

**SUZHOU
ZHONGYICHUANG
TECHNOLOGY**
苏州中忆创



IHF系列化工衬氟泵
IHF Series Chemical fluorine lined pump
· 安装使用说明书 ·



精密铸就品质 科技改变未来

PRECISION HIGH SPEED STABILITY

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一、概述

IHF 系列化工衬氟泵为单级单吸式化工离心泵，该泵是依照国际标准并结合非金属泵的加工工艺设计生产。泵体、叶轮、泵盖等与介质接触的过流部件采用 A3 钢衬 F46。轴封采用先进的波纹管机械密封，密封面材质为高压烧结碳化硅，实际使用显示：该泵具有耐腐、不老化、机械强度高、运行平稳、结构先进合理、密封性能可靠、拆卸检修方便、使用寿命长等优点，广泛适用于化工、制药、石油、冶金、酸洗、电力、电镀、染料、农药等行业，在 $-20^{\circ}\text{C}\sim+100^{\circ}\text{C}$ 温度条件下长期输送不含固体颗粒、物理性能类似水的介质的任意浓度的硫酸、盐酸、醋酸、氢氟酸、硝酸、强碱、强氧化剂、有机溶剂、还原剂等强腐蚀性介质。是一种用以取代 FSB 型氟泵、IH 型化工离心泵的新型节能产品。并且与 IH 型化工离心泵具有良好的通用性和互换性。

Summary

IHF series chemical fluoroplastics - lined pump is single -stage single - priming chemical centrifugal pump which is combined with international standard and working process of nonmetallic pump. The material of pump body, pump cover, impeller and flow parts is F46 lined A3 steel, sealing material pressure sintered silicon carbide for axle seal, it adopts advanced bellows mechanical seal, featuring corrosion resistance, non aging, high mechanical strength, stable operation, rational structure, reliable seal, convenient maintenance and long service life, widely applied in the fields of chemical, pharmacy, petroleum, metallurgical, pickling, electroplating, dyeing and pesticide to convey sulfur acid, hydrochloric acid, acetic acid, hydrofluoric acid, nitric acid, alkali, oxidant, without solid particles, the physical properties similar to water medium organic solvent under $-20^{\circ}\text{C}\sim+100^{\circ}\text{C}$, it is a energy - saving novel substitute for FSB type fluorine pump and IH type chemical centrifugal pump, enjoying good interchangeability with IH type chemical centrifugal pump.

二、型号意义说明

Illustration of pump model number

A—叶轮外径第一次切割 Primary cutting of impeller external diameter

200—叶轮名义直径 (mm) Nominal diameter of blade wheel (mm)

