



SZA系列化工流程泵

SZA SERIES PETROCHEMICAL PROCESS 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！

概述 GENERAL

SZA 型离心式流程泵是引进国外先进技术制造。按照API610和VDMA24297(轻/中型)规范而设计、生产的产品。可输送各种温度和浓度的硫酸、硝酸、盐酸和磷酸等无机酸和有机酸溶液；各种温度和浓度的氢氧化钠和碳酸钠等碱性溶液；各种盐溶液；各种液态石油化工产品、有机化合物以及其它有腐蚀性的液体。该型泵适用于炼油厂、石油化学工业煤加工工程、低温工程、造纸业、制糖业、供水厂、海水淡化厂、发电厂、环保工程和船舶业等。

Model SZA centrifugal process pump is made by means of introducing the foreign advanced know-how and designed in accordance with API610 and VDMA24297(light/middle type) and can be used to transport the vitriol, nitric acid, hydrochloric acid, phosphoric acid etc. Inorganic and organic acid solutions of various temperatures and concentrations; the sodium hydroxide, sodium carbonate etc. alkaline solutions of various temperatures and concentrations; various salt solutions; various liquid petrochemical products, organic chemical compounds and other corrosive liquids. Suitable for oil refinery, petrochemical industry, coal process engineering, sub-zero engineering, paper making, sugar refinery, waterworks, sea water desalt plant, power plant, environmental protection project, ship industry and so on.

型号说明 MODEL MEANING



主要用途 MAIN USEAGE

- 炼油厂、石油化学工业、煤加工工业和低温工程；
 - 化学工业、造纸、纸浆业、制糖业和普通流程工业；
 - 供水厂、海水淡化厂；
 - 供暖和空气调节系统；
 - 发电厂；
 - 环境保护工程；
 - 船舶及海上工业等。
- ☐ Oil refinery, petrochemical industry, coal process industry and sub-zero engineering;
 - ☐ Chemical industry, paper making, paper pulp, sugar refinery and common process engineering;
 - ☐ Water works, sea water desalt plant;
 - ☐ Warming and air-conditioning system;
 - ☐ Power plant;
 - ☐ Environmental protection project;
 - ☐ Ship and maritime industry and so on.

性能参数 PERFORMANCE PARAMETERS

■ 口 径 DN 25-400mm

■ 流 程 $Q \leq 2400 \text{ m}^3/\text{h}$

■ 扬 程 $H \leq 300 \text{ m}$

■ 工作压力 $P \leq 2.5 \text{ MPa}$

■ 工作温度 $T -80 \sim +450^\circ\text{C}$

□ Aperture DN 25-400mm

□ Flow $Q \leq 2400 \text{ m}^3/\text{h}$

□ Head $H \leq 300 \text{ m}$

□ Working pressure $P \leq 2.5 \text{ MPa}$

□ Working temperature $T -80 \sim +430^\circ\text{C}$

结构特点 STRUCTURAL CHARACTERISTIC

该泵为单级、卧式、径向剖分式蜗壳泵。泵体为脚支撑，采用单吸径向叶轮，轴向吸入，径向排出。根据使用条件，采用前、后口环及平衡孔平衡轴向力。标准设计出！轴封采用单端面或双端面机械密封，也可采用填料密封，并配有冷却、冲洗或密封液系统。（如轴封有特殊要求请在合同中注明）

标准管路按API规范设计。吸入及排出管法兰的额定压力等级相同。从电机端看，泵为顺时针转动。

This pump is single-stage horizontal radial cut-opened spiral casing pump. The pump casing is foot supported and the impeller is a single-suction radial one, axial suck-in and radial drain-out. Both front and rear oral rings and balancing hole are used to balance the axial force upon the conditions of use. The standard designed axle seal at ex-works uses a single or dual end-face mechanical seal, either a packing seal, and is fitted cooling, rinsing or seal liquid system. (Please make a note in the contract in case of a special requirement with the axle seal).

The standard pipeline is designed per API. The rated pressure classes of the flanges on both suck-in and drain-out pipelines. The pump moves CW viewing from the motor.

输送介质 MEDIA TO BE TRANSPORTED

各种温度和浓度的硫酸、硝酸、盐酸和磷酸等无机酸和有机酸。各种温度和浓度的氢氧化钠和碳酸钠等碱性溶液，各种盐溶液。

各种液态石油化工产品，有机化合物，以及其它有腐蚀性的原料和产品。

目前我厂的耐腐蚀材料，能满足上述各种介质的要求。订货时，请用户提供所要输送介质的详细情况。

The vitriol, nitric acid, hydrochloric acid, phosphoric acid etc. inorganic and organic acids of various temperatures and concentrations; the sodium hydroxide, sodium carbonate etc. alkaline solutions of various temperatures and concentrations; various salt solutions.

Various liquid petrochemical products, organic chemical compounds and other corrosive raw materials and products.

The corrosion-proof materials available at present in this Co. can meet with the demands of the above media. Please provide the detailed information about the medium to be transported at order.

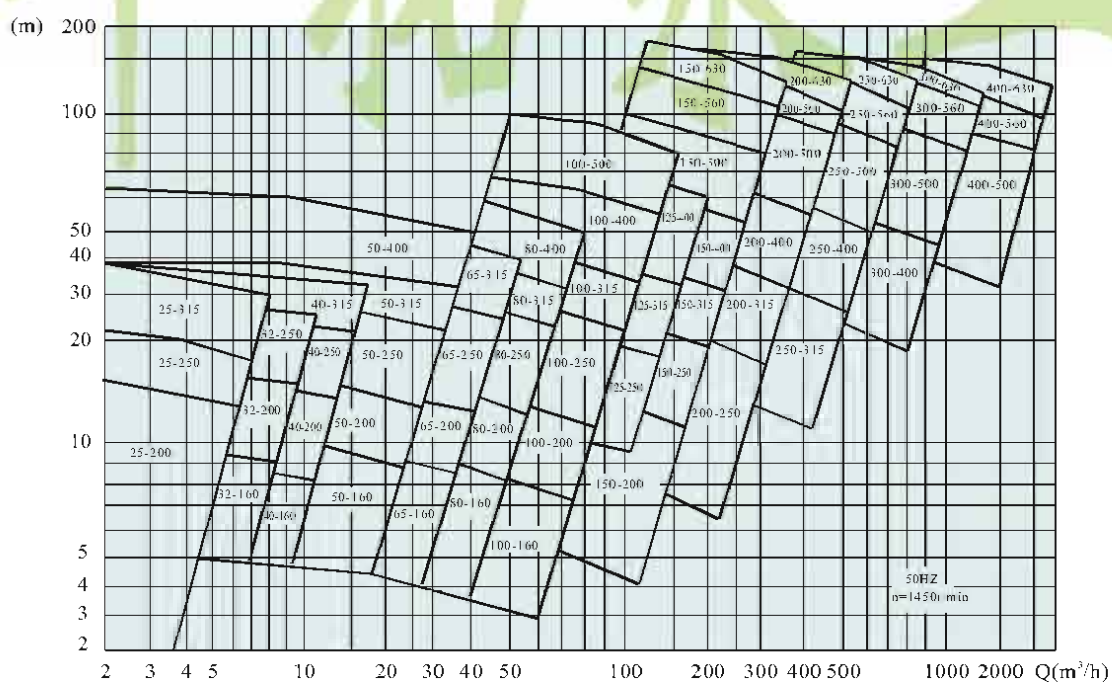
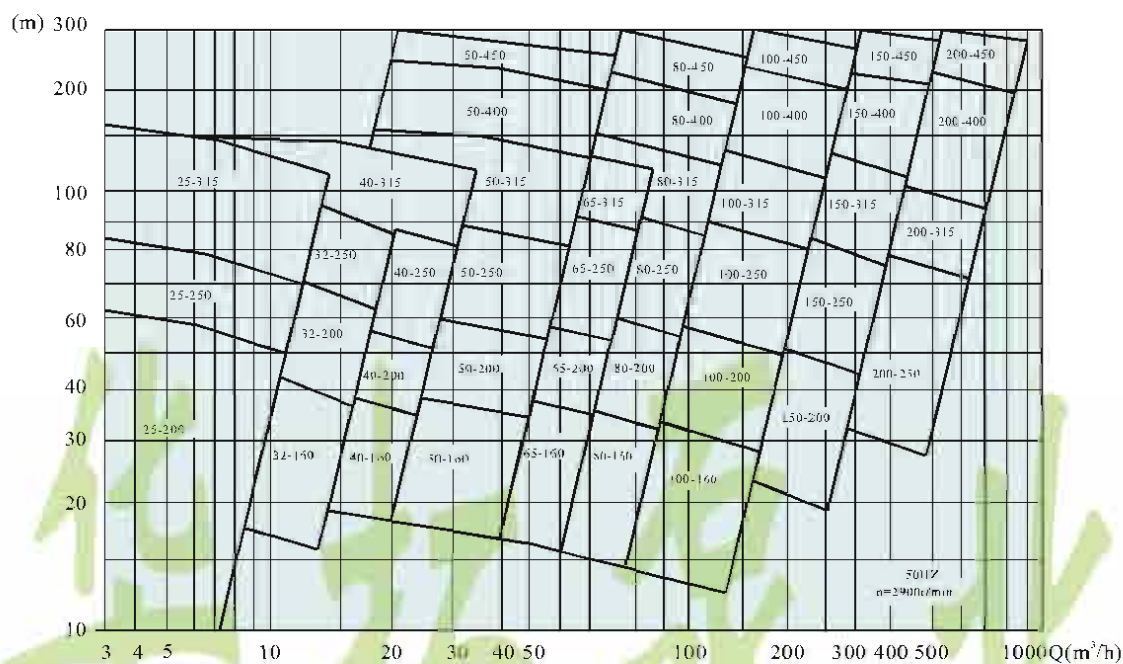
设计特点 CHARACTERISTIC OF DESIGN

设计特点 Characteristic of design	优 点 Merits	经济效益 Economical benefit
按照API610(第八版)标准设计。 采用组件装配,联轴器带有加长段。 Designed per API610(the 8th version) Use modules' assembly,the clutch fitted with an extended section.	保证执行流程工业的结构和维修标准,拆装泵时无需拆下管道和电机,易于拆装,便于维修。 A structure able to ensure the execution of the Process industry and service standard, no need to remove both pipeline and motor when to remove the pump, easy to remove and repair.	可靠性高,互换性好。 停机时间短,维修费用低。 High reliability, good interchangeability, short stop time, low cost of service.
双蜗壳泵体(口径80mm以上)。 管径大,腐蚀余量大。 Dual spiral casings with the pump(the aperture over 80mm) Big pipe diameter, big surplus of corrosion.	径向力小,轴挠度小,轴承处挠度小于0.05mm 管内流速小,振动小,噪音低,泵体带有自动排气装置。管道结构简单,承载好,泵体无需支架,不会断裂寿命长。 Small radial force, small deflection of axle, which at the bearing is less than 0.05mm. Small flowrate and vibration and low noise inside of pipe, an automatic exhaustor is set with the pump casing. The pipeline is of simple structures and a good bearing capacity. No need of a stand with the pump casing, it is not breakable and of a long duration.	轴承和耐磨轴承使用寿命长,维修方便,费用低,效率高,消耗小,管道支撑和消音附件费用低,备件少,稳定性高。 Bearing and wearable bearing feature a long duration, easy repair, low costs, high efficiency, small consumption, low cost for pipeline support and silencing fittings, less spare parts, high stability.
叶轮结构: 闭式叶轮(标准件) 开式叶轮(SLZAO型) 叶轮用钢丝螺套自锁 Structure of impeller: Close impeller(standard part) Opened impeller(model SLZAO) The impeller is self locked with steel wire screwed sleeve	闭式叶轮能在各种条件下良好运行,效率高,流蚀值低。 开式叶轮适于输送汽液两相流和含固体颗粒浓度大(达10%)的液体。 汽蚀值低,要求装置的汽蚀余量小,轴不与输送的介质接触。 The closed impeller can move well under various conditions, of a high efficiency and a low value of flow corrosion. The opened impeller is suitable for transporting the steam-liquid two-phase fluid. The liquid containing solid grains and of a big concentration(up to 10%). Low value of steam corrosion, small NPSH is required for the device, the axle is not contacted with the transported medium.	本泵结构合理,能耗低,稳定可靠,价格便宜。 This pump is reasonably structured, low energy consumption, stable, reliable and cheap.

