



离心油泵

CENTRIFUGAL OIL PUMP



泊头市华拓泵业有限公司

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企业简介

Brief Introduction

泊头市华拓泵业有限公司是研制产销各种工业用泵的专业厂家。公司位于素有“铸造之乡”和“汽车模具之乡”的河北省泊头市，毗邻京沪线，石黄线，104和106国道，交通非常便利。

本公司集科研、生产、销售、服务于一体，生产设备精良，设计水平先进，生产工艺及检测设备完善，已通过了ISO9001-2000国际质量管理体系认证和中国船级社认证。产品投放市场以来，以卓越的品质，优质的服务，诚信的经营风格，铸造了“华拓”品牌产品。

华拓泵业产品规格齐全，性能可靠，质优价廉，赢得了广大客户的信赖；主要产品有齿轮泵系列，螺杆泵系列，离心泵系列，转子泵系列，磁力泵系列等。产品广泛用于石油、化工、船舶、电力、食品、粮油、制药、印染、煤炭、建材、冶金及国防科研等各行业润滑用泵和流体的输送，增压。

华拓泵业面对日趋激烈的市场竞争和全球经济一体化的严峻考验，会始终坚持“质量第一、信誉第一、用户第一、服务第一”的企业宗旨，恪守“以科技创新，以质求存，持续改进，互利双赢”的企业理念，以人才构筑企业基石，以科技推动企业发展，一切围绕客户，创造顾客满意产品价值链。华拓泵业愿与各界朋友真诚合作，共谋发展，为用泵行业提供一流的产品和完美的流体输送解决方案。

华拓人竭诚欢迎各界朋友前来洽谈协作，共创辉煌！

CYZ型自吸式离心油泵

CYZ SERIES SELF-PRIMING CENTRIFUGAL OIL PUMP



特点:

该泵属自吸式离心泵,具有结构简单、操作维护方便、运行平稳、排量大、效率高、便于调节、使用范围广等特点。

用途:

用来输送汽油、煤油、柴油,航空煤油等石油产品。介质温度在-20℃~+80℃,是一种优良的船用装卸油泵。并适用于陆地油库、油罐车等储油装置的油料输送。也可以用来输送海水、淡水等。

结构型式:

采用轴向回液的泵体结构,泵体由吸入室、储液室、涡旋室、回液孔、气液分离室等组成。泵的轴承采用单列向心球轴承。在泵的轴承体底部设有冷却室,泵内部高、低压区间有密封环。轴端采用机械密封。

FEATURES:

This pump belongs to self-priming centrifugal oil pump, and the feature is simple construction, easy operation, convenient repairing, high displacement, high efficiency, wide application scope etc.

APPLICATION:

Type CYZ pump are used to deliver the petrol, kerosene, diesel oil, etc. and the temperature of medium is -20℃~+80℃. It is a kind of load and unload oil pump in boat. And it can be used to convey oil in the land oil depot and oil truck. In addition, the pump also can carry the sea water and fresh water.

CONSTRUCTION:

The pump is composed of suction room, store liquid room, vortex room, liquid returning hole, gas and liquid dividing room etc. The pumps adopt the single row radial ball bearings, and have the cooling room in the bottom of the bearing stand, and a seal ring is used between the high press and low press area in the pump. They adopt mechanical seals on shaft end.

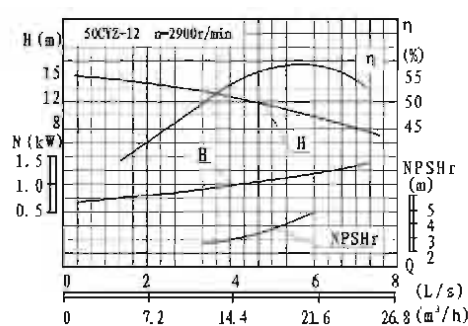
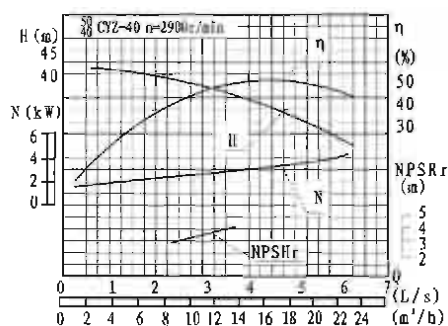
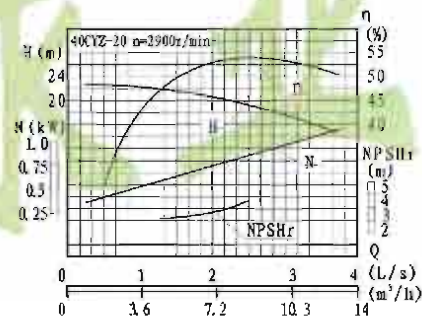
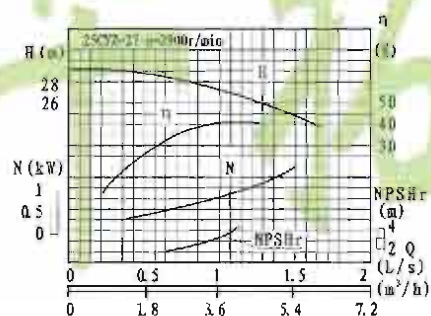
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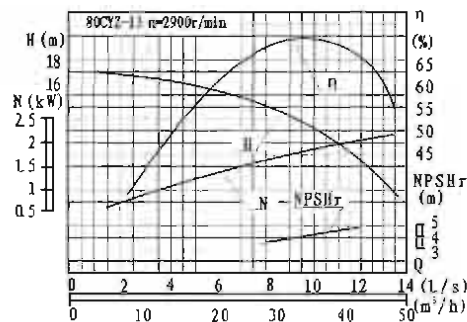
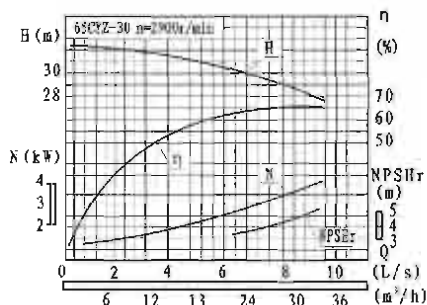
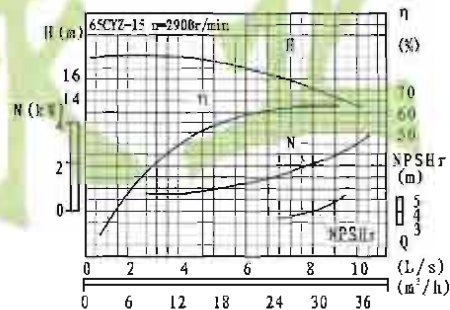
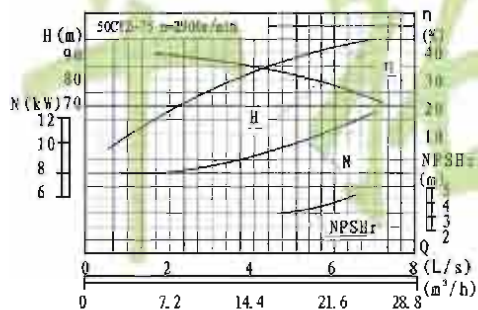
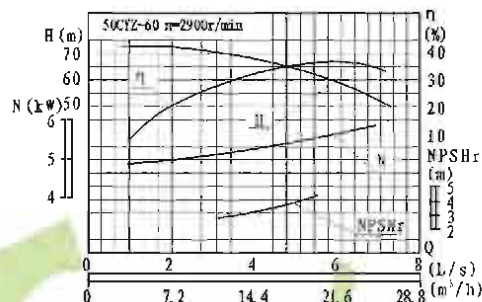
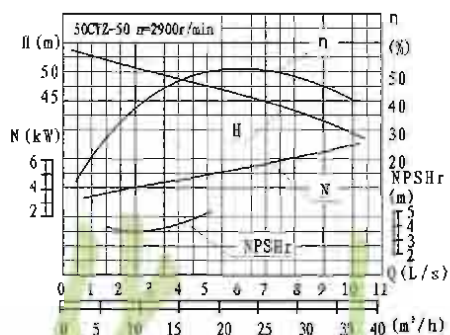
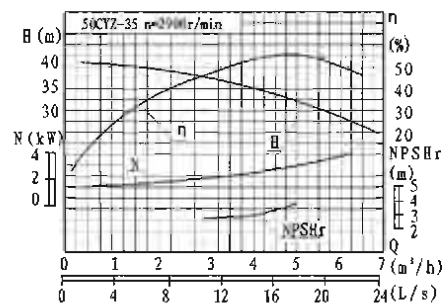
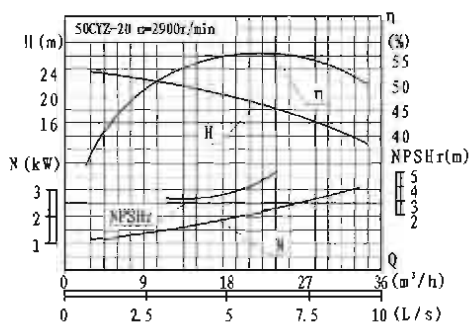
序号 NO.	型号Model	流量Capacity		扬程Head m	泵汽蚀 余量 (NPSH) _r m	自吸性能 Ability of self-priming min/5m	转速 Speed r/min	轴功率 Axle- Power kW	进出口径 Suction and discharge port mm	电机Motor	
		m ³ /h	L/min							型号Model	功率kW Power
1	25CYZ-27	3	50	27	3	3	2900	0.6	25	YB801-2	0.75
2	40CYZ-20	6.3	105	20	3.5	2	2900	0.88	40×32	YB802-2	1.1
3	40CYZ-40 (50CYZ-40)	10	167	40	3.5	1.5	2900	2.8	50×40 (50)	YB112M-2	4
4	50CYZ-12	15	250	12	3.5	2.5	2900	1.1	50	YB90S-2	1.5
5	50CYZ-20	18	300	20	3.5	2	2900	1.8	50	YB90L-2	2.2
6	50CYZ-35	14	233	35	3.5	1.5	2900	2.7	50	YB112M-2	4
7	50CYZ-50	12.5	208	50	3.5	1.5	2900	4.3	50	YB132S1-2	5.5
8	50CYZ-60	15	250	60	3.5	1.5	2900	6.3	50	YB132S2-2	7.5
9	50CYZ-75	20	333	75	3.5	1.5	2900	9.9	50	YB160M1-2	11
10	65CYZ-15	30	500	15	4	2	2900	1.92	65	YB100L-2	3
11	65CYZ-30	25	416	30	4	2	2900	3.2	65	YB112M-2	4