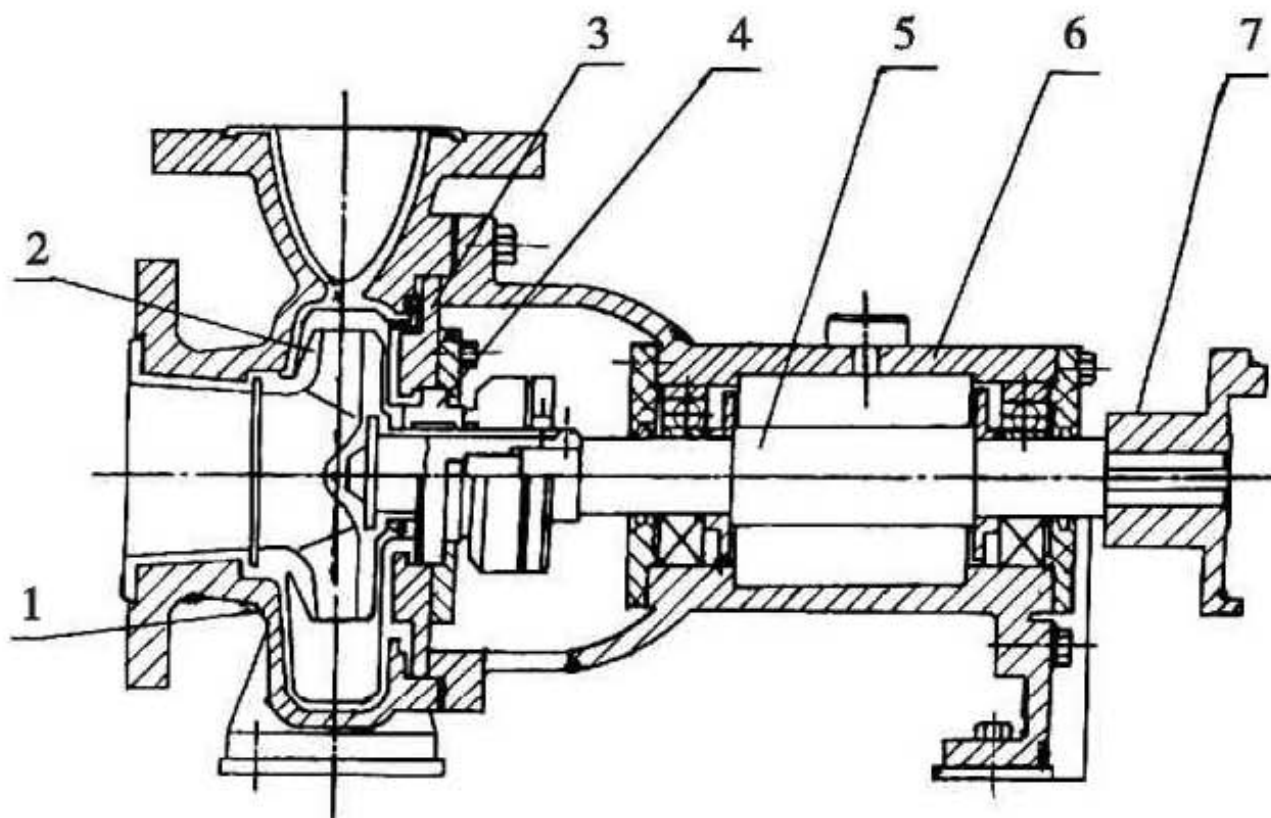
32—泵出口直径 (mm) Outlet diameter

50—泵进口直径 (mm) Inlet diameter

F—泵过流部分材质 (F46) Material of flow parts

IH—国际标准化化工泵系列产品 International standard chemical centrifugal pump

IHF 离心泵结构图 Sturcture of IHF centrifugal pump

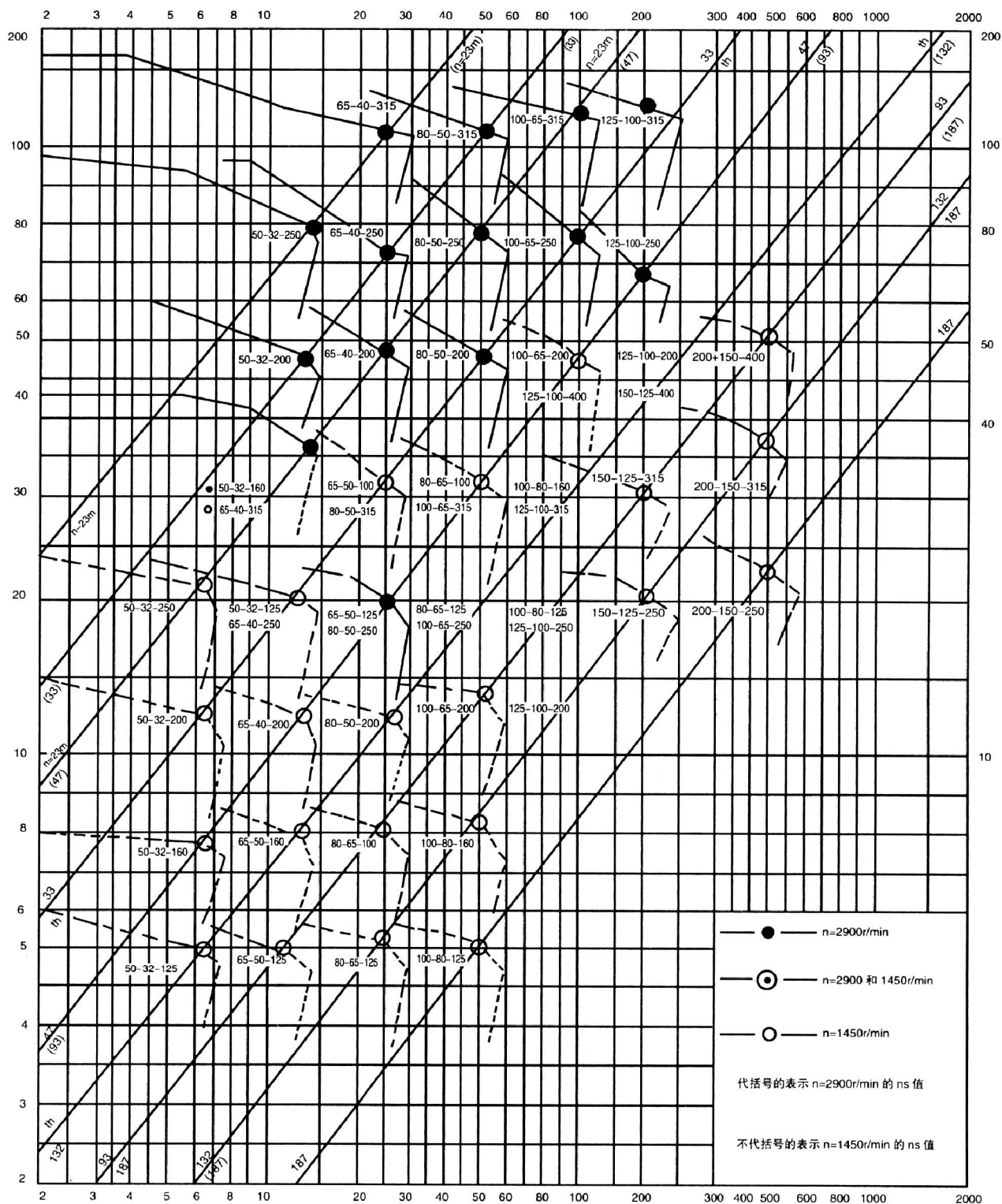


1. 泵体/Pump Body 2. 叶轮/Blade Wheel 3. 泵盖/Pump Cover 4. 密封部件/Sealing parts
5. 轴/Shaf 6. 托架/Bracket 7. 联轴器/Shaft coupling



IHF 系列化工衬氟泵谱图

Configuration of ihf series chemical fluoroplastics-lined pump





IHF 系列化工衬氟泵工作性能参数
Performance parameter of IHF series chemical fluoroplastics-lined pump

表.1 Table 1.

型 号 Type	流 量 Q flow capacity		扬程H head (m)	转速n speed (r/min)	功率N(kw) power		效率 η efficiency (%)	必需汽蚀 余量(m) Allowance cavitation corrosive
	(m³/h)	(l/s)			轴功率 shaft power	配用电机功率 Matching power		
IHF50-32-125	12.5	3.47	20	2900	1.33	3	51	3.8
IHF50-32-160			32		2.37	4	46	
IHF50-32-200			50		4.38	7.5	39	
IHF50-32-250			80		8.25	15	33	
IHF65-50-125	25	6.94	20		2.2	3	62	3.8
IHF65-50-160			32		3.82	5.5	57	
IHF65-40-200			50		6.55	11	52	
IHF65-40-250			80		11.84	18.5	46	
IHF80-65-125	50	13.88	20		3.95	5.5	69	4.0
IHF80-65-160			32		6.5	11	67	
IHF80-50-200			50		10.8	15	63	
IHF80-50-250			80		19.11	30	57	
IHF100-80-125	100	27.77	20		7.074	11	77	4.5
IHF100-80-160			32		11.9	15	73	
IHF100-65-200			50		18.9	30	72	
IHF100-65-250			80		32.0	37	68	
IHF125-100-200	200	55.55	50		35.4	45	77	4.8
IHF125-100-250			80		58.1	75	75	

