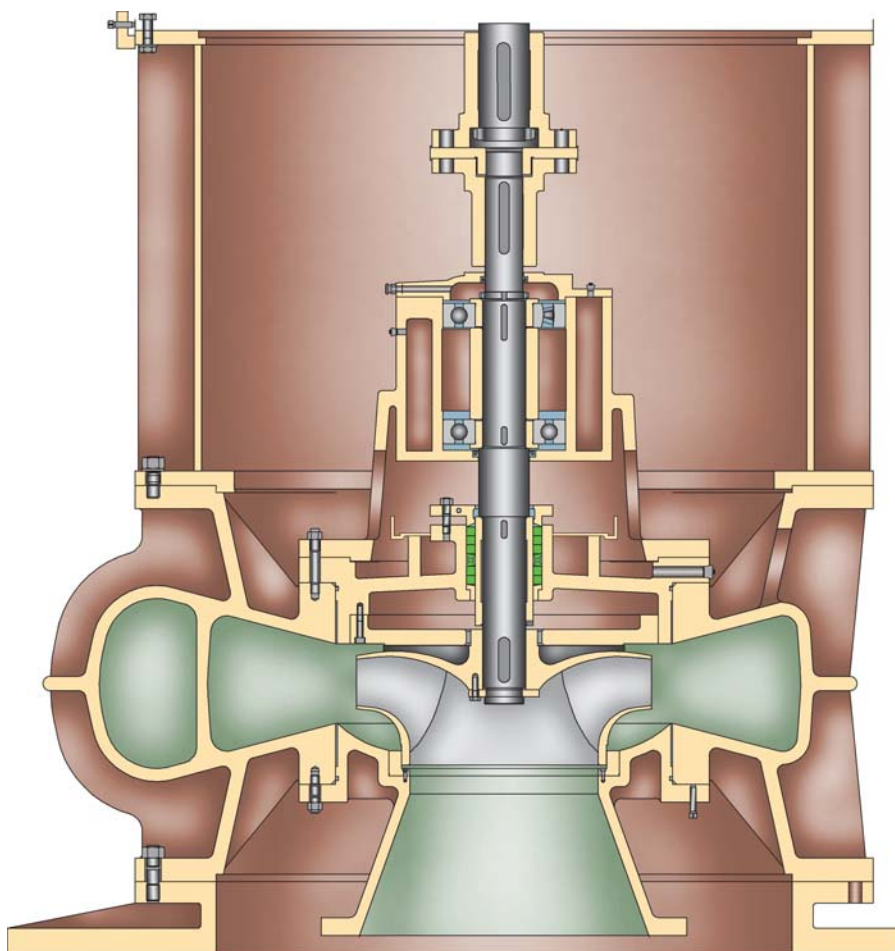
Type YJG Single-stage Single-suction Vertical Centrifugal Pump

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YJG型立式单级单吸离心清水泵

Type YJG Single-stage Single-suction Vertical Centrifugal Pump

概述

YJG型立式单级单吸涡壳式离心清水泵，系YJ型泵的结构改进型，适用于大型火力发电厂、工矿、城市和农田建设的给排水工程。用来输送不含固体颗粒的清水或物理及化学性质类似于清水的其它液体，被输送液体的温度不超过60℃。

参数范围

流量Q 1.0~6.8m³/s
扬程H 13.1~63m

型号说明

YJG44P左—22JA
YJG—立式单级单吸涡壳式离心清水泵；
44—吸入口径（mm）被25除所得的数，即44表示泵吸入口径为1100mm；
P—表示泵底座结构的改变；
左—从电机往泵看，叶轮顺时针方向旋转；逆时针方向旋转时不加标示；
22—泵比转数被10除所得的数；
J—泵转速改变标志；
A—叶轮直径改变标志，用A、B、C……表示，叶轮模型区别用I、II……表示。

结构型式

该泵为立式安装，吸入口垂直向下，吐出口水平伸出。机组安装为泵、电机直联安装型式；密封为填料密封，轴承采用滚动轴承，叶轮的轴向固定采用哈夫锁环结构，联轴器采用可调型刚性联接，叶轮为平衡肋结构，轴向力由电动机承受。

旋转方向

从电动机往泵看，泵逆时针方向旋转。如要求泵顺时针方向旋转时，在原型号中加“左”以示区别，性能参数保持不变，如：（YJG36左—××）。

主要零件材质

叶轮：ZG310-570/ZG1Cr13Ni1/ZG0Cr13Ni4Mo。
密封环：ZG2Cr13
轴：45
泵壳：铸铁

成套范围

成套供应泵、电动机和底座。

用户在订货时，请注明叶轮材质。若对泵、电动机有特殊要求时，可与本公司协商有关技术要求。

General

Type YJG pump is single-stage single-suction vertical volute centrifugal clear water pump. It is more advanced than type YJ pump in construction. It is widely used in power stations for handling circulating water and used for mining drainage as well as water supply & drainage of civil engineering and farmlands. It is provided for delivering clear water without solid particles or other liquid which is physically and chemically similar to clear water. The highest temperature of the liquid is not allowed more than 60℃.

Performance range

Capacity Q: 1.0~6.8m³/s
Head H: 13.1~63m

The description of pump type

For example YJG44P left—22JA
YJG— Large scale vertical single-stage single-suction volute centrifugal pump.
44—The number obtained from the inlet diameter divided by 25 (inlet diameter is 1100mm).
P—The pump bedplate construction is changed.
Left—The rotation of impeller is clockwise looking from the motor to the pump. No indication when the rotation of impeller is counter clockwise.
22—The number obtained from the pump specific speed divided by 10.
J—The rated speed of the pump is changed.
A— Outer diameter of impeller is changed, indicating A, B, C……. Impeller model changes, indicating I, II…….

Construction

The pump is vertically installed with the inlet vertical downward and the outlet horizontal extending. The pump and the motor are directly connected and mounted on one foundation. The seal usually uses packing seal. The pump uses rolling bearings. The impeller is fixed on shaft by half locked rings. Couplings are adjustable rigid one. The impeller has construction of balancing rib. The pump axial force is carried by the motor.

The direction of rotation

The rotation of pump rotor is counter clockwise looking from the motor to the pump. Indicating "left" in the pump type if you require the rotation of pump rotor is clockwise. Both performance data are the same.

The material of main parts of pump

Impeller: Cast steel ZG310-570, ZG1Cr13Ni1 or ZG0Cr13Ni4Mo.
Sealing Ring: Cast steel ZG2Cr13.
Shaft: High-quality carbon steel 45.

Casing Cover: Cast iron.