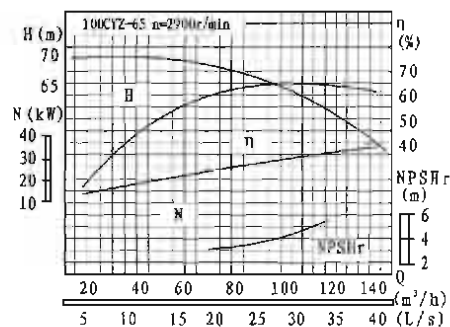
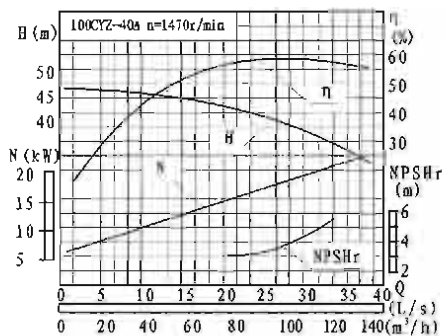
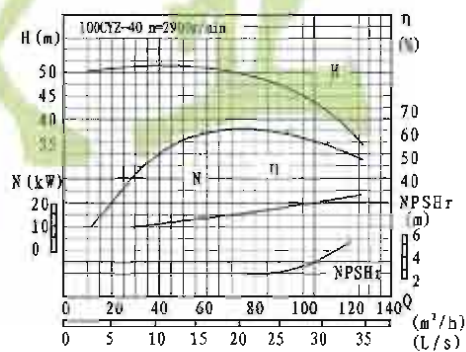
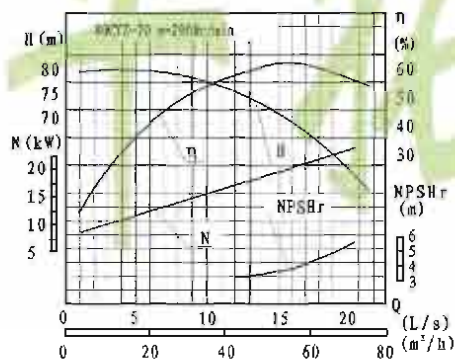
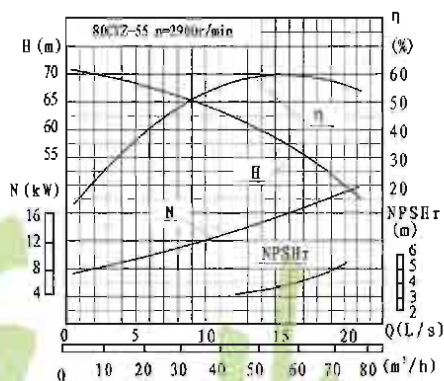
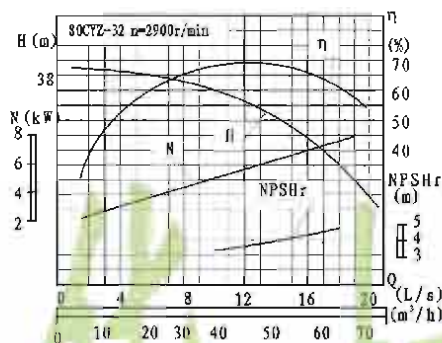
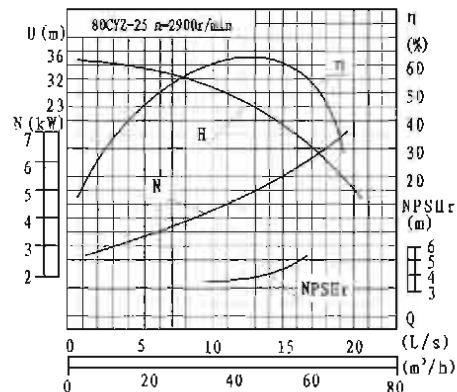
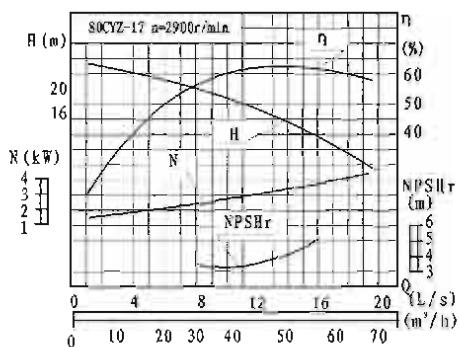
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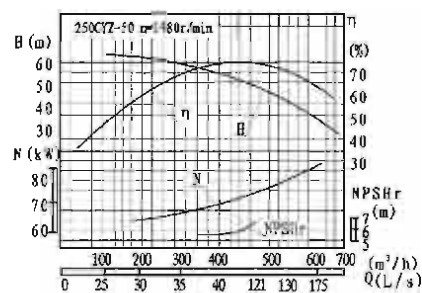
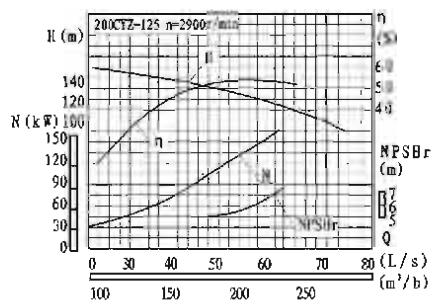
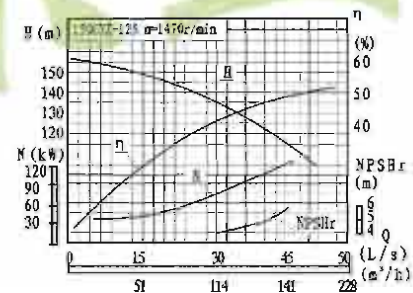
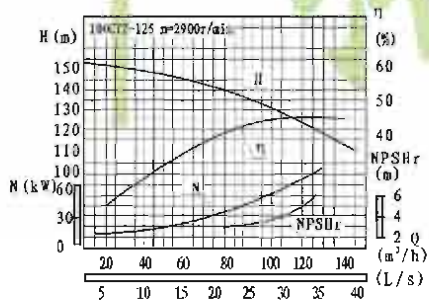
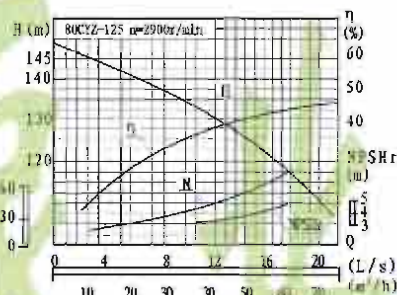
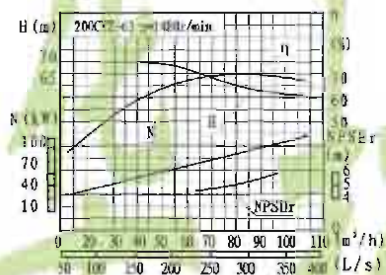
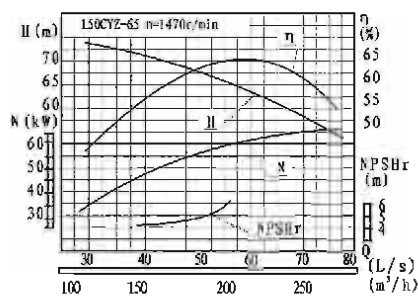
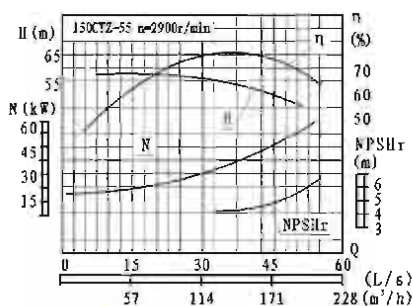
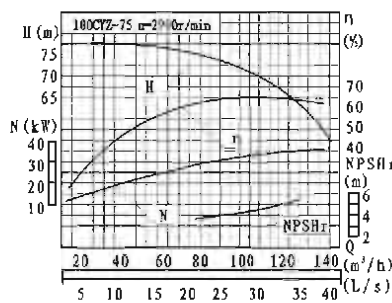
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		m ³ /h	L/min							型号Model	功率kW Power
12	80CYZ-13	35	583	13	4	3.5	2900	1.9	80	YB100L-2	3
13	80CYZ-17	43	716	17	4	2	2900	3.1	80	YB112M-2	4
14	80CYZ-25	50	833	25	4	1.5	2900	5.2	80	YB132S2-2	7.5
15	80CYZ-32	50	833	32	4	1.5	2900	6.8	80	YB132S2-2	7.5
16	80CYZ-55	60	1000	55	4	1.5	2900	15.0	80	YB160L-2	18.5
17	80CYZ-70	60	1000	70	4	1.2	2900	20.1	80	YB180M-2	22
18	100CYZ-40	100	1667	40	4	2	2900	18.3	100	YB180M-2	22
19	100CYZ-40A	100	1667	40	4	1.5	1470	18.5	100	YB180L-4	22
20	100CYZ-65	100	1667	65	4	2	2900	27.7	100	YB200L1-2	30
21	100CYZ-75	70	1167	75	4	2	2900	24.2	100	YB200L1-2	30
22	150CYZ-55	160	2667	55	5	2	2900	38.1	150	YB225M-2	45
23	150CYZ-65	170	2833	65	5	1.3	1470	51.0	150	YB250M-4	55
24	200CYZ-63	280	4667	63	5	1.5	1480	75.1	200	YB280M-4	90
25	80CYZ-125	50	833	125	4	1.5	2900	41.3	80	YB250M-2	55
26	100CYZ-125	100	1667	125	4	1.5	2900	69.4	100	YB280S-2	75
27	150CYZ-125	150	2500	125	5	1.5	2900	93	150	YB315S-2	110
28	200CYZ-125	200	3333	125	5	1.5	2900	119.7	200	YB315M-2	132
29	250CYZ-50	400	6666	50	6	1.5	1480	77.2	250	YB280M-4	90

性能曲线图 DIAGRAM OF PERFORMANCE CURVE

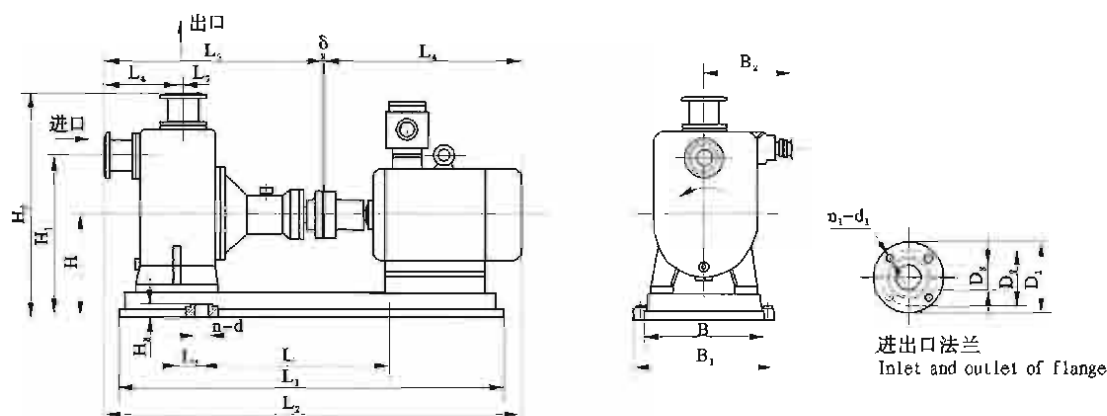








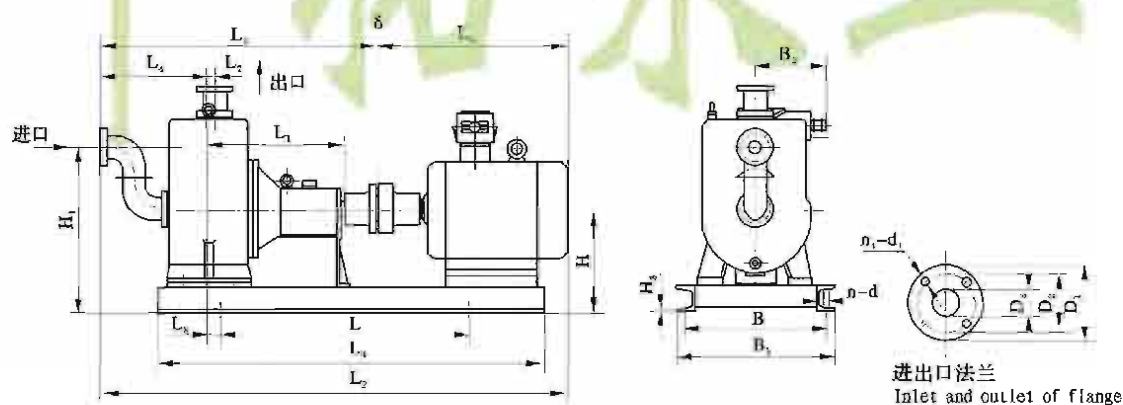
机组外形及安装尺寸图 THE DIAGRAM OF PUMP OUTLINE AND INSTALLATION DIMENSION



50CZY-20	50CZY-75	80CZY-32	100CZY-40A	65CZY-30	25CZY-27
50CZY-12	50CZY-60	80CZY-25	100CZY-40	80CZY-125	65CZY-15
40CZY-40	50CZY-50	80CZY-17	80CZY-70	100CZY-75	注: 50CZY-20, 80CZY-17
40CZY-20	50CZY-35	80CZY-13	80CZY-55	100CZY-65	中I 在聚体中心线外