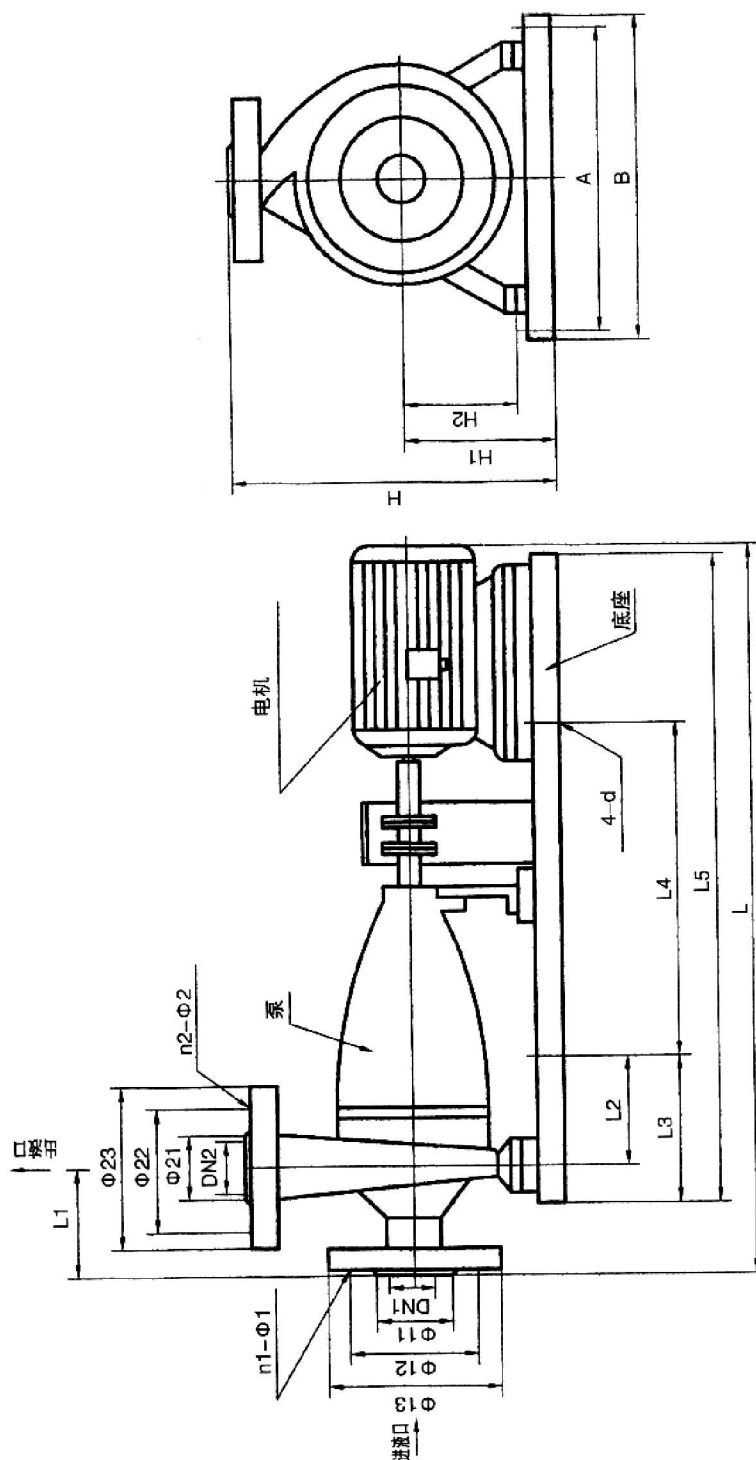


表.2 Table 2.

型 号 Type	流 量 Q flow capacity		扬程H head (m)	转速n speed (r/min)	功率N(kw) power		效率 η efficiency (%)	必需汽蚀 余量(m) Allowance cavitation corrosive
	(m³/h)	(l/s)			轴功率 shaft power	配用电机功率 Matching power		
IHF50-32-125	6.3	1.75	5	1450	0.19	0.55	45	3.5
IHF50-32-160			8		0.34	0.55	40	
IHF50-32-200			12.5		0.65	1.5	33	
IHF50-32-250			20		1.27	2.2	27	
IHF65-50-125	12.5	3.47	5		0.31	0.55	55	3.5
IHF65-50-160			8		0.53	0.75	51	
IHF65-40-200			12.5		0.93	1.5	46	
IHF65-40-250			20		1.75	3	39	
IHF65-40-315			32		3.3	4	33	
IHF80-65-125	25	6.94	5		0.53	0.75	64	3.8
IHF80-65-160			8		0.88	1.5	62	
IHF80-50-200			12.5		1.49	2.2	57	
IHF80-50-250			20		2.569	4	53	
IHF80-50-315			32		5.067	7.5	43	
IHF100-80-125	50	13.88	5		0.92	1.5	74	4.0
IHF100-80-160			8		1.58	2.2	69	
IHF100-65-200			12.5		2.5	4	68	
IHF100-65-250			20		4.3	0.5	65	
IHF100-65-315			32		7.5	11	58	
IHF125-100-200	100	27.77	12.5		4.66	7.5	73	4.5
IHF125-100-250			20		7.56	11	72	
IHF125-100-315			32		12.82	18.5	68	
IHF125-100-400			50		22.69	30	60	
IHF150-125-250	200	55.55	20		14.1	18.5	77	4.8
IHF150-125-315			32		23.2	30	75	
IHF150-125-400			50		38.9	45	70	
IHF200-150-250	400	111.1	20		26.9	30	81	5.0
IHF200-150-315			32		44.1	55	79	
IHF200-150-400			50		69.8	75	78	

