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浙江凯程泵阀有限公司

ZHEJIANG KAICHENG PUMP VALVE CO.,LTD.

地址: 浙江温州瓯北镇东瓯工业园区
ADD: Dongou, Oubei Industrial Zone, Wenzhou, Zhejiang.
邮编(P.C): 325105
电话(Tel): 0086-577-67319088 67316738
传真(Fax): 0086-577-67317668
E-mail:kc@cnkcmp.com



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面对复杂多变的工矿环境，凯程致力于
水工业流体技术和环保产业开发制造，
提供优质产品、技术和工程的全面系统解决方案。

Facing the complex and changable industrial environment,
KaiCheng is committed to studying industrial fluid technology
and developing environmental protection industry.
We devote ourself to providing high quality products,
technology and a whole set solutions in engineering.

水工业流体输送专家

Experts in Water industry liquid transportation



SP无堵塞自吸式排污泵 SP Non-clogging self-priming sewage pump

产品说明书 Product specification



概述 Summarize

SP型无堵塞自吸式排污泵是本公司最近研发的新产品，国际标准新型无堵塞自吸式排污泵，适用于市政污水和工业废水处理工程，以及各类废水污水分级处理和集中处理系统，有性能稳定，使用可靠，自吸速度快，吸入度高等优点。由于是后拉出结构，维修方便，节省日常维护，提高了效率。其开式叶轮结构，通过能力强。使用简单，泵首次启动需把泵体灌满。是最理想的新一代自吸污水泵产品，有自吸污水泵之王的称谓。

SP Non-clogging Self-priming Sewage Pump is a newly developed international standard product, which is suitable for municipal sewage and industrial waste water treatment projects, as well as the stage and centralized treatment systems for various types of waste water. The pump's main advantages are stable and reliable performance, rapid self priming capacity and higher suction height and so on. Because of the back-pulled structure, the pump is with the characters of easy maintenance, saving daily maintenance and higher efficiency. The pump is with strong trafficability because of the open type impeller. It can be easily operated, just filling up the pump's body at the first start. It is the best of new generation pump and can be called the king of self priming water pump.

工作范围 Operating Range

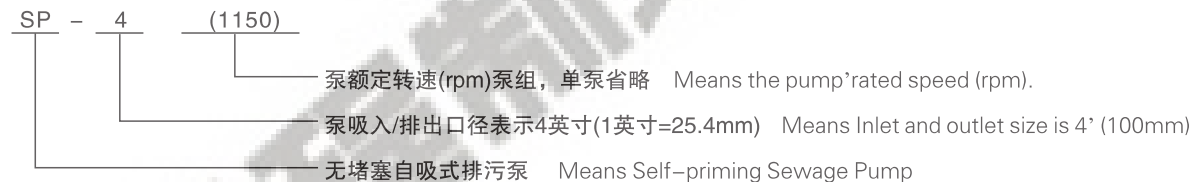
流量:10m³/h-760 m³/h
扬程:3m-40m
功率:1.1KW-90KW
口径:25mm - 250mm
最大吸程: 8m
最大通过直径: 38mm-76mm
温度: ≤50℃
介质密度: ≤1.2×103kg/m³ PH值5-9
介质中固体物容积比≤2%
Working Range
Capacity:10m³/h-760 m³/h
Head:3m-40m
Power:1.1KW-90KW
Size:25mm - 250 mm
Max Suction Head : 8m
Max Dia for Particals: 38mm-76mm
Temperature: ≤50℃
Medium Density : ≤1.2×103kg/m³ PH=5-9
The solid's volume ratio in the medium: ≤2%

适用范围 Application:

- 用于处理非易燃、易爆液体；
- 雨水和一般污水；
- 市政排污工程、建筑工地、人防系统排水站；
- 轻工、造纸、纺织、食品、化工、电业、矿山等工业废水；
- 住宅区的污水排放；
- 水净化系统的污水及沉淀物；
- 制革业、屠宰场污水、池塘养殖业；酿酒业和食糖业；
- 不具有强腐蚀性但已被严重污染的污水排放。
- 用于市政移动泵站、移动泵车抢险排水；
- 配套柴油机，应用广泛。

Non-flammable and non-explosive liquid;
Rain water and common sewage;
Municipal drainage project, construction site, drainage station of people's air defense system;
Industrial sewage of light industry, paper mill, textile, food processing plant, chemical industry, electric utility, deep mines, etc.
Sewage discharge in the residential area;
Tanning industry, sewage of slaughter house, fish breeding in the river and pond;
Wine and sugar industry;
Sewage discharge not having strong corrosiveness but seriously polluted.
Municipal mobile pump station, and the mobile pump commonly used in rescuing drainage.
The desile enginee is widely used in lots of fields.