设计特点 CHARACTERISTIC OF DESIGN

设计特点 Characteristic of design	优点 Merits	经济效益 Economical benefit
密封: 优先采用机械密封(单端面 and 双端面)也可采用填料密封 Seal: Use a mechanical seal(single or dual end-face) first and a packing seal too.	单端面机械密封用于一般介质的密封; 双端面机械密封用于腐蚀性强、高温、含纤维、润滑性差,以及有毒、易挥发、易燃易爆、易结晶、贵重介质的密封。 Single end-face mechanical seal is used for common media; Dual end-face mechanical seal is used for those media strong corrosive, high temperature, containing fiber, poor lubrication property, toxic, volatile, combustible, explosive, easy crystallized and valuable.	密封可靠,降低维护费用。 Reliable seal, lowering the cost of service.
磨损件可以更换。 叶轮和泵体口环,(角结构也可)轴封处轴套,泵体磨损环可以泵冲沉。 Easily-worn-out parts are replaceable Impeller and the oral ring of the pump casing,(also the angular structure), the muff at the axle seal, the wear ring of the pump casing can be rinsed by the pump.	当泵体、叶轮上的口环和轴承套受磨损后,更换之,泵体、叶轮和轴承仍能继续使用。 Replace the oral ring and bearing sleeve on the impeller of the pump casing. When they are worn out while keep the pump casing, impeller and bearing on use.	节省维修和备件费用。 维修简便,迅速。 Save the cost of service and spare parts. Easy and quick service
整体重型轴承支架。 油润滑球轴承,自动润滑而且自动控制油位。 当温度 $T \leq 250^{\circ}\text{C}$ 时,不需冷却。 当温度 $T > 250^{\circ}\text{C}$ 时,采用风冷或水冷却。 迷宫环密封(标准件),也可用径向密封。 Integrated heavy bearing stand Oil-lubricated ball bearing, automatic lubrication and control of the oil level. No need of cooling at the temperature $T \leq 250^{\circ}\text{C}$. Use air or water cooling at the temperature $> 250^{\circ}\text{C}$. Sealed with a labyrinth ring(standard part), and a radial seal too.	轴与轴承支架同轴度好,稳定性好,刚性好,挠度小。 $n_k > n$,零件少。 不增加轴承温度。 Both axle and bearing stands are of a good concentricity, good stability, good rigidity and small deflection. $n_k > n$, less parts. No increase of bearing temperature.	填料密封或机械密封寿命长,易于维修,停工时间短。 运行费用低,不需对冷却系统投资。 Packing or mechanical seal has a long duration, is easy to repair and of a short stop time. Low cost of movement, no need to invest a cooling system.
填料箱尺寸适宜。 Proper dimension of the packing box	填料密封和各种结构的机械密封,可互换。 Good interchangeability between packing seal and various mechanical seals.	互换性好,改型填料箱不必另行加工。 The packing box needs not processing separately with the packing changed.

SZA型泵性能范围(50Hz) PERFORMANCE RANGE OF MODEL SZA PUMP(50Hz)



SZA型泵性能表 SZA TYPE PERFORMANCE TABLE

泵型号 Pump Type	叶轮 型式 Impeller Type	泵额定转速 Rated rotary speed of pump n=2900r/min								泵额定转速 Rated rotary speed of pump n=1450r/min									
		流量 Q (m³/h)	扬程 H (m)	比重=1.00 Specific gravity=1.00		比重=1.35 Specific gravity=1.35		比重=1.84 Specific gravity=1.84		流量 Q (m³/h)	扬程 H (m)	比重=1.00 Specific gravity=1.00		比重=1.35 Specific gravity=1.35		比重=1.84 Specific gravity=1.84			
				电机功率及型号 Power and model of motor								电机功率及型号 Power and model of motor							
				kW		kW		kW				kW		kW		kW		kW	
SZA 25-200	A	11.5	49	5.5	Y132Si-2	7.5	Y132S2-2	11	Y160M1-2	5.8	12	1.1	Y90S-4	1.1	Y90S-4	1.5	Y90L-4		
	B	10.5	42	4	Y112M-2	5.5	Y132Si-2	7.5	Y132S2-2	5.4	11					1.1			
	C	9	36	3	Y100L-2	4	Y112M-2	5.5	Y132Si-2	4.6	8.5								
	D	7.5	28	2.2	Y90L-2	3	Y100L-2	4	Y112M-2	4	6.5								
	E	5.5	16	1.5	Y90S-2	1.5	Y90S-2	2.2	Y90L-2	3	4								
SZA 32-160	A	20	36	4	Y112M-2	5.5	Y132Si-2	7.5	Y132S2-2	11	9	1.1	Y90S-4	1.1	Y90S-4	1.5	Y90L-4		
	B	19	32	4	Y112M-2	5.5	Y132Si-2	7.5	Y132S2-2	10	8					1.1			
	C	17	28	3	Y100L-2	4	Y112M-2	5.5	Y132Si-2	9	7								
	D	15	20	2.2	Y90L-2	3	Y100L-2	4	Y112M-2	6	5								
	E	13	14							6	3								
SZA 32-200	A	20	50	7.5	Y132S2-2	11	Y160M1-2	15	Y160M2-2	10	13	1.5	Y90L-4	1.5	Y90L-4	2.2	Y100L1-4		
	B	18	48					9	12	1.5									
	C	16	40	5.5	Y132Si-2	7.5	Y132S2-2	11	Y160M1-2		8					10			
	D	15	30	4	Y112M-2	5.5	Y132Si-2	7.5	Y132S2-2		8					8			
SZA 32-250	A	20	85	15	Y160M2-2	18.5	Y160L-2	30	Y200L1-2	11	20	2.2	Y100L1-4	3	Y100L2-4	4	Y112-4		
	B	20	75					10	19										
	C	18	65	11	Y160M1-2	15	Y160M2-2	18.5	Y160L-2	9	15			2.2	Y100L1-4	3	Y100L2-4		
	D	15	50	7.5	Y132S2-2	11	Y160M1-2	15	Y160M2-2	8	11					2.2	Y100L1-4		
SZA 40-160	A	28	33	5.5	Y132Si-2	7.5	Y132S2-2	11	Y160M1-2	14	8	1.1	Y90S-4	1.1	Y90S-4	1.5	Y90L-4		
	B	25.6	29							13	7					1.1			
	C	22	22	4	Y112M-2	5.5	Y132Si-2	5.5	Y132Si-2	11	5.5								
	D	20	16	2.2	Y90L-2	3	Y100L-2	4	Y112M-2	9.5	4.5								
SZA 40-200	A	29	53	11	Y160M1-2	15	Y160M2-2	18.5	Y160L-2	14.5	13	1.5	Y90L-4	2.2	Y100L1-4	5.5	Y132S-4		
	B	26	47	7.5	Y132S2-2	11	Y160M1-2	15	Y160M2-2	13	11.5	1.1	Y90S-4	1.5	Y100L2-4	4	Y112M-4		
	C	22	39	5.5	Y132Si-2	7.5	Y132S2-2	11	Y160M1-2	11.5	9					1.5	Y90L-4		
	D	18	30	4	Y112M-2	5.5	Y132Si-2	7.5	Y132S2-2	9.5	7	1.1	Y90S-4	1.1	Y90S-4	1.1	Y90S-4		
SZA 40-250	A	32	78	18.5	Y160L-2	22	Y180M-2	30	Y200L1-2	16	19.5	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4		
	B	30	72	15	Y160M2-2	18.5	Y160L-2			15	18	2.2	Y100L1-4	3	Y100L2-4	4	Y112M-4		
	C	24	60	11	Y160M1-2	15	Y160M2-2	18.5	Y160L-2	12.5	14	1.5	Y90L-4	2.2	Y100L1-4	3	Y100L2-4		
	D	21	47	7.5	Y132S2-2	11	Y160M1-2	15	Y160M2-2	10.5	11	1.1	Y90S-4	1.5	Y90L-4	2.2	Y100L1-4		
SZA 40-315	A	42	115	37	Y200L2-2	45	Y225M-2	75	Y280S-2	21	29	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4		
	B	40	107	30	Y200L1-2			55	Y250M-2	20	26.5								
	C	34	81	22	Y180M-2	30	Y200L1-2	45	Y225M-2	17.5	20	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-4		
	D	29	61	15	Y160M2-2	22	Y180M-2	30	Y200L1-2	15	15	3	Y100L2-4	3	Y112L-4	5.5	Y132S-4		
SZA 50-160	A	50	34	11	Y160M1-2	15	Y160M2-2	15	Y160M2-2	25	8.4	1.5	Y90L-4	2.2	Y100L1-4	2.2	Y100L1-4		
	B	45	29	7.5	Y132S2-2	11	Y160M1-2			22.5	7								
	C	38	22	5.5	Y132Si-2	7.5	Y132S2-2	11	Y160M1-2	19	5.5	1.1	Y90S-4	1.1	Y90S-4	1.5	Y90L-4		
	D	31	17	3	Y100L-2	4	Y112M-2	5.5	Y132Si-2	16.5	4					1.1	Y90S-4		
SZA 50-200	A	62	52	18.5	Y160L-2	22	Y180M-2	30	Y200L1-2	31	13	3	Y100L2-4	3	Y100L2-4	4	Y112M-4		
	B	56	46	15	Y160M2-2	18.5	Y160L-2	22	Y180M-2	28.5	11.5	2.2	Y100L1-4			3	Y100L2-4		
	C	49	37	11	Y160M1-2	15	Y160M2-2	18.5	Y160L-2	25	9	1.5	Y90L-4	2.2	Y100L1-4			3	Y100L2-4
	D	43	28	7.5	Y132S2-2	11	Y160M1-2	15	Y160M2-2	22	7	1.1	Y90S-4	1.5	Y90L-4	2.2	Y100L1-4		