IHF系列化工衬氟泵安装外形图

Outline of IHF series chemical fluoroplastics-lined pump





泵型号 Type	配用电机型号 model of motor	L1	L2	L3	L4	L5	L	H1	H2	H	A	B	4-d	进液口法兰 Inlet flange					出液口法兰 Discharge flange				
														DN1	Φ11	Φ12	Φ13	n-Φ1	DN2	Φ21	Φ22	Φ23	n2-Φ2
IHF50-32-125	Y90L-2/2.2	80	15	100	600	850	893	192	112	332	350	390	4-Φ19	50	99	125	165	4-Φ17.5	32	76	100	140	4-Φ17.5
	Y801-4/0.55	80	15	100	600	850	860	192	112	332	350	390	4-Φ19										
IHF50-32-160	Y112M-2/4	80	15	100	600	850	915	212	132	372	350	390	4-Φ19	50	99	125	165	4-Φ17.5	32	76	100	140	4-Φ17.5
	Y802-4/0.75	80	15	100	600	850	870	212	132	372	350	390	4-Φ19										
IHF50-32-200	Y132S ₁ -2/7.5	80	75	160	600	870	987	240	160	420	350	390	4-Φ19	50	99	125	165	4-Φ17.5	32	76	100	140	4-Φ17.5
	Y90L-4/1.5	80	15	100	600	850	930	240	160	420	350	390	4-Φ19										
IHF50-32-250	Y160M ₂ -2/15	100	80	160	840	1170	1255	280	180	505	490	540	4-Φ19	50	99	125	165	4-Φ17.5	32	76	100	140	4-Φ17.5
	Y100L ₁ -4/2.2	100	120	220	620	1000	950	270	180	495	460	520	4-Φ19										
IHF65-50-125	Y100L-2/3	80	15	100	600	850	910	192	112	332	350	390	4-Φ19	65	118	145	185	4-Φ17.5	50	99	125	165	4-Φ17.5
	Y801-4/0.55	80	15	100	600	850	910	192	112	332	350	390	4-Φ19										
IHF65-50-160	Y132S ₁ -2/5.5	80	75	160	600	870	987	212	132	372	350	390	4-Φ19	65	118	145	185	4-Φ17.5	50	99	125	165	4-Φ17.5
	Y90S-4/1.1	80	15	100	600	850	900	212	132	372	350	390	4-Φ19										
IHF65-40-200	Y160M ₁ -2/11	100	55	140	740	1000	1300	240	160	420	440	490	4-Φ19	65	118	145	185	4-Φ17.5	40	84	110	150	4-Φ17.5
	Y90L-4/1.5	100	15	100	600	850	1000	240	160	420	350	390	4-Φ19										
IHF65-40-250	Y160L-2/18.5	100	80	160	840	1170	1255	280	180	505	490	540	4-Φ19	65	118	145	185	4-Φ17.5	40	84	110	150	4-Φ17.5
	Y100L ₂ -4/3	100	120	220	640	1000	1080	270	180	495	460	520	4-Φ19										
IHF65-40-315	Y200L ₁ -2/30	125	120	220	940	1240	1430	300	200	550	550	610	4-Φ24	80	132	160	200	8-Φ17.5	65	118	145	185	4-Φ17.5
	Y132S-4/5.5	125	120	220	640	1000	1085	290	200	540	460	520	4-Φ19										
IHF80-65-125	Y132S ₁ -2/5.5	100	75	160	600	870	987	212	112	372	350	390	4-Φ19	80	132	160	200	8-Φ17.5	65	118	145	185	4-Φ17.5
	Y90S-4/1.1	100	15	100	600	850	900	212	112	372	350	390	4-Φ19										
IHF80-65-160	Y160M ₁ -2/11	100	55	140	740	1000	1145	240	160	420	440	490	4-Φ19	80	132	160	200	8-Φ17.5	65	118	145	185	4-Φ17.5
	Y90L-4/1.5	100	15	100	600	850	920	240	160	420	350	390	4-Φ19										
IHF80-50-200	Y160M ₂ -2/15	100	80	160	840	1170	1200	260	160	460	490	550	4-Φ19	80	132	160	200	8-Φ17.5	50	99	125	165	4-Φ17.5
	Y100L ₁ -4/2.2	100	100	195	840	1050	950	245	160	445	470	525	4-Φ19										