Note: L₇ of 50 CYZ-20, 80CYZ-17 is out of the center line of pump casing

机组外形及安装尺寸图 THE DIAGRAM OF PUMP OUTLINE AND INSTALLATION DIMENSION



100CYZ-125	250CYZ-50	150CYZ-65
150CYZ-125	200CYZ-63	
200CYZ-125	150CYZ-55	

注: 150CYZ-55、150CYZ-65
中L在泵体中心线外

Note: L_7 of 150CZ-55, 150CZ-65 is out of the center line of pump casing

CYZ型机组外形及安装尺寸表 THE DIAGRAM OF PUMP SET INSTALLATION DIMENSION

泵型号 Model	电动机Motor		L	L ₁	L ₂	L ₃	L ₄	L ₅	I	L ₆	H	H ₁	H ₂	H ₃	B	B ₁	B ₂	n-d	D ₁ D ₁ '	D ₂ D ₂ '	D ₃ D ₃ '	η ₁ -d ₁	
	型号Model	功率 kW																					
250CYZ-50	YB280M-4	90	1000	1755	2496	125	857	1541	953		2	450	1280	8	798	858	330	4-φ22	φ390	φ350	φ250	12-φ23	
300CYZ-125	YB315M-2	132	1201	1878	2822	133	730	1478	1342		2	455	985	40	810	870	340	4-φ22	φ335	φ295	φ200	12-φ23	
150CYZ-125	YB315S-2	110	1236	1857	2632	115	630	1368	1262		2	455	995	40	895	955	340	4-φ23	φ290	φ240	φ150	8-φ23	
100CYZ-125	YB280S-2	75	1017	1617	1877	155	210	843	1031		2	380	680	35	680	740	330	4-φ22	φ215	φ180	φ100	8-φ18	
80CYZ-125	YB250M-2	55	950	1450	1734	140	195	778	954		2	350	600	35	560	620	330	4-φ22	φ195	φ160	φ80	4-φ18	
200CYZ-63	YB280M-4	90	1000	1755	2474	125	708	1412	1060	80	2	450	980	1210	8	798	858	330	4-φ22	φ335	φ295	φ200	8-φ23
150CYZ-65	YB250M-4	55	1154	1564	2229	0	625	1207	1136		2	490	930	9	820 672	880	330	4-φ22	φ280	φ240	φ150	8-φ22	
150CYZ-55	YB225M-2	45	1280	1452	2168	70	628	1310	855		2	396	836	9	500	548	290	4-φ22	φ280	φ240	φ150	8-φ22	
100CYZ-75	YB200L1-2	30	780	1290	1572	116	218	758	819	62	2	335	555	905	40	546	606	290	4-φ22	φ215	φ180	φ100	8-φ18
100CYZ-65	YB200L1-2	30	780	1290	1572	116	272	750	819	62	2	335	555	985	40	546	606	290	4-φ22	φ215	φ180	φ100	8-φ18
100CYZ-40A	YB180L-4	22	730	1322	1564	145	223	750	811		2	380	550	855	40	640	700	240	4-φ22	φ215	φ180	φ100	8-φ18
100CYZ-40	YB180M-2	22	730	1229	1510	133	218	750	757	62	2	320	530	960	35	450	510	240	4-φ22	φ215	φ180	φ100	8-φ18
80CYZ-70	YB130M-2	22	730	1229	1499	133	218	750	743	54	2	310	460	840	35	450	510	240	4-φ22	φ200	φ160	φ80	4-φ18
80CYZ-55	YB160L-2	18.5	790	1125	1363	45.5	206	648	712		2	290	460	665	35	420	480	240	4-φ22	φ200	φ160	φ80	4-φ18
80CYZ-32	YB132S2-2	7.5	480	823	1040	70.5	195	574	483	72	2	225	395	590	30	360	410	210	4-φ18	φ200	φ160	φ80	4-φ18
80CYZ-25	YB132S2-2	7.5	480	823	1040	70.5	195	554	483	72	2	225	395	590	30	360	410	210	4-φ18	φ200	φ160	φ80	4-φ18
80CYZ-17	YB112M-2	4	610	773	1017	20	191	547	467	50	2	208	365	534	30	340	380	225	4-φ18	φ200	φ160	φ80	4-φ18
80CYZ-13	YB100L-2	3	500	771	970	55	153	525	442		2	200	350	498	30	370	420	225	4-φ18	φ200	φ160	φ80	4-φ18
65CYZ-30	YB112M-2	4	480	771	1014	70.5	198	541	470		2	220	390	595	30	360	404	225	4-φ18	φ185	φ145	φ65	4-φ18
65CYZ-15	YB100L-2	3	500	771	970	55	153	525	442		2	200	350	498	30	370	420	225	4-φ18	φ185	φ145	φ65	4-φ18
50CYZ-75	YB160M1-2	11	800	1092	1284	27	155	620	662	88	2	258	428	604	30	428	468	240	4-φ18	φ135	φ103	φ50	4-φ14
50CYZ-60	YB132S2-2	7.5	640	923	1153	60	174	625	520	41	2	265	435	620	30	360	410	240	4-φ18	φ160	φ125	φ50	4-φ14
50CYZ-50	YB132S1-2	5.5	500	785	997	65	162	484	511		2	220	357	529	30	360	404	240	4-φ18	φ130	φ100	φ50	4-φ14
50CYZ-35	YB112M-2	4	500	766	989	33	173	515	472		2	220	380	530	30	340	390	225	4-φ18	φ130	φ100	φ50	4-φ14
50CYZ-20	YB90L-2	2.2	500	630	816	10	138	418	395	6	2	191	326	463	30	350	380	225	4-φ18	φ140	φ110	φ50	4-φ14
50CYZ-12	YB90S-2	1.5	340	655	863	67	161	482	469	5	2	135	305	465	30	275	325	225	4-φ18	φ140	φ110	φ50	4-φ14
40CYZ-40 (50CYZ-40)	YB112M-2	4	500	764	1002	33	177	528	472		2	220	380	535	30	370	420	225	4-φ18	φ130	φ100	φ50	4-φ14
40CYZ-20	YB80L-2	1.1	320	578	760	70	137	412	339	38	2	195	300	436	30	280	330	225	4-φ18	φ130	φ100	φ40	4-φ14
25CYZ-27	YB80L-2	0.75	320	578	760	70	137	412	339	32	2	195	300	436	30	280	330	225	4-φ18	φ115	φ85	φ25	4-φ14

RY风冷式热油泵

RY SERIES AIR-COOLED HOT OIL PUMP



一、概述

该泵结构合理，性能优良，使用可靠。适用于输送不含固体颗粒的高温液体。其耐腐蚀程度和使用温度取决于与介质接触的主要零件的材料（分三类：Ⅰ.HT200；Ⅱ.ZG230-450；Ⅲ.1Cr18Ni9Ti,0Cr18Ni12-Mo2Ti）

二、适用范围

- 1、石油及化学工业
- 2、油脂工业
- 3、合成纤维工业
- 4、纺织印染工业
- 5、塑料及橡胶工业
- 6、造纸工业
- 7、木材工业
- 8、建筑行业

另外，还在机械工业、食品工业、医药生产、热油炉供油循环系统、热油取暖循环系统中广泛应用。

三、性能范围（按设计点）

- 1、流量1~500m³/h；
- 2、扬程10~125m；
- 3、温度-20℃~350℃

型号意义：以RY100-65-200A为例

RY100-65-200A

表示叶轮外径第一次切割
(D.E表示变形叶轮)
叶轮名义外径 (mm)
泵体出口直径 (mm)
泵体入口直径 (mm)
热油泵

I. Brief Introduction

With scientific construction and fine performance, it is used in transporting high temperature liquid without solid particles. And the corrosion-resistant degree and working temperature is depended on the material of the parts. (The material consists of three kinds: 1. HT200; 2. ZG230-450; 3. 1Cr18Ni9Ti, 0Cr18Ni12Mo2Ti.)

II. Application Scope

1. Petro-chemical Industry
2. Oil Industry
3. Synthetic-fibre industry
4. Textile Dyeing And Printing Industry
5. Plastic And Rubber Industry
6. Papermaking Industry
7. Timber Processing Industry
8. Construction And Building Industry

Besides the above fields, the pumps are also proper in machinery manufacturing, food processing, medicine making and the circling system for oil supplying of the hot oil boiler, the circling system of the heating installation.

III. Performance Scope of RY Hot Oil Pump

1. Capacity: 1~500m³/h
2. Head: 10~125m
3. Temperature: -20℃~350℃

The Sense of The Type RY Hot Oil Pump: Set RY 100-65-200A As The Example:

RY100-65-200A

The First Cutting of Outer Diameter of The Vane wheel
(D.E Represents Shaperforming wheel)
Vane wheel's Nominal Diameter of Pump Case
The Outlet Diameter of Pump Case
The Inlet Diameter of Pump Case
Hot Oil Pump

四、结构简介

RY型热油泵为单级悬臂式结构分为脚支撑和中心支撑，泵的进口为轴向吸入，出口为中心垂直向上。泵和驱动电机通过弹性联轴器合装于同一底座上。整个机组无需加冷却系统。

主要由壳体、转子、轴承、密封等部分组成，采用填料密封结构（详见图二），附加耐温油封，起辅助密封的作用。泵与电动机采用三爪型弹性联轴器联接。

该泵从设计上改变了传统的热油泵结构，采用自然散热的冷却方式，减少了泵的体积，使结构简单，节约运行费用，安全可靠。

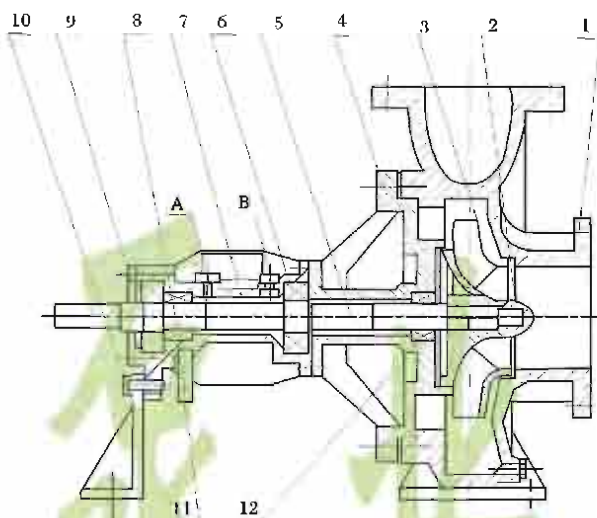
IV. Construction

With the single grade swing construction, RY hot oil pump consists of two kinds: foot supporting and core-supporting. The entrance of the pump is axial absorbing, and core straight up for outlet. The pump and the driving motor are instilled togetherly at the same seat through elastic coupling. And the whole machine group doesn't require cooling system.

The main parts include: Pump casing, Rotor, Bearing, Seal Parts. The pumps connects motor with tri-pawl elastic coupling.

On the whole, this pump reforms the traditional construction, choosing natural cooling type, reducing the volume, simplifying the constructure and save carrying.

1. 泵体 Pump Casing
2. 叶轮螺母 Impeller Nut
3. 叶轮 Impeller
4. 泵盖 Pump Cover
5. 泵轴 Pump Shaft
6. 轴承 Bearing
7. 轴承体 Bearing Casing
8. 导油管 Oil-conducting Pipe
9. 轴承压盖 Bearing's Press Cover
10. 支架 Benr frame
11. 油封 Oil Seal
12. 填料 Packing Seal



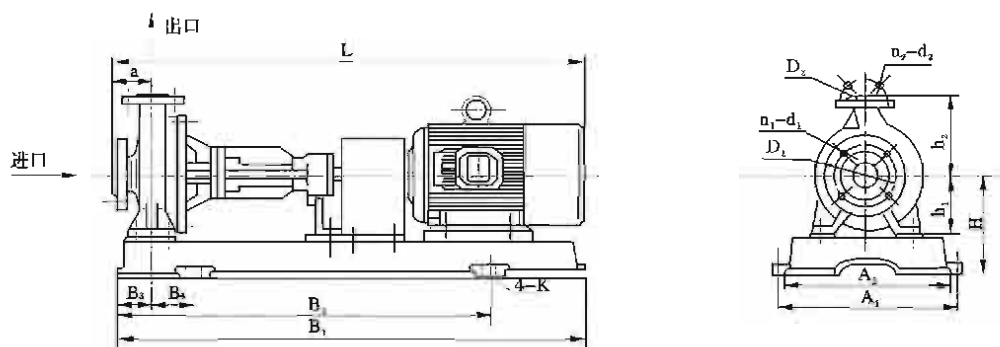
RY型风冷式热油泵结构简图 The Constructure Diagram of Type RY Air-cooled Hot Oil Pump

RY型风冷式热油泵性能参数表 FUNCTIONAL DATA

泵型号 Model	流量 Capacity m ³ /h	扬程Head m	转速Speed r/min	功率Power kW		效率η % Efficiency	电机（Y型） 机座号 Motor
				轴功率 Shaft-Power	配用功率 Power		
15-15-100	3	10	2800	0.45	0.75	20	801
15-15-100A	2	10	2800	0.36	0.55	18	AO ₂ -7112
15-15-100B	1	10	2800	0.2	0.37	15	AO ₂ -7112
20-20-100	1	10	2800	0.09	0.37	26	AO ₂ -7112
20-20-125	1.5	22	2800	0.22	0.75	30	801
40-25-160	10	28	2900	1.72	2.2	45	90L
25-25-160	3	27	2900	0.53	1.5	30	90S
32-32-160	6	28	2900	0.85	1.5	50	90S
50-32-160	12.5	30	2900	1.90	3.0	57	100L
50-32-200	18	40	2900	3.92	5.5	50	132S1
50-32-200A	16	32	2900	3.35	4	42	112M
50-32-250	12.5	80	2900	6.2	11	44	160M1

