

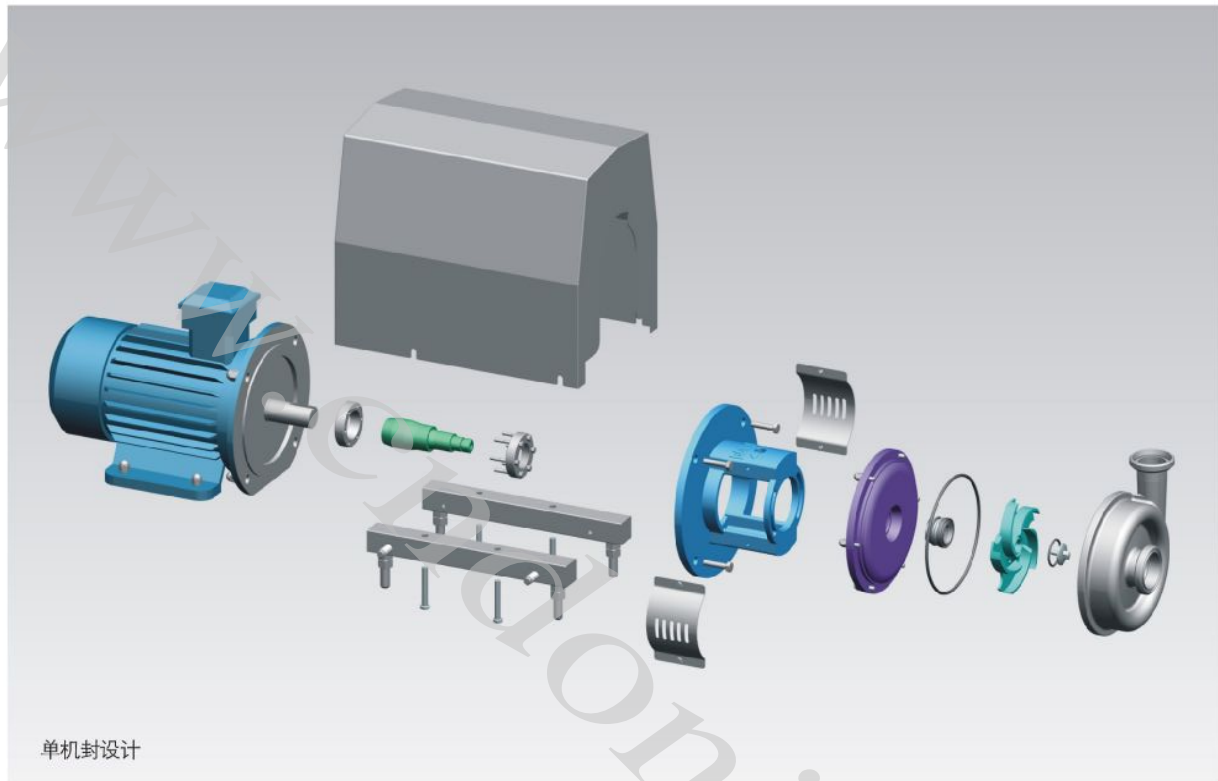
离心泵

CENTRIFUGAL PUMP



离心泵(KS系列)

CENTRIFUGAL PUMP (KS SERIES)



KS系列 KS Series

- 该离心泵是不锈钢制造，带有不锈钢电机外罩。
- 卫生和低成本效益的设计，使它非常适用于乳制品、饮料、食品加工，制药和精细化工工作中。

- The centrifugal pump is manufactured in stainless steel and with a shrouded motor.
- Sanitary and cost-efficient design makes it perfect for the dairies, beverages, food-processing, pharmaceutical and fine chemicals industries.

工作原理 Operating principles

- 叶轮安置在泵壳里面，它和泵轴一起在联合中旋转，叶轮刀片以动能和压能的形式将能量传达给流体。
- 该泵即使通过简单的反向旋转，也是不可行的。从电机后面也可以看出泵的旋转方向，正确的旋转方向，是顺时针的。

- Housed inside the casing, the impeller rotates in conjunction with the pump shaft. With this arrangement, the impeller blades convey energy to the fluid in the form of kinetic energy and pressure energy.
- This pump can't reversible by simple reversal of the direction of rotation. The direction of rotation is clockwise when the pump is viewed from the rear side of the motor.