型号含义 Model Code:



安装条件 Installation Conditions:

- 1、吸入管可用软管和硬管，管路的材料必须适用所输送液体，软管壁必须有足够的刚度，以防止吸入管凹瘪；
- 2、吸管尽可能保持短而直，少用弯管及附件，弯管应使用较大半径的弯管；
- 3、浸入集水坑的吸管离坑壁的距离应大于管径的1.5倍。吸入管不得安装在水流（可能存在漩涡）附近，否则应在吸管与水流间增设一挡板，距离1.5倍的管径；
- 4、同一个集水坑如有二根以上吸管，则管与管之间的距离应大于3倍管径；吸入管浸入液下深度：
- 5、吸入管浸入液下深度与吸管内液体流速有关，见图1。
可以通过扩大吸入管径，降低进水流速来减小吸管浸入液下深度。通过安装标准异径接头来扩大吸入管径，垂直扩径采用同心异径接头，水平扩径采用偏心异径接头，扩大吸管径比推荐1.3-1.5倍管径。
- 6、倒灌状态即泵的进口有压力，该进口压不得大于50%最大允许工作压力。
- 7、泵站如配置滤网，滤网的过流面积是吸入管过流面积的4-6倍，而且保证滤网的最大通过颗粒直径小于泵站的最大通过颗粒直径。

1. The suction pipe can be flexible hose and hard tube, and the pipe's material must be suitable for the liquids. In order to prevent the suction pipe to be hollow and shrunken, the wall of soft tube must have enough rigidity.

2. Keep the suction pipe as short and straight, with less elbows and accessories. The larger radius elbows are needed.

3. The distance between the suction pipe (immersed the sump) and the wall of sump should be greater than 1.5 times of pipe diameter. Suction pipe shall not be installed near the water (there may be vortex), or else, it is necessary to set a baffle between the suction pipe and water and the distance is 1.5 times of the pipe diameter.

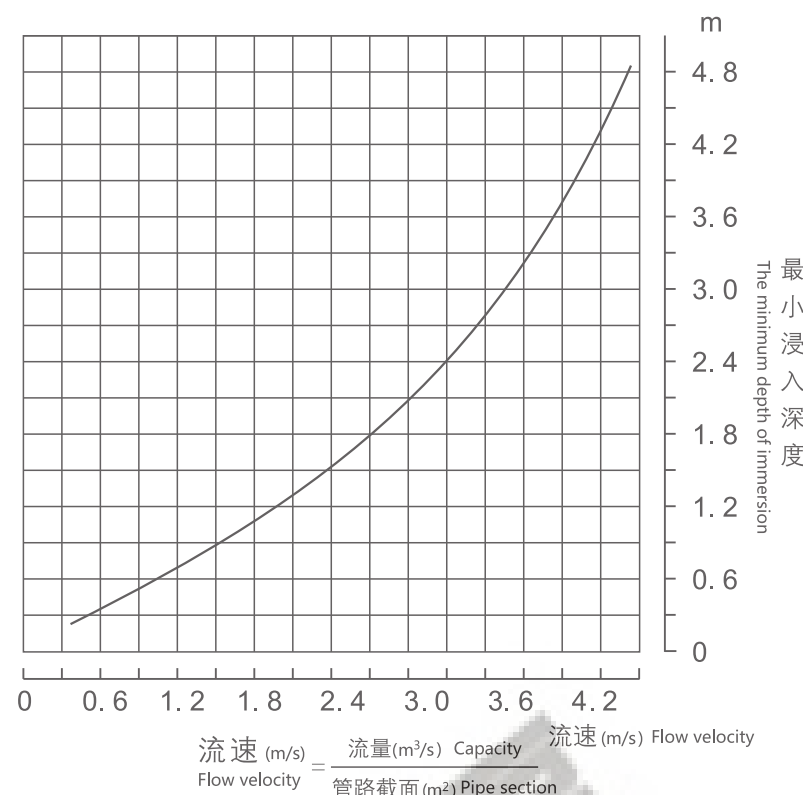
4. If there are two suction pipes, the distance between them should be greater than 3 times of the pipe's diameter.