泵型号 Type	配用电机型号 Model of motor	L1	L2	L3	L4	L5	L	H1	H2	H	A	B	4-d	进口法兰 Inlet flange					出口法兰 Discharge flange				
														DN1	Φ11	Φ12	Φ13	n-Φ1	DN2	Φ21	Φ22	Φ23	n2-Φ2
IHF80-50-250	Y200L1-2/30	125	45	160	940	1240	1580	280	180	505	550	610	4-Φ24										
	Y112M-4/4	125	100	195	640	1050	1150	265	180	490	470	525	4-Φ24	80	132	160	200	8-Φ17.5	50	99	125	165	4-17.5
IHF80-50-315	Y132M-4/7.5	125	90	210	780	1220	1350	315	225	595	540	610	4-Φ24										
IHF100-80-125	Y160M1-2/11	100	55	140	740	1000	1145	240	160	420	440	490	4-Φ19										
	Y90L-4/1.5	100	15	100	600	850	1000	240	160	420	350	390	4-Φ19										
IHF100-80-160	Y160M2-2/15	100	80	160	840	1170	1373	260	160	460	490	550	4-Φ24						80	132	160	200	8-Φ17.5
	Y100L2-4/3	100	100	195	640	1050	1180	245	160	445	470	525	4-Φ24										
IHF100-65-200	Y200L1-2/30	100	45	160	940	1240	1470	280	180	505	550	610	4-Φ24	100	156	180	220	8-Φ17.5					
	Y112M-4/4	100	100	195	640	1050	1180	265	180	490	470	525	4-Φ24										
IHF100-65-250	Y200L2-2/37	125	45	160	940	1240	1500	300	200	525	550	610	4-Φ24										
	Y132S-4/5.5	125	100	195	640	1050	1180	285	200	535	470	525	4-Φ24						65	118	145	185	4-Φ17.5
IHF100-65-315	Y160M-4/11	125	90	210	780	1220	1350	315	225	595	540	610	4-Φ24										
	Y225M-2/45	125	45	160	940	1240	1605	325	200	605	550	610	4-Φ24										
IHF125-100-200	Y132M-4/7.5	125	100	175	640	1050	1400	285	200	565	470	525	4-Φ24										
	Y280S-2/75	140	150	275	860	1350	1800	355	225	635	600	660	4-Φ24										
IHF125-100-250	Y160M-4/15	140	110	210	780	1220	1650	315	225	600	540	600	4-Φ24	125	184	210	250	8-Φ17.5	100	156	180	220	8-Φ17.5
	Y180M-4/18.5	140	90	210	780	1220	1600	340	250	655	540	600	4-Φ24										
IHF125-100-400	Y200L-4/30	140	142	275	860	1350	1650	410	280	765	600	660	4-Φ24										
IHF150-125-250	Y180M-4/18.5	140	110	210	780	1220	1600	340	250	700	540	600	4-Φ24										
IHF150-125-315	Y200L-4/30	140	142	275	860	1350	1700	410	280	690	600	660	4-Φ24	150	211	210	285	8-Φ22	125	184	210	250	8-Φ17.5
IHF150-125-400	Y225M-4/45	140	142	275	860	1350	1750	445	315	845	600	660	4-Φ24										
IHF200-150-250	Y225S-4/37	160	142	275	860	1350	1750	410	280	785	600	660	4-Φ24										
IHF200-150-315	Y250M-4/55	160	190	335	1015	1560	2500	425	315	825	645	720	4-Φ24	200	266	295	340	12-Φ22	150	211	240	285	8-Φ22
IHF200-150-400	Y280M-4/90	160	170	310	1060	1660	2800	425	315	875	645	720	4-Φ24										



三、拆卸与装配

I、拆卸

1、在检修或拆卸叶轮与轴封时这种后开形式结构不须将与泵体相联的管路拆开即可拆出转子部件进行检查、保养。

(1) 拆下托架上的放油管塞，放净托架内的润滑油。

(2) 拆开泵体与托架的联结，并将全部转子部件从泵体中一起退出。

(3) 拧出防转螺母上的螺钉，左旋拧出叶轮。

(4) 将泵盖连同叶轮、机械密封端盖和机械密封一起取下，再将叶轮和机械密封拆开。如果采用特殊结构，应注意不同的拆卸方法。

(5) 拆下泵联轴器和键。

(6) 拆下托架两端轴承的前、后压盖，再将轴连同轴承一起从托架内取下。

(7) 从泵轴上拆下轴承。

II、装配

与拆卸程序相反进行。（如在按装、拆卸过程中遇到困难，请与公司技术部联系。）

Disassembly

1、As overhaul or dismantle impeller and axle, for rear open type, it is unnecessary to remove all pipeline in connection with pump body to take off rotor.

(1) Remove oil plug for support to empty lubricant

(2) Take off joint of pump body and support, remove all rotor components from pump body .

(3) Tweak screw in anti rotation nut to remove impeller via left hand rotation .

(4) Take of pump cover together with impeller, mechanical seal cover and mechanical seal from shaft. The disassembly method is different to mechanical seal of special structure.

(5) Dismantle pump coupling and key

(6) Take off front and rear grand of bearing, then remove axle and bearing from support.