RY型风冷式热油泵性能参数表 FUNCTIONAL DATA

泵型号 Model	流量 Capacity m³/h	扬程Head m	转速Speed r/min	功率Power kW		效率η % Efficiency	电机(Y型) 机座号 Motor
				轴功率 Shaft Power	配用功率 Power		
65-50-160	20	32	2900	3.17	5.5	55	132S1
65-40-200	30	48	2900	6.3	7.5	62	132S2
65-40-200A	25	35	2900	4.0	5.5	59	132S1
65-40-250	25	80	2900	10.3	15	53	160M2
65-40-250A	20	51	2900	5.67	7.5	49	132S2
65-40-315	25	125	2900	18.9	30	45	200L1
65-40-315A	22.5	100	2900	15.3	22	40	180M
80-50-200	50	50	2900	9.7	15	70	160M2
80-50-200A	45	40	2900	7.8	11	63	160M1
80-50-200B	40	32	2900	6.37	7.5	55	132S2
80-50-250	50	80	2900	17.1	22	58	180M
80-50-250A	43	60	2900	12.8	15	55	160M2
80-50-315	50	125	2900	30.4	45	56	225M
80-50-315A	45	100	2900	23.6	30	52	200L1
100-65-200	100	50	2900	18.4	22	74	180M
100-65-200A	94	44	2900	16	22	70	180M
100-65-200B	87	38	2900	13.8	15	65	160M2
100-65-200C	80	32	2900	11.8	15	59	160M2
100-65-250	100	80	2900	32.06	37	68	200L2
100-65-250A	95	72	2900	29	37	64	200L2
100-65-250B	90	65	2900	26.2	30	61	200L1
100-65-250C	85	50	2900	20.8	30	57	200L1
100-65-315	100	125	2900	50.06	75	68	280S
100-65-315A	95	113	2900	45.23	55	64.63	250M
100-65-315B	90	100	2900	40.5	55	60.50	250M
100-65-315C	82	84	2900	34.76	45	54	225M
125-100-200	200	50	2900	35.4	45	77	225M
125-100-200A	178	40	2900	26.6	37	73	200L2
125-100-250	200	70	2900	47	55	80	250M
125-100-250A	190	63	2900	41.6	55	78	250M
125-100-250B	180	57	2900	37.9	45	74	225M
125-100-250C	170	51	2900	32.15	45	72	225M
125-100-250D	150	70	2900	40	45	70	225M
150-150-200	350	50	2900	60	75	80	280S
150-150-200A	313	40	2900	45	55	76	250M
200-150-400	350	50	1450	61.8	75	78	280S
200-150-400A	330	45	1450	52.8	75	77	280S
250-200-400	500	50	1480	86.2	110	79	315S
250-200-500	500	80	1480	136	160	76.5	315M
250-200-500A	400	50	1480	75	90	73	280M



机组安装尺寸图 Diagram of Machine Groups Installation Dimensions

RY型风冷式热油泵安装尺寸 INSTALLATION DIMENSIONS

泵型号Model	A ₁	A ₂	B ₁	B ₂	B ₃	B ₄	a	H	h ₁	h ₂	D ₁	D ₂	n ₁ -d ₁	n ₂ -d ₂	K	L										
20-20-100	220	195	535	300	117	86	52	120	80	100	65	65	4-φ12	4-φ12	φ16	537										
20-20-125						75	60	125	85	115						607.5										
25-25-160	300	280	680	410	120	70	75	170	110	150	85	85	4-φ14	4-φ14	φ20	623										
32-32-160								180	120	130	100	100	4-φ16	4-φ16		647										
40-25-160													125	100		4-φ18	4-φ14	670								
50-32-160	400	370	970	600	165	90	85	227	132	160	125	100	4-φ18	4-φ18	φ25	895										
50-32-200							80	255	160	180						965										
60-40-200							100	145	110	985																
65-50-160							80			227	132	160				125	965									
50-32-250							440	410	1150	740	205	115				100	270	180	225	125	100	4-φ18	4-φ18	φ25	1070	
80-50-200												110				250	160	200	160	125	1100					
65-40-250	490	460	1280	840	220	130						100	285	180	225	145	110	4-φ18	4-φ18	φ28	1300					
80-50-250							125	160	125	8-φ18	4-φ18	1325														
100-65-200							100	180	145							1300										
65-40-315							550	510	1430	940	245	140					125	305	200		250	145	110	4-φ18	4-φ18	φ28
100-65-250																180	145	8-φ18	1450							
125-100-200	670	630	1630	1060	285	180	125	335	200	280	210	180	8-φ18	8-φ18	φ28	1630										
125-100-250							140	360	315		160	125				1700										
80-50-315			1830	1200	315	200	125	390		180	145	4-φ18	1700													
100-65-315							150	315	240	240	8-φ23			1732												
150-150-200							160	480	315	450		295	240			8-φ23	8-φ23	1850								
200-150-400							860	1010	2150	1200	525	350	200	630		400	470		385	320	12-φ33	12-φ30	φ35	2321		
250-200-400	680	450	540	2572																						
250-200-500																										

AY 单两级离心油泵

AY TYPE SINGLE TWO-STAGE CENTRIFUGAL LUBRO-PUMP



概述:

AY型油泵系列,是在老Y型油泵系列的基础上进行改造并重新设计的。它是为满足现代化建设的需要,尽快地适应以节能为中心的设备更新换代而发展的新产品,具有下列特点:

- 1、轴承体部件将原35、50、60轴承体分别用45、55、70轴承体,提高了可靠性。
- 2、水力过流部位采用了高效节能泵的水力模型,平均比老Y型油泵的效率 $5\sim 8\%$ 。
- 3、为保持继承性,AY型油泵的结构型式、安装尺寸、性能参数范围保持与Y型油泵相同,便于老装置更新改造。
- 4、零部件通用化程度高,通标件为几个系列产品共用。
- 5、选材精练,主体以Ⅱ、Ⅲ类材料为主,轴承体等零部件增加为铸钢、铸铁两种,为寒冷地区、露天使用、船用提供了有利条件。
- 6、轴承有空气冷、风扇冷、水冷三种,根据泵的不同使用温度选用。其中风冷尤为适用于缺水或水质差的地区。

AY型单、两级油泵系列性能范围

流量: $Q=2.5\sim 600\text{m}^3/\text{h}$ 扬程: $H=30\sim 330\text{m}$
温度: $T=-45\sim +420^\circ\text{C}$

AY型油泵可用于石油精制、石油化工和化学工业及其它地方输送不含固体颗粒的石油、液化石油气和其它介质。

型号说明

50AY II 60×2B, 250AYS III 150C

50, 250—吸入口直径(mm)

A—第一次改造 Y—离心油泵 S—第一级叶轮为双吸

II III—过流部位零件材料代号:I类为HT250, II类为ZG230-450, III类为ZG1Cr13Ni。

60, 150—单级扬程(m) 2—级数

B, C—叶轮切割次数, 顺序以A、B……表示。

Brief Introduction

AY-type lubro-pump series, which is reformed and redesigned on the base of original Y type lubro-pump series. In order to meet the construction of the modernization and adapt to the requirement of replacing the old with the new one soon which is focused on the saving the energy, so we develop this new product, it has the following characteristics:

1. The original bearing body parts 35, 50, 60 are replaced by bearing body 45, 55, 70, in this way, its reliability can be increased.
2. The hydraulic excess flow part adopt the hydraulic model of the high efficiency energy-saving pump, in average, the efficiency is $5\sim 8\%$ higher than the old Y type lubro-pump.
3. In order to keep inheriting, the structure pattern, installing size, performance parameter all keep the same with the Y-type lubro-pump, so it is very convenient for renewing and reconstructing.
4. The lubro-pump parts have the strong all-purpose ability, its general-standard parts can be commonly used by several series.
5. The affluage of its selecting materials way and the principals part is mainly made of II, III kind material, the materials of some parts such as bearing body is up to two kinds, that is casting steel and casting iron. In this way, it makes very advantageous for being used in the cold area, being used outdoor, using for ship-making.
6. According to the different service temperature, selecting bearing has three types, that is air cooling, air fan cooling, water cooling. Among them, air fan cooling is especially used for the area where the water resource is lack or the quality of water is worse.

AY-type single, double lubro-pump series performance

Capacity: $Q=2.5\sim 600\text{m}^3/\text{h}$ Head: $H=30\sim 330\text{m}$
Temperature: $T=-45^\circ\text{C}\sim +420^\circ\text{C}$

AY-type lubro-pump can be used in different field such as petroleum refining, petrochemical, chemical industry, the other field which transport the petroleum, liquid gas and the other medium which doesn't contain the particulate solids.

Type illustration

50AY II 60×2B, 250AYS III 150C

50, 250—the diameter of suction port

A—the first alteration Y—centrifugal lubro-pump S—the first impeller is double suction.

II III—the code name of the excess flow part's material. Kind I is HT250, kind II is ZG230-450, kind III is ZG1Cr13Ni.

60, 150—single Head (m) 2—class

B, C—impeller cutting times, the order will be showed as A, B…….

结构特征:

AY型油泵分为单级单吸和两级单吸悬臂式、单级双吸悬臂式、单级双吸和两级双吸两支承式, 两级单吸两支承式等六种, 结构型式如图一至图六。

壳体径向剖分, 特别适用于输送高温高压以及易燃、易爆或有毒的液体。其安装方式为水平中心线支承。泵的吸入口法兰和排出口法兰均铸在泵体上, 且均垂直朝上。轴封腔(填料函)和泵盖是铸成一体的, 它可以装填料密封及平衡型、波纹管型、串联型机械密封。轴封腔外面铸有可供选择的水冷腔夹套, 水冷腔的配备必须是特别提出要求或当输送介质为水的温度超过66℃以及碳氢化合物温度超过150℃时用。

叶轮为整体铸造, 且经静平衡, 泵的轴向力主要靠叶轮平衡孔来平衡。

轴承体装有一套径向球轴承和一组背对背安装的推力球轴承, 其轴承采用甩油环稀油润滑, 轴承体外表面铸有散热片, 为空气冷却($T < 120^{\circ}\text{C}$), 还可选用风扇冷却($T = 120^{\circ}\text{C} \sim 260^{\circ}\text{C}$)和水冷却($T = 260^{\circ}\text{C} \sim 420^{\circ}\text{C}$)。

为了泵检修时不必拆卸吸入或排出管路就很容易地拆出叶轮、轴、轴承、轴封等零部件, AY型油泵采用柔性膜片式加长联轴器部件。

泵的管路系统

1、冷却水是根据温度和使用要求, 对轴封腔、轴承或泵支架进行冷却, 水量每一支管路建议为 $0.3 \sim 0.7 \text{ m}^3/\text{h}$, 其压力为 $0.2 \sim 0.3 \text{ MPa}$ 。

2、密封冲洗是根据泵输送介质及其温度、压力等工作条件不同而不同的, 每个泵腔的封液量如下表, 内供或外供均可。密封液的压力一般要高于密封腔的压力 $0.07 \sim 0.1 \text{ MPa}$, 如果输送介质属于易汽化的, 则应高于汽化压力 $0.175 \sim 0.2 \text{ MPa}$ 。

3、蒸汽管路是当输送介质温度降低而易析出结晶时配备, 其压力为 0.1 MPa 左右。

Structure characteristics

AY-type lubro-pump can be divided into six kinds, that is single-stage single suction and two-stage single suction cantilever, single stage double suction cantilever, single stage double suction and two stage double suction dual bearing type, two stage single suction dual bearing type. The structure type is the chart 1 to chart 6.

Casing radial split, especially used for transporting the liquid which is high temperature, high pressure, inflammable, explosive or poisonous. Its installing way is supporting with the horizontal central line. The suction port flange and discharge port flange of the pump are all cast on the pump casing, and then are all in vertical and upward direction. Gland seal cavity (packing box) and cover are cast together, packing seal, balanced seal, bellows seal, tandem mechanical seal can all be put into the packing box. Out of the gland seal cavity, there is the selective water-cooling jacket which is cast on it, the equipment of the water-cooling cavity must be used in this kind of the situation, that is specially put forward when transporting the water medium whose temperature is over 66°C or transporting the hydrocarbon whose temperature is over 150°C .

The impeller is cast integrally, and after static balancing, the axial force of the pump is mainly depend on the balanced cavity of the impeller to keep its balancing. There are radial ball bearing and a set thrust ball bearing, which is installed back to back on the bearing body. Its bearing adopt oil slinger to lubricate it. Fins are cast on the surface of the bearing body, it can be air-cooled, we also can choose fan-cooling ($T = 120^{\circ}\text{C} \sim 260^{\circ}\text{C}$) and water-cooling ($T = 260^{\circ}\text{C} \sim 420^{\circ}\text{C}$).

In order to easily dismantling the parts such as impeller, shaft, bearing or gland seal, meanwhile we don't need to dismantle the suction line or discharge line while the pump is on the overhaul, we always adopt metallic flexible laminated membrane couplings.

The pump line system

1. According to the temperature and the demand of application we use cooling-water to cool the shaft seal cavity, bearing or pump mounting, the water amount for per pipe is $0.3 \sim 0.7 \text{ m}^3/\text{h}$, its pressure should be $0.2 \sim 0.3 \text{ MPa}$.

2. Sealing flush is changing according to the different transporting medium and its temperature pressure or the other working condition, the seal liquid amount for per pump is as following table, both inter-supply and outer-supply is suitable for that. The pressure of the seal liquid is usually higher than the pressure of the soaling cavity ($0.07 \sim 0.1 \text{ MPa}$). If the transporting medium is easily vaporizing, then the pressure should be higher than the vaporizing pressure $0.175 \sim 0.2 \text{ MPa}$.

3. Steam line is equipped in case the transporting medium is easily precipitation crystal; its pressure should be 0.1 MPa less or more.