5. The depth under water:

The depth of suction pipe (immersed the water) has great connection with the speed of liquid in pipe. Check figure 1. The depth of suction pipe that immersed the water can be reduced by enlarging the pipe's diameter and lower the water's speed. The pipe's diameter can be enlarged by installing standard reducing joint, enlarging the diameter vertically by using concentric reducing joint, and enlarging the diameter horizontally by using eccentric reducing joint. Expanding the diameter of suction pipe 1.3~1.5 times larger than recommended pipe diameter.

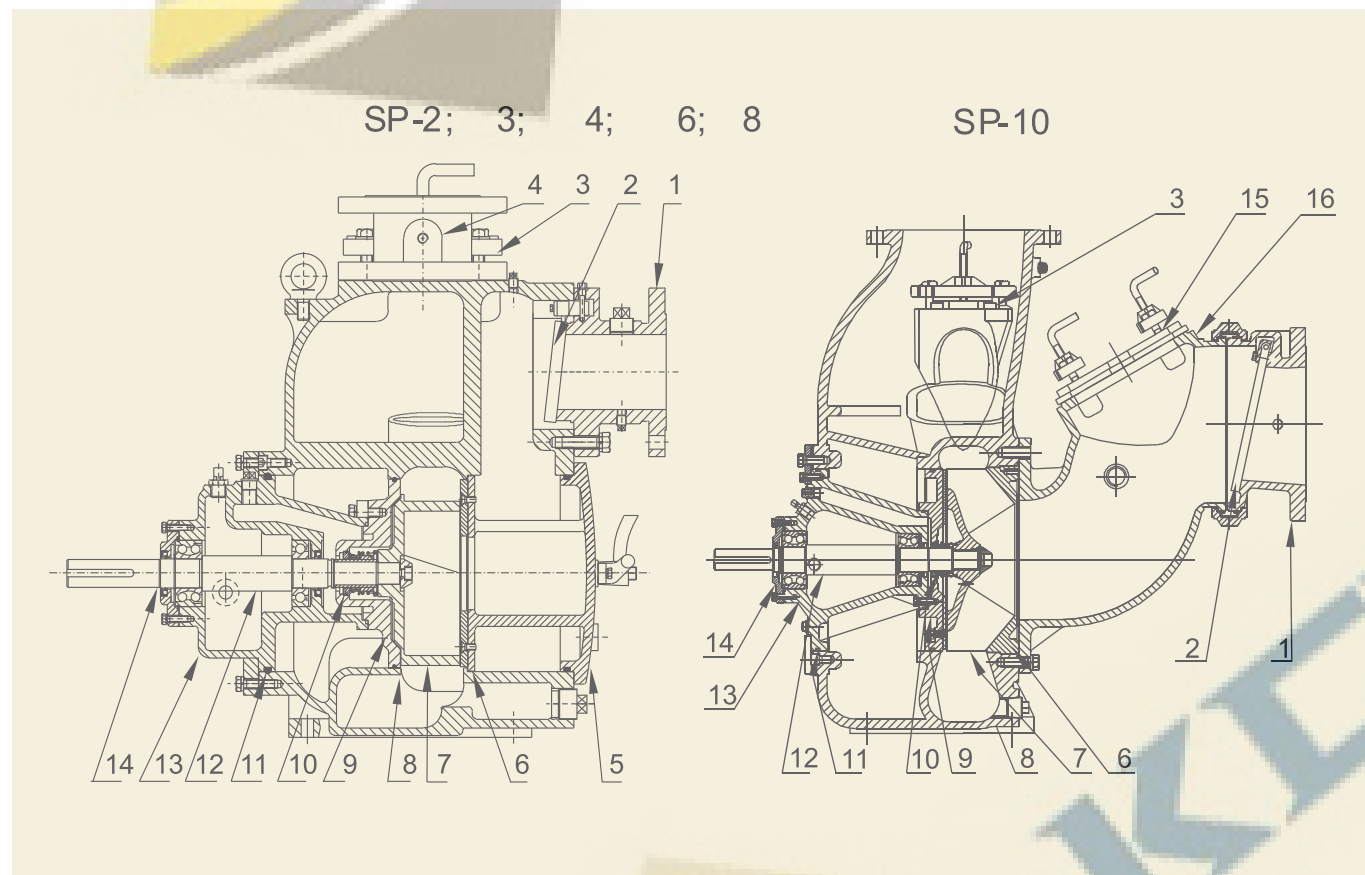
6. Flow backward state means that the inlet has some pressure, this pressure can not be more than 50% of the maximum allowed working pressure.