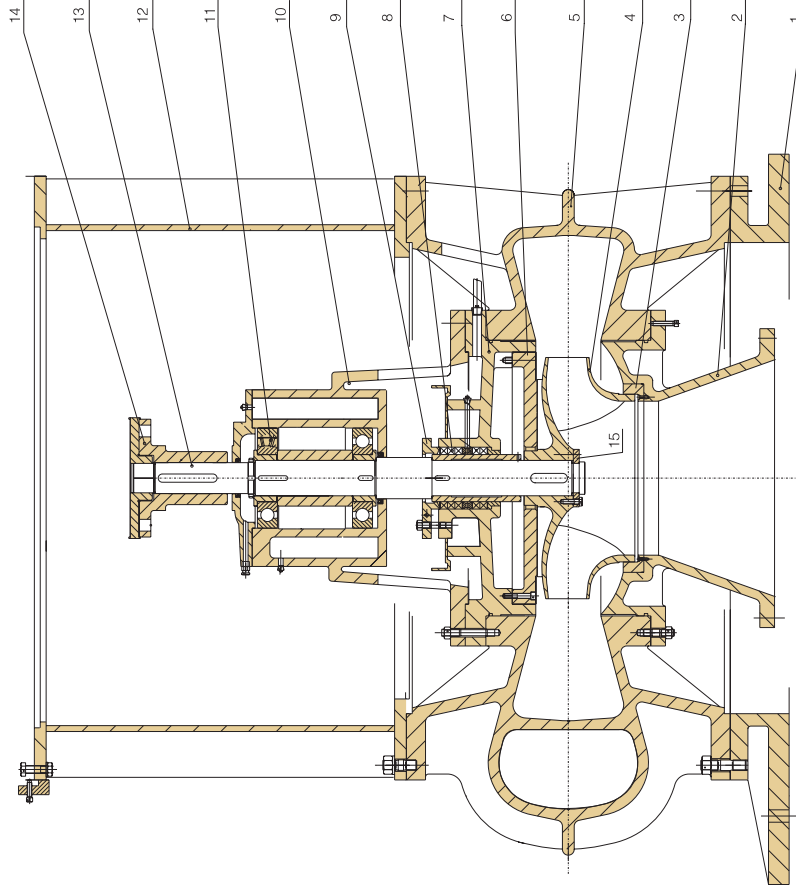
Complete provision range

pump, motor and bedplate.

Please give indication of the material of impeller in contract. If you have any special requirement, please contact us without hesitation.

YJG型 泵结构图 (结构一)

Sectional Arrangement Figure for Type YJG Pump (Fig. 1)

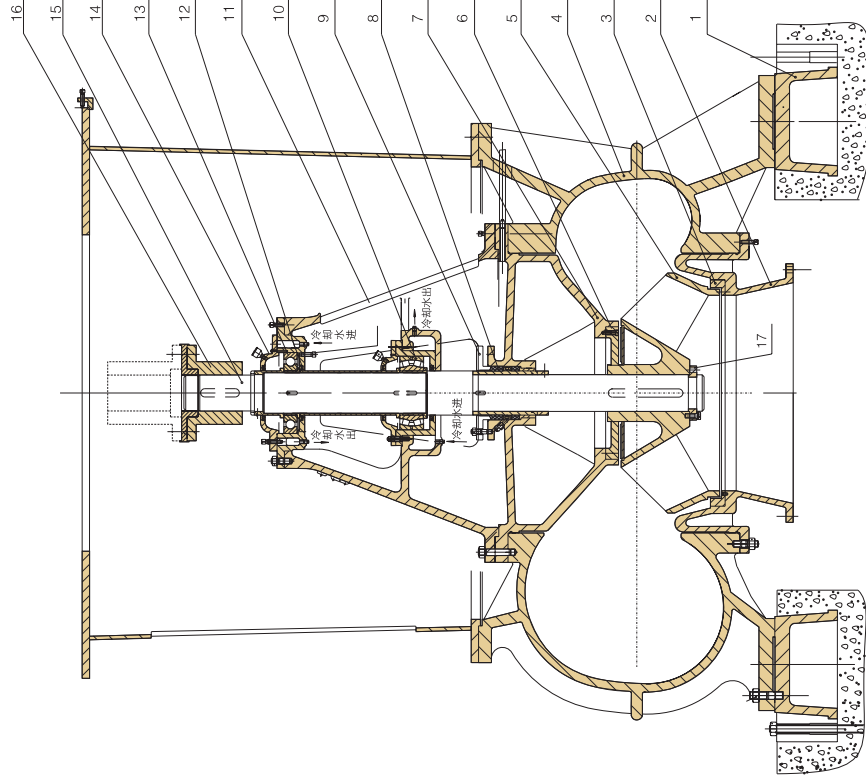


泵主要零件 Main Parts of Pump

- | | |
|-----------|--------------------------|
| 1. 底座 | Bedplate |
| 2. 泵盖(下) | Pump Cover(lower) |
| 3. 密封环 | Wearing Ring |
| 4. 叶轮 | Impeller |
| 5. 泵体 | Casing |
| 6. 护盖 | Protection Gland |
| 7. 泵盖(上) | Pump Cover(upper) |
| 8. 填料 | Packing |
| 9. 填料压盖 | Packing Gland |
| 10. 轴承支座 | Bearing Support |
| 11. 深沟球轴承 | Deep-groove Ball Bearing |
| 12. 电机支座 | Motor Support |
| 13. 主轴 | Shaft |
| 14. 联轴器 | Coupling |
| 15. 哈夫锁环 | Half Locked Ring |

YJG型 泵结构图 (结构二)

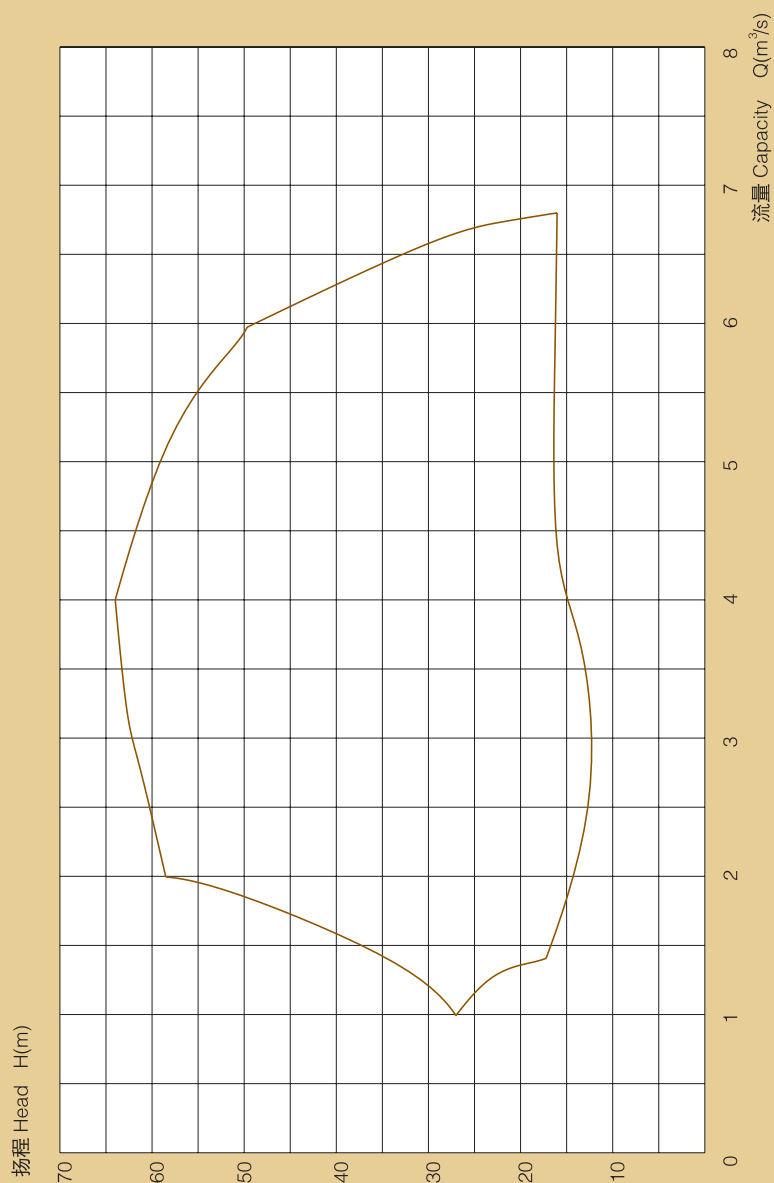
Sectional Arrangement Figure for Type YJG Pump (Fig.2)