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				电机功率及型号 Power and model of motor								电机功率及型号 Power and model of motor							
				kW		kW		kW				kW		kW		kW		kW	
SZA50-250	A	70	82	30	Y200L1-2	37	Y200L2-2	55	Y250M-2	35	20	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-4		
	B	66	75					45	Y225M-2	33	18.5								
	C	60	60	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	30	15	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4		
	D	50	45	15	Y160M2-2	18.5	Y160L-2	22	Y180M-2	26	11	2.2	Y100L1-4	3	Y100L2-4	3	Y100L2-4		
SZA50-315	A	87	115	55	Y250M-2	75	Y280S-2	110	Y315S-2	44	28	11	Y160M-4	11	Y160M-4	15	Y160L-4		
	B	80	100	45	Y225M-2			40	24	7.5	Y132M-4								
	C	70	78	30	Y200L1-2	45	Y225M-2	55	Y250M-2	35	19	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4		
	D	57	57	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	30	14	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4		
SZA50-400	A	82	194	110	Y315S-2	160	Y315M2-2	200	Y315L-2	41	48	15	Y160L-4	22	Y180L-4	30	Y200L-4		
	B	78	175	90	Y280M-2	132	Y315M2-2	160	Y315M2-2	39	43			18.5	Y180M-4	22	Y180L-4		
	C	70	140	75	Y280S-2	90	Y280M-2	132	Y315M1-2	35	34	11	Y160M-4	15	Y160L-4	18.5	Y180M-4		
	D	60	102	45	Y225M-2	75	Y280S-2	90	Y280M-2	30	25	7.5	Y132M-4	11	Y160M-4	15	Y160L-4		
SZA65-160	A	100	32	15	Y160M2-2	18.5	Y160L-2			50	8	2.2	Y100L1-4	3	Y100L2-4	4	Y112M-4		
	B	90	32						22	Y180M-2	48							7	
	C	90	24	11	Y160M1-2	15	Y160M2-2	18.5	Y160L1-2	46	6	2.2	Y100L1-4	2.2	Y100L1-4	3	Y100L2-4		
	D	80	14	5.5	Y132S1-2	7.5	Y132S2-2	11	Y160M1-2	38	4								
SZA65-200	A	100	54	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	50	13	4	Y112M-4	4	Y112M-4	5.5	Y132S-4		
	B	90	50							46	12	3	Y100L2-4						
	C	90	40	18.5	Y160L-2	22	Y180M-2	30	Y200L1-2	42	10	2.2	Y100L1-4	2.2	Y100L1-4	3	Y100L2-4		
	D	70	30	11	Y160M1-2	15	Y160M2-2	18.5	Y160L-2	36	7								
SZA65-250	A	115	85	45	Y225M-2	55	Y250M-2	75	Y280S-2	54	21	11	Y160M-4	11	Y160M-4	15	Y160M-4		
	B	115	75					75	Y280S-2	50	20	5.5	Y132S-4						
	C	100	65	37	Y200L2-2	45	Y225M-2	55	Y250M-2	46	16	4	Y112M-4	5.5	Y132S-4	5.5	Y132S-4		
	D	80	50	30	Y200L1-2	30	Y200L1-2	37	Y200L2-2	40	10								
SZA65-315	A	135	135	90	Y280M-2	110	Y315S-2	160	Y314M2-2	64	32	11	Y160M-4	15	Y160L-4	18.5	Y180M-4		
	B	130	125							61	30								
	C	115	115	75	Y280S-2	90	Y280M-2	132	Y315M1-2	56	28	5.5	Y132S-4	5.5	Y132S-4	11	Y132S-4		
	D	110	110	55	Y250M-2	25	Y250S-2	110	Y315S-2	54	24								
	E	90	85	45	Y225M-2	55	Y250M-2	75	Y280S-2	50	20	2.2	Y100L1-4	2.2	Y100L1-4	3	Y100L2-4		
	F	75	70	30	Y200L1-2	45	Y225M-2	55	Y250M-2	52	16								
SZA80-160	A	94	32	15	Y160M2-2	18.5	Y160L-2	30	Y200L1-2	47	8	2.2	Y100L1-4	3	Y100L2-4	4	Y112M-4		
	B	85	28	11	Y160M1-2	15	Y160M2-2	18.5	Y160L-2	42	7								
	C	76	23							38	5.5	1.5	Y90L-4	2.2	Y100L1-4	2.2	Y100L1-4		
	D	66	17	5.5	Y132S1-2	7.5	Y132S2-2	11	Y160M1-2	34	4	1.1	Y90S-4						
SZA80-200	A	103	54	30	Y200L1-2	37	Y200L2-2	55	Y250M-2	51	13.5	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-4		
	B	95	48	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	47	12	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4		
	C	84	38	15	Y160M2-2	22	Y180M-2	30	Y200L1-2	41	9.5	2.2	Y100L1-4	3	Y100L2-4	4	Y112M-4		
	D	70	30	11	Y160M1-2	15	Y160M2-2	22	Y180M-2	36	7.5	1.5	Y90L-4	2.2	Y100L1-4	3	Y100L2-4		
SZA80-250	A	127	82	45	Y225M-2	75	Y280S-2	90	Y280M-2	64	20	7.5	Y132M-4	11	Y160M-4	15	Y160L-4		
	B	120	76							60	19							7.5	Y132M-4
	C	105	59	30	Y200L1-2	45	Y225M-2	55	Y250M-2	52	14.5	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-4		
	D	87	45	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	46	11	3	Y100L2-4	4	Y112M-4	6.5	Y132S-4		

SZA型泵性能表 SZA TYPE PERFORMANCE TABLE

泵型号 Pump Type	叶轮 型式 Impeller Type	泵额定转速 Rated rotary speed of pump n=2900r/min								泵额定转速 Rated rotary speed of pump n=1450r/min									
		流量 Q (m³/h)	扬程 H (m)	比重=1.00 Specific gravity=1.00		比重=1.35 Specific gravity=1.35		比重=1.84 Specific gravity=1.84		流量 Q (m³/h)	扬程 H (m)	比重=1.00 Specific gravity=1.00		比重=1.35 Specific gravity=1.35		比重=1.84 Specific gravity=1.84			
				电机功率及型号 Power and model of motor								电机功率及型号 Power and model of motor							
				kW		kW		kW				kW		kW		kW		kW	
SZA80-315	A	141	127	90	Y280M-2	122	Y315M-4	160	Y315L1-2	70	33	15	Y160L-4	18.5	Y180M-4	22	Y180L-4		
	B	135	121	75	Y280S-2	110	Y315S-2	132	Y315M-2	66	30	11	Y160M-4	15	Y160L-4	15	Y160L-4		
	C	115	97	55	Y250M-2	75	Y280S-2	110	Y315S-2	56	24		11	Y160M-4	15		Y160L-4		
	D	90	74	37	Y200L2-2	45	Y225M-2	75	Y280S-2	45	18	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4		
SZA80-400	A	171	187	160	Y315M2-2	200	Y2-315L2-2	250	Y2-355M-2	85	46	22	Y180L-4	30	Y200L-4	45	Y225M-4		
	B	159	170			160	Y315L1-2			80	42	18.5	Y180M-4			37	Y225S-4		
	C	135	130	90	Y280M-2	132	Y315M1-2	160	Y315L1-2	65	33	15	Y160L-4	18.5	Y180M-4	30	Y200L-4		
	D	116	95	75	Y280S-2	90	Y280M-2	132	Y315M1-2	53.8	25	11	Y160M-4	15	Y160L-4	18.5	Y180M-4		
SZA100-160	A	162	29	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	81	7.2	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4		
	B	150	24	15	Y160M2-2	22	Y180M-2	30	Y200L1-2	73	6	2.2	Y100L1-4	3	Y100L2-4	4	Y112M-4		
	C	130	17	11	Y160M1-2	15	Y160M1-2	18.5	Y160L-2	63	4.3	1.5	Y90L-4	2.2	Y100L1-4	3	Y100L2-4		
	D	110	12	7.5	Y132S-2	11	Y160M1-2	15	Y160M2-2	55	3	1.1	Y90S-4	1.5	Y90L-4	2.2	Y100L1-4		
SZA100-200	A	193	50	45	Y225M-2	55	Y250M-2	75	Y280S-2	95	12.5	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4		
	B	180	44	37	Y200L2-2	45	Y225M-2			90	10.5								
	C	155	35	30	Y200L1-2	37	Y200L2-2	45	Y225M-2	80	8.5	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-4		
	D	135	26	18.5	Y160L-2	30	Y200L1-2	37	Y200L2-2	70	6	3	Y100L2-4	3	Y100L2-4	7.5	Y112M-4		
SZA100-250	A	230	79	75	Y280S-2	90	Y280M-2	132	Y315M-2	115	20	11	Y160M-4	15	Y160L-4	18.5	Y180M-4		
	B	218	73							110	18							15	Y160L-4
	C	190	58	45	Y225M-2	75	Y280S-2	90	Y280M-2	100	14	7.5	Y132M-4	11	Y160M-4				
	D	170	44	37	Y200L2-2	45	Y225M-2	75	Y280S-2	90	10	5.5	Y132S-4	7.5	Y132M-4	7.5	Y132M-4		
SZA100-315	A	250	126	132	Y315M1-2	200	Y2-315L2-2	250	Y2-355M-2	125	31	18.5	Y180M-4	30	Y200L-4	37	Y225S-4		
	B	240	120			160	Y315M2-2			119	29			22	Y180L-4	30	Y200L-4		
	C	203	97	90	Y280M-2	132	Y315M1-2	160	Y315M2-2	104	24	15	Y160L-4	18.5	Y180M-4	22	Y180L-4		
	D	170	71	75	Y280S-2	75	Y280S-2	110	Y315S-2	86	17.5	11	Y160M-4	11	Y160M-4	15	Y160L-4		
SZA100-400	A	300	194	250	Y2-315M-2	315	Y355L-2			150	48	37	Y225S-4	45	Y225M-4	75	Y160L-4		
	B	290	180							145	44	30	Y200L-4			55	Y250M-4		
	C	260	145	160	Y315L1-2	250	Y2-355M-2	315	Y2-355L-2	130	36	22	Y150L-4	30	Y200L-4	45	Y225M-4		
	D	224	105	110	Y315S-2	160	Y315M2-2	200	Y2-355L2-2	115	26	15	Y160L-4	22	Y180L-4	30	Y200L-4		
SZA100-500	A									180	75	75	Y280S-4	90	Y280M-4	110	Y315S-4		
	B									167	68	55	Y250M-4	75	Y280S-4				
	C									142	53	37	Y225S-4	55	Y250M-4	75	Y280S-4		
	D									120	42	30	Y200L-4	37	Y225S-4	55	Y250M-4		
SZA125-250	A									200	20	18.5	Y180M-4	22	Y180L-4	22	Y180L-4		
	B									200	18	15	Y160L-4	18.5	Y180M-4	30	Y200L-4		
	C									190	14	11	Y160M-4	15	Y160M-4	22	Y180L-4		
	D									160	10			11	Y160M-4	15	Y160L-4		
SZA125-315	A									200	30	30	Y200L-4	37	Y225S-4	45	Y225M-4		
	B									180	30			30	Y200L-4	37	Y225S-4		
	C									170	24	18.5	Y180M-4	30	Y200L-4	30	Y200L-4		
	D									100	18	15	Y160L-4					18.5	Y180M-4