7. If the pump is equipped with a filter, the overflowing area of filter is 4~6 times larger than that of suction pipe, and ensuring that the maximum particle diameter of the filter is less than the biggest particle diameter of the pump.



图一 推荐吸入管浸入液下深度与流速关系
1.Recommended suction pipe under liquid depth and mobility related

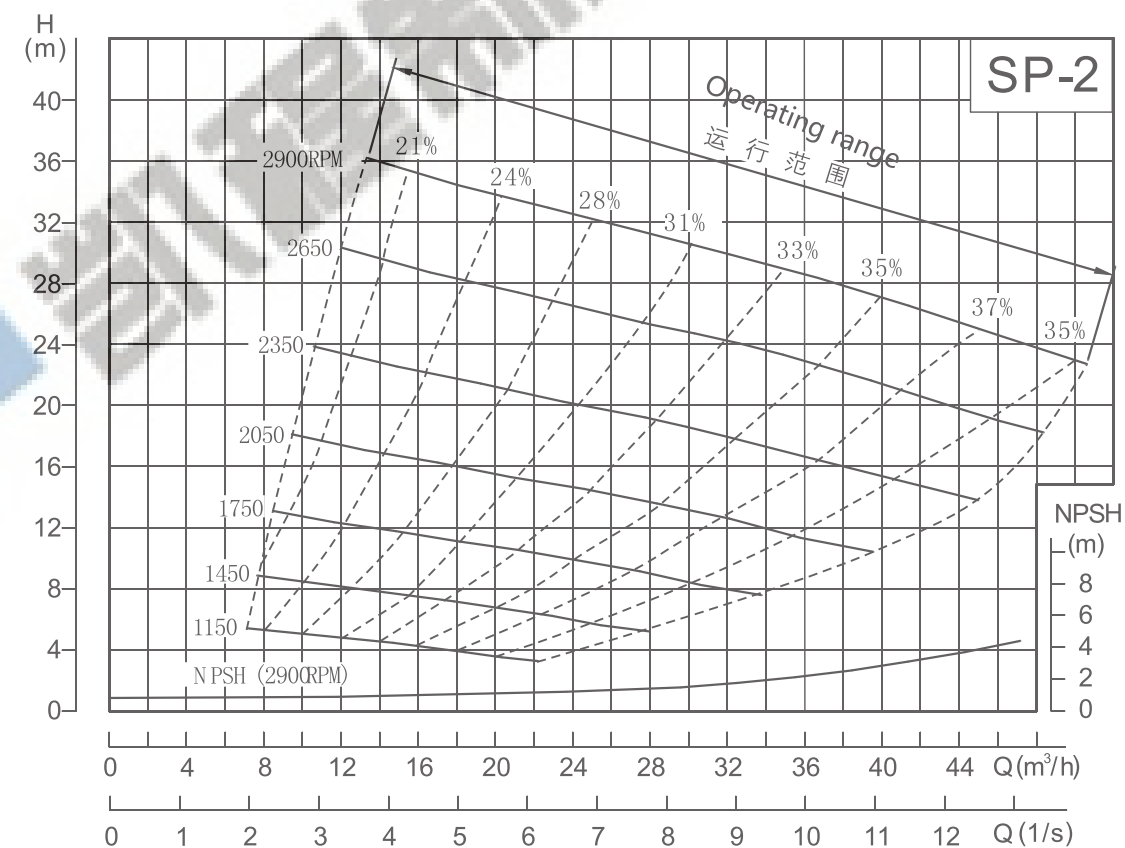
截面图 Cross section diagram



零件材料 Material:

序号 No	零件名称 Name	材料 B G	序号 No	零件名称 Name	材料 B G
1	法兰进口 Sucti on inlet	HT200	8	泵体 Volute	HT200
2	进口阀片 Flap Valve	NBR+Q235A	9	叶轮上盖 Seal Base	HT200
3	注水盖 Infusion Cover	HT200	10	机械密封 Mechanical seal	WC/WC
4	出口法兰 Discharge outlet	HT200	11	O型圈 O-ring	NBR/FPM
5	端盖/ End cover	HT200	12	泵轴 Shaft	3Cr13
6	磨损盘 Wear plate	4 5	13	轴承体 Bearing body	HT200
		QT400-18	14	轴承盖 Bearing Cover	HT200
7	叶轮/Impeller	QT400-18	15	进水管闷盖 Inlet tube cap	HT200
		ZG0Cr18Ni 9	16	进水管 Inlet tube	HT200