泵主要零件 Main Parts of Pump

- | | |
|-----------|--------------------------|
| 1. 底座 | Bedplate |
| 2. 泵盖(下) | Pump Cover(lower) |
| 3. 密封环 | Wearing Ring |
| 4. 泵体 | Casing |
| 5. 叶轮 | Impeller |
| 6. 护盖 | Protection Gland |
| 7. 泵盖(上) | Pump Cover(upper) |
| 8. 填料 | Packing |
| 9. 填料压盖 | Packing Gland |
| 10. 调心轴承 | Adjust Bearing |
| 11. 轴承支座 | Bearing Support |
| 12. 轴承体 | Bearing Box |
| 13. 深沟球轴承 | Deep-groove Ball Bearing |
| 14. 轴承端盖 | Bearing End Cover |
| 15. 轴 | Shaft |
| 16. 联轴器 | Coupling |
| 17. 哈夫锁环 | Half Locked Ring |

YJG型泵系列型谱图 Performance Charts



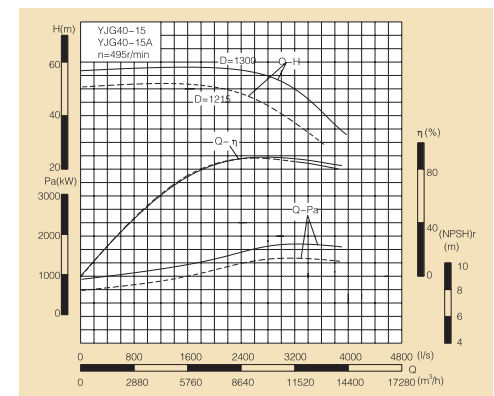
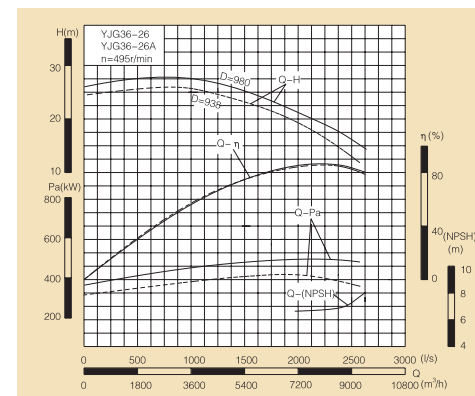
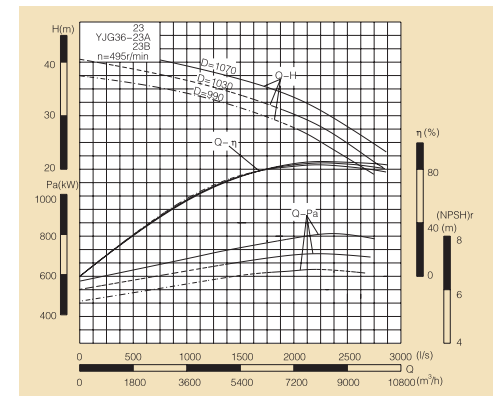
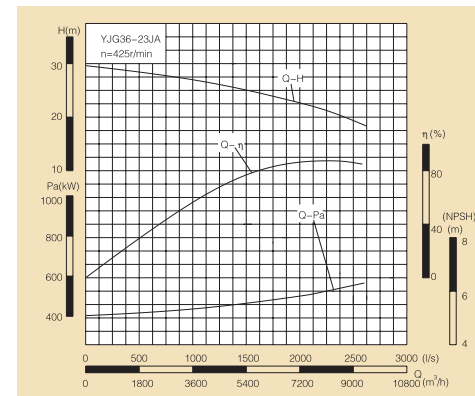
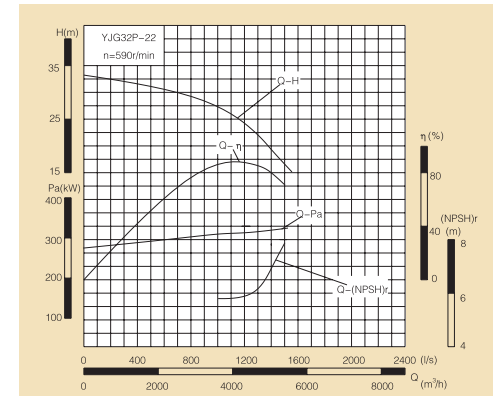
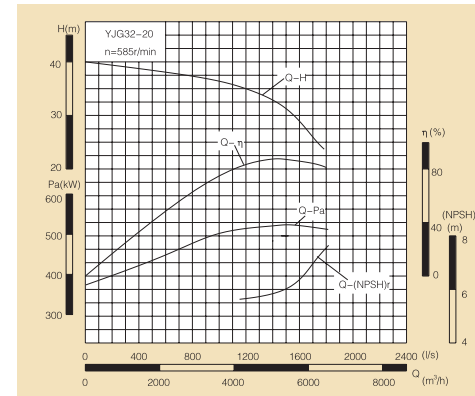
泵性能表 Performance Data