SAZ型泵性能表 SAZ TYPE PERFORMANCE TABLE

泵型号 Pump Type	叶轮 型式 Impeller Type	泵额定转速 Rated rotary speed of pump n=2900r/min								泵额定转速 Rated rotary speed of pump n=1450r/min									
		流量 Q (m³/h)	扬程 H (m)	比重=1.00 Specific gravity=1.00		比重=1.35 Specific gravity=1.35		比重=1.84 Specific gravity=1.84		流量 Q (m³/h)	扬程 H (m)	比重=1.00 Specific gravity=1.00		比重=1.35 Specific gravity=1.35		比重=1.84 Specific gravity=1.84			
				电机功率及型号 Power and model of motor								电机功率及型号 Power and model of motor							
				kW		kW		kW				kW		kW		kW		kW	
SZA 125-400	A									220	50	55	Y250M-4	75	Y280S-4	90	Y280M-4		
	B									200	48	45	Y225M-4	75	Y280S-4	75	Y280S-4		
	C									180	46	37	Y225S-4	55	Y250M-4				
	D									170	42			45	Y225M-4	55	Y250M-4		
	E									150	36	30	Y200L-4	30	Y200L-4	45	Y225M-4		
	F									150	30					37	Y225S-4		
SZA 150-200	A	320	44	55	Y255M-2	75	Y280S-2	110	Y315S-2	160	11	7.5	Y132M-4	11	Y160M-4	15	Y160L-4		
	B	300	39	45	Y225M-2			90	Y280M-2	152	9.5								
	C	265	30	37	Y200L2-2	45	Y225M-2	75	Y280S-2	140	7	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4		
	D	220	23	22	Y180M-2	30	Y200L1-2	45	Y225M-2	123	5	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4		
SZA 150-250	A	390	74	110	Y315S-2	150	Y315M2-2	200	Y2-315L2-2	195	18.5	15	Y160L-4	22	Y180L-4	30	Y200L-4		
	B	355	62	90	Y280M-2	110	Y315S-2	160	Y315M2-2	180	16			18.5	Y180M-4	32	Y180L-4		
	C	325	46	75	Y280S-2	90	Y280M-2	110	Y315S-2	160	11.5	11	Y160M-4	11	Y160L-4	15	Y160L-4		
	D																		
SZA 150-315	A	442	125	250	Y2-355M-2	315	Y2-355L-2			220	32.5	30	Y200L-4	45	Y225M-4	55	Y250M-4		
	B	430	120	200	Y2-315L2-2	250	Y2-355M-2			210	30			37	Y225S-4				
	C	372	94	160	Y315M2-2	200	Y2-315L2-2	315	Y2-355L-2	180	24	22	Y180L-4	30	Y200L-4	37	Y225S-4		
	D	310	68	90	Y280M-2	132	Y315M1-2	160	Y315M1-2	150	17	15	Y160L-4	18.5	Y180M-4	22	Y180L-4		
SZA 150-400	A	520	205							260	51	55	Y250M-4	75	Y280S-4	110	Y315S-4		
	B	498	190							250	48			90	Y280M-4				
	C	453	151	250	Y2-355L-2					225	38	37	Y225S-4	55	Y250M-4	75	Y280S-4		
	D	400	113	200	Y2-315L2-2	250	Y2-355M-2	315	Y2-355L-2	200	28	30	Y200L-4	37	Y225S-4	55	Y225M-4		
SZA 150-500	A									300	77	110	Y315S-4	132	Y315M1-4	190	Y315M2-4		
	B									283	72	90	Y280M-4	132	Y315M1-4	110	Y315S-4		
	C									233	59	75	Y280S-4	90	Y280M-4	110	Y315S-4		
	D									208	45	45	Y225M-4	75	Y280S-4	75	Y280S-4		
SZA 150-560	A									334	104	160	Y315M2-4	200	Y315L2-4	315	Y355L-4		
	B									315	97	132	Y315M1-4						
	C									260	80	90	Y280M-4	132	Y315M1-4	160	Y315M2-4		
	D									212	60	75	Y280S-4	90	Y280M-4	110	Y315S-4		
SZA 150-630	A									360	115	160	Y315L1-4	200	Y315L2-4	315	Y355L-4		
	B									338	105.5								
	C									274	82	132	Y315M1-4	160	Y315M2-4	200	Y315L2-4		
	D									220	60	75	Y280S-4	110	Y315S-4	160	Y315M2-4		
SZA 200-250	A	610	72	160	Y315M2-2	250	Y2-355M-2	315	Y2-355L-2	305	17.5	22	Y180L-4	30	Y200L-4	45	Y225M-4		
	B	580	65	160	Y315M2-2	200	Y2-315L2-2			290	16	18.5	Y180M-4	30	Y200L-4	37	Y225S-4		
	C	520	47	110	Y315S-2	132	Y315M1-2	200	Y2-315L2-2	260	12	15	Y160L-4	18.5	Y180M-4	30	Y200L-4		
	D	470	32	75	Y280S-2	90	Y280M-2	110	Y315S-2	240	8	11	Y160M-4	15	Y160L-4	15	Y160L-4		
SZA 200-315	A	710	122	315	Y2-355L-2					350	30	45	Y225M-4	55	Y250M-4	75	Y280S-4		
	B	680	114							340	29	37	Y225S-4	55	Y250M-4	75	Y280S-4		
	C	600	87	200	Y2-315L2-2	315	Y2-315L2-2	250	Y2-355L-2	300	22	30	Y200L-4	37	Y225S-4	55	Y250M-4		
	D	480	65	132	Y315M1-2					250	15	18.5	Y180M-4	22	Y180L-4	30	Y200L-4		

SZA型泵性能表 SZA TYPE PERFORMANCE TABLE

泵型号 Pump Type	叶轮 型式 Impeller Type	泵额定转速 Rated rotary speed of pump n=2900r/min								泵额定转速 Rated rotary speed of pump n=1450r/min											
		流量 Q (m³/h)	扬程 H (m)	比重=1.00 Specific gravity=1.00		比重=1.35 Specific gravity=1.35		比重=1.84 Specific gravity=1.84		流量 Q (m³/h)	扬程 H (m)	比重=1.00 Specific gravity=1.00		比重=1.35 Specific gravity=1.35		比重=1.84 Specific gravity=1.84					
				电机功率及型号 Power and model of motor								电机功率及型号 Power and model of motor									
				kW		kW		kW				kW		kW		kW		kW			
SZA 200-400	A	850	203							426	50	90	Y280M-4	110	Y315S-4	160	Y315M2-4				
	B	830	150							410	47	75	Y280S-4	110	Y315S-4	132	Y315M1-4				
	C	750	145							370	36.5	55	Y250M-4	75	Y280S-4	110	Y315S-4				
	D	670	106	250	Y2-355M-2	315	Y2-355L-2			332	27	45	Y250M-4	55	Y250M-4	315	Y280S-4				
SZA 200-500	A									495	84	200	Y2-315L2-4	250	Y2-355M-4	35	Y2-355L-4				
	B									470	79	160	Y315M2-4	200	Y2-315L2-4	250	Y2-355M-4				
	C									400	63	110	Y315S-4	160	Y315M2-4	200	Y2-315L2-4				
	D									330	48	75	Y280S-4	90	Y280M-4	132	Y315M1-4				
SZA 200-560	A									540	105	250	Y2-355M-4		315	Y2-355L-4	400	Y4002-4			
	B									510	98	200	Y2-315L2-4								
	C									430	81	160	Y315M2-4	200	Y2-315L2-4	315	Y2-355L-4				
	D									350	62	110	Y315S-4	132	Y315M1-4	160	Y315M2-4				
SZA 200-630	A									580	132	315	Y2-355L-4	400	Y4002-4	560	Y4005-4				
	B									550	125			355	Y4001-4	500	Y4004-4				
	C									468	100	200	Y2-315L2-4	250	Y2-355M-4	315	Y2-355L-4				
	D									372	75	132	Y315M1-4	200	Y2-315L2-4	250	Y2-355M-4				
SZA 250-315	A									545	27	55	Y250M-4	75	Y280S-4	110	Y315S-4				
	B									528	25	55	Y250M-4	75	Y280S-4	90	Y280M-4				
	C									480	19	37	Y225S-4	55	Y250M-4	75	Y280S-4				
	D									434	13	30	Y200L-4	37	Y225S-4	45	Y225M-4				
SZA 250-400	A									660	49	132	Y315M1-4		160	Y315M2-4	250	Y2-355M-4			
	B									630	46	110	Y315S-4			200	Y2-315L2-4				
	C									565	36	75	Y280S-4	110	Y315S-4	160	Y315M2-4				
	D									500	24	55	Y250M-4	75	Y280S-4	90	Y280S-4				
SZA 250-500	A									800	82			250	Y2-355M-4	315	Y2-355L-4	450	Y4003-4		
	B									770	76					400	Y4002-4				
	C									700	58	160	Y315M2-4	250	Y2-355M-4	315	Y2-355L-4				
	D									630	42	110	Y315S-4	160	Y315M2-4	200	Y2-315L2-4				
SZA 250-560	A									860	106	315	Y2-355L-4	450	Y4003-4	560	Y4005-4				
	B									830	98										
	C									760	78	250	Y2-355M-4	315	Y2-355L-4	450	Y4003-4				
	D									665	57	160	Y315M2-4	200	Y2-315L2-4	250	Y2-355M-4				
SZA 250-630	A									855	128	400	Y4002-4	500	Y4004-4	710	Y4502-4				
	B									816	119	355	Y4001-4	450	Y4003-4	630	Y4501-4				
	C									720	96	250	Y2-315L2-4	355	Y4001-4	450	Y4003-4				
	D									625	71	160	Y315L1-4	250	Y2-355M-4	315	Y2-355L-4				
SZA 300-400	A									1050	48	200	Y2-315L2-4		250	Y2-355M-4	315	Y2-355L-4			
	B									1010	45	160	Y315M2-4								
	C									900	34	132	Y315M1-4	160	Y315M2-4	250	Y2-355M-4				
	D									780	26	90	Y280S-4	132	Y315M1-4	160	Y315M2-4				