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技术规格 Technical specifications

- 最大流量: 150m³/h
- 最高扬程: 70h(M)
- 最高温度: 120°C/248°F(满足30Min CIP/SIP)
- 最高转速: 3600Min-1
- 卫生认证: 3A-C2-10/NO.1579, 密封FDA.177.2600

- Max.Flow: 150m³/h
- Max.Head: 70h(M)
- Max.working temperature: 120 degree C/248 degree F (30Min CIP/SIP)
- Max.Rev: 3600Min-1
- Certificate: 3A-02-10/NO.1579,FDA.177.2600

设计和特点 Design and features

- 不锈钢电机外围由冷成型板做; 开式叶轮或闭式叶轮由不锈钢熔模铸造;
- 可调节不锈钢脚; 根据3A卫生标准认证; IEC或NEMA B35电机 IP55, F等级绝缘, 50HZ、60HZ。

- Casing manufactured with cold-formed plate.Open impeller and close impeller manufactured with stainless steel investment casting;
- Adjustable stainless steel legs,Pump designed according to 3A Sanitary standards. IEC B34 motors, IP 55, F-class insulation, 50HZ,60HZ

材质 Materials

- 与物料接触部位: AISI-316/304
- 垫圈(标准): EPDM(FDA)
- 机械密封圈(标准): SIC/SIC/EPDM
- 内表面处理: Ra≤0.8 μm
- 外表面处理: 喷沙处理或者抛光处理
- Parts in contact with pumped media: AISI-316/304
- Gaskets(standard): EPDM(FDA)
- Mechanical seal(standard): SIC/SIC/EPDM
- Inside surface finishing: Ra≤0.8 μm
- Outside surface finishing: Sandblast or Mirror polish

电机采用IEC EN IE2高效等级(相当于中国二级能效), PTC热敏电阻 Motor the IEC EN IE2(Equivalent to China two energy efficiency), PTC thermistor

宽电压电机Wide input range motor

功率(kw) Power	电压备注 Voltage	功率(kw) Power	电压备注 Voltage
0.55	210V~230V/50HZ 360V~400V/50HZ 420V~460V/60HZ	4	360V~400V/50HZ 630V~690V/50HZ 420V~460V/60HZ
0.75		5.5	
1.1		7.5	
1.5		11	
2.2		15	
3		18.5	
		30	

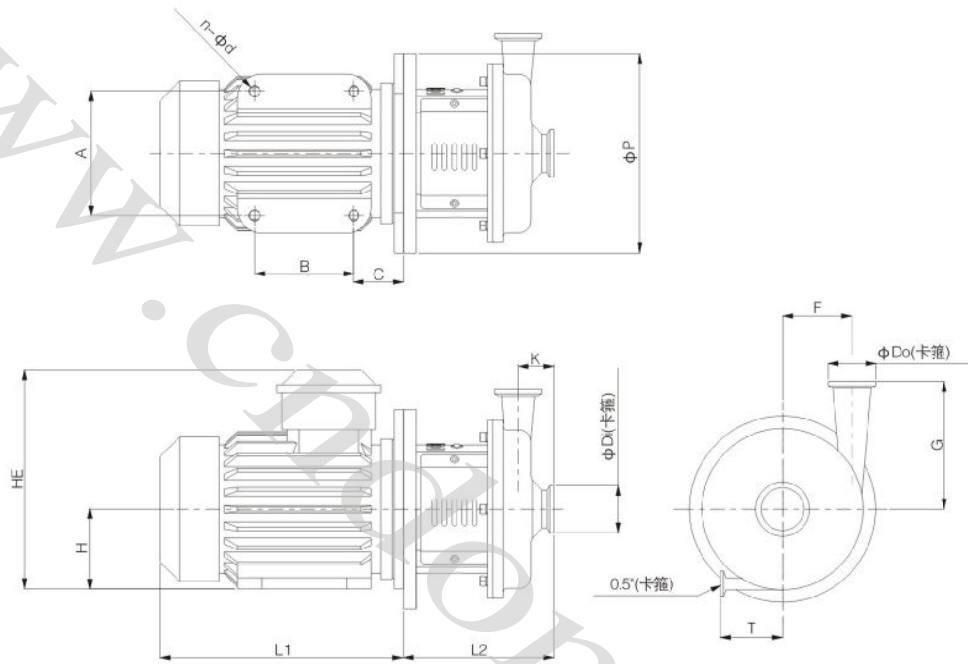
其他电压和频率电机请与东正联系
Please contact Donjoy for any other voltage or frequency of motor.