性能曲线 Performance curve



性能参数 Performance data

型号 Model	转速 Rotate speed rpm	流量Q Capacity		扬程 H Head m	配套功率 Power		进出口直径 Inlet/outlet dia mm	通过颗粒直径 Dia of particle mm	最大吸程 Max suction head m
		m³/h	1/s		k W	H P			
SP- 2	1150	1.5	4.2	4.0	1.1	1.5	50 (2')	38	5.0
	1450*	2.0	5.6	6.5	1.5	2			6.5
	1750	2.5	6.9	9.5	3	4			6.5
	2050	2.8	7.8	13.5	4	5.5			6.5
	2350	3.2	8.9	18.0	7.5	10			6.5
	2650	3.5	9.7	23.0	7.5	10			6.5
	2900*	4.0	11.1	27.0	9.2	12.5			6.5

运行范围 Operating range

型号 Model	转速 Rotate speed rpm	Q (m³/h)	10	12.5	15	17.5	20	25	30	35	40	45
SP-2	1150	H (m)	5.1	4.7	4.0	3.8	3.5					
	1450*		8.4	8.1	7.6	7.3	6.5	5.8				
	1750		12.6	12.2	11.8	11.3	10.8	9.5	8.5			
	2050		17.9	17.2	16.7	16.1	15.5	14.5	13.2	11.6		
	2350			23.2	22.5	21.8	21.2	19.9	18.6	17.2	15.3	
	2650			30.1	29.2	28.4	27.6	26.2	24.8	23.0	21.6	19.4
	2900*				35.6	34.5	33.7	32.1	30.4	29.0	27.0	25.3

注：（SP-2、3、4、6、8、10泵同时适用）

（1）性能基于常温清水、最小吸上高度由海平面测得。因泵的安装各不一样，泵的性能可有因流速、比重、海拔、温度不同而有所不同。若输送介质大于1.2kg/dm3时，请与本公司联系。

（2）表中带*转速的参数，泵可直接和Y2系列B3型标准电动机通过联轴器直接联接，或柴油机直接联接。

（3）表中其它转速的参数，用户可通过以下几种方式可以达到：

- 采用变频电机直接传动，和普通标准电机配套变频器连接传动；
- 采用三角带轮变速方式联接传动；
- 采用柴油机联接传动。

Note: (Suitable for SP-2、3、4、6、8、10)

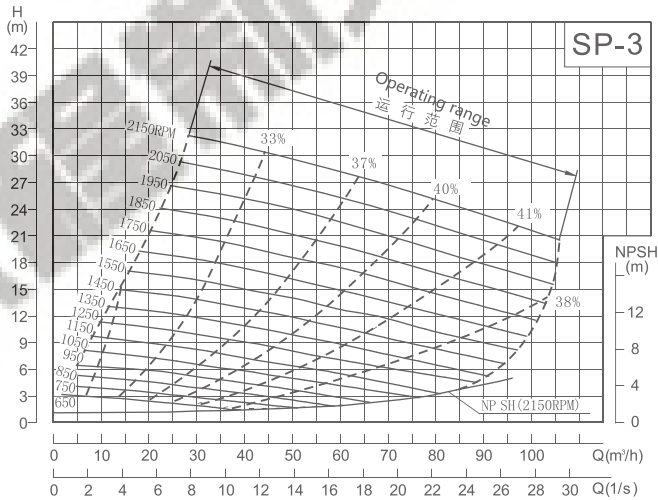
1). Performance is based on the clean water in normal temperature and the minimum suction height is measured by the sea level. The installation of pump is different and its performance varies form velocity, density, elevation and also the temperature. If the medium'density is greater than 1.2 kg/dm3, please contact the supplier.

2). In the table if the parameter is with * speed, the pump can be directly connected with Y2 series B3 type standard motor through the coupling, or connect the diesel enginee directly.