参数 Parameter 型号 Type	流量 Capacity	扬程 Head	转速 Speed	轴功率 Shaft Power	配带电动机 Motor		效率 Eff.	必需汽 蚀余量 (NPSH)	叶轮名 义直径 Impeller Dia.	泵口径		泵重
	Q	H	n	Pa	功率 Power	型号 Type	η	m	mm	进口 Inlet Dia.	出口 Outlet Dia.	Weight t
	m³/s	m	r/min	kW	kW					mm	mm	
YJG32-20	1.38	34	585	523	630	YL630-10/1180-1	88.0	5.8	905	800	800	16
	1.5	31.5		532			87.0	6				
	1.7	26		516			84.0	7				
YJG32P-22	1.03	27.4	590	315	450	YL500-10	87.0	5.8	819	800	800	16
	1.25	23		324			86.8	6.0				
	1.4	19		326			80.0	7.0				
YJG36-23	2	33.8	495	790	1000	YL1000-12/1730-1	84.0		1070	900	800	21.5
	2.36	30		805			87.0					
	2.75	25		795			85.0					
YJG36-23A	1.97	31	495	713	1000	YL1000-12/1730-1	84.0		1030	900	800	21.5
	2.35	27		722			86.2					
	2.73	22		708			83.0					
YJG36-23B	1.94	28.2	495	637	1000	YL1000-12/1730-1	84.5		990	900	800	21.5
	2.25	25		639			86.2					
	2.5	22		628			85.8					
YJG36-23JA	1.9	23.4	425	513	630	YKSL630-14/1060-1	85.0		1040	900	800	21.5
	2.2	21.5		533			87.0					
	2.4	20		547			86.0					
YJG36-26	2.1	21	495	497	630	YL630-12/1430-1	87.0	6.7	980	900	800	
	2.38	18		493			85.5	6.9				
	2.5	16.8		490			84.0	7.2				
YJG36-26A	1.6	22.8	495	428	500	YLST560-12	83.6	5.7	938	900	800	
	2.11	18		427			87.0	6.56				
	2.38	14		390			83.8	7.2				
YJG40-15	2	58.5	495	1349	2000	YL2000-12/2150-1	85.0		1300	1000	800	27.5
	3	51.7		1710			88.9					
	3.7	39.5		1706			84.0					
YJG40-15A	1.86	50.6	495	1092	1600	YL1600-12/2150-1	84.5		1215	1000	800	27.5
	2.79	44.7		1383			88.4					
	3.44	34.1		1377			83.5					
YJG44P-22	2.64	31.5	425	963	1250	YL1250-14/1730-1	84.5	6.2	1233	1100	900	27
	3	30		997			88.5	6.5				
	3.7	25.6		1034			90.0	7.3				
YJG44P-22JA	2.55	21.3	370	626	800	YL800-16/1730-1	85.0	5	1200	1100	900	27
	3.05	18.5		631			88.0	5.3				
	3.67	13.1		615			76.6	5.8				
YJG48-15	3.25	63	495	2439	3200	YL3200-12/2150-1	82.3	9.7	1440	1200	1000	
	4.17	59.5		2719			89.4	11				
	5	52.5		2826			91.5	12.4				
YJG48-15A	3	54.5	495	1956	2500	YL2500-12/2150-1	81.8	9.5	1345	1200	1000	
	3.88	51.4		2199			88.9	10.7				
	4.65	45.4		2287			90.5	11.8				
YJG48-20	3.47	52	495	2157	2500	YL2500-12/2150-1	82.0	12.3	1320	1200	1000	
	4.17	48.5		2330			85.0	14.3				
	5	42.2		2455			84.3	16.8				
YJG48-20J	2.6	29	370	912	1250	YL1250-16/2150-1	81.0	11.9	1320	1200	1000	
	3.11	27.1		985			84.0	13.2				
	3.74	23.6		1037			83.2	15.2				
YJG48-20 I	4.0	64	500	2852	3500	TL3500-12/2150	88.0	9.1	1400	1200	1000	28
	5.1	58		3225			90.0	10.3				
	5.8	51		3278			89.0	11.8				
YJG48-20 I A	3.4	60	500	2632	3500	TL3500-12/2150	76.3	6.4	1358	1200	1000	28
	5.64	47.1		2989			87.1	7				
	6.55	32		2636			78.0	7.7				

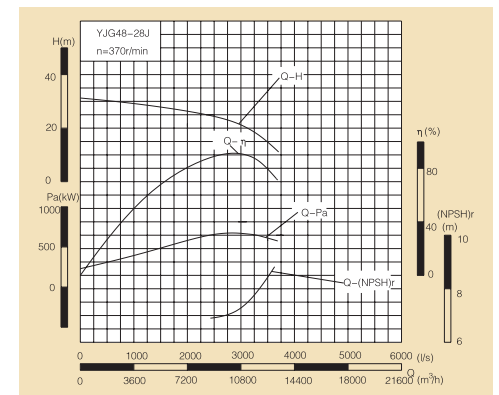
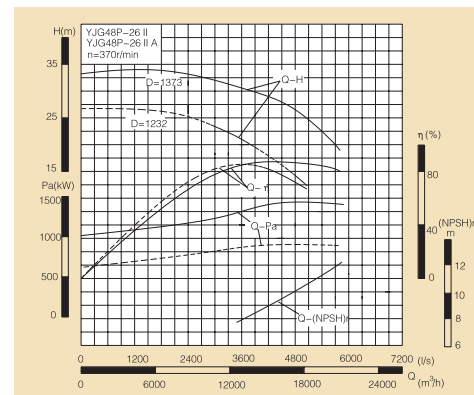
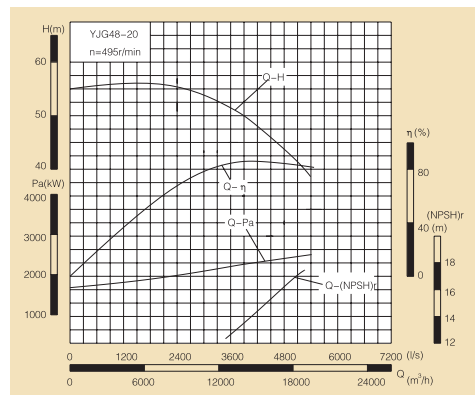
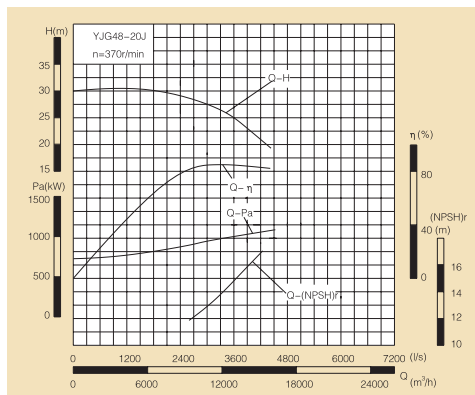
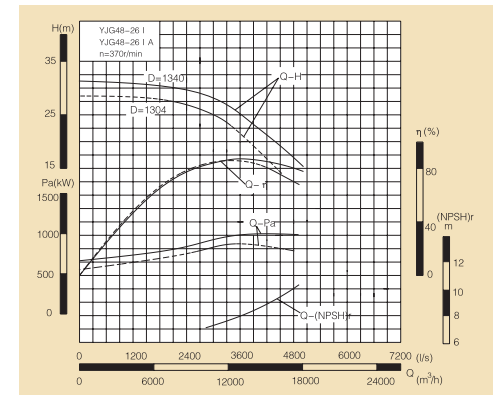
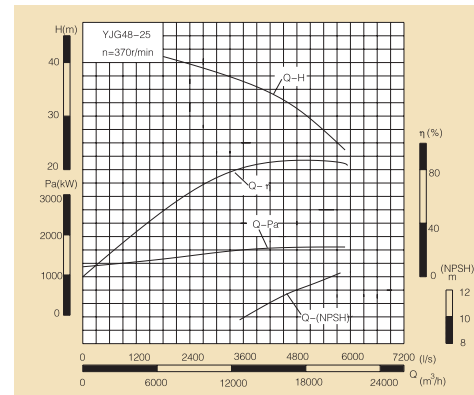
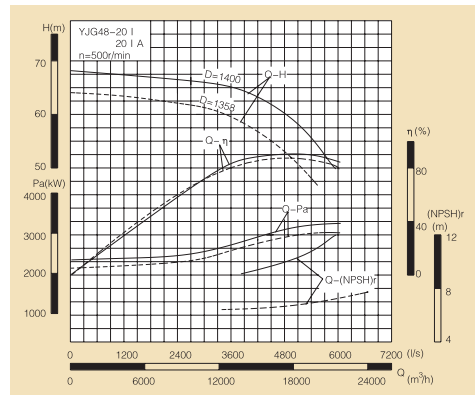
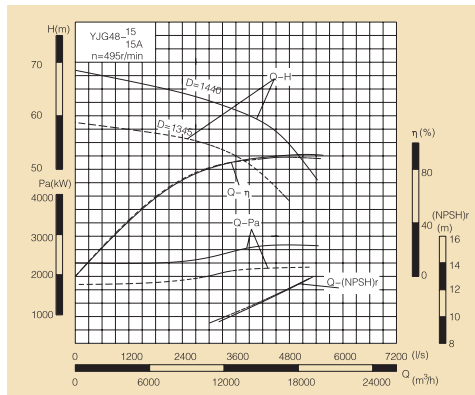
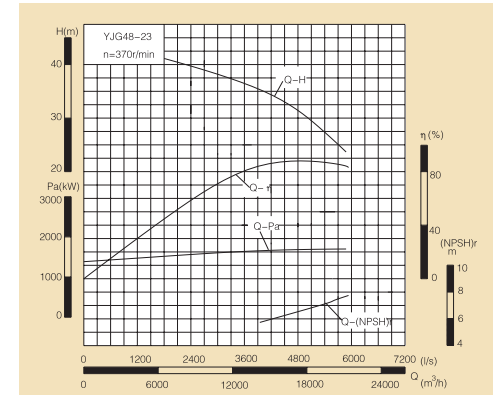
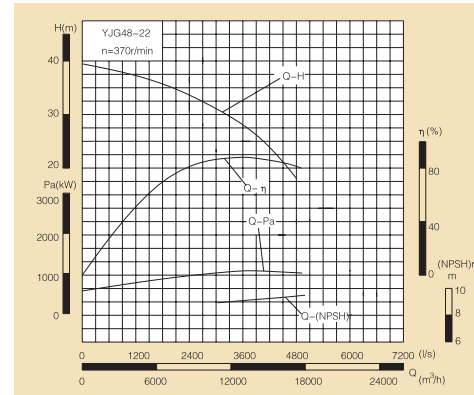
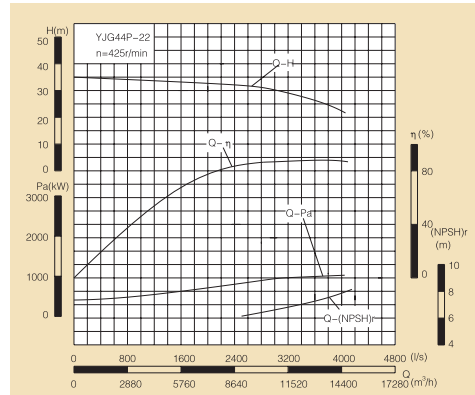
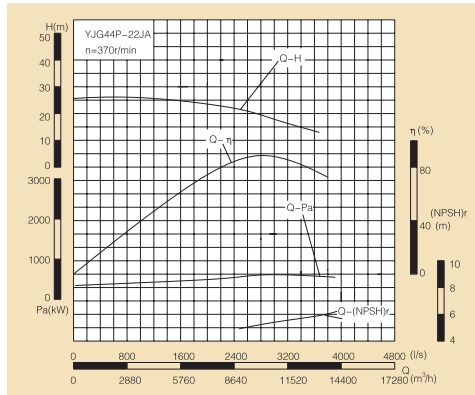
泵性能表 Performance Data