选项 Options

- 机械密封圈: C/SIC, TC/TC
- 垫圈: FPM(VITON)和NBR
- 进出口连接: 卡箍、螺纹、法兰、DIN、SMS、RJT、IDF 电机2900, 1450, 3600Min/1, 50HZ, 60HZ
- 单端面机械密封(标准)
- 水冲洗双端面机械密封(选项)
- Mechanical seal in: C/SIC,TC/TC
- Gaskets in: FPM(VITON)and NBR
- Connections: Clamp,thread,flange,DIN,SMS,RJT,IDF Motor 2900, 1450 ,3600rev./min., 50HZ, 60HZ
- Single mechanical seal(standard)
- Flushed couple mechanical seal(Options)



离心泵KS无防护罩系列



KS泵安装数据表(无罩)

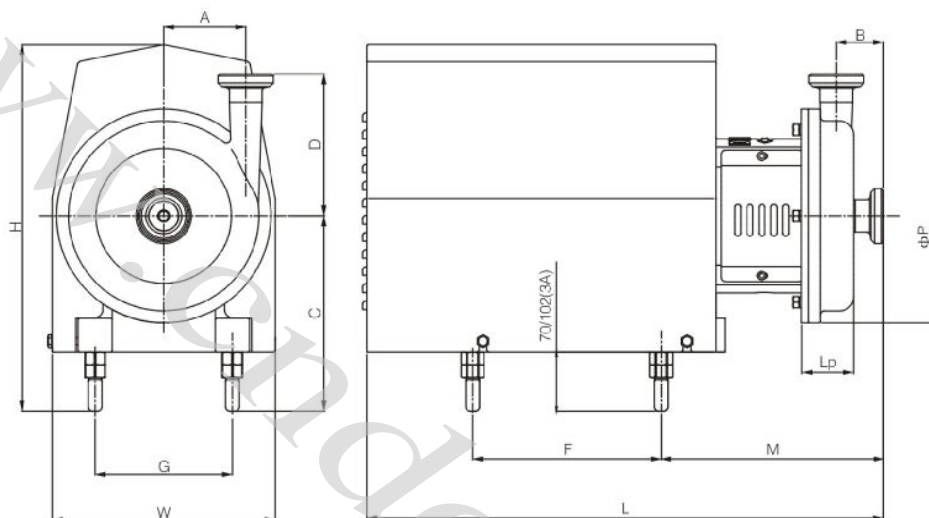
KS pump series installation table(no moter cover)

规格	功率 (kw)	A	B	C	H	HE	L1	P	n×d	K	F	G	T	L2	Di	Do
KS-5	0.75	125	100	50	80	200	245	200	4×10	50	63	130	62	173	1.5"	1.5"
KS-10	0.75	125	100	50	80	200	245	200	4×10	50	63	130	62	173	1.5"	1.5"
	1.1	125	100	50	80	200	245	200	4×10	50	63	130	62	177	1.5"	1.5"
	1.5	140	125	56	90	200	260	200	4×10	50	63	130	62	177	1.5"	1.5"
	2.2	140	125	56	90	200	285	200	4×10	50	63	130	62	178	1.5"	1.5"
KS-15	1.5	140	125	56	90	200	260	200	4×10	38	95.6	148	75	200	2"	1.5"
	2.2	140	125	56	90	200	285	200	4×10	38	95.6	148	75	200	2"	1.5"
	3.0	160	140	63	100	270	320	250	4×12	38	95.6	148	75	202	2"	1.5"
KS-20	3.0	160	140	63	100	270	320	250	4×12	39	90.2	148	75	205	2"	2"
	4.0	190	140	70	112	278	335	250	4×12	39	90.2	148	75	207	2"	2"
	5.5	216	140	89	132	320	405	300	4×12	39	90.2	148	75	216	2"	2"
KS-25	3.0	160	140	63	100	270	320	250	4×12	54	108	151	80	216	2"	1.5"
	4.0	190	140	70	112	278	335	250	4×12	54	108	151	80	218	2"	1.5"
KS-30	5.5	216	140	89	132	320	405	300	4×12	54	108	151	80	218	2.5"	2"
	7.5	216	178	89	132	320	425	300	4×12	54	108	151	80	220	2.5"	2"
KS-35	7.5	216	178	89	132	320	425	300	4×12	65	131	218	80	230	2.5"	1.5"
	11	254	210	108	160	400	490	350	4×15	65	131	218	80	266	2.5"	1.5"
	15	254	210	108	160	400	490	350	4×15	65	131	218	80	272	2.5"	1.5"
KS-40	11	254	210	108	160	400	490	350	4×15	73	105	202	80	266	2.5"	2.5"
	15	254	210	108	160	400	490	350	4×15	73	105	202	80	268	3"	2.5"
	18.5	254	254	108	160	400	535	350	4×15	73	105	202	80	265	3"	2.5"
	22	279	241	121	180	420	560	350	4×15	73	105	202	80	270	3"	2.5"