3). In the table, other speed parameters can be reached by the following several ways:

- Driving directly by multifrequency motor
- Driving by standard motor wich equipped with suitable transducer.
- Driving by triangle belt with wheel in variable speeds
- Driving by diesel engine

性能曲线 Performance curve



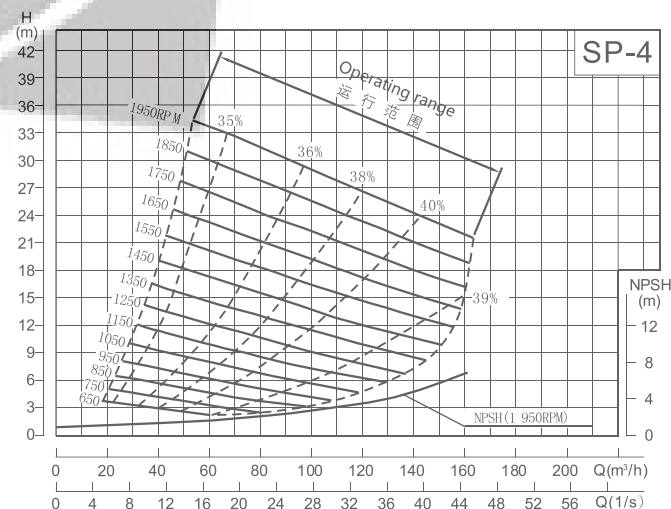
性能参数 Performance data

型号 Model	转速 Rotate speed rpm	流量Q Capacity		扬程 H Head m	配套功率 Power		进出口直径 Inlet/outlet dia mm	通过颗粒直径 Dia of particle mm	最大吸程 Max suction head m
		m³/h	1/s		k W	H P			
SP-3	650	25	6.9	2	0.75	1	80 (3')	63	1.5
	750*	30	8.3	3	1.5	2			1.8
	850	32.5	9.0	4	1.5	2			2.4
	950*	40	11.1	4.5	1.5	2			3.0
	1050	42.5	11.8	5.5	3	4			4.0
	1150	45	12.5	7	4	5.5			4.9
	1250	50	13.9	8	4	5.5			5.5
	1350	52.5	14.6	10	5.5	7.5			5.8
	1450*	55	15.3	11.5	5.5	7.5			6.4
	1550	60	16.7	12.5	7.5	10			6.4
	1650	65	18.1	14.5	11	15			6.7
	1750	70	19.4	16	11	15			6.7
	1850	72.5	20.1	18	15	20			7.6
	1950	75	20.8	20	15	20			7.6
	2050	80	22.2	22.5	18.5	25			7.6
	2150	85	23.6	24.5	18.5	25			7.6

运行范围 Operating range

型号 Model	转速 Rotate speed rpm	Q (m³/h)	10	20	30	40	50	60	70	80	90	100
SP-3	650	H (m)	2.9	2.5	2.0							
	750*		3.9	3.5	3.0	2.3						
	850		5.2	4.7	3.9	3.4						
	950*		6.4	6.0	5.2	4.5	3.8					
	1050		7.9	7.4	6.7	5.9	5.0	4.3				
	1150		9.7	9.0	8.3	7.4	6.5	5.6				
	1250		11.3	10.7	10.0	9.1	8.0	7.1	6.2			
	1350			12.6	11.9	11.0	10.0	9.0	7.7			
	1450*			14.7	14.0	12.9	12.0	10.8	9.6	8.3		
	1550			16.8	16.1	15.1	14.0	12.5	11.7	10.4	9.1	
	1650			19.3	18.5	17.4	16.2	15.0	13.6	12.3	11.1	
	1750				20.9	19.7	18.7	17.5	16.0	14.5	13.2	11.8
	1850				23.5	22.5	21.2	20.0	18.4	16.9	15.3	14.0
	1950				26.2	25.3	24.1	22.7	21.0	19.6	17.9	16.4
	2050				29.0	28.0	26.8	25.3	24.0	22.5	20.5	18.9
	2150				32.1	31.0	29.7	28.2	26.8	25.1	23.4	21.7