参数 Parameter 型号 Type	流量 Capacity Q	扬程 Head H	转速 Speed n	轴功率 Shaft Power Pa	配带电动机 Motor		效率 Eff. η	必需汽 蚀余量 (NPSH) m	叶轮名 义直径 Impeller Dia. mm	泵口径		泵重 Weight t
	m ³ /s	m	r/min	kW	功率 Power kW	型号 Type	%			进口 Inlet Dia. mm	出口 Outlet Dia. mm	
YJG48-22	3.28	30.1	1101	1101	1600	YL1600-16/2150-1	87.9	9	1350	1200	1000	
	3.8	27	370	1119			89.9	9.1				
	4.51	20.7		1086			84.1	9.2				
YJG48-23	3.94	35.1	1631	1631	2000	YL2000-16/2150-1	82.8	5.8	1468	1200	1000	
	5.28	28.2	370	1687			86.5	7				
	5.56	26.2		1683			84.0	7.4				
YJG48-25	3.5	29	1170	1170	1600	YL1600-16/2150-1	83.5	9.8	1304	1200	1000	
	4.2	26.8	370	1270			86.5	11.3				
	5.11	18.5		1245			82.0	12.4				
YJG48-26I	3	28.5	998	998	1250	YL1250-16/2150-1	84.0	7.3	1340	1200	1000	
	3.7	24.1	370	992			88.3	8				
	4.5	19.2		1033			82.0	9.4				
YJG48-26IA	2.96	25.1	866	866	1000	YL1000-16/2150-1	84.0	7.2	1304	1200	1000	
	3.55	22.4	370	891			87.5	7.9				
	4.44	14.6		831			76.5	9.2				
YJG48-26 II	3.5	30.8	1273	1273	1600	YL1600-16/2150-1	83.0	7.8	1373	1200	1000	
	4.5	28.7	370	1447			87.5	9.5				
	5.5	21.9		1431			82.5	11.5				
YJG48-26 II A	3	23.3	829	829	1000	YL1000-16/2150-1	82.7	7.2	1232	1200	1000	
	3.6	21.5	370	891			85.2	8				
	4.4	16.4		908			77.9	9.3				
YJG48-28	3.25	44.2	1602	1602	2000	YL2000-12/2150-1	87.9	10.6	1250	1200	1000	
	4.14	36.3	495	1637			90.0	11.5				
	4.47	30.3		1579			84.1	12.5				
YJG48-28A	3.12	40.8	1416	1416	2000	YL2000-12/2150-1	88.0	10.5	1200	1200	1000	
	3.98	33.5	495	1444			90.5	11.1				
	4.3	27.9		1400			84.0	11.8				
YJG48-28J	2.43	24.7	669	669	1000	YL1000-16/1730-1	87.9	6.9	1250	1200	1000	
	3.1	20.3	370	684			90.0	7.4				
	3.35	16.9		659			84.1	8				
YJG48-30	4	24.6	1212	1212	1600	YL1600-16/2150-1	79.6	9	1345	1200	1000	
	5	21.5	370	1240			85.0	9.7				
	5.8	16.6		1180			80.0	10.5				
YJG48-35I	3.25	32.8	1208	1208	1600	YL1600-12/2150-1	86.5	10.6	1247	1200	1000	
	4.56	25	495	1228			91.0	12.4				
	5.49	19.4		1159			90.0	14.7				
YJG48-35 II	3.6	31.6	1355	1355	2000	YL2000-16/2150-1	82.3	6.3	1508	1200	1000	
	5	25.7	370	1465			86.0	7.6				
	5.85	19.4		1391			80.0	8.6				
YJG48-35 II A	3.85	28.8	1309	1309	1600	YL1600-16/2150-1	83.0	7.9	1470	1200	1000	
	5	23	370	1334			84.5	9				
	5.6	18.2		1241			80.5	9.7				
YJG48-36	4.9	33.2	1873	1873	2000	YL2000-12/2150	85.2	9.8	1321	1200	1200	22.9
	5.9	28	495	1859			87.2	11.1				
	6.4	25.1		1858			84.8	11.6				
YJG48-40	5.0	24	1384	1384	1600	YL1600-16/2150-1	85.0	6.4	1460	1200	1200	24.4
	5.6	22	370	1373			88.0	6.78				
	6.0	20.8		1406			86.0	7.17				
YJG48P-40	5.0	24	1384	1384	1600	YKSL1600-16/1730-1	85.0	6.4	1460	1200	1200	24.4
	5.6	22	370	1373			88.0	6.78				
	6.0	20.8		1406			86.0	7.17				
YJG48-45	5.3	22	1356	1356	1600	YL1600-12/1730	86.0	8.9	1213	1200	1200	24.4
	5.7	19	495	1249			85.0	9.7				
	6.0	16		1148			83.0	10.2				
YJG48-50	6.0	21	1453	1453	1600	YL1600-12/1730	85.0	8.4	2181	1200	1200	24.4
	6.5	18	495	1333			86.0	9.2				
	6.8	16		1262			84.5	10				