离心泵(KS系列)

CENTRIFUGAL PUMP (KS SERIES)

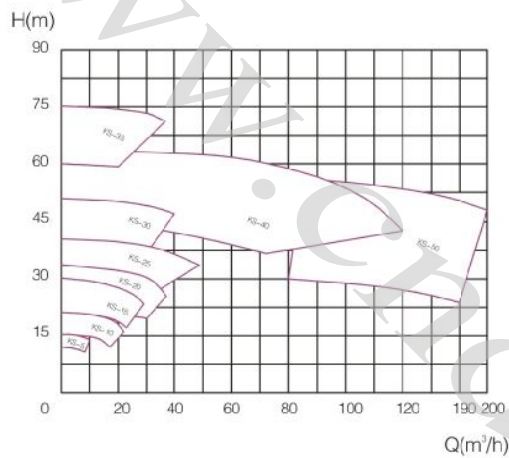
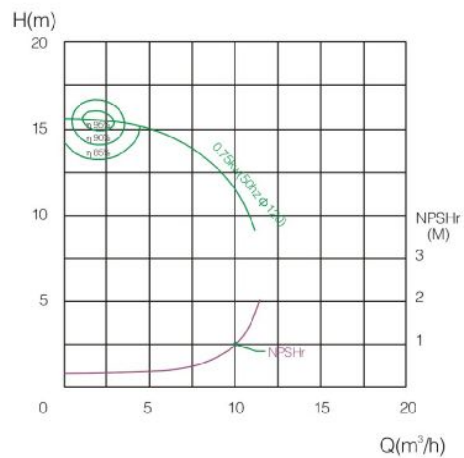
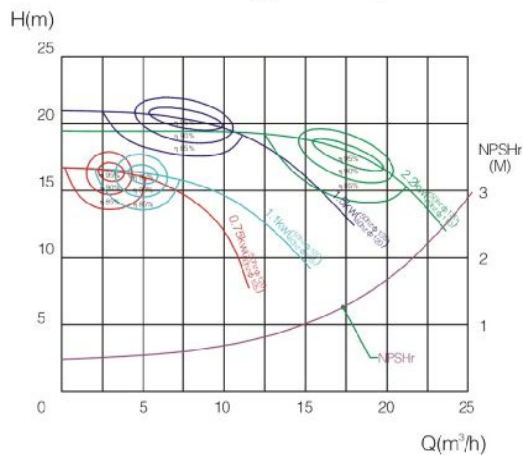
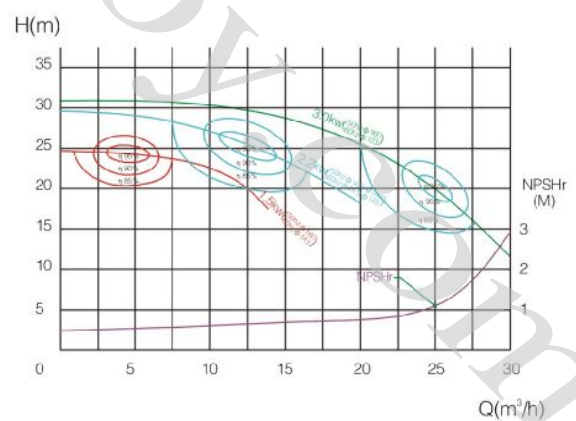
KS系列尺寸图