密封名义直径 Sealing nominal diameter (mm)	13-47	48-59	60-84	85-95	96-133
平均封液量 Average seal liquid amount (m ³ /h)	0.18	0.24	0.36	0.48	0.66

转向:

从原动机往泵看为逆时针旋转。

Rotational Direction

Watching pump from prime mover, rotational direction is anticlockwise

The material list of the excess flow parts

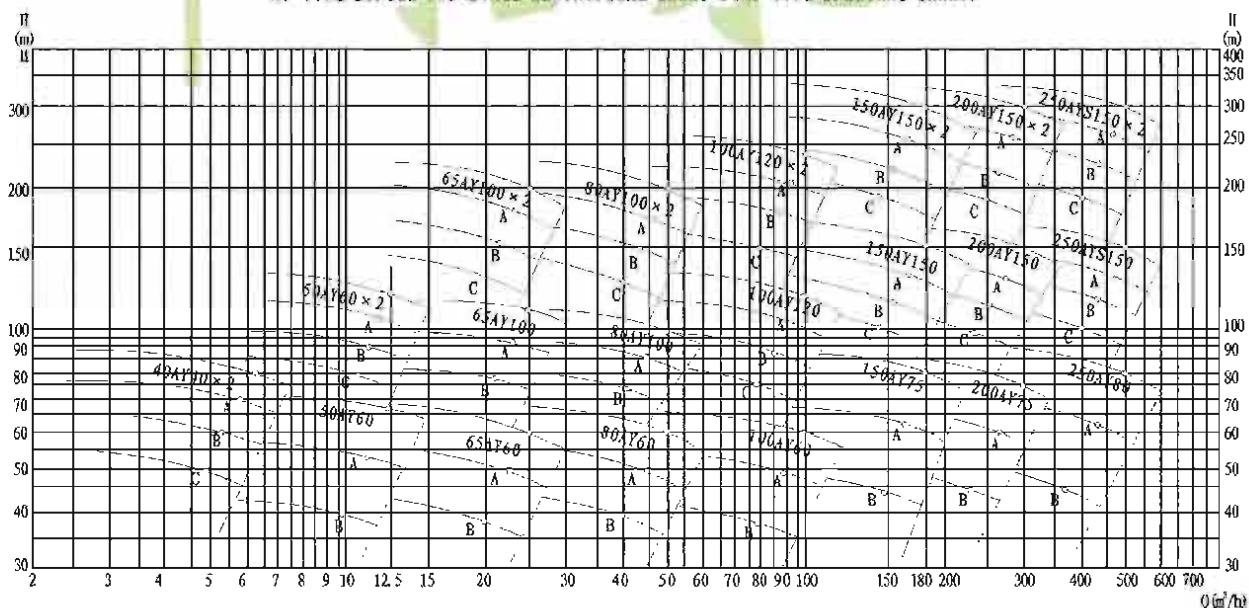
过流部件材料表:

根据使用条件不同, 泵的主要零部件材料分为三类, 详见下表。

According to the different service condition, the main parts of the pump can be divided into three kinds, the details is as following chart:

材料类别Material type		I	II	III
使用温度(T)Service temperature		-20℃ ~ +150℃	-45℃ ~ +420℃	-45℃ ~ +420℃
零件名称 Parts name	壳体(体、盖) Casing (case, cover)	HT250	ZG230-450	ZG 1Cr 13Ni
	叶轮 Impeller	HT200	ZG230-450	ZG 1Cr 13Ni
	轴 Shaft	45	35Cr Mo	3 Cr 13
	壳体密封环 Casing seal ring	HT250	HT250	ZG 1Cr 13MoS
	叶轮密封环 Impeller seal ring	QT500-7	QT500-7	3Cr 13
	壳体螺栓 Casing bolt	Q235-A	35 Cr Mo	35Cr Mo
	填料轴套 Packing axle housing	3 Cr 13	1 Cr 13堆碳化钨	1 Cr 13堆碳化钨
	机械密封轴套 Mechanical seal axle housing	3 Cr 13	3Cr 13	3 Cr 13

AY 型单、两级离心油泵型谱图
AY-TYPE SINGLE TWO-STAGE CENTRIFUGAL LUBRO-PUMP TYPE SPECTRAL CHART.



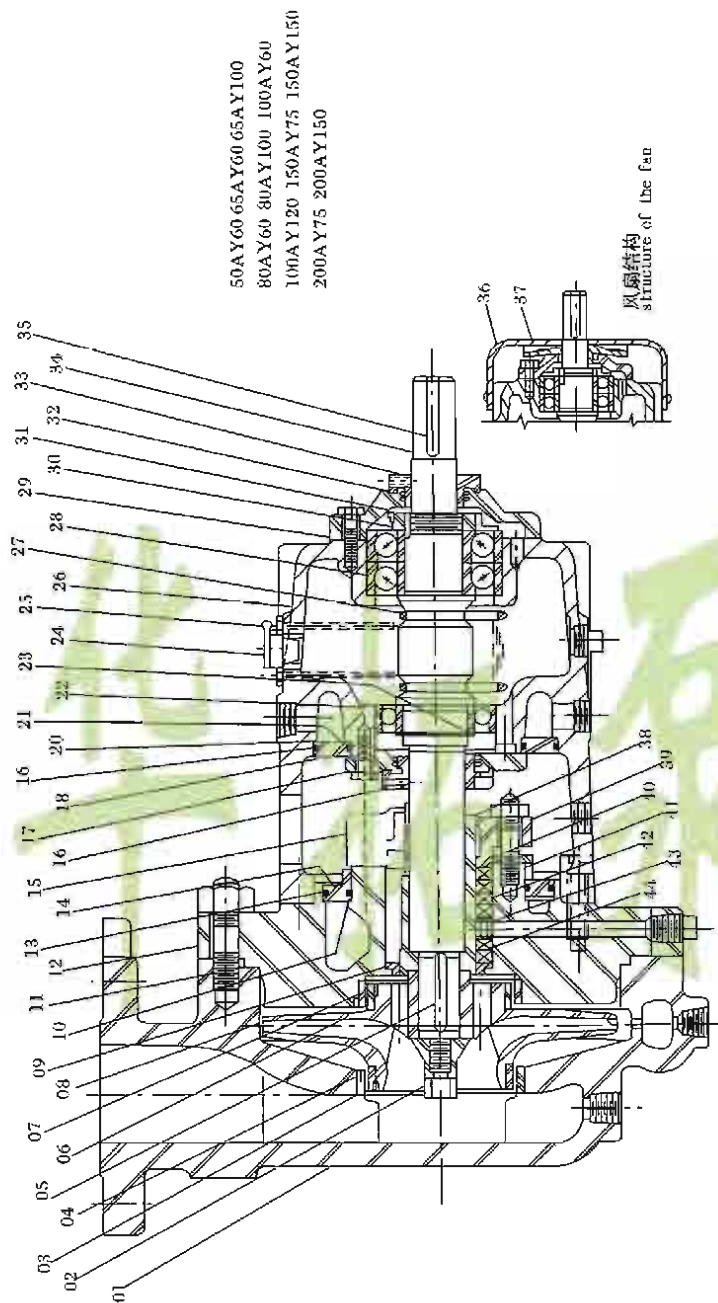
AY型单、两级离心油泵性能表 AY-TYPE SINGLE TWO-STAGE CENTRIFUGAL LUBRO-PUMP PERFORMANCE CHART

性能参数 Performance parameter 型号 Model	流量 Capacity Q m ³ /h	扬程 Head H m	转速 Speed n r/min	效率 Efficient η %	汽蚀余量 Cavitation superfluity NPSH m	轴功率 Shaft power Pa kW	配带电机Equipment motor		泵重 Pump weight kg	附注 Anno- ations
							型号Model	功率Power kW		
40AY40×2	6.25	80	2950	30	2.7	4.5	YB132S ₂ -2	7.5	165	
40AY40×2A	5.83	70	2950	30	2.6	3.7	YB132S ₁ -2	5.5	165	
40AY40×2B	5.4	60	2950	30	2.5	2.9	YB112M-2	4	165	
40AY40×2C	4.9	50	2950	30	2.5	2.2	YB100L-2	3	165	
50AY60	12.5	67	2950	42	2.9	5.4	YB132S ₃ -2	7.5	110	
50AY60A	11	53	2950	39	2.8	4.1	YB132S ₁ -2	5.5	110	
50AY60B	10	40	2950	37	2.8	2.9	YB112M-2	4	110	
50AY60×2	12.5	120	2950	35	2.4	11.7	YB160L-2	18.5	170	
50AY60×2A	12	105	2950	35	2.3	9.8	YB160M ₂ -2	15	170	
50AY60×2B	11.5	89	2950	33	2.2	8.4	YB160M ₁ -2	11	170	
50AY60×2C	11	78	2950	33	2.2	7.1	YB160M ₁ -2	11	170	
65AY60	25	60	2950	52	3	7.9	YB160M ₁ -2	11	150	
65AY60A	23.5	49	2950	51	3	5.9	YB132S ₂ -2	7.5	150	
65AY60B	20	38	2950	49	2.7	4.2	YB132S ₁ -2	5.5	150	
65AY100	25	110	2950	47	3.2	15.9	YB180M-2	22	180	
65AY100A	23	92	2950	46	3.1	12.5	YB160L-2	18.5	180	
65AY100B	21	73	2950	45	3	9.3	YB160M ₂ -2	15	180	
65AY100×2	25	200	2950	47	2.8	29	YB200L ₂ -2	37	280	
65AY100×2A	23	180	2950	46	2.8	24.5	YB200L ₂ -2	37	280	
65AY100×2B	21.5	155	2950	45	2.7	20.2	YB200L ₁ -2	30	280	
65AY100×2C	19.5	130	2950	44	2.7	15.7	YB180M-2	22	280	
80AY60	50	60	2950	62	3.2	13.2	YB160L-2	18.5	160	
80AY60A	45	49	2950	61	3.2	9.8	YB160M ₂ -2	15	160	
80AY60B	40	39	2950	60	3.1	7.1	YB160M ₁ -2	11	160	
80AY100	50	100	2950	56	3.1	24.3	YB200L ₂ -2	37	200	
80AY100A	45	85	2950	55	3.1	18.9	YB200L ₁ -2	30	200	
80AY100B	41	73	2950	54	2.9	15.1	YB180M-2	22	200	
80AY100×2	50	200	2950	57	3.6	47.8	YB280S-2	75	350	
80AY100×2A	46	175	2950	55	3.5	39.9	YB250M-2	55	350	
80AY100×2B	43	150	2950	54	3.3	32.5	YB225M-2	45	350	
80AY100×2C	40	125	2950	52	3.3	26.2	YB200L ₂ -2	37	350	
100AY60	100	60	2950	70	4.1	23.3	YB200L ₁ -2	30	170	
100AY60A	90	49	2950	61	4.5	18.8	YB200L ₁ -2	30	170	
100AY60B	79	38	2950	65	3.5	12.6	YB160L-2	18.5	170	
100AY120	100	120	2950	63	4.3	51.9	YB280S-2	75	285	
100AY120A	93	105	2950	61	4	43.6	YB250M-2	55	285	
100AY120B	85	88	2950	59	3.8	34.5	YB225M-2	45	285	
100AY120C	78	75	2950	56	3.6	28.5	YB200L ₂ -2	37	285	

AY型单、两级离心油泵性能表 AY-TYPE SINGLE TWO-STAGE CENTRIFUGAL LUBRO-PUMP PERFORMANCE CHART

性能参数 Performance parameter 型号 Model	流量 Capacity Q m³/h	扬程 Head H m	转速 Speed n r/min	效率 Efficient η %	汽蚀余量 Cavitation superfluity NPSH m	轴功率 Shaft power Pa kW	配带电机Equipment motor		泵重 Pump weight kg	附注 Annotations
							型号Model	功率Power kW		
40AY40×2	6.25	80	2950	30	2.7	4.5	YB132S ₂ -2	7.5	165	
40AY40×2A	5.85	70	2950	30	2.6	3.7	YB132S ₁ -2	5.5	165	
40AY40×2B	5.4	60	2950	30	2.5	2.9	YB112M-2	4	165	
40AY40×2C	4.9	50	2950	30	2.5	2.2	YB100L-2	3	165	
50AY60	12.5	67	2950	42	2.9	5.4	YB132S ₂ -2	7.5	110	
50AY60A	11	53	2950	39	2.8	4.1	YB132S ₁ -2	5.5	110	
50AY60B	10	40	2950	37	2.8	2.9	YB112M-2	4	110	
50AY60×2	12.5	120	2950	35	2.4	11.7	YB160L-2	18.5	170	
50AY60×2A	12	105	2950	35	2.3	9.8	YB160M ₂ -2	15	170	
50AY60×2B	11.5	89	2950	33	2.2	8.4	YB160M ₁ -2	11	170	
50AY60×2C	11	78	2950	33	2.2	7.1	YB160M ₁ -2	11	170	
65AY60	25	60	2950	52	3	7.9	YB160M ₁ -2	11	150	
65AY60A	22.5	49	2950	51	3	5.9	YB132S ₂ -2	7.5	150	
65AY60B	20	38	2950	49	2.7	4.2	YB132S ₁ -2	5.5	150	
65AY100	25	110	2950	47	3.2	15.9	YB180M-2	22	180	
65AY100A	23	92	2950	46	3.1	12.5	YB160L-2	18.5	180	
65AY100B	21	73	2950	45	3	9.3	YB160M ₂ -2	15	180	
65AY100×2	25	200	2950	47	2.8	29	YB200L ₂ -2	37	280	
65AY100×2A	23	180	2950	46	2.8	24.5	YB200L ₁ -2	37	280	
65AY100×2B	21.5	155	2950	45	2.7	20.2	YB200L ₁ -2	30	280	
65AY100×2C	19.5	130	2950	44	2.7	15.7	YB180M-2	22	230	
80AY60	50	60	2950	62	3.2	13.2	YB160L-2	18.5	160	
80AY60A	45	49	2950	61	3.2	9.8	YB160M ₂ -2	15	160	
80AY60B	40	39	2950	60	3.1	7.1	YB160M ₁ -2	11	160	
80AY100	50	100	2950	56	3.1	24.3	YB200L ₂ -2	37	200	
80AY100A	45	85	2950	55	3.1	18.9	YB200L ₁ -2	30	200	
80AY100B	41	73	2950	54	2.9	15.1	YB180M-2	22	200	
80AY100×2	50	200	2950	57	3.6	47.8	YB280S-2	75	350	
80AY100×2A	46	175	2950	55	3.5	39.9	YB250M-2	55	350	
80AY100×2B	43	150	2950	54	3.3	32.5	YB225M-2	45	350	
80AY100×2C	40	125	2950	52	3.3	26.2	YB200L ₂ -2	37	350	
100AY60	100	60	2950	70	4.1	23.3	YB200L ₁ -2	30	170	
100AY60A	90	49	2950	61	4.5	18.8	YB200L ₁ -2	30	170	
100AY60B	79	38	2950	65	3.5	12.6	YB160L-2	18.5	170	
100AY120	100	120	2950	63	4.3	51.9	YB280S-2	75	285	
100AY120A	93	105	2950	61	4	43.6	YB250M-2	55	285	
100AY120B	85	88	2950	59	3.8	34.5	YB225M-2	45	285	
100AY120C	78	75	2950	56	3.6	28.5	YB200L ₂ -2	37	285	