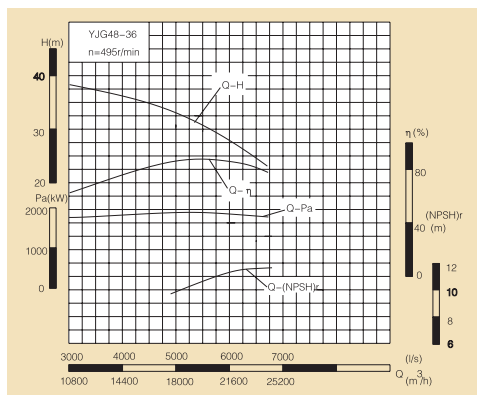
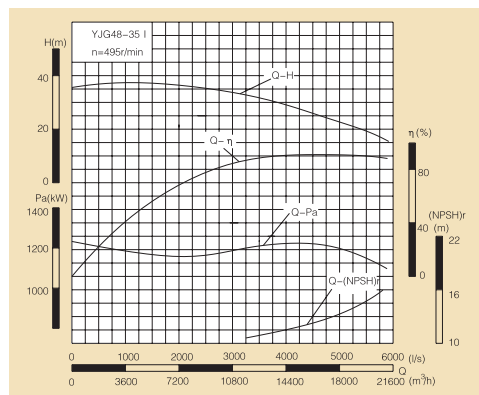
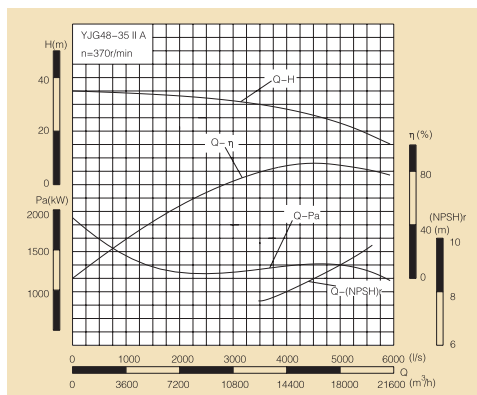
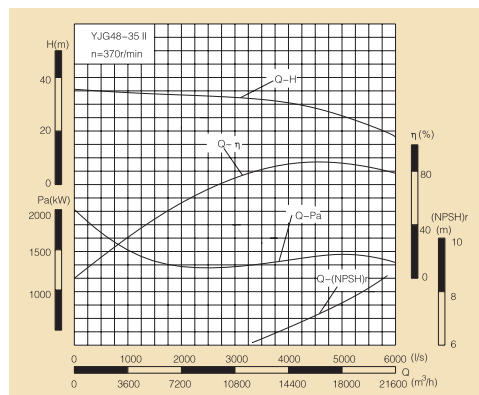
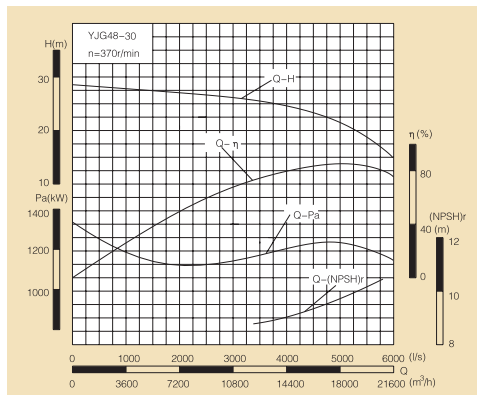
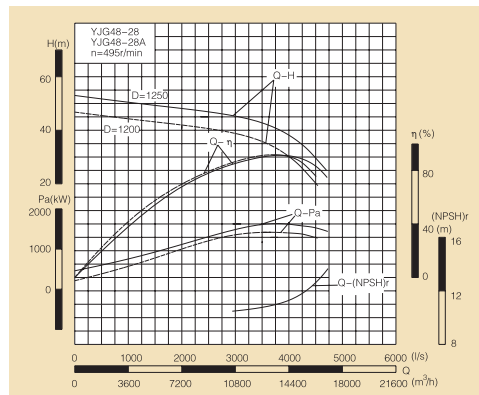
性能曲线 Performance Curve



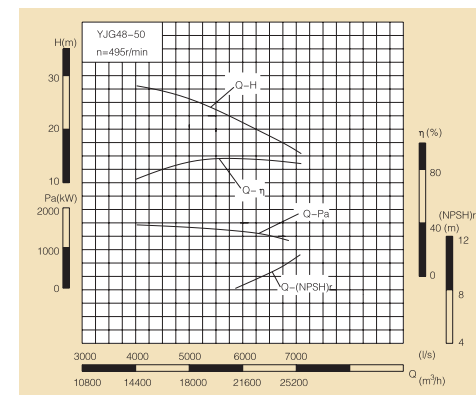
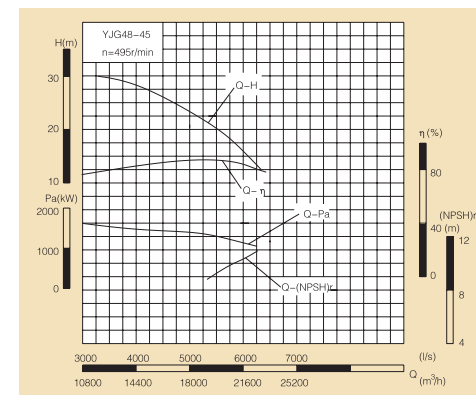
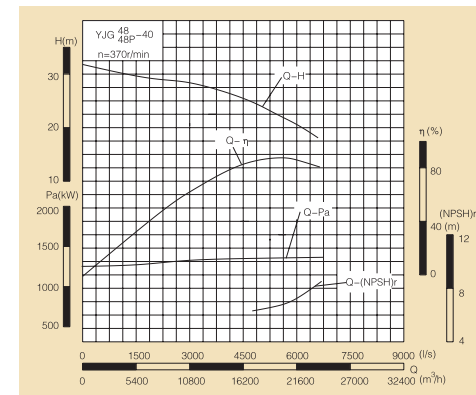
性能曲线 Performance Curve