开式离心泵安装尺寸 Centrifugal Pump Open Impeller Series

型号 Model	泵头规格 Pump Dimension						外形安装尺寸 Assembly Dimension										3A标准	
	功率 Power (kw)	进口 Inlet d'/DN	出口 Outlet d'/DN	φ P	Lp	机械密封 Mechanical seal size	A	B	C	D	M	F	G	H	L	W	C	H
KS-5	0.75	1.5"/32	1.5"/32	189	50	φ 32	63	56.5	200	136	169	203	125	370	452	210	232	402
KS-10	0.75	1.5"/32	1.5"/32	189	50	φ 32			200		173	203	125	370	452	210	232	402
	1.1	1.5"/32	1.5"/32	189	50	φ 32			200		175	203	125	370	452	210	232	402
	1.5	1.5"/40	1.5"/40	189	50	φ 32			190		161	240	140	360	492	210	222	392
	2.2	1.5"/40	1.5"/40	189	50	φ 32			190		162	240	140	360	492	210	222	392
KS-15	1.5	2"/50	1.5"/40	250	61	φ 32	95.6	44	190	155	187	240	140	360	525	210	222	392
	2.2	2"/50	1.5"/40	250	61	φ 32			190		187	240	140	360	525	210	222	392
	3	2"/50	1.5"/40	250	61	φ 32			230		171	300	160	430	593	260	262	462
KS-20	3	2"/50	2"/50	250	74.5	φ 32	90.2	45	230	155	171	300	160	430	592	260	262	462
	4	2"/50	2"/50	250	74.5	φ 32			222		179	300	190	430	598	260	254	462
	5.5	2.5"/65	2"/50	250	74.5	φ 32			242		197	330	216	460	653	310	274	492
KS-25 KS-30	3	2"/50	1.5"/40	268	57	φ 32	108	60	230	158	173	300	160	430	590	260	262	462
	4	2"/50	1.5"/40	268	57	φ 32			222		181	300	190	430	590	260	254	462
	5.5	2.5"/65	2"/50	268	57	φ 32			242		196	330	216	460	651	310	274	492
	7.5	2.5"/65	2"/50	268	57	φ 32			242		199	330	216	460	651	310	274	492
KS-35	7.5	2.5"/65	1.5"/40	350	86.5	φ 36	131	76	242	229	216	330	216	460	721	310	274	492
	11	2.5"/65	1.5"/40	350	86.5	φ 36			290		234	450	254	575	871	375	322	607
	15	2.5"/65	2"/50	350	86.5	φ 36			290		240	450	254	575	871	375	322	607
KS-40	11	2.5"/65	2.5"/65	303	90	φ 36	105	83.5	290	214	235	450	254	575	866	375	322	607
	15	3"/80	2.5"/50	303	90	φ 36			290		236	450	254	575	866	375	322	607
	18.5	3"/80	2.5"/65	303	90	φ 36			290		234	450	254	575	921	375	322	607
	22	3"/80	2.5"/65	303	90	φ 36			310		234	515	279	625	946	400	342	657

离心泵性能综合曲线图 KS Series pump performance curve figure

(KS)泵Q-H曲线图
KS series Q-H curve figureKS-5(Q-H曲线图)
KS-5(Q-H curve)KS-10(Q-H曲线图)
KS-10(Q-H curve)KS-15(Q-H曲线图)
KS-15(Q-H curve)

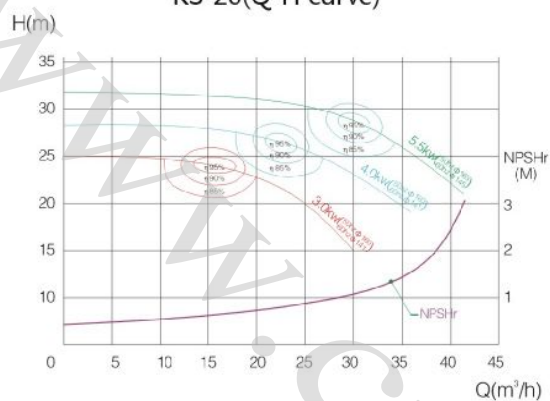
说明：测试条件：介质清水，温度20℃，叶轮转速2900 R.P.M (此曲线图亦适用电机60Hz 叶轮转速3600R.P.M)

Note: Test condition is pure water, 20c temperature, impeller speed 2900R.P.M (it is the same curve as motor 60Hz impeller speed 3600R.P.M)

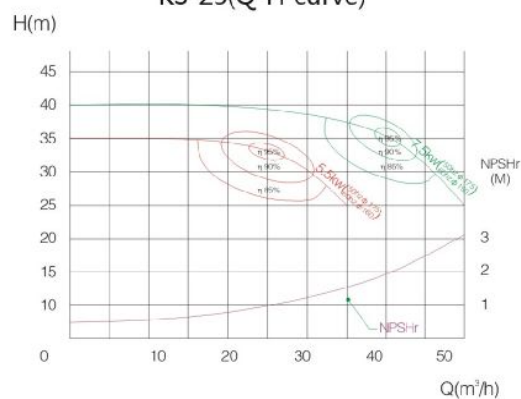
离心泵(KS系列)

CENTRIFUGAL PUMP (KS SERIES)

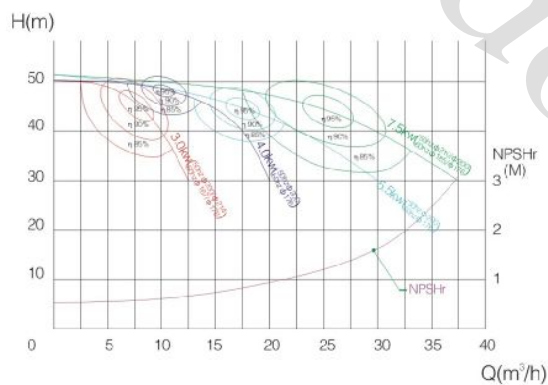
KS-20(Q-H曲线图)
KS-20(Q-H curve)