单级单吸悬臂式离心油泵结构图(一) SINGLE STAGE SINGLE SUCTION CANTILEVER CENTRIFUGAL LUBRO-PUMP STRUCTURE CHART (I)

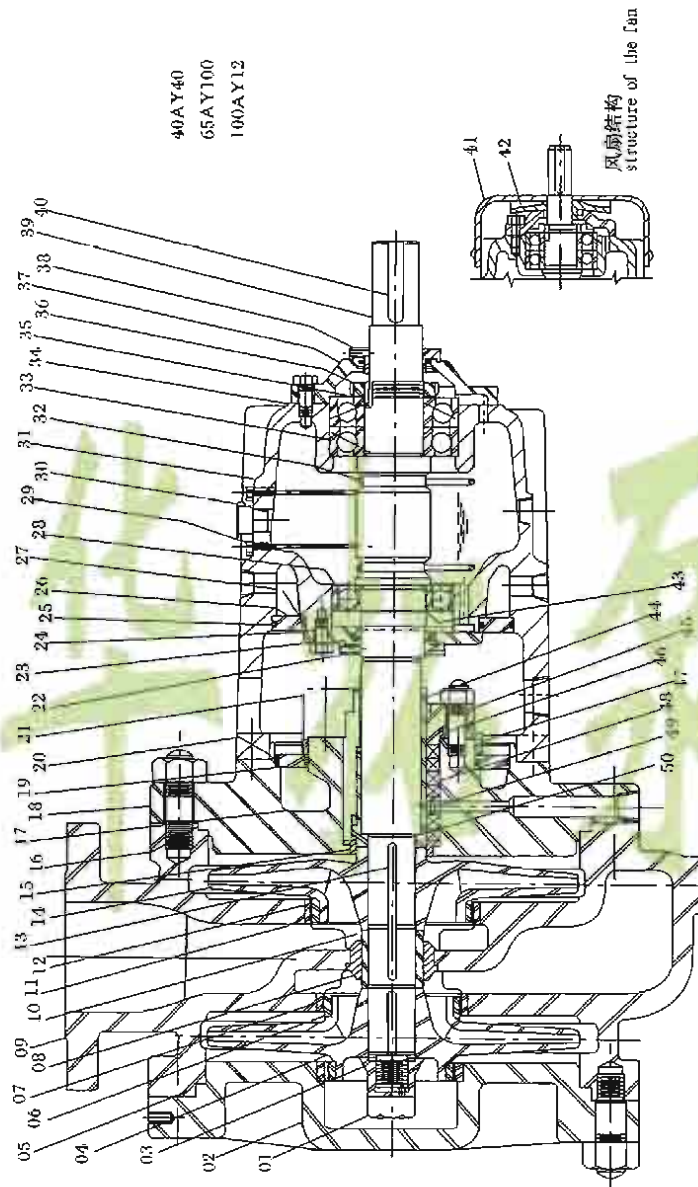


50AY60 65AY60 65AY100
80AY60 80AY100 100AY60
100AY120 150AY75 150AY150
200AY75 200AY150

风扇结构
structure of the fan

01	泵体 Pump body	10	O形密封圈 O-shape sealing	19	O形密封圈 O-shape sealing	28	推力球轴承 Thrust ball bearing	37	风扇 Fan
02	叶轮螺母 Impeller nut	11	垫 Gasket	20	轴承水冷腔盖 Front Water-cooling cavity cover	29	垫 Gasket	38	轴套 Axle sleeve
03	叶轮密封环 Impeller seal ring	12	泵盖 Pump cover	21	O形密封圈 O-shape seal ring	30	垫圈 Washer	39	填料压盖 Packing gland
04	壳体密封环 Casing seal ring	13	O形密封圈 O-shape seal ring	22	径向球轴承 Radial ball bearing	31	锁紧螺母 Locking nut	40	固定环锁紧板 Fixed ring locking board
05	叶轮轴 Impeller key	14	水冷腔盖 Water-cooling cavity cover	23	卡环 Clasp	32	后轴承压盖 Back bearing gland	41	腔盖固定块 Cavity fixed ring
06	叶轮密封环 Impeller seal ring	15	机械密封部件 Mechanical seal parts	24	挡气罩 Relief plug	33	防尘盖 Dust dish	42	填料 Filler
07	壳体密封环 Casing seal ring	16	防尘盖 Dust dish	25	定位杆 Locating level	34	轴 Axle	43	填料环 Packing ring
08	叶轮 Impeller	17	前轴承压盖 Front bearing cover	26	轴承盖架体 Bearing hanger body	35	联轴器键 Coupling key	44	轴套垫 Axle sleeve gasket
09	喉部衬套 Throat bush	18	垫 Gasket	27	尾销环 Slinger	36	风扇罩 Fan guard	45	

两级单吸悬臂式离心油泵结构图(二) STRUCTURE DRAWING OF DOUBLE-STAGE SINGLE SUCTION CANTILEVER CENTRIFUGAL OIL PUMP (2)



01	叶轮螺母 Impeller nut	10	级间轴套 Interstage axle housing	19	水冷腔盖 Water-cooling cavity cover	28	后轴承盖 Back bearing gland	37	固定环螺母 Fixed ring locking board
02	前泵盖 Front pump cover	11	壳体密封环(一级) Casing body seal ring(class-1)	20	O形密封圈 O-shape seal ring	29	防尘盘 Dust dish	46	腔盖固定环 Cavity fixed ring
03	叶轮键 Impeller key	12	叶轮密封环(一级) Impeller seal ring(class-1)	21	机械密封零件 Mechanical seal parts	30	轴 Shaft	48	填料 Packing
04	叶轮(二级) Impeller(class-2)	13	叶轮键 Impeller key	22	防尘盘 Dust dish	31	联轴器键 Coupling key	49	填料环 Packing ring
05	垫 Gasket	14	叶轮(一级) Impeller(class-1)	23	前泵盖 Front pump cover	32	风扇罩 Fan guard	50	轴套垫 Axle sleeve gasket
06	叶轮密封环(二级) Impeller seal ring(class-2)	15	喉部衬套 Throat casing bush	24	垫 Gasket	33	推力球轴承 Thrust ball bearing		
07	壳体密封环(二级) Casing seal ring(class-2)	16	泵盖垫 Pump cover Gasket	25	O形密封圈 O-shape seal ring	34	卡环 Clasp		
08	级间衬套 Interstage casing bush	17	O形密封圈 O-shape seal ring	26	轴套冷却腔盖 Axle sleeve cooling cavity cover	35	垫圈 Washer		
09	泵体 Pump Casing	18	泵盖 Pump cover	27	O形密封圈 O-shape seal ring	36	锁紧螺母 Locking nut		
							45	填料压盖 Packing gland	

AY型单级离心油泵外形及安装尺寸表 AY-TYPE SINGLE STAGE CENTRIFUGAL LUBRO-PUMP OUTER SHAPE AND INSTALLING SIZE FORM (mm)

泵型号 Model	电机Motor		进口对焊法兰 Entrance welding neck steel (flange)										出口对焊法兰 Exit welding neck steel (flange)										附 注														
	型号 Model	功率 Power	A ₁	A ₂	A ₃	B ₁	B ₂	B ₃	B ₄	B ₅	B ₆	b ₁	H ₁	H ₂	H	h	L	L ₁	L ₂	L ₃	L ₄	L ₅		I	d ₁	D ₁	h	P [*]	d ₂	D ₂	h	P [*]	d ₃	D ₃	h ₁	P [*]	
50AY60	YB90S-2	1.5																	360																		
	YB90L-2	22	1190	800	195							225				90	335		335																		
	YB100L-2	30				660	600									100	380		430																		
	YB112M-2	4.0														112	400		460																		
	YB132S ₁ -2	5.5	1305	900	203			580	455	125	75			220	400		470	668		510	150	525	60	105	400	50	58	43	2.5	40	46	48	48	2.5			
	YB132S ₂ -2	7.5										240				160	530		655																		
65AY60	YB160M ₁ -2	11																	695																		
	YB160L-2	18.5																	695																		
	YB100L-2	3.0	1190	800	195							225				100	380		430																		
	YB112M-2	4.0				660	600								112	400		460																			
	YB132S-2	5.5	1305	900	203			580	455	125	85			250	400		470	670		510	150	525	55	110	400	65	74	52	2.5	50	58	48	48	2.5			
	YB160M ₂ -2	15										240				160	530		655																		
65AY100	YB132S ₁ -2	5.5	1305	900	203	660	600									132	470		510																		
	YB132S ₂ -2	7.5										240				160	530		675	150	525	60	105	400	66	74	52	2.5	48	58	48	48	2.5				
	YB160M ₁ -2	11														180	565		730																		
	YB160L-2	18.5														200	625		803																		
	YB180M-2	22																																			
	YB200L ₁ -2	30	1480	900	290	660	160					290																									
80AY60	YB200L ₂ -2	37																																			
	YB132S ₁ -2	5.5	1305	900	203	660	600									132	470		510																		
	YB132S ₂ -2	7.5																																			
	YB160M ₁ -2	11																																			
	YB160M ₂ -2	15	1345	915	215	670	610					240	400	250			530	682.5	655	150	525	60	105	400	80	90	55	2.5	65	74	52	52	2.5				
	YB160L-2	18.5														180	565		695																		
80AY100	YB180M-2	22	1480	900	290	680	800																														
	YB132S ₁ -2	5.5	1305	900	203																																
	YB132S ₂ -2	7.5																																			
	YB160M ₁ -2	11																																			
	YB160M ₂ -2	15	1345	915	215	670	610					240	400	280			530	682.5	655	150	525	60	105	400	80	90	55	2.5	65	74	52	52	2.5				
	YB160L-2	18.5														180	565		730																		

注: P*是公称压力(MPa) Note: P* is nominal pressure (MPa)

AY型单级离心油泵外形及安装尺寸表 AY-TYPE SINGLE STAGE CENTRIFUGAL LUBRO-PUMP OUTER SHAPE AND INSTALLING SIZE FORM (mm)