性能曲线 Performance Curve

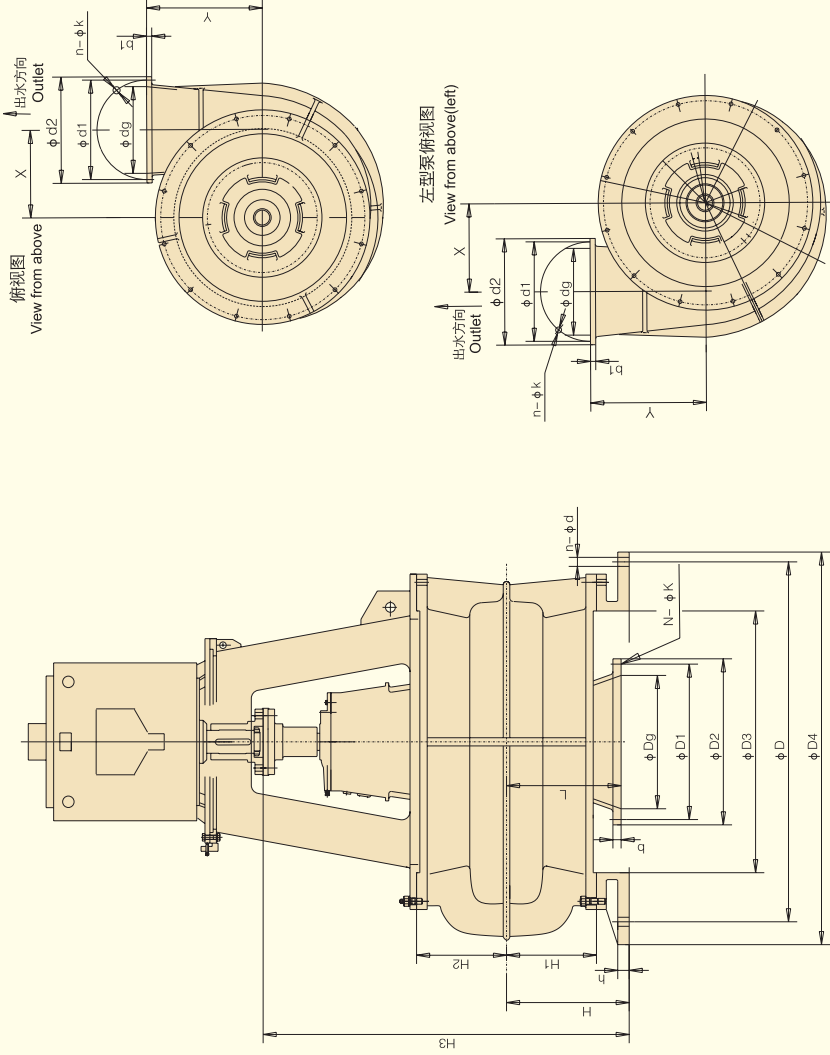


性能曲线 Performance Curve



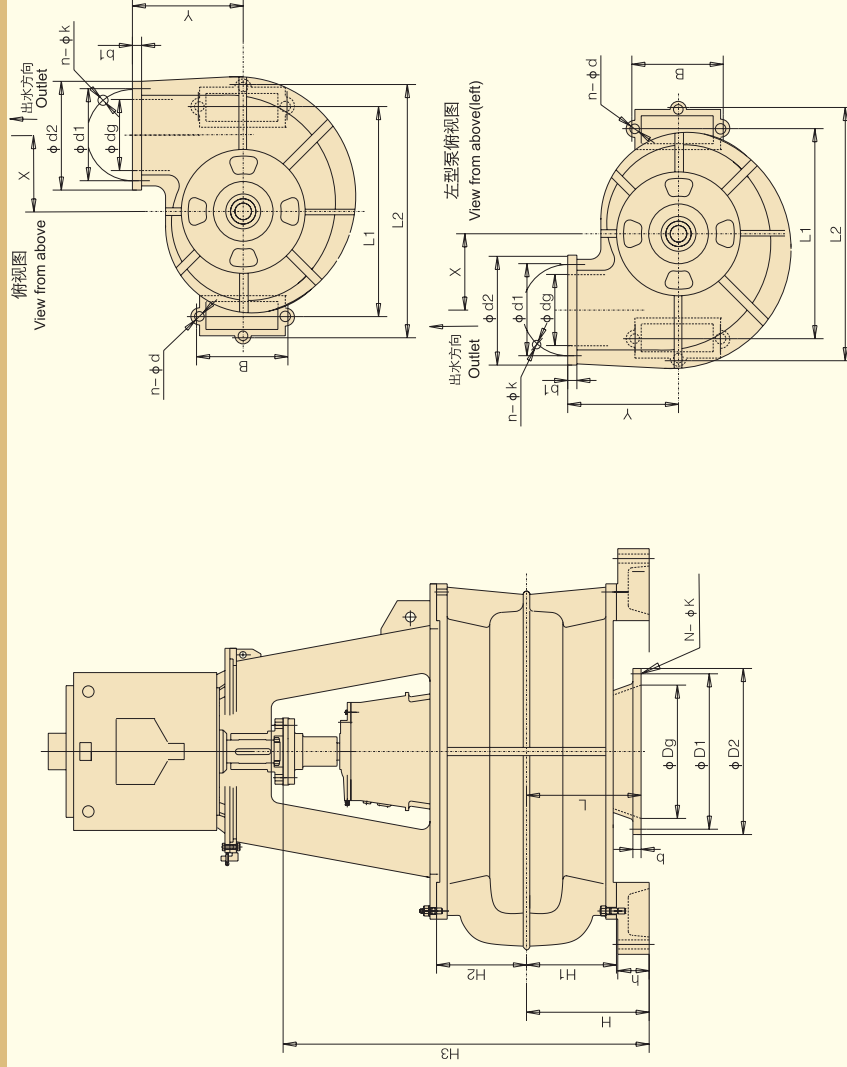
YJG型外形安装尺寸图一(圆形脚板)

Overall and Installation Figure for Type YJG Pump (Fig.1) (with Round Feet)



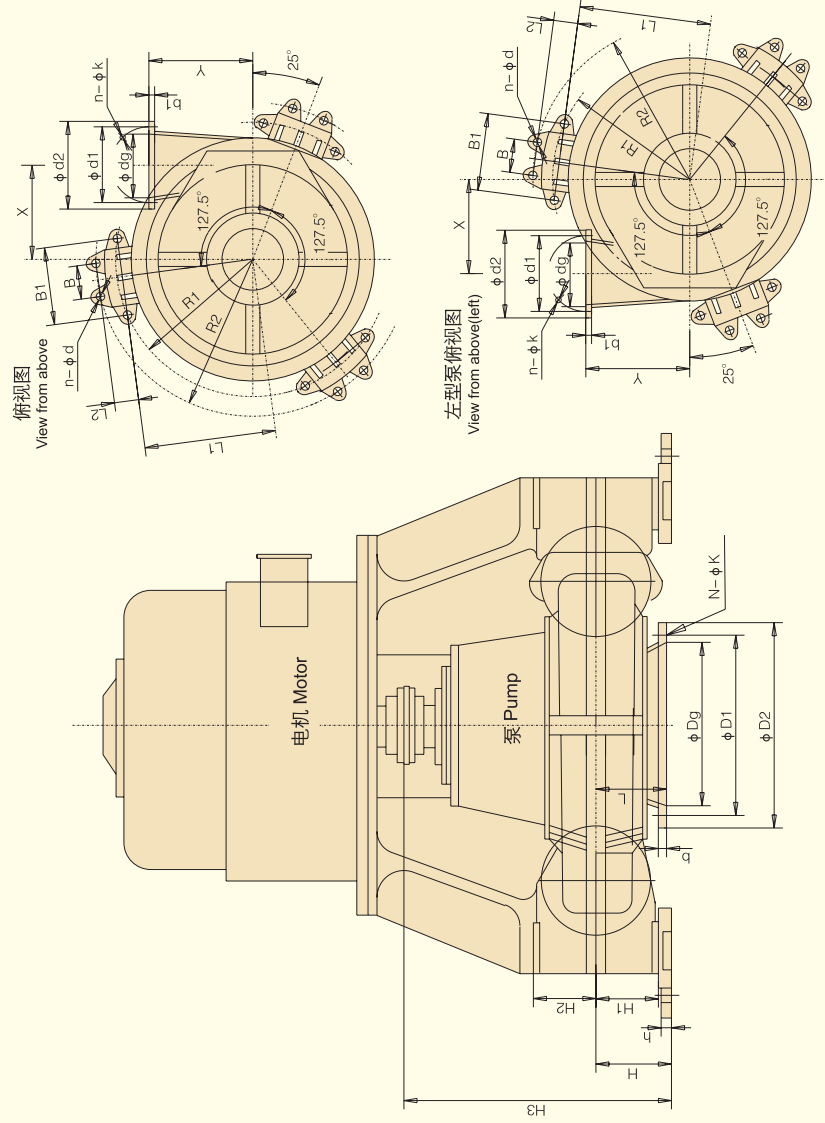
YJG型外形安装尺寸图二(两脚板结构)