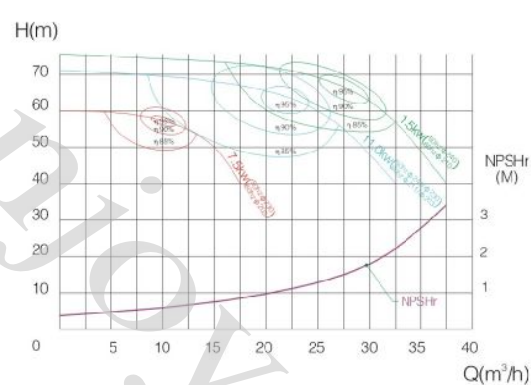
KS-25(Q-H曲线图)
KS-25(Q-H curve)



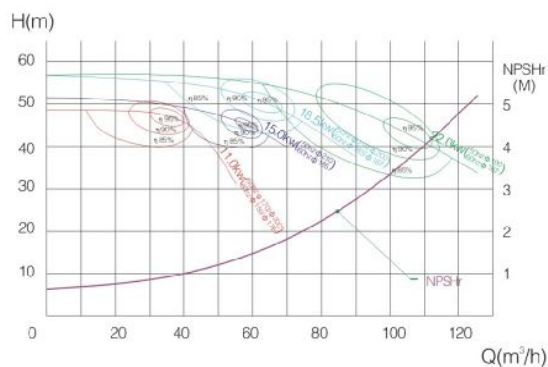
KS-30(Q-H曲线图)
KS-30(Q-H curve)



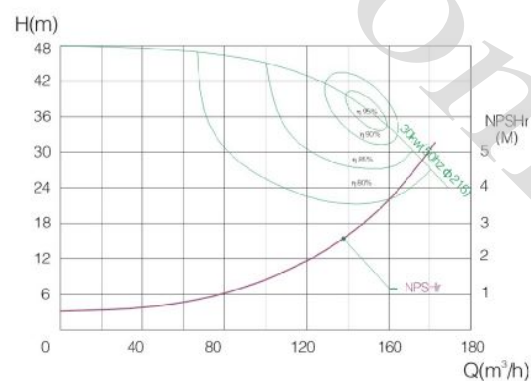
KS-35(Q-H曲线图)
KS-35(Q-H curve)



KS-40(Q-H曲线图)
KS-40(Q-H curve)



KS-50(Q-H曲线图)
KS-50(Q-H curve)

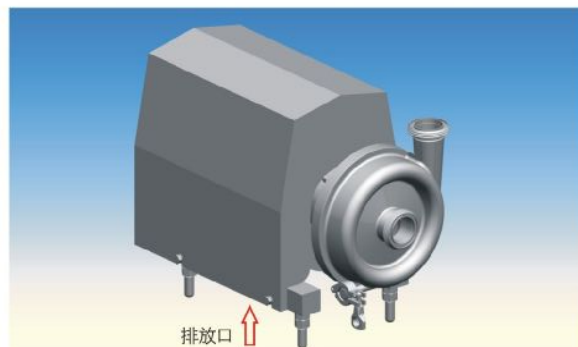


说明: 测试条件: 介质清水, 温度20℃, 叶轮转速2900 R.P.M (此曲线图亦适用电机60Hz, 叶轮转速3600R.P.M)

Note: Test condition is pure water, 20c temperature, impeller speed 2900R.P.M (it is the same curve as motor 60Hz, impeller speed 3600R.P.M)