性能曲线 Performance curve



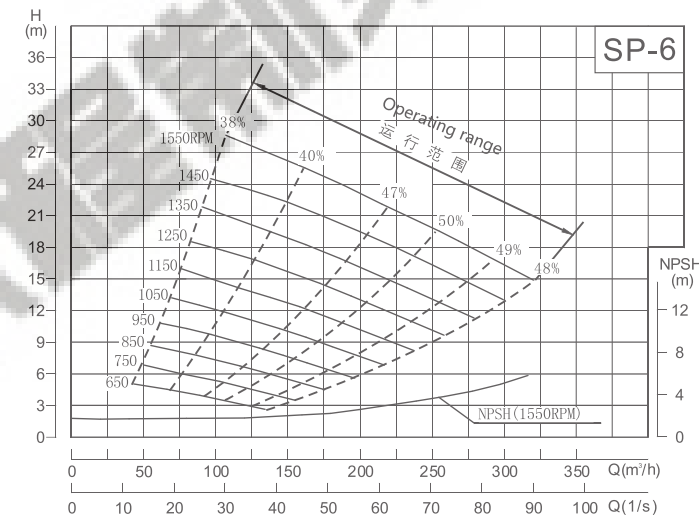
性能参数 Performance data

型号 Model	转速 Rotate speed rpm	流量Q Capacity		扬程 H Head m	配套功率 Power		进出口直径 Inlet/outlet dia m m	通过颗粒直径 Dia of particle m m	最大吸程 Max suction head m
		m³/h	1/s		k W	H P			
SP-4	650	40	11.1	3	1.5	2	100 (4')	76	1.5
	750*	45	12.5	4	1.5	2			2.4
	850	53	14.7	5	2.2	3			4.9
	950*	60	16.7	6	3	4			5.8
	1050	65	18.1	7.5	5.5	7.5			6.7
	1150	72	20	9	5.5	7.5			7.3
	1250	80	22.2	10.5	7.5	10			7.6
	1350	85	23.6	12.5	11	15			7.6
	1450*	100	27.8	13.5	11	15			7.6
	1550	110	30.6	15.5	15	20			7.6
	1650	115	31.9	18	18.5	25			7.6
	1750	120	33.3	20	22	30			7.6
	1850	130	36.1	22.5	30	40			7.6
	1950	135	37.5	25	30	40			7.6

运行范围 Operating range

型号 Model	转速 Rotate speed rpm	Q (m³/h)	20	32	48	64	80	96	112	128	144	160
SP-4	650	H (m)	3.8	3.3	2.6							
	750*			4.5	3.7	3.0						
	850			6.0	5.3	4.5	3.5					
	950*			7.5	6.5	5.7	5.0					
	1050			9.7	8.7	7.8	6.8	5.9				
	1150			11.9	10.8	9.9	8.8	7.6				
	1250			14.2	13.2	12.0	10.8	9.5	8.4			
	1350			16.7	15.7	14.3	13.1	11.8	10.5			
	1450*				18.0	16.5	15.5	14.0	12.5	11.5		
	1550				20.9	19.8	18.3	16.9	15.4	13.8	12.6	
	1650				24.3	22.9	21.1	19.8	18.1	16.3	15.0	
	1750				27.6	26.2	24.4	22.9	21.3	19.3	17.5	16.2
	1850				31.0	29.8	27.7	26.1	24.4	22.5	20.5	18.7
	1950				34.5	33.4	31.5	29.4	27.7	25.7	23.5	21.7