Overall and Installation Figure for Type YJG Pump (Fig.2) (with Two Feet)



YJG型外形安装尺寸图三(三脚板结构)

Overall and Installation Figure for Type YJG Pump (Fig.3) (with Three Feet)



YJG型泵外形尺寸表(圆形脚板)

Overall Dimensions for Type YJG Pump (with Round Feet)

泵型号 Type	X	Y	H	H1	H2	H3	h	L	n-Φd	D3	D	D4	Dg	D1	D2	b	N-ΦK	dg	d1	d2	b1	n-Φk
YJG32-20	843	1105	800	550	550	2240	70	900	12-Φ50	1600	2200	2320	800	950	1015	50	24-Φ33	800	950	1015	50	24-Φ33
YJG36-23	1090	1050	900	600	600	2390	70	790	16-Φ55	2000	2450	2600	900	1050	1115	50	24-Φ30	800	950	1015	50	24-Φ30
YJG40-15	1120	1450	900	600	600	2582	70	710	16-Φ55	2200	2550	2800	1000	1160	1230	60	28-Φ36	900	1050	1115	60	28-Φ33
YJG48-20I	1315	1350	1150	700	700	3490	70	1085	12-Φ56	2530	3030	3160	1200	1340	1405	50	32-Φ35	1000	1200	1280	66	28-Φ42

YJG型泵外形尺寸表(两脚板结构)

Overall Dimensions for Type YJG Pump (with Two Feet)

泵型号 Type	X	Y	H	H1	H2	H3	h	L	n-Φd	L1	L2	B	Dg	D1	D2	b	N-ΦK	dg	d1	d2	b1	n-Φk
YJG48-40	1100	1600	1090	750	860	3560	330	850	6-Φ55	2850	3550	1590	1200	1340	1405	50	32-Φ33	1200	1380	1455	60	32-Φ39
YJG48-45	1100	1600	1090	750	860	3560	330	850	6-Φ55	2850	3550	1590	1200	1340	1405	50	32-Φ33	1200	1380	1455	60	32-Φ39
YJG48-50	1100	1600	1090	750	860	3560	330	850	6-Φ55	2850	3550	1590	1200	1340	1405	50	32-Φ33	1200	1380	1455	60	32-Φ39
YJG48-36	1100	1600	800	800	700	3270	70	1005	8-Φ48	2610	2930	1100	1200	1340	1405	40	32-Φ33	1200	1380	1455	60	32-Φ39

YJG型泵外形尺寸表(三脚板结构)
Overall Dimensions for Type YJG Pump (with Three Feet)

泵型号 Type	X	Y	H	H1	H2	H3	h	L	n-Φd	L1或 R1	L2或 R2	B	B1	Dg	D1	D2	b	N-ΦK	dg	d1	d2	b1	n-Φk
YJG32P-22	843	1105	750	550	550	2240	70	900	12-Φ42	1100	200	380	800	800	950	1015	50	24-Φ33	800	950	1015	50	24-Φ33
YJG44P-22	1100	1200	800	650	650	2500	150	900	12-Φ66	1560	1800	500	1150	1100	1240	1305	40	28-Φ35	900	1050	1115	50	28-Φ35
YJG48P-40	1100	1600	850	700	860	3320	150	850	12-Φ65	1785	310	600	1260	1200	1340	1405	40	32-Φ36	1200	1380	1455	60	32-Φ39
YJG48-15	1315	1350	850	700	700	(3190)	150	(1085)	12-Φ66	1785	310	600	1260	1200	1340	1405	50	32-Φ35	1000	1200	1280	66	28-Φ42
YJG48-20	1315	1350	850	700	700	(3190)	150	(1085)	12-Φ66	1785	310	600	1260	1200	1340	1405	50	32-Φ35	1000	1200	1280	66	28-Φ42
YJG48-22	1315	1350	850	700	700	(3190)	150	(1005)	12-Φ66	1785	310	600	1260	1200	1340	1405	50	32-Φ35	1000	1200	1280	66	28-Φ42
YJG48-23	1315	1350	850	700	700	(3190)	150	(850)	12-Φ66	1785	310	600	1260	1200	1340	1405	50	32-Φ35	1000	1200	1280	66	28-Φ42
YJG48-25	1315	1350	850	700	700	(3190)	150	(1085)	12-Φ66	1785	310	600	1260	1200	1340	1405	50	32-Φ35	1000	1200	1280	66	28-Φ42
YJG48-26 I	1315	1350	850	700	700	(3190)	150	(805)	12-Φ66	1785	310	600	1260	1200	1340	1405	50	32-Φ35	1000	1200	1280	66	28-Φ42
YJG48-26 II	1315	1350	850	700	700	(3190)	150	(1005)	12-Φ66	1785	310	600	1260	1200	1340	1405	50	32-Φ35	1000	1200	1280	66	28-Φ42
YJG48-28	1315	1350	850	700	700	(3190)	150	(1085)	12-Φ66	1785	310	600	1260	1200	1340	1405	50	32-Φ35	1000	1200	1280	66	28-Φ42
YJG48-30	1315	1350	850	700	700	(3190)	150	(850)	12-Φ66	1785	310	600	1260	1200	1340	1405	50	32-Φ35	1000	1200	1280	66	28-Φ42
YJG48-35 I	1315	1350	850	700	700	(3190)	150	(1005)	12-Φ66	1785	310	600	1260	1200	1340	1405	50	32-Φ35	1000	1200	1280	66	28-Φ42
YJG48-35 II	1315	1350	850	700	700	(3190)	150	(850)	12-Φ66	1785	310	600	1260	1200	1340	1405	50	32-Φ35	1000	1200	1280	66	28-Φ42

注：长益遵循对产品不断完善的原则，对产品性能和结构的部分改动，将另行通知。

YJG型泵进水流道示意图(仅作参考)
Approach Channel Figure for Type YJG Pump (for reference)