泵型号 Model	电机Motor														进口对焊法兰 Intrance welding neck flange (flange)												出口对焊法兰 Exit welding neck flange (flange)												附 注
	型号 Model	功率 Power	A ₃	A ₂	A ₁	B ₁	B ₂	B ₃	B ₄	B ₅	B ₆	B ₇	H ₁	H ₂	H	L	L ₁	L ₂	L ₃	L ₄	L ₅	T	d ₁	D ₁	h ₁	P ₁	d ₂	D ₂	h ₂	P ₂									
80AY100	YB180M-2	22														180	565	730																					
	YB200L ₁ -2	30	1480	900	290	660	600	580	455	164	90	290	400	230	200	625	655	150	525	60	105	400	80	90	55	2.5	65	74	52	2.5									
	YB200L ₂ -2	37																																					
	YB225M-2	45														225	625	840																					
100AY60	YB132S ₁ -2	5.5	1305	900	203	660	600									132	470	510																					
	YB132S ₂ -2	7.5																																					
	YB160M ₁ -2	11																																					
	YB160M ₂ -2	15	1345	915	215	670	610	580	475	150	120	240	400	250	160	530	802.5	250	150	525	80	85	400	100	110	62	2.5	80	90	55	2.5								
	YB160L-2	18.5																695																					
	YB180M-2	22	1480	900	290	660	600									180	565	730																					
	YB200L ₁ -2	30														200	625	803																					
	YB200L ₂ -2	37																																					
	YB225M-2	45	1855	125	300											225	615	840																					
	YB250M-2	55														250	740	935																					
	YB280S-2	75	2040	1250	395											280	800	1010																					
	YB280M-2	90				970	900	870	730	240	150	560	400				1060	180	780	105	119	500	150	161	72	4.0	125	135	68	4.0									
150AY150	YB315S-2	110														315	1020	1240																					
	YB315M ₁ -2	132	2105	1250	428																																		
	YB315M ₂ -2	160															1380																						
	YB355S ₁ -2	185	2265	1500	382											355	1100	1600																					
	YB355S ₂ -2	200																																					
	YB160L-2	18.5														160	530	695																					
	YB180M-2	22														180	565	730																					
	YB200L ₁ -2	30	1670													200	625	803																					
150AY75	YB200L ₂ -2	37																																					
	YB225M-2	45														225	670	840																					
	YB250M-2	55	1000			770	700	680	545	165	150	440	360		250	770	935	180	640	115	85	500	150	161	72	4.0	125	135	68	4.0									
	YB280S-2	75	1870													280	830	1010																					
	YB280M-2	90																1060																					
	YB315S-2	110	1960													315	1020	1240																					
	YB315S ₂ -2	110																																					

注: P*是公称压力(MPa) Note: P* is nominal pressure (MPa)

AY型单级离心油泵外形及安装尺寸表 AY-TYPE SINGLE STAGE CENTRIFUGAL LUBRO-PUMP OUTER SHAPE AND INSTALLING SIZE FORM (mm)

泵型号 Model	电机Motor		A ₁	A ₂	A ₃	B ₁	B ₂	B ₃	B ₄	B ₅	B ₆	h ₁	H ₁	H ₂	H	h	L	L ₁	L ₂	L ₃	L ₄	T	进口对焊法兰 Importance welding neck steel (flange)				出口对焊法兰 Exit welding neck steel (flange)				附注			
	型号 Model	功率 Power																					d ₁	D ₁	d ₂	D ₂	d ₃	D ₃	d ₄	D ₄		d ₅	D ₅	d ₆
200AY75	YB180M-2	22										240	180	565	730																			
	YB200L ₁ -2	30	1675	1075								250	200	625	815																			
	YB200L ₂ -2	37											225	670	840																			
	YB225M-2	45											360	250	770	925	1010																	
	YB250M-2	55			300	955	885	850	685	187	165	330	280	830	1060																			
	YB280M-2	75	1880	640									500				1060																	
200AY150	YB315S-2	110	1960	680								400	315	1020	1240																			
	JB315S-2	110										460					1240																	
	YB200L ₁ -2	30										250	200	625	815																			
	YB200L ₂ -2	37	1950	1150	340	960		865					550	225	670	840																		
	YB225M-2	45												250	770	955																		
	YB250M-2	55					940					330	280	830	1010																			
200AY150	YB280S-2	75																																
	YB280M-2	90																																
	YB315S-2	110	2120	1250	355	970		870				330	280	830	1078	1060	1380																	
	YB315M ₁ -2	132																																
	YB315M ₂ -2	160																																
	YB355S-2	185																																
100AY120	YB355S ₁ -2	200	2312	850	300	1020	950	904				600	440		355	1100	1600																	
	YB355S ₂ -2	220																																
	YB160L-2	18.5										240	160	530	695																			
	YB180M-2	22												480	565	730																		
	YB200L ₁ -2	30	1670	1035										200	625	815																		
	YB200L ₂ -2	37										250	225	670	840																			
100AY120	YB225M-2	45			1000		770	700	684	545	184	151	330	250	770	955	180	640	105	95	500	200	200	222	88	40	150	161	72	40				
	YB250M-2	55																																
	YB280S-2	75	1870	635									330	280	830	1010																		
	YB280M-2	90																																
	YB315S-2	110	1960	680								480	315	1020	1240																			
	JB315S-2	110			484							460					1280																	

注:P*是公称压力(MPa) Note: P* is nominal pressure (MPa)

AY型单级离心油泵外形及安装尺寸表 AY-TYPE SINGLE STAGE CENTRIFUGAL LUBRO-PUMP OUTER SHAPE AND INSTALLING SIZE FORM (mm)

泵型号 Model	电机Motor		A ₁	A ₂	A ₃	B ₁	B ₂	B ₃	B ₄	B ₅	B ₆	R ₁	R ₂	R ₃	H ₁	H ₂	H ₃	H ₄	L	L ₁	L ₂	L ₃	L ₄	T	进口对焊法兰 Entrance welding neck steel (flange)				出口对焊法兰 Exit welding neck steel (flange)				附 注			
	型号 Model	功率 Power																							d ₁	D ₁	d ₂	D ₂	d ₃	D ₃	d ₄	D ₄		d ₅	D ₅	d ₆
250AYS80	YB225M-2	45													290		225	670	1440																	
	YB250M-2	55	2180	810	310										330		250	770	935																	
	YB280S-2	75															280	830	1010																	
	YB280M-2	90																	1060																	
	YB315S-2	110													480		315	1020	1250																	
	YB315M-2	132																	1380																	
	YB315M ₁ -2	160																																		
	YB355S ₁ -2	185				970	900	870	700	195	225				600		590	450	815	1100	1600	280	820	0	230	400	250	278	85	2.5	200	222	80	2.5		
	YB355S ₂ -2	200	2330	800	400																															
	YB315S ₁ -2	110														450		315	850																	
YB315M-2	160														600		355	950																		
250AYS150	YB220S-2	75	2336	1400											330	620	280	830			1010															
	YB280M-2	90																		1060																
	YB315S-2	110																		1250																
	YB315M ₁ -2	132	2356	1420	450										480		315	1020			1380															
	YB315M ₂ -2	160				1010	940	885																												
	YB355S-2	185													720																					
	YB355S ₁ -2	200																		1600																
	YB355S ₂ -2	220	2500	1500	500																															
	YB355S ₃ -2	250																																		
	YB355M-2	280	2530													600		355	1100			1600	280	791	0	340	500	250	278	102	4.0	200	220	88	4.0	
250AYS150	YB355L-2	315																		1730																
	YB400S-2	200																																		
	YB400S ₁ -2	220																																		
	YB400M ₁ -2	250	2000			1240	1140	1050							550		400	1160			1880															
	YB400M ₂ -2	280	3020																																	
	YB450S ₁ -2	315																																		
	YB450S ₂ -2	355																																		
	YB450S ₃ -2	400																																		

注: P*是公称压力(MPa) Note: P* is nominal pressure (MPa)

AY型两级离心油泵外形及安装尺寸表 OVERALL AND INSTALLATION DIMENSIONS FORM OF AY TYPE DOUBLE-STAGE CENTRIFUGAL OIL PUMP (mm)

泵型号 Model	电机Motor		A ₁	A ₂	A ₃	B ₁	B ₂	B ₃	B ₄	B ₅	B ₆	H ₁	H ₂	H ₃	H	b	L	L ₁	L ₂	L ₃	L ₄	L ₅	T	进口对焊法兰 Entrance welding neck steel (flange)				出口对焊法兰 Exit welding neck steel (flange)				附注			
	型号 Model	功率 Power																						d ₁	D ₁	b ₁	p*	d ₂	D ₂	b ₂	p*		d ₃	D ₃	b ₃
40AY40×2	YB90S-2	1.5										225			90	355	385																		
	YB90L-2	2.2										225			100	380	430																		
	YB100L-2	3.0		1210	800							225			200	400	460																		
	YB112M-2	4.0				205	610	550	520	410	110	60	225			112	400	460																	
	YB132S ₁ -2	5.5										240																							
	YB132S ₂ -2	7.5		1315	900							240																							
50AY60×2	YB90L-2	2.2													90	355	385																		
	YB100L-2	3		1210	900							225			100	380	430																		
	YB112M-2	4				205						225			112	400	460						96												
	YB132S ₁ -2	5.5										240																							
	YB132S ₂ -2	7.5		1315	900							240			340	470	510																		
	YB160M ₁ -2	11																																	
65AY100×2	YB160M ₂ -2	15		1390	920	220									160	530	655						101												
	YB160L-2	18.5																																	
	YB160M ₁ -2	11													160	530	655																		
	YB160M ₂ -2	15										240			180	565	730																		
	YB180M-2	22	1716		363							240			200	625	830																		
	YB200L ₁ -2	30				730	660	640	500	160	105		290			410	620	840																	
80AY100×2	YB200L ₂ -2	37		1000												225	670	840																	
	YB225M-2	45														250	770	935																	
	YB250M-2	55																																	
	YB280S-2	75	1920		460							330			280	830	1010																		
	YB280M-2	90																																	
	YB180M ₁ -2	11																																	
100AY100×2	YB160M ₂ -2	15										240			160	530	655																		
	YB180L-2	18.5													180	565	730																		
	YB180M-2	22	1716		363							240			200	625	830																		
	YB200L ₁ -2	30				730	660	640	500	160	105		290			410	620	840																	
	YB200L ₂ -2	37		1000												225	670	840																	
	YB225M-2	45														250	770	935																	
150AY100×2	YB250M-2	55																																	
	YB280S-2	75	1920		460							330			280	830	1060																		
	YB280M-2	90																																	
	YB180M ₁ -2	11																																	
	YB160M ₂ -2	15										240			160	530	655																		
	YB180L-2	18.5													180	565	730																		
200AY100×2	YB180M-2	22	1716		363							240			200	625	830																		
	YB200L ₁ -2	30				730	660	640	500	160	105		290			410	620	840																	
	YB200L ₂ -2	37		1000												225	670	840																	
	YB225M-2	45														250	770	935																	
	YB250M-2	55																																	
	YB280S-2	75	1920		460							330			280	830	1060																		

注: P*是公称压力(MPa) Note: P* is nominal pressure (MPa)

AY型两级离心油泵外形及安装尺寸表 OVERALL AND INSTALLATION DIMENSIONS FORM OF AY TYPE DOUBLE-STAGE CENTRIFUGAL OIL PUMP (mm)

泵型号 Model	电机Motor		A ₂	A ₁	B ₁	B ₂	B ₃	B ₄	B ₅	B ₆	H ₁	H ₂	H ₃	H ₄	H ₅	H ₆	L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	T	进口对焊法兰 Entrance welding neck steel (flange)				出口对焊法兰 Exit welding neck steel (flange)				附 注				
	型号 Model	功率 Power																							d ₁	D ₁	d ₂	D ₂	d ₃	D ₃	d ₄	D ₄		d ₅	D ₅	d ₆	D ₆
100AY 120×2	YB200L ₁ -2	30																808																			
	YB200L ₂ -2	37	1965	360														200	625																		
	YB225M ₁ -2	45																	840																		
	YB225M ₂ -2	55																	840																		
	YB250M ₁ -2																		945																		
	YB280S ₁ -2	75	2150	1250	450														935	1010	260	715	130	190	500	500	100	110	68	4.0	4.0	80	90	58	4.0		
	YB280M ₁ -2	90																	1060																		
	YB315S ₁ -2	110																	1240																		
150AY 150×2	YB315M ₁ -2	132	2215	482	870	800	790												1380																		
	YB315M ₂ -2	160																	1380																		
	YB280S ₂ -2	75																	1010																		
	YB280M ₂ -2	90																	1060																		
	YB315S ₂ -2	110																	1240																		
	YB315M ₂ -2	132																	1240																		
	YB315M ₂ -2	160																	1380																		
	YB355S ₂ -2	185																																			
	YB355S ₂ -2	200	2536	850	420														1600																		
	YB355S ₂ -2	220																																			
	YB355S ₂ -2	250																																			
	YB355M ₂ -2	280																	1730																		
200AY 150×2	YB355L ₂ -2	315																	1780																		
	YB400S ₁ -2	200																																			
	YB400S ₂ -2	220																																			
	YB400M ₁ -2	250	3040	810	300																																
	YB400M ₂ -2	280																	1880																		
	YB450S ₁ -2	315																																			
	YB450S ₂ -2																																				
	YB315S ₂ -2	110																	1990																		
	YB315M ₂ -2	132																	1990																		
	YB315M ₂ -2	160																	1990																		
	YB355S ₂ -2	185																																			
	YB355S ₂ -2	200	2420	800	420	1120	1050	1000	775	210	130								1730																		
YB355S ₂ -2	220																																				
YB355M ₂ -2	280																																				
YB355L ₂ -2	315																																				
YB400S ₂ -2	200																																				

注:P*是公称压力(MPa) Note: P* is nominal pressure (MPa)