(7) Remove bearing from pump axle

II、Assembly

Pump assembly sequence is inverse to that of disassembly (contact technical department if any problem during assembly and disassembly)

四、安 装

1、泵的安装是否合理，对泵的正常运行和使用寿命有很重要的影响，所以安装前必须仔细校正，不得草率。泵的外形尺寸，详见安装外形图及安装尺寸表。

2、必须保证泵在工作时不超过其允许汽蚀余量。泵在吸上高度(或倒灌高度)必须根据泵的汽蚀余量特性，管路阻力损失特性及高温水的吸上液面压力来确定。

3、泵吸上和吐出管路应该另有支架，不能用泵作支承。

4、安装泵的地点，应便于巡回检查和维护。

5、安装顺序：

①将机组放在埋有地脚螺栓的基础上，在底座和基础之间放置成对的楔垫作找正之用。

②松开联轴器，用水平仪分别放在泵轴或底座上，通过调整楔垫，找正机组的水平后，适当拧紧地脚螺



栓，以防走动。

③待混凝土干固后，应拧紧地脚螺栓，并重新检查泵轴的水平度。

④在接好管路及确定原动机转动方向以后，接上联轴器，再核对一遍轴的同心度，测量联轴器的外圆上下、左右的差异不得超过 0.1mm。两联轴器端面，在一周内最大和最小的间隙差不得超过 0.3mm。

⑤在机组实际运行 3-4 小时后作最后检查，如无不良现象，则认为安装合格。

4、Installation

1. Pump installation plays great part in normal operation and service life, therefore, it is necessary to check carefully before installation. Outline dimension is given in outline sketch and installation dimension table.

2. When running, it is not permissible to exceed net positive suction head (NPSH), suction lift depends on NPSH, pipeline resistance loss and suction level pressure .

3. There should be support respective for suction pipeline and discharge pipeline, the weight of pipeline can't be born by pump to avoid damage .

4. The place of installation shall be convenient for maintenance

5. Inallation sequence

①Place the pump on foundation buried with anchor bolt , adjust via wedges .

②Loosen coupling, place level on pump axle and base, and adjust via wedges, then tighten anchor bolt after adjustment.

③Tighten anchor bolt after cement getting dry, recheck the level of pump axle.

④After connecting pipeline and coupling, recheck the concentricity of pump axle and motor shaft, that of coupling shall not exceed 0.1mm, max. clearance difference between two couplings face in one circle shall not exceed 0.3mm.

⑤The pump shall be performed final inspection after running 3-4hs, and regarded acceptable if no abnormal discovered.

五、起动、运行和停止

1、起动前准备:

①检查托架内润滑油是否适量(油面在油计中心线 2mm 左右)油位计是否完好。

②未接联轴器前应检查原动机的转向与泵的箭头是否一致，然后接好联轴器。

③在装好机械密封后的联轴器应可方便地用手转动泵轴，应无碰擦现象。

④泵在吸上情况下使用，起动前应灌泵或抽真空，泵在倒灌情况下使用，起动前应用所输送液体将泵灌满，驱除泵中的空气，将吐出管的闸阀打开。

⑤起动前检查基础螺栓有无松动，压盖是否歪斜，以及润滑油的供应。

2、起动:

①关闭进出口压力和出水阀门、起动电机，然后打开出口压力计，当泵达到正常转速且仪表指出相应压力时，再慢慢打开出水阀门、调节到需要的工况。在吐出管路关闭的情况下，泵连续工作的时间，不能超过 3 分钟。

②起动过程中，要时时注意电动机的功率读数及泵的振动情况，振动数不应超过 0.06 毫米，测定部位是轴承座。

③密封情况：机械密封应无泄漏、发热现象。



3、运行：

①经常检查泵的电机发热情况轴承的温升不应超过 75T)，及油位计供油情况。（一般每运行 1500 小时后，要全部更换润滑油一次）。

②不能用吸入阀来调节流量，避免产生汽蚀。

③泵不宜在低于 30%设计流量下连续运转，如果必须在该条件下连续运转，则应在出口处安装旁通管，排放多余的流量。

④注意泵运转有无杂音，如发现异常状态时，应及时消除或停车检查。

3、停止：

①缓慢关闭吐出管路闸阀(如果泵在倒灌情况下使用，还要关闭吸入管路的闸阀)，并关闭各种仪表的开关。

②切断电源

③如果环境温度低于液体凝固点，要放净泵内的液体，以防冻裂。

④如果长时间停车不用，除将泵内的腐蚀性液体放净外，各零部件应拆卸清洗干净，尤其是密封腔。

5. Start, running and stop

1、Preparation before starting

(1)Check the oil level of support, it should be controlled about 2mm from center line of oil lever gauge.

(2)Check whether rotation direction of motor is in conformity with arrow indicated before, connecting coupling.

(3)After connecting coupling, turn coupling manually, it should be smooth and uniform, also free from friction and abnormal noise .