SLZA型泵性能表 SLZA TYPE PERFORMANCE TABLE

泵型号 Pump Type	叶轮 型式 Impeller Type	泵额定转速 Rated rotary speed of pump n=2900r/min								泵额定转速 Rated rotary speed of pump n=1450r/min									
		流量 Q (m³/h)	扬程 H (m)	比重=1.00 Specific gravity=1.00		比重=1.35 Specific gravity=1.35		比重=1.84 Specific gravity=1.84		流量 Q (m³/h)	扬程 H (m)	比重=1.00 Specific gravity=1.00		比重=1.35 Specific gravity=1.35		比重=1.84 Specific gravity=1.84			
				电机功率及型号 Power and model of motor								电机功率及型号 Power and model of motor							
				kW				kW						kW				kW	
SLA 300-500	A									1240	78	355	Y4001-4	450	Y4003-4	630	Y4501-4		
	B									1170	75	315	Y2-355L-4			560	Y4005-4		
	C									1015	57	200	Y2-315L2-4	315	Y2-355L-4	400	Y4002-4		
	D									870	42	160	Y315M2-4	200	Y315L2-4	250	Y2-355M-4		
SLA 300-560	A									1340	104	500	Y4004-4	630	Y4501-4	900	Y4504-4		
	B									1280	97	450	Y4003-4			800	Y4503-4		
	C									1140	77	315	Y2-355L-4	450	Y4003-4	630	Y4501-4		
	D									950	56	200	Y2-315L2-4	250	Y2-355M-4	355	Y4001-4		
SLA 300-630	A									1450	132	710	Y4502-4	900	Y4504-4	1250	Y5003-4		
	B									1375	125	630	Y4501-4	800	Y4503-4	1120	Y5002-4		
	C									1170	100	450	Y4003-4	560	Y4005-4	800	Y4503-4		
	D									950	75	315	Y2-355L-4	355	Y4001-4	500	Y4004-4		
SLA 400-500	A									1870	74	500	Y4004-4	630	Y4501-4	900	Y4504-4		
	B									1800	70	450	Y4003-4			800	Y4503-4		
	C									1520	52	315	Y2-355L-4	400	Y4002-4	560	Y4005-4		
	D									1300	38	200	Y2-315L2-4	250	Y2-355M-4	355	Y4001-4		
SLA 400-560	A									2040	98	710	Y4502-4	900	Y4504-4	1250	Y5003-4		
	B									1950	91	630	Y4501-4			1120	Y5002-4		
	C									1760	74	450	Y4003-4	630	Y4501-4	900	Y4504-4		
	D									1500	54	315	Y2-355L-4	400	Y4002-4	560	Y4005-4		
SLA 400-630	A									2390	125	1120	Y5002-4	1400	Y5004-4	2000	Y5603-4		
	B									2280	117	1000	Y5001-4	1250	Y5003-4	1800	Y5602-4		
	C									1960	95	710	Y4502-4	900	Y4504-4	1250	Y5003-4		
	D									1610	70	400	Y4002-4	560	Y4005-4	800	Y4503-4		

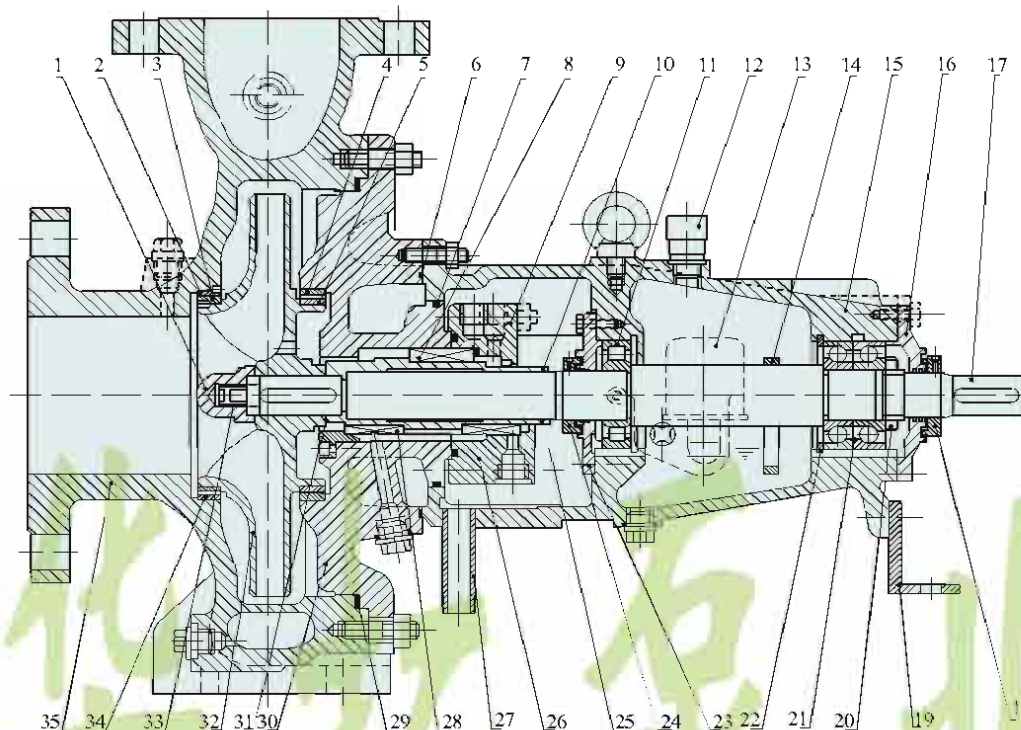
说明: *订货合同在泵型号上还应注明叶轮型式: 例如: 选SLZA 40-250、叶轮型式为A, 应与成SLZA 40-250A;

*表中功率超过16kW, 订货时当面确定。

Note: * The impeller type should also be indicated with the pump model on the ordering contract; i.e., model SLZA 40-250 should be SLZA 40-250A in case of type A impeller;

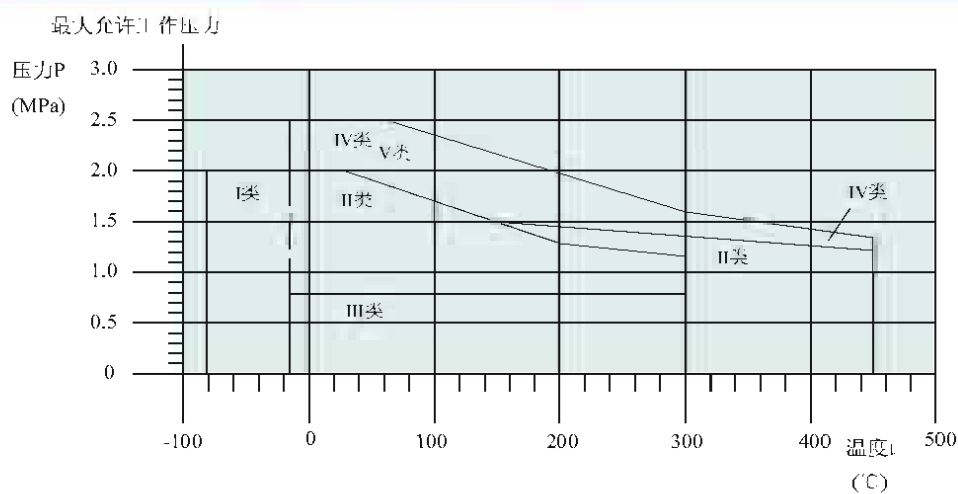
* It needs to decide in person at order for the power in the table is over 16kW.

SZA型泵结构图 SZA TYPE PUMP STRUCTURAL DRAWING



- | | | | |
|-------------------------------------|----------------------------------|---------------------------|------------------------------------|
| 1-叶轮螺母 Impeller nut | 10-轴套 Shaft | 17-轴 Axle | 29、31-垫片 Pad |
| 2-泵体密封圈 Seal ring of pump casing | 11-滚柱轴承 Rolling cylinder bearing | 18、24-防尘圈 Dust-proof ring | 30-泵盖 Pump cover |
| 3、5-叶轮密封环 Impeller seal ring | 12-排气管 Exhaust pipe | 19-支脚 Support foot | 32-叶轮 Impeller |
| 4、34-泵体密封环 Seal ring of pump casing | 13-油杯 Oil cup | 20-轴承螺母 Bearing nut | 33-钢丝螺套 Steel wire threaded sleeve |
| 6、7-O形圈 O-ring | 14-甩油环 Oil-swing ring | 21-滚珠轴承 Roll bearing | 35-泵体 Pump casing |
| 8、28-机械密封 Mechanical seal | 15-悬架 Hanging stand | 22-卡环 Clip ring | |
| 9、26-密封盖 Seal cap | 16、23-轴承体 Bearing cover | 27-排液管 Liquid drain pipe | |

压力-温度图表 CHART OF PRESSURE-TEMPERATURE



SZA SERIES PETROCHEMICAL PROCESS PUMP



泵 体 Pump casing	材 料 Material
I	1.4312(B), 1.4308(304), 1.4446(304L)
II	1.4410(M4), 1.4408(316), 1.6902(316L), 24879(804) 1.4500(904), 1.4536(904L), 钛及钛合金
III	E, IIT200
IV	ZG25
V	ZG1Cr13

最大容许试验压力(20℃) MAXIMUM ALLOWED TEST PRESSURE(20℃)

材 料 Material		泵 体 Pump casing	法 兰 Flange					
泵 体	泵体螺栓 Bolt on the pump casing	MPa	GB	DN			ANSI	
			PN25	PN10	PN16	PN25	Class 125	Class 150
I II	1Cr18Ni9	3.0	-	-	2543	2544	-	B16.5
III	-	1.2	-	2532	2533	2534	B16.1	-
IV	2Cr13	3.75	2555-81	-	2543	2544	-	B16.5
V	-	3.75	-	-	2543	2544	-	B16.5

泵体材料介质适应表 TABLE OF THE PUMP CASING MATERIALS SUITABLE FOR THE MEDIA

符号说明 Symbol meaning

符号 symbol	说明(耐蚀情况, 腐蚀率、毫米/年) Notice(about corrosion resisting, corrosive rate:mm/year)	
A	优良, <0.05	Excellet, <0.05
B	良好, <0.05~0.5	Good, <0.05~0.5
C	可用, 但腐蚀较重, 0.5~1.5	Use, but severe corrosive, 0.5~1.5
D	不适用, 腐蚀严重, >1.5	Unsuitable, severe corrosive, >1.5
*	可能产生应力腐蚀破裂	Possibly to produce stress corroded cracking
△	溶液或介质变色	Color change with solution or medium
∅	可能产生晶间腐蚀	Possibly to form corrosion between crystals
∞	可能产生孔蚀	Possibly to produce hole corrosion