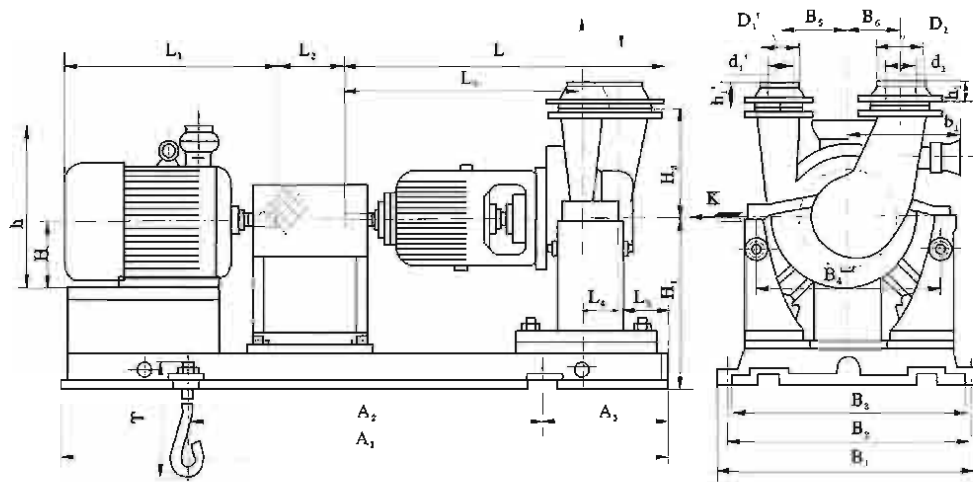
AY型两级离心油泵外形及安装尺寸表 OVERALL AND INSTALLATION DIMENSIONS FORM OF AY TYPE DOUBLE-STAGE CENTRIFUGAL OIL PUMP (mm)

泵型号 Model	电机Motor		A ₁	A ₂	A ₃	B ₁	B ₂	B ₃	B ₄	B ₅	B ₆	b ₁	H ₁	H ₂	H ₃	H	L	L ₁	L ₂	L ₃	L ₄	L ₅	T	进口对焊法兰 Entrance welding neck steel (flange)				出口对焊法兰 Exit welding neck steel (flange)				附 注	
	型号 Model	功率 Power																						d ₁	D ₁	b ₁	p ₁	d ₂	D ₂	b ₂	p ₂		d ₃
200AY 150×2	YB400S ₂ -2	220																1780															
	YB400M ₂ -2	250																1880															
	YB400M ₂ -2	280	2420	800	420	1120	1050	1000	775	210	130	550	700	400			1611	280	668	255	265	630	198	222	116	6.4	142	161	118	6.4			
	YB450S ₂ -2	315																															
	YB450S ₂ -2	355																1990															
	YB450S ₂ -2	400																															
250AYS 150×2	YB315M ₂ -2	160	2664	900	450	1194	1124	1064				480	720				315	1020	1380			297											
	YB355S ₂ -2	185																															
	YB355S ₂ -2	200																															
	YB355S ₂ -2	220	2943	1000								600	780					1600				305											
	YB355S ₂ -2	250																															
	YB355M ₂ -2	280																															
	YB355L ₂ -2	315																	1730														
	YB400S ₂ -2	200																															
	YB400S ₂ -2	220			600													1780															
	YB400M ₂ -2	250							920	245	116		450				1863	280	793	400		295		630	246	278	122	6.4	198	222	116	6.4	
	YB400M ₂ -2	280				1280	1180																										
	YB450S ₂ -2	315	3420	1110								550						1880															6000V
	YB450S ₂ -2	355																															
	YB450S ₂ -2	400																1990															
	YB450M ₂ -2	450																2110															
	YB450M ₂ -2	500																2350															
	JB0710S ₂ -2	560																															
	JB0710M ₂ -2	630	1970	1010	510			1090				1140					710	1432	2450			305											
	JB0710M ₂ -2	710																															

注: P*是公称压力(MPa) Note: P* is nominal pressure (MPa)

AY型单级悬臂式油泵外形及安装尺寸图

AY-TYPE SINGLE STAGE CANTILEVER LUBRO-PUMP OUTLINE AND INSTALLING SIZE CHART



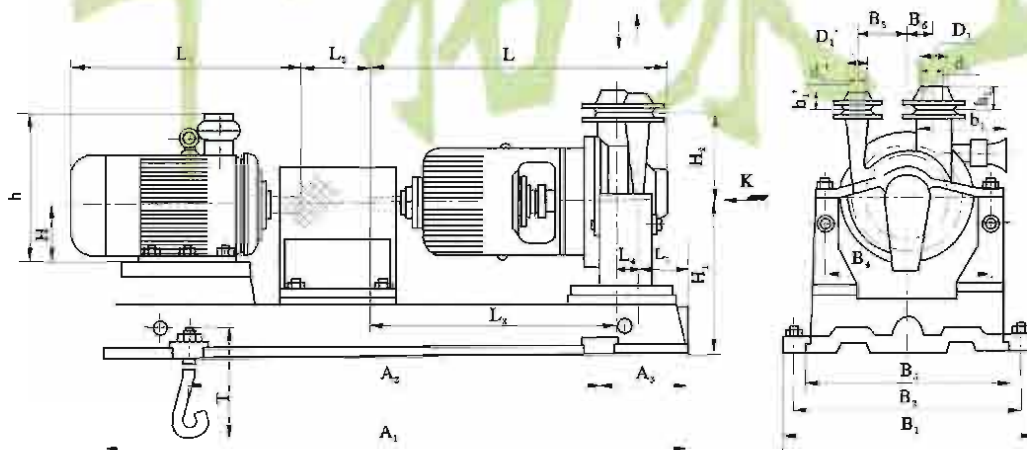
适用于:

It applies in:

50AY60	65AY60	65AY100
80AY60	80AY100	100AY60
100AY120	150AY75	
150AY150	200AY75	
200AY150	250AYS80	

AY型两级悬臂式油泵外形及安装尺寸图

OUTLINE AND INSTALLATION DIMENSIONS DRAWING OF AY TYPE DOUBLE-STAGE CANTILEVER OIL PUMP



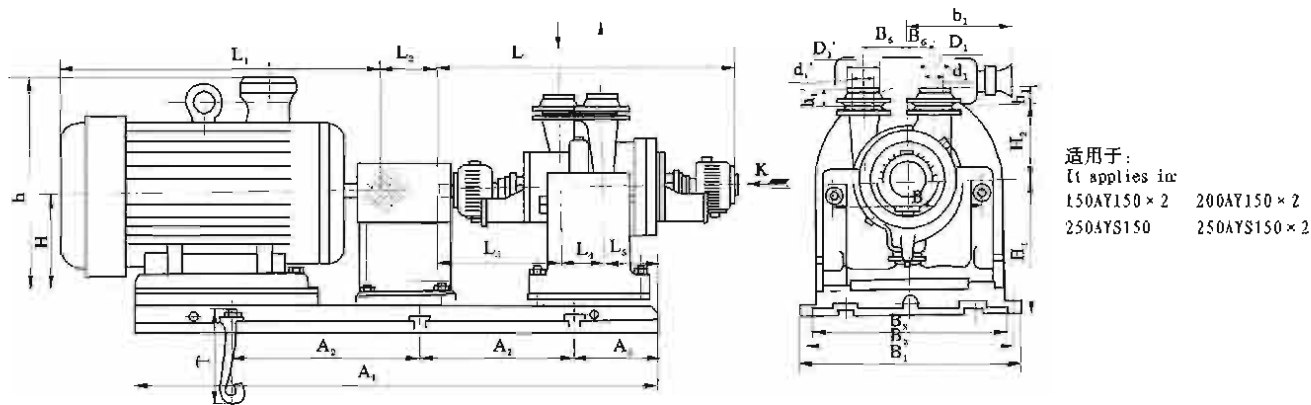
适用于:

It applies in:

40AY40 × 2	50AY60 × 2
65AY100 × 2	80AY100 × 2
100AY120 × 2	

AY型两端支承式油泵外形及安装尺寸图

OUTLINE AND INSTALLATION DIMENSIONS DRAWING OF AY TYPE BOTH ENDS SUPPORTED OIL PUMP



成套供应范围

1.泵; 2.原动机, 根据用户需要, 可配带防爆电机, 普通电机, 汽轮机或柴油机; 3. 底座和地脚螺栓; 4. 联轴器和联轴器罩; 5. 带部分冷却和密封管路系统或辅件, 不供辅助泵; 6. 泵进、出口对焊钢法兰。

订货须知

1. 应按照使用条件决定泵的规格、材料、冷却和密封管路系统及原动机。在订货时应提供流量、扬程、吸入压力、密度、温度及介质等, 并指出介质的易燃性、易爆性、毒性、腐蚀性、结晶性以及是否允许封液渗入介质内。
2. 若对原动机有特殊要求时, 用户应说明现场条件、环境温度 and 湿度、安装地点 (防爆、防火等要求), 电压大小。
3. 若用户需要选用轴封, 在订货时由制造厂按使用条件决定供货的型号及规格、材料、也可按用户要求的供货。
4. 以上要求均填写在《数据单》上。

Set supplying scope:

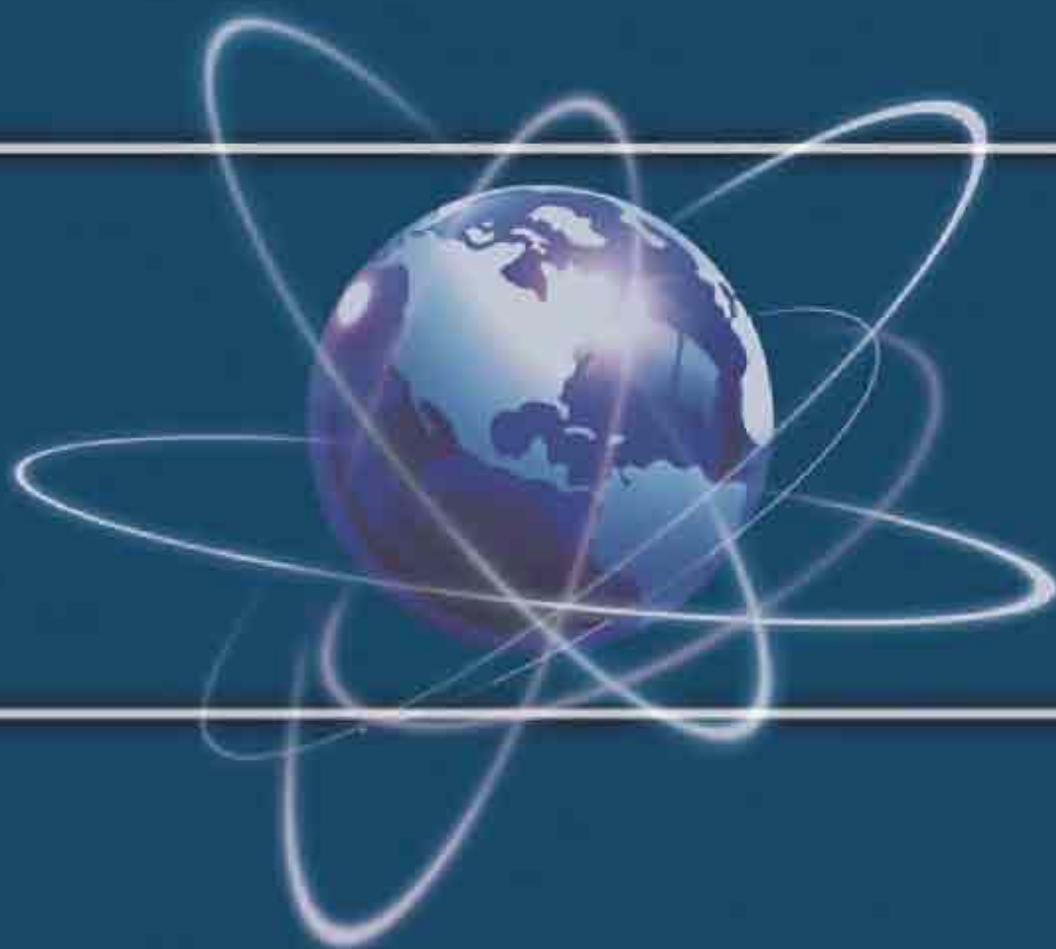
1. Pump 2. Mover, According to the demands of the customer, the explosive-proof motor, ordinal motor, steam turbine or diesel engine can be equipped. 3. Baseplate and anchor bolt 4. Coupling and coupling guard 5. with part of cooling and sealing line system or subsidiary parts, the auxiliary pump are not supplied. 6. Pump entrance welding neck steel flange and pump exit welding neck steel flange

Order notice

1. The specification, material, cooling and sealing pipe system, prime mover of the pump should be decided according to the service condition, so in the order, flow rate, delivery lift, suction pressure, density, temperature and medium should be put forward. In addition, inflammability, explosive -ability, poisonous- ability, corrosivity, crystal habit and whether permit seal liquid to seep into the medium or not should also be put forward.
2. If the customers have some special demands for the mover, they should express the spot condition, the surrounding temperature and humidity, installing field point (the demands of explosive proof, fire-proof) and the voltage value.
3. If the customers need to choose shaft seal, when ordering the product, it is up for the manufacturer to decide the type and specification materials of the seal, according to the application conditions, we also can supply the seal according to the demands of the customers.
4. The above-mentioned demands are all required to write on the data.



团结、务实、优质、创新



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