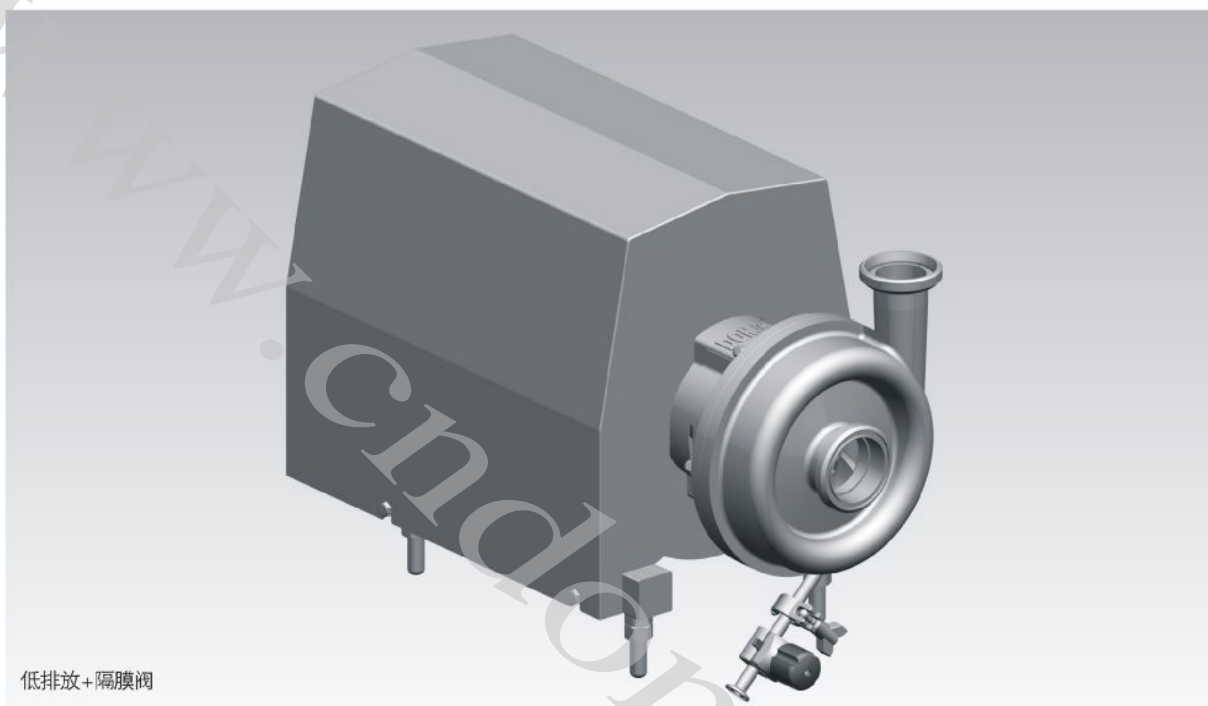
KS系列性能选型表 KS Series performance selection table

型号 Model	流量(吨) Flow rate(m³/h)	扬程 Discharge head(M)	功率 Power (kw)	进/出口规格 Inlet & Outlet Size
KS-5	3	16	0.75kw	1.5"/1.5"
	5	15	1.1kw	1.5"/1.5"
KS-10	6	22	1.5kw	1.5"/1.5"
	10	20	1.5kw	1.5"/1.5"
	15	18	2.2kw	1.5"/1.5"
	20	16	2.2kw	1.5"/1.5"
KS-15	3	24	1.5kw	2"/1.5"
	5	24	1.5kw	2"/1.5"
	10	23	2.2kw	2"/1.5"
	15	20	2.2kw	2"/1.5"
	25	20	3.0kw	2"/1.5"
	5	30	2.2kw	2"/1.5"
	10	25	2.2kw	2"/1.5"
	10	32	3.0kw	2"/1.5"
KS-20	15	24	3.0kw	2"/2"
	20	25	4.0kw	2"/2"
	25	25	4.0kw	2"/2"
	30	25	5.5kw	2.5"/2"
KS-25	20	35	5.5kw	2"/2"
	30	32	5.5kw	2.5"/2"
	40	30	7.5kw	2.5"/2"
KS-30	5	50	3.0kw	2"/1.5"
	10	40	3.0kw	2"/1.5"
	10	50	4.0kw	2"/1.5"
	15	45	5.5kw	2"/1.5"
	20	40	5.5kw	2.5"/2"
	20	48	7.5kw	2.5"/2"
KS-35	25	36	7.5kw	2.5"/2"
	30	36	7.5kw	2.5"/2"
	10	36	7.5kw	2.5"/1.5"
	10	60	11kw	2.5"/1.5"
	20	75	11kw	2.5"/1.5"
	25	60	11kw	2.5"/2"
	30	60	15kw	2.5"/2"
	30	65	15kw	2.5"/2"
KS-40	20	73	15kw	2.5"/2"
	25	70	15kw	2.5"/2"
	30	68	15kw	2.5"/2"
	50	25	11kw	2.5"/2.5"
	30	45	11kw	2.5"/2.5"
	40	45	11kw	2.5"/2.5"
	60	40	15kw	3"/2.5"
	40	55	18.5kw	3"/2.5"
	60	50	18.5kw	3"/2.5"
	80	40	18.5kw	3"/2.5"
	80	50	22kw	3"/2.5"
	100	40	22kw	3"/2.5"
	120	40	22kw	3"/2.5"