铸铁和低碳钢泵适应介质表 TABLE OF THE MEDIA SUTABLE TO BOTH CAST IRON AND LOW CARBON STEEL MADE PUMPS

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature (°C)			
		25	50	80	100
过氧化氢(双氧水) Hydrogen peroxide	10	B	B	B	B
	20~40	D			
氨水 Ammonia	<30	A	B	B	B
	40	A			
甲醇 Methanol	<100	B	B	B	B
	100	A	A	A	A
乙醇 Ethanol	<100	A	A	A	
	100	A	A	A	A
丙醇 Propyl alcohol		A	A	A	A
丁醇 Butanol		A	A	A	A
		B(120)			
甲醛 Formaldehyde	10~30	D			
	40~50	C			
	60~90			D	D
	100	A	A	A	A
乙醛 Acetaldehyde	10	C	C		
	100	A	A	A	
丙醛 Propionic aldehyde		A	A		
丁醛 Butyric aldehyde		A	A	A	A
二甲基醚 Dimethyl ether		B	B	B	B
丙酮 Acetone	<100	B			
	100	A	A	A	A
甲烷 Methane		A	A	A	A
		A(120)			
乙烷 Ethyl		A	A	A	A
		A(120)			
乙烷 Ethane		A	A	A	A
丙烷 Propane		A	A	A	A
		A(120)			
丁烷 Tetrane		A	A	A	A
汽油(高辛烷值) Gasoline(high octane value)		B	B	B	
汽油(喷油燃料) Gasoline(fuel for oil sprayer)		B	B	B	

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature (°C)			
		25	50	80	100
汽油(含H ₂ S) Gasoline(containing H ₂ S)		B			
汽油(含HCL, SO ₂ , H ₂ O) Gasoline(containing HCL, SO ₂ , H ₂ O)		C	C		
煤油 Coal oil		B	B	B	B
三乙醇胺 Triethanolamine		B	B	B	B
植物油 Vegetable oil	100	A	A	A	A
		A	D		
	90	D	产生催化 Producing catalyze		
豆油 Soy bean oil		B	B		
玉米油 Corn oil		B	B	B	
桐油 Cottonseed oil		B	B	B	
饮用水 Drinking water		B	B	B	
高纯水 High pure water		A			
		A	A		
海水 Sea water	流速 Flow rate				
	<1.5m/s	B			
	>1.5m/s	D	D		
水 PII=7 Water PII=7		C	C	C	C
水 PII<7 Water PII<7		D			
水 PII>7 Water PII>7		A	B		
硫酸 Sulphuric acid	<65	D	D		
	65~75	C	C	D	D
	75~100 ⁰	B	C	D	D
氢氟酸(不含氧) Hydrofluoric acid (containing no oxygen)	<70	D	D		
	70~90	C			
	100	B	B		
氧氟酸(含氧) Hydrofluoric acid (containing oxygen)	<70	B	B		
	70~90	C			

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature (°C)			
		25	50	80	100
	100	B	B	C	
铬酸 Chromic acid	<25	D			
	30~80	B			
	100	A			
硼酸 Boric acid	<10	C	C	C	C
		C(120)			
	>10	D		D	
70~90%硫酸 硝酸 70~90% sulphuric acid nitric acid		A			
氢氧化钠 Sodium hydroxide	<30 ^①	A	B	B	B*
		D*(200)			
	30~40	A	B	B	C
	50~60	B	B	D	D
		D*(200)			
	80	B	D	D	D
	90			D	D
	100	B		D	
氨化液 Ammonium hydride	<10	C	D		
	10~99	D	D		
	100	B			
硫酸钠(PH>7) Sodium sulphate(PH>7)		B	B	B	B
硝酸钠 Sodium nitrate	<90	A	A	B	C
	100	A	A	A	A
		B(120)			
碳酸钠 Sodium carbonate		A	A	A	A
氯化钠(含氧) Sodium chloride (containing oxygen)	10	D ^②	C	C	D
	20~30	C			D
	100	A			
氰化钠 Sodium cyanide	10	A	A	A	A
		A(120)			
	20~90	A	A	A	A

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature (°C)			
		25	50	80	100
	100	A	A	A	A
碳酸氢钠 Sodium bicarbonate	<100	B	B	B	B
	100	C			
硅酸钠 Sodium silicate		B	B	B	B
		B(120)			
柠檬酸钠 Sodium citrate	10	D			
	100	A			
硫酸钾 Potassium sulphate	10~20	B	B	B	D ^③
		D			
	100	A			
硝酸钾 Potassium nitrate	<90	B	B	B	B
	100	A	A	A	A
		A(120)			
氟化钾 Potassium fluoride	20	B	B	B	
	100	A	B	B	B
氰化钾 Potassium cyanide	<50	C ^④	C	C	C
	60~70			C	C
	80~90	B			C
	100	B	B	B	B
重铬酸钾 Potassium chromate	<60	B	B	B	B
		B	120		
	100	B	B	B	B
高锰酸钾 Potassium permanganate	<100	B	B	B	C
	100	B			
氯化钙 Lime chloride	10	A	A	A	A
		A(120)			
	20~70	B	B	C	D
		A	A	A	A
氟化钙 Calcium fluoride	90	C			
	100	B	B	B	B

注：①高转速泵、阀，以用高铬镍不锈钢为好。铸铁优于碳钢，可用丁80~100℃以下。②铸铁不耐100℃。③铸铁为C。④铸铁为D。

Note: ①It is better to use the high Cr-Ni stainless steel for the pump and valve of a high rotating speed. Cast iron is better than carbon steel. May be used below 80~100℃.

②Cast iron does not withstand 100℃.

③Cast iron to be C.

④Cast iron to be D.

铬18镍19不锈钢(304, 304L)泵适应介质表 TABLE OF THE MEDIA SUITABLE TO THE PUMP MADE OF Cr18Ni9 STAINLESS STEEL(304,304L)

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
无机酸 Inorganic acid					
硫酸(不充气) Sulphuric acid [†] (without gas filled)	<5	B	D		
	10~80	D	D		
	90	B	D		
	100	B	C		D
硫酸(充气) Sulphuric acid [†] (gas filled)	<20	C	D		
	30~60	D	D		
	70~80	C	D		
	90~100	B	C	D	D
发烟硫酸 Fuming sulphuric acid		D			
硝酸 Nitric acid	<30	A	A	A	A
		C(120)		D(150)	
	40~60				
	70				
盐酸 Chlorhydric acid		D			
磷酸 Phosphoric acid	<5	B	B	B	B
		B(沸点) B(Boiling point)			
	10	B	D	D	D
		D(沸点) D(Boiling point)			
	10~85	D			
氢氟酸(不充气)* Hydrofluoric acid (without gas filled)* [∞]	<100	D			
	100	B	D		
氢氟酸(充气) Hydrofluoric acid (gas filled)* [∞]		D		D	
铬酸* Chromic acid* [∞]	<10	B	C	C	
		C(沸点) C(Boiling point)			
	20~30	B	D	D	D
	50	D			
	100	D			
硼酸 [∞] Boric acid [∞]	<30	A	A	A	A
		A(沸点) A(Boiling point)			
	40	B	B	B	B
		B(150)			
	50	B	B	B	B

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
硼酸 [∞] Boric acid [∞]	70~80	D			
	70~80	D(120)			
	100	B	B		
		D(200)			
混酸: 硫酸>50% 硝酸<50% 水>20% Mixed acid: sulphuric acid>50% nitric acid<50% water>20%		B	B	B	D(沸点) D(Boiling point)
硫酸20~60% 硝酸<25% 水>20% Sulphuric acid 20~60% nitric acid<25% water>20%		D			
硫酸15% 硝酸5% 水80% Sulphuric acid 15% nitric acid 5%+water 80%		B	B	B	B(沸104) (Boiled 104)
氢氧化钠 Sodium hydroxide	<50	A	C	C	D
		D*(200)			
	70*	B	B	B	D*
		D*(200)			
	80*	B	B	B	D
		D*(200)			
	100	B	B	B	B
		C(316)		D(370)	
氢氧化钾* Potassium hydroxide*	<50	B	B	B	B
		B(沸点) B(Boiling point)			
	50	B	B	B	D
		D(200)			
	60~70	B	B	B	C
		C(120)			
	80	B			D
		D(200)			
氢氧化钾 Potassium hydroxide	100	A			
		D(250)			
硫酸钠* Sodium sulphate*		A	A	A	A
		A(200)		B(840)	

铸铁和低碳钢泵适应介质表 TABLE OF THE MEDIA SUITABLE TO THE PUMP MADE OF CAST IRON AND LOW CARBON STEEL

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
硝酸钠 Sodium nitrate	<70	A	A	A	A
		A(沸点) A(Boiling point)			
	100	B		D	
碳酸钠 Sodium carbonate	10	A	A	A	A
		A(沸点) A(Boiling point)			
	20~40	B	B	A	A
	100	A	A	A	B
碳酸钠 Sodium carbonate	100	D*(400)		D*(900)	
氯化钠 Sodium chloride	10~30	B	B	B	B
		B(沸点) B(Boiling point)			
	90	D			
	100	B	B	B	
氰化钠 Sodium cyanide	10	A	A	A	A
	20~30	A			
	40~100	A	A	A	D
硅酸钠 Sodium silicate		A	A	A	A
		D(800)			
醋酸钠 Sodium acetate	10	A	A	A	A
		A(150)			
	20~60	B	B	B	B
柠檬酸钠 Sodium citrate	<40	B	B	B	B
	100	B			
硫酸钾 Potassium sulphate	<饱和	A	A	A	A
		A(沸点) A(Boiling point)			
	100	D(200)			
硫酸钾 Saturation	<80	B	B	B	B
		B(沸点) B(Boiling point)			
	100	A	A	A	A
		A(560)			
氯化钾 Potassium fluoride		B	B	B	B
氯化钾 Potassium cyanide	<30	A	A	A	A
	40~	B	B	B	B

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
氯化钾 Potassium cyanide	90				
	100	B			
重铬酸钾 Heavy potassium chromate	<30	A	A	A	A
		A(沸点) A(Boiling point)			
	40~60	A	A	A	A
	100	B			
高锰酸钾 Potassium permanganate	<30	B	B	B	B
		B(沸点) B(Boiling point)			
	100	B			
氯化钙 Calcium chloride	<20	A	A	A	D
	30~80	B	B	B	D
	100	B			
		D(150)			
氟化钙 Calcium fluoride	10	A	A	A	A
	100	A	A	A	A
过氧化氢(PH>7) Solozon (PH>7) (双氧水) (Hydrogen peroxide solution)	10~40	B	B	B	B
		B(沸点) B(Boiling point)			
	90	A	A		
	100	B			C
氨水 Ammonium water		A	A	A	A
氨(无水) Ammonium (free of water)		A	A	A	A
		A(316)		A(500)	
甲醇 Methanol	<100	A	A	A	A
	100	A	A	A	C
乙醇 Alcohol		A	B	B	B
丙醇 Propanol		A	A	A	A
丁醇 Butanol		A	A	A	A
甲醛 Formaldehyde	<40	A	A	A	A
		A(150)			
	50	A	A	B	B
		B(300)			
	60~70	A	A		
	80~90	A	A	A	
	100	A			
乙醛 Acetaldehyde		A	A	A	A
丙醛 Propionic aldehyde		A			
丁醛 Butyric aldehyde		A	A	A	A
(二)甲醚 Dimethyl ether		B	B	B	B