性能曲线 Performance curve



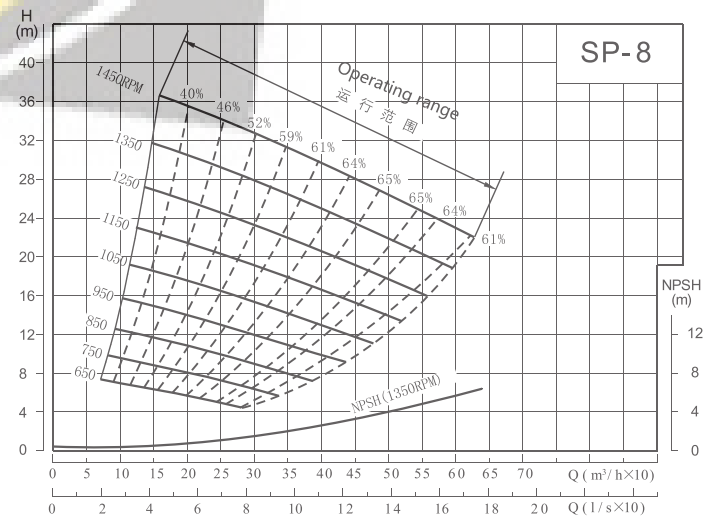
性能参数 Performance data

型号 Model	转速 Rotate speed rpm	流量Q Capacity		扬程 H Head m	配套功率 Power		进出口直径 Inlet/outlet dia m m	通过颗粒直径 Dia of particle m m	最大吸程 Max suction head m
		m³/h	1/s		k W	H P			
SP-6	650	100	27.8	3.5	3	4	150 (6')	76	2.4
	750*	125	34.7	4.5	4	5.5			2.7
	850	150	41.7	5.5	7.5	10			3.6
	950*	160	44.4	7.5	7.5	10			4.2
	1050	180	50.0	9.0	11	15			5.5
	1150	200	55.6	10	15	20			6.4
	1250	220	61.1	12.5	22	30			6.4
	1350	230	63.9	15	30	40			6.7
	1450*	250	69.4	17	30	40			7.0
	1550	280	77.8	18	37	50			7.6

运行范围 Operating range

型号 Model	转速 Rotate speed rpm	Q (m³/h)	50	80	120	150	180	210	240	270	300
SP-6	650	H (m)	5.0	4.2	3.1						
	750*			6.0	4.7	3.6					
	850			8.0	7.0	5.5					
	950*			11.0	9.5	7.5	6.8				
	1050			13.0	11.0	10.0	9.0	7.5			
	1150			16.0	14.0	12.8	11.2	10.0	8.0		
	1250				17.0	15.5	14.0	12.7	10.5		
	1350				20.5	19.0	17.5	15.5	14.0	12.0	
	1450*				24.0	22.0	21.0	19.0	17.0	15.0	13.0
	1550				28.0	26.0	24.5	22.7	20.5	18.5	16.5

性能曲线 Performance curve



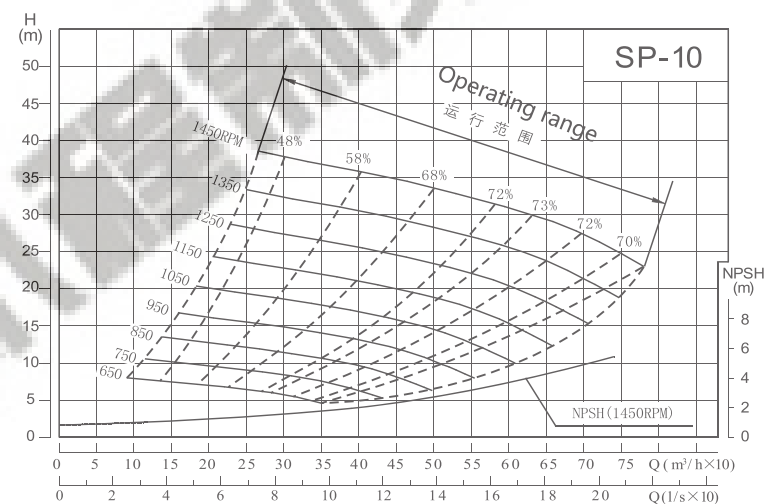
性能参数 Performance data

型号 Model	转速 Rotate speed rpm	流量Q Capacity		扬程 H Head m	配套功率 Power		进出口直径 Inlet/outlet dia mm	通过颗粒直径 Dia of particle mm	最大吸程 Max suction head m
		m³/h	l/s		k W	H P			
SP-8	650	200	55.6	6	7.5	10	200 (8")	76	2.7
	750*	230	63.9	8	11	15			3.7
	850	260	72.2	10	15	20			4.6
	950*	300	83.3	12	22	30			5.2
	1050	320	88.9	15	30	41			6.1
	1150	350	97.2	18	37	50			6.4
	1250	400	111.1	20	55	75			6.7
	1350	450	125.0	23	75	102			7
	1450*	500	138.9	26	75	102			7

运行范围 Operating range

型号 Model	转速 Rotate speed rpm	Q (m³/h)	100	150	200	250	300	350	400	450	500	580
SP-8	650	H (m)	7.0	6.5	6.0	5.0						
	750*			8.8	8.5	7.5	6.5					
	850			11.5	11.0	10.0	9.0	8.0				
	950*			15.0	14.0	13	12.0	11.0				
	1050			18.5	17.5	16.5	15.5	14.0	13.0			
	1150				21.5	20.3	19.0	18.0	16.5	15.5		
	1250				25.5	24.5	23.0	22.0	20.0	19.0	18.0	
	1350				30.5	29.0	27.8	26.0	25.0	23.0	22.0	
	1450*				35.5	34.0	32.0	31.0	30.0	28.0	26.0	23.0

性能曲线 Performance curve