KS带排污口离心泵示意图
KS series pump drainage pipe picture

离心泵(KS系列)

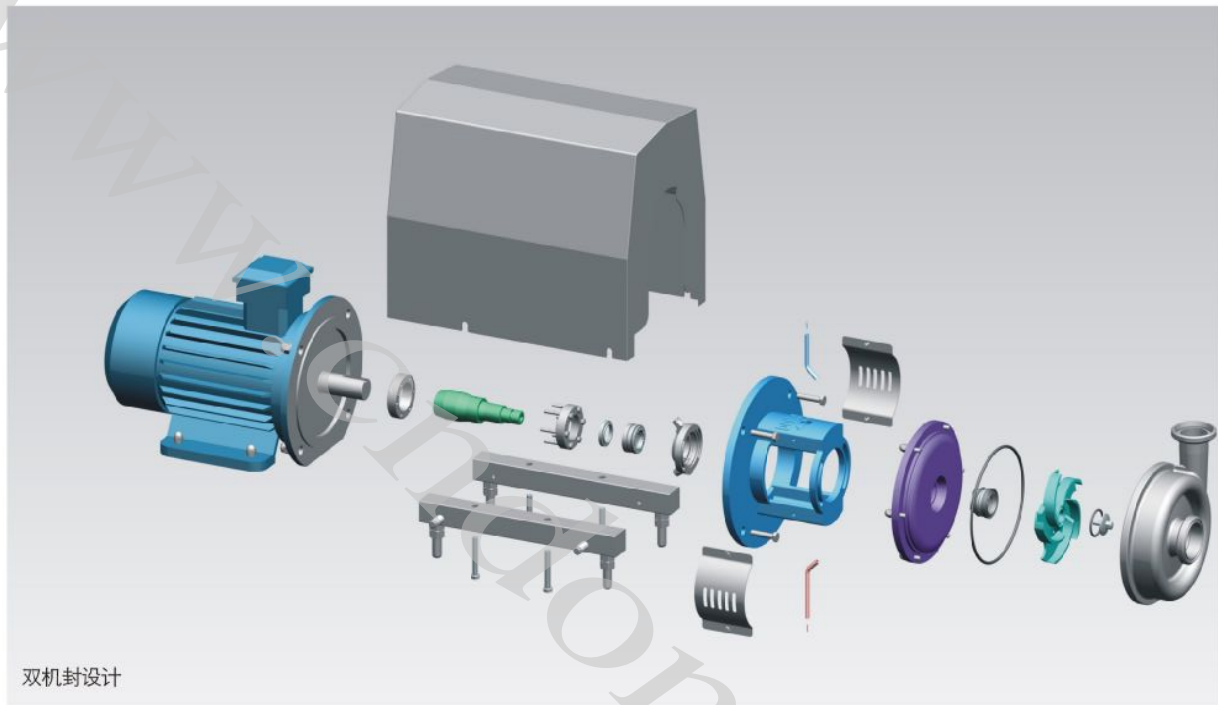
CENTRIFUGAL PUMP (KS SERIES)



离心泵过程示意图 Centrifugal pump process picture



排放式离心泵 Centrifugal pump



离心泵型号说明 Model instruction of Centrifugal Pump

KS	10	6T	22	1.5KW	380V	50HZ	M	1.5"/1.5"	S
									接口标准: DIN(D),SMS(S),3A(A),RJ(T)(R),ISO/IDF(I) Connection standard: DIN(D),SMS(S),3A(A),RJ(T)(R),ISO/IDF(I)
								进出口规格Inlet & Outlet Size	
							连接方式: 螺纹(M) 卡箍(C) Connection way: threaded(M), Clamped(C)		
						电机频率: 50HZ; 60HZ Motor frequency: 50HZ;60HZ			
					电压: 110V 220V 380V(详见选型表) Voltage: 110V 220V 380V(refer to selection table)				
				电机功率: 1.1kw 1.5kw 2.2kw..... Motor power:1.1kw 1.5kw 2.2kw.....					
			离心泵扬程(详见选型表) Discharge head(refer to selection table)						
		离心泵流量(详见选型表) Flow rate(refer to selection table)							
		离心泵型号 Model							
		离心泵代码: 开式叶轮KS; 闭式叶轮BS Centrifugal Pump code:KS series(Open impeller)& BS series (Close impeller)							

例: KS-10-6T-22-1.5Kw-380V-50HZ-M-2.5"/2.5"-S

Sample:KS-10-6T-22-1.5Kw-380V-50HZ-M-2.5"/2.5"-S