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
乙 醚 Ethyl ether		A	A	A	A
丙 酮 Acetone		A	A	A	A
甲 烷 Methane		A	A	A	A
		A(370)			
乙 烷 Ethane		A	A	A	A
		A(316)			
丙烷(液及气) Propane(liquid and gas)		A	A	A	A
丁 烷 Tetraene		A	A	A	A
汽油(高辛烷值) Gasoline(high value of octane)		B	B	B	
汽油(喷汽机燃料) Gasoil(fuel of steam sprayer)		B	B	B	
煤 油 Coal oil		A	A	A	A
		A(200)			
三乙醇胺 Triethanolamine		B	B	B	B

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
植物油 Vegetable oil		A	A	A	A
		A(350)			
豆 油 Soy bean oil		A	A	A	A
玉米油 Corn oil		A	A	A	A
棉子油 Cottonseed oil		A	A	A	A
饮用水 Drinking water		A	A	A	A
海 水 Sea water	流 速 Flowrate				
	<1.5m/s	A ∞		A	
	>1.5m/s	A ∞			

铸18镍12钼(钛)(316,316L)不锈钢泵的适应介质表 TABLE OF THE MEDIA SUITABLE TO THE PUMP MADE OF Cr18Ni12Mo(Ti) (316,316L) STAINLESS STEEL

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
硫酸 ⁺ (充 ⁺ 气) Vitrol ⁺ (gas filled)	<5	B	B	D	D
	10~30	B	C	D	D
	40~50	C	D	D	
	60~70	D	D	D	
	90	B ⁺	C ⁺	D	D
	100	B	C ⁺	C ⁺	C ⁺
硫酸 ⁺ (不充 ⁺ 气) Vitrol ⁺ (without gas filled)	<5	B	D	D	D
	20~80	D	D	D	D
	80~90	B	D	D	
	100	B	B	B	C
硝 酸 Nitric acid	<20	A	A	A	A
		C(120)		D(150)	
	30~60	A	B	B	B
		D(120)			
	70	A	B	B	
	80	A	B	D	
	90	A	D		
磷酸 ⁺ (充 ⁺ 气) Phosphoric acid (gas filled)	<25	A	A	A	A
	25-50	A	A	A	B

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
磷酸 ⁺ (不含 ⁺ 气) Phosphoric acid (containing no oxygen)		D(120)			
	50~85	A	B	B	B
		D(120)			
	90	D			
	100	B			
氢氟酸(不充 ⁺ 气) Hydrofluoric acid (without gas filled)	<100	D			
	100	B			
氢氟酸(充 ⁺ 气) Hydrofluoric acid (gas filled)	<10	B			
	10~90	D			
	100	B			
碳 酸 Carbethylic acid	10	B			
	30				A
	100	A	A	A	A
铬 酸 Chromic acid		A(816)			
		D			D
氯 酸 ∞ Chloric acid ∞		D			
四磷酸 Tetra-phosphoric acid		B			
硼 酸 ∞ Boric acid ∞	<10	A	A	A	A
	20~50	B	B	B	B

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(℃)			
		25	50	80	100
		B(150)		B(沸点) B(Boiling point)	
		70~80	B	D(120)	
干水 Nitro-hydrochloric acid	100	B	B	D(250)	
混酸: 硫酸>50% 硝酸<50% 水<20% Mixed acid: sulphuric acid>50% nitric acid<50% water<20%		D			
混酸: 硫酸20~60% 硝酸<25% 水<20% Mixed acid: sulphuric acid>20~60% nitric acid<25% water<20%		B	B	B	
混酸: 硫酸50% 硝酸15%+水55% Mixed acid: sulphuric acid 30% nitric acid 15%+water55%		D(沸点) D(Boiling point)			
混酸: 硫酸15% 硝酸5% 水80% Mixed acid: sulphuric acid 15% nitric acid 5% water80%		D			
混酸: 硫酸50% 硝酸15%+水55% Mixed acid: sulphuric acid 30% nitric acid 15%+water55%		B	B	B	
混酸: 硫酸15% 硝酸5% 水80% Mixed acid: sulphuric acid 15% nitric acid 5% water80%		B(沸点) B(Boiling point)			
胺酸 [∞] Amine acid	<5	R	R	R	R
	>5	C	C	C	C
醋酸 [∞] (无气) (乙酸) Acetic acid [∞] (without gas filled) (acetic acid)	<50	A	A	A	A
	60~90	B	B	B	B
	100	B	B	B	B
		D(200)			
醋酸(有气) Acetic acid (gas filled)	<40	A	A	A	A
	50	A	B	B	B
	60~90	A	B	B	C
	100	A	B	B	C
		D(150)			
氢氧化钠 Sodium hydroxide	<20	A	A	A	A
		B(沸点) B(Boiling point)		D(150)	
	30~50	A	A	B	D
		D*(150)			
	70	A	A	B	B
		D*(150)			
	80	A	A	B	D*
		D(260)		D(370)	

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(℃)			
		25	50	80	100
		A		A	
		C(260)		D(370)	
氢氧化钠 Sodium hydroxide	100	A		A	
	<50	A(沸点) A(Boiling point)			
	50	B	B	B	D
		D(200)			
氢氧化钾 Potassium hydroxide	60~70	B	B	B	C
		C(150)			
	80	B			
		D(200)			
	100	A			
		D(260)			
硫酸钠 Sodium sulphate		A	A	A	A
		A(200)		B(840)	
硝酸钠 Sodium nitrate	<70	A	A	A	A
		A(沸点) A(Boiling point)			
	100	B			
		A(510)			
碳酸钠 Sodium carbonate	10	A	A	A	A
		A(沸点) A(Boiling point)			
	20~40	B	B	A	A
		A(沸点) A(Boiling point)			
	100	B	B	B	B(260)
		D*(400)		D*(900)	
氯化钠 [∞] Sodium chloride [∞]	10	B	D		
	20~30	B	B	B	B
		B(沸点) B(Boiling point)		D(120)	
	90	D			
	100	A		D(700)	
碳酸氢钠 Sodium bicarbonate		A	A	A	A
氰化钠 [∞] Sodium cyanide [∞]	<10	A	A	A	A
	20~30	A			
	40~100	B			D
		D(700)			
硅酸钠 Potassium silicate		A	A	A	A
		D(800~100)			
硫酸钠 Potassium sulphate	<100	A	A	A	A
		A(沸点) A(Boiling point)			

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(℃)			
		25	50	80	100
硝酸钾 Potassium nitrate	100	A			
	<80	B	B	B	B
		B(沸点) B(Boiling point)			
	100	B			
碳酸钾 Potassium bicarbonate		B(550)			
	<70	B	B	B	B
		B(沸点) B(Boiling point)			
氯化钾 Potassium fluoride	100	B	B	B	B
氰化钾 Potassium cyanide	<90	B	B	B	B
	100	B			
重铬酸钾 Heavy potassium chromate	<30	A	A	A	A
		A(沸点) A(Boiling point)			
	40~60				A
高锰酸钾 Potassium permanganate	10	B			
	<30	B	B	B	B
	10	B	D		
氯化钙** Calcium chloride**	20~30	B	B		
	40~90	B	B	B	
		D(沸点) D(Boiling point)			
	100	A	A	A	A
	50	C(-18)			
氟化钙 Calcium fluoride	10	A	A	A	A
	100	A	A	A	A
甲醇 Methanol	<100	A	A	A	A

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(℃)			
		25	50	80	100
乙醇 Alcohol	100	A	A	A	A
乙醇 Ethanol		A	A	A	A
甲醛 Formaldehyde	<40	A	A	A	A
		A(150)			
	50	A	A	B	B
		B(300)			
	60~70	A	A		
	80~90	A	A	A	
	100	A			
乙醚 Ethyl ether		A	A	A	A
丙酮 Acetone		A	A	A	A
醋酸乙酯 Ethyl ester acetate		A	A	B	B
甲苯 Toluene		A	A	A	A
		A(沸点) A(Boiling point)			
汽油 Gasoline		A	A	A	A
		A(175)			
煤油 Coal oil		A	A	A	A
		A(200)			
苯酚 Phenyl hydroxide	70~90	B	B	B	B
		B(150)			
海水 Sea water	流速 Flow rate				
	<1.5m/s	A**		A(PIT≈7)	
	>1.5m/s	A**			

注：① Cr26Mol 铁素体钢不耐蚀；
② 高流速和摩擦会加剧腐蚀；
③ 本泵许可微量盐酸、硫酸或氯化钠。Cr26Mol 铁素体钢耐蚀较好。

Note: ① Cr26Mol ferritic steel does not withstand corrosion;
② High flowrate and friction may increase corrosion;
③ Not allowed to contain micro chlorhydric acid, sulphuric acid or sodium chloride. Cr26Mol ferritic steel is of a better corrosion resistance.

钛及钛合金泵的适应介质表 TABLE OF THE MEDIA SUITABLE TO THE PUMP OF TITANIUM AND TITANIUM ALLOY

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(℃)			
		25	50	80	100
硫酸(无气) Vitriol [®] (gas filled)	1	B	B	B	B
		B(沸点) B(Boiling point)			
	<3	B	B		D
	<10	B	C	D	D
	10~30	B	C	D	
	40~50	C	D		
硫酸(无气) Vitriol (without gas filled)	50~100	D	D		
	<10	B			
	10~100	D			

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(℃)			
		25	50	80	100
硝酸 Nitric acid	10	A	A	A	A(150)
		B(200)			
	20	A	A	A	
		A(150)			
		B(200)			
	30~80	D(316)			
		A	A	A	A(150)
	80~100	D(200)			
		A	A	B	
		B(150)			

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
盐酸 ^① (不充气) Chlorhydric acid ^① (without gas filled)	10	B	D		
	20	C	D		
	>30	D			
盐酸 ^① (充气) Chlorhydric acid ^① (gas filled)	1	B	B	B	B(沸点) B(Boiling point)
	<20	B			D(35)
	30	B	D		
	>50	D			
磷酸 ^① (充气) Phosphoric acid (gas filled)	5	B	B	B	B
	<10	B	B	B	
磷酸 ^① (充气) Phosphoric acid (gas filled)		D(沸点) D(Boiling point)			
	10~20	B	D		
	30	B	C		D
	40	C	C		
	50~70	C	C	D	
	100	D			
磷酸 ^① (不充气) Phosphoric acid (without gas filled)		D			
铬酸 Chromic acid	10	A	A	A	A
	<90	A	A	A	A
硼酸 Boric acid	10	A	A	A	A
	<饱和 <Saturation	A	A	A	A
盐酸1%+硝酸3% Chlorhydric acid 1%+nitric acid 3%		A			
盐酸2%+硝酸1% Chlorhydric acid 2%+nitric acid 1%		A			
王水 Nitro-hydrochloric acid		A	A	B	B
盐酸4%+硝酸1% Chlorhydric acid 4%+nitric acid 1%		A			