(4)Under suction circumstance, feed pump or vacuum pumping before start, Installation place of pump shall be lower than liquid level, open gate valve of suction pipeline before start; while under downdraft circumstance, make pump full of liquid to remove air inside pump, open gate valve of outlet pipeline.

(5)Before starting, check whether foundation screw loosen, gland inclined, as well as the supply of lubricant.

2. Start

(1)Close inlet and outlet pressure gauge, outlet valve, start motor, then open inlet and outlet pressure gauge, open outlet valve slowly and adjust to required working condition, as normal rotating speed and pressure reaching. The pump can not work continuously exceeding 3 min. Under circumstance of closed outlet pipeline .

(2)During starting, take notice of motor power and pump vibration, which shall not exceed 0.06 mm, measured in the location of bearing housing .

(3)Seal:mechanical seal free from leakage and heat.

3• Running

(1)Check temperature of motor regulary , that of bearing shall not exceed 75 C as well as the level of oil(normally replace lubricant every 1500 hs)

(2)It is impermissible to adjust flow capacity via gate valve in suction pipeline, so as to avoid cavitation caused .



(3) Pump is inadvisable to run long term under flow capacity 30% lower than designed. Install by pass pipeline if necessary to render flow capacity to reach stipulated range .

(4) If abnormal noise or other malfunction discovered in the course of running , eliminate immediately or stop to check .

4. Stop

(1) Close gate valve of outlet pipeline and all instruments (close gate valve of suction pipeline if flow backwards .

(2) Disconnect power source .

(3) As ambient temperature lower than freezing point of liquid, pump body shall be empty and purged so as to avoid frost crack .

(4) For long term storage , pump body shall be empty, in addition, all components shall be purged, especially seal chamber.

六、使用机械密封注意事项

1、由于机械密封适应在清洁的、无悬浮颗粒的介质中使用，因此，对新安装的管路系统和储液罐，应认真冲洗干净。严防固体颗粒、杂质进入机械密封端面而使密封失效。

2、拆卸机械密封应仔细，不许用手锤，铁器等敲打，以免破坏动、静环密封面。

3、如果有污垢拆不下来时，应设法清除污垢，冲洗干净后再进行拆卸，以免损坏密封元件。

4、应严格检查动环与静环相对磨擦密封面，不允许有任何细微的划痕，碰伤等缺陷。所有零部件包括泵体、叶轮、密封腔等，在装配前均应冲洗干净，尤其是动静环端面，要用清洁柔软的布或棉纱认真擦拭干净，然后涂上一层清洁的油脂或机油。

5、装配中要注意清除偏差，紧固螺钉时，要均匀拧紧，避免发生偏斜，使密封失效。

6、正确调整弹簧的压缩量，泵安装好以后，以手扳动转子时，应感觉到密封弹簧既有一定的压缩量，而又能轻快，灵活地转动没有咬紧的感觉，如感觉太紧或扳不动，则应适当调松一下。

Attention in mechanical seal use

1、Mechanical seal is applicable for clean media without suspension, therefore, pipeline system and reservoir shall be purged carefully to prevent solid foreign material entering mechanical seal, causing seal invalid.

2、Disassemble mechanical seal carefully, free from any hammer or ironware to avoid damage to static seal ring.

3、Don't reluctantly dismantle if dirt hardly to take off, try to clean, then disassemble, so as to avoid damage to sealing elements .

4、Check sealing surface between dynamic seal and static seal carefully, any slim scratch or damage is not allowed. All parts including pump body, impeller, seal chamber shall be cleaned before installation, especially dynamic and static seal ring surface, should apply grease or machine oil after clean.

5、Eliminate deviation during installation, screw shall be tightened uniformly to avoid deflection and seal invalid .

6、Correctly adjust amount of spring compression, turn the pump manually after installation, it shall rotate smoothly, the seal spring should have certain amount of compression. Make suitable adjustment if too tight or too loose.



订货须知

- 1、用户选用 IHF 型泵时必须说明输送的介质状态，如名称、比重、粘度、温度、腐蚀性能，是否含固体颗粒或结晶等。
- 2、泵的性能表中所列数据均是常温(20℃)清水时的性能数据，实际输送介质的性能必须另行换算。
- 3、特殊要求(如有毒、易燃、易爆场合)，必须事先说明。

Order Instruction

- 1、As select IHF pump, customer shall specify media conveyed, in aspect of designation, specific gravity, viscousness, temperature, corrosion, as well whether it is solid particle or crystalline solid.
- 2、Data in pump performance list is for clean water at room temperature(20℃), that of actual media conveyed shall be additionally calculated
- 3、Specify special requirement (toxic inflammable, explosive) in advance .

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