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
甲酸(不充气) Aminic acid (without gas filled)	<10	A	A	A	
		A(沸点) A(Boiling)			
	30	D			D
	<50	B	B	D	D
	90			D	D
甲酸(充气) Aminic acid(gas filled)		B	B	B	B
醋酸 Acetic acid		A	A	A	A
		A(200)			
氢氧化钾 Potassium hydroxide	10	A	A	A	A
氢氧化钾 Potassium hydroxide		A(沸点) A(Boiling point)			
	20~100	B			D(沸点) D(Boiling point)
		D(260)			
氢氧化钠 Sodium hydroxide	10	A	A	A	A
		A(沸点) A(Boiling point)			
硫酸钠 Sodium sulphate	10~30	A	A	A	A
		A(沸点) A(Boiling point)			
	饱和 Saturation	A	A		
		D(900)			
硝酸钠 Sodium nitrate	<饱和 <Saturation	A	A	A	A
		A(300)			
氯化钠 Sodium chloride	<饱和 <Saturation	A	A	A	A
		A(沸点) A(Boiling point)			
	100	A*(沸点) A*(Boiling point)			
乙醇 ^② Alcohol*		A	A	A	A
乙二醇 Ethandiol		A	A	A	A
乙醚 Ethyl ether		A	A	A	A
丙酮 Acetone		A	A	A	A
醋酸乙酯 Ethyl ester acetate		A	A	A	A
甲苯 Toluene		A	A	A	A
苯酚 Phenyl hydroxide		A			

注：①含Cu、Ni等离子或其他氧化剂能降低腐蚀。

②含微量Cl的甲、乙醇可能产生应力腐蚀破裂，含2%以上的水时可避免。

Note: ①Containing Cu, Ni etc. ions or other oxidants can lower the corrosion.

②Both methanol and alcohol containing micro cl may produce stress corrosive cracking, which can be avoided by containing more than 2% water.

ZG00Cr20Ni25Mo4.5Cu1.5(904L)耐腐蚀性能表 ZG00Cr20Ni25Mo4.5Cu1.5(904L) TABLE OF ANTI-CORROSIVE PERFORMANCE

介质名称 Medium name	介质条件 Medium condition		腐蚀情况 Corrosion condition
	浓度 Concentration(%)	温度 Temperature(℃)	
氟 酸 Vitril	5-40	60	A
	10	80	B
	20	70	B
	30	70	B
	40	30-50	A
	50	40	A
	50	50	B
	60	20-35	A
	60	40	B
	80-98	40	A
	80-98	50	B

介质名称 Medium name	介质条件 Medium condition		腐蚀情况 Corrosion condition
	浓度 Concentration(%)	温度 Temperature(℃)	
硝 酸 Nitric acid	10-40	20-沸騰 20-Boiling	A
	50	100	A
	60	90	A
	70	100	B
	80	80	B
	1-80	沸騰 Boiling	A
醋 酸 Acetic acid	99.5	200	A
	100	20-75	A
	100	100	A
	100	沸騰 Boiling	A

ZG1Cr13(410)耐腐蚀性能表 ZG1Cr13(410) Table of anti-corrosive performance

介质条件 Medium condition			延续时间 Extended time h	腐蚀情况 Corrosion condition
介质名称 Medium name	浓度 Concentration(%)	温度 Temperature(℃)		
硝 酸 Nitric acid	5	20		A
	7	20	720	A
	5	沸騰 Boiling		D
	20	20		A
	20	沸騰 Boiling		A
	50	20		A
	50	沸騰 Boiling	24	C
	65	20		A
	65	沸騰 Boiling	24	D
	90	20		A
	90	沸騰 Boiling		D
醋 酸 Acetic acid	10-50	20		C
	10	沸騰 Boiling		D
蚁 酸 Formic acid	10-50	20		A
	10-50	沸騰 Boiling		D
柠檬酸 Citric acid	1	20		A
	1	沸騰 Boiling		D
	25	20	720	C
氨 Ammonia	溶液或气体 Solution or air	20-100		A
氢氧化钠 Sodium hydroxide	20	20		A
	20	沸騰 Boiling		A
	50	100		D
	浓 液 Thick liquid	20		A

介质条件 Medium condition			延续时间 Extended time h	腐蚀情况 Corrosion condition
介质名称 Medium name	浓度 Concentration(%)	温度 Temperature(℃)		
草 酸 Oxalic acid	浓 液 Thick liquid	20		A
	浓 液 Thick liquid	沸騰 Boiling		D
硝酸铵 Ammonium nitrate	约65 About 65	20	1127	A
	约65 About 65	125	110	C

流程泵数据单(客户填写)
DATA LIST OF FLOW PUMP (FILLED IN BY CLIENT)

工作条件 WORKING CONDITIONS

- 流量 Flowrate, 正 常 Normal _____(m³/h), 额定 Rated _____(m³/h), 其它 Other _____
- 吸入压力, 最大/额定 Suck-in pressure.Max./rated _____ / _____(KPa)
- 吐出压力 Vomiting pressure _____(KPa)
- 压力差 Pressure difference _____(KPa)
- 扬程差 Head difference _____(m) NPSHa _____(m)
- 流程条件的变化 Variation of the flow condition _____
- 起动条件 Starting condition _____

使用方式 WAY OF USE

- 连续 Continual
- 间歇(起动次数/日) Intermittent(starting time/day) _____

现场条件 SITE CONDITION

- 海拔 Elevation _____(m) * 气压 Barometer _____(KPa abs)
- 环境温度范围: 最小/最大 Range of ambient temperature: min/max _____ / _____(°C)
- 相对湿度: 最大/最小 Temperature max/min _____ / _____(%)

介质 MEDIA

- 介质名称或牌号 Medium name or brand number _____
- 泵送温度 正常 Transport temperature of pump normal _____(°C) 最大Max _____(°C) 最小Min _____(°C)
- 汽化压力 Vaporizing pressure _____(KPa abs) 在at _____(°C)
- 相对密度(比重) 正常 Relative density(specific gravity) normal _____ 最大Max _____ 最小Min _____
- 比热, CP Specific heat, CP _____(KJ/Kg °C)
- 粘度 Viscosity _____(cP) 在at _____°C
- 最大粘度(在最小温度下) Max.viscosity(at the min.temperature) _____(cP)
- 腐蚀/冲蚀剂 Corrosion/flushing corrosive agent _____
- 氯化物浓度(PPM) Concentration of sulphide(PPM) _____
- H₂S(硫化氢)浓度(PPM) Concentration of H₂S(PPM) _____
- 是否危险 Dangerous? _____ 是否易燃 Combustible? _____

订货须知 NOTICE AT ORDER

- 根据使用条件决定泵的规格、材料、轴封形式及电机。
- 配用特殊电动机时，要指出防爆等级、功率、电压、频率等。
- 若选用填料密封，订货时请特殊注明。
- 本样本内所列性能参数，用户可在其范围内任选，并指定叶轮型式(开式或闭式)。
- ☐ Decide the pump's norm, material, axle seal type and motor up on the conditions of use.
- ☐ For fitting with a special motor, please indicate the explosion-proof class, power, voltage, frequency etc.
- ☐ Make a special note at order if selecting packing seal.
- ☐ Users may select the performance parameters within the range listed in this catalog and indicate the impeller type (opened or closed).

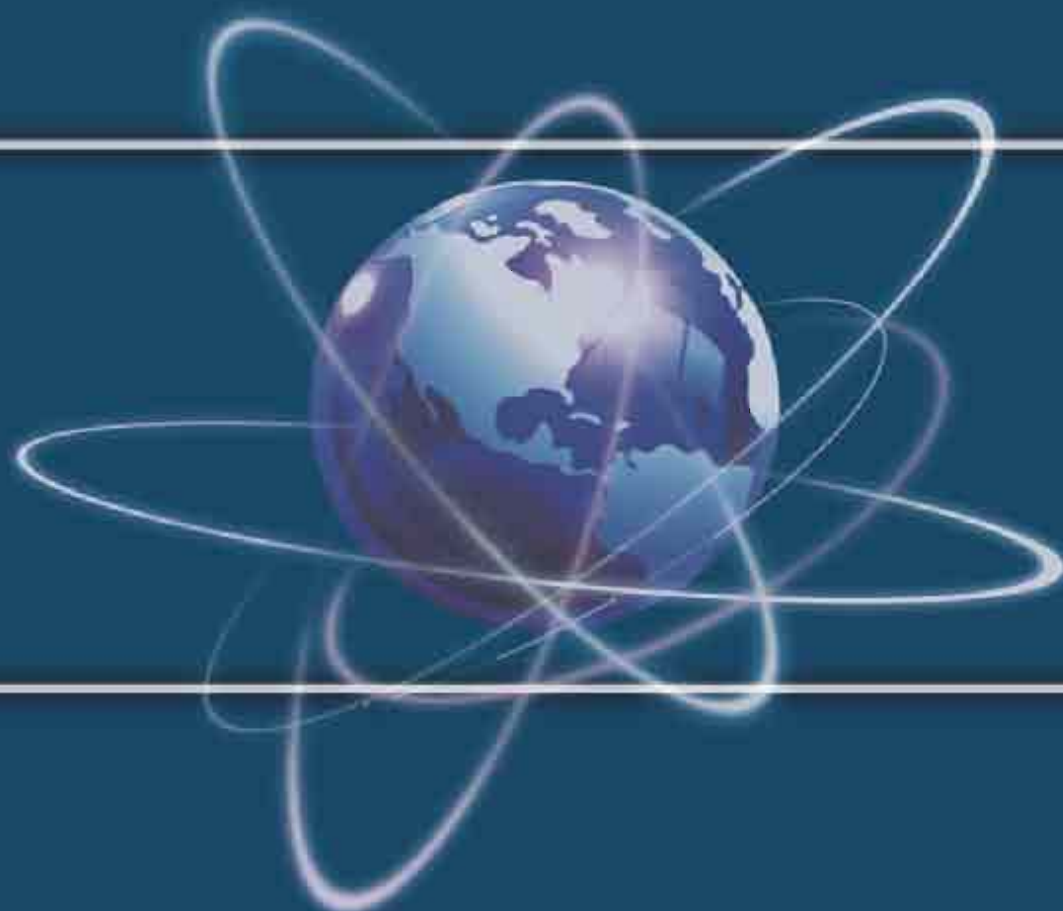
供货范围 RANGE OF SUPPLY

本公司该产品标准出厂配置为：泵头、电机、底座、联轴器及联轴器罩。如需其它附件，订货时需另加价。

The standard allocation of the pump at ex-works includes pump head, motor, foundation, clutch and clutch cover. Additional charge is necessary at order if other accessories are required.



团结、务实、优质、创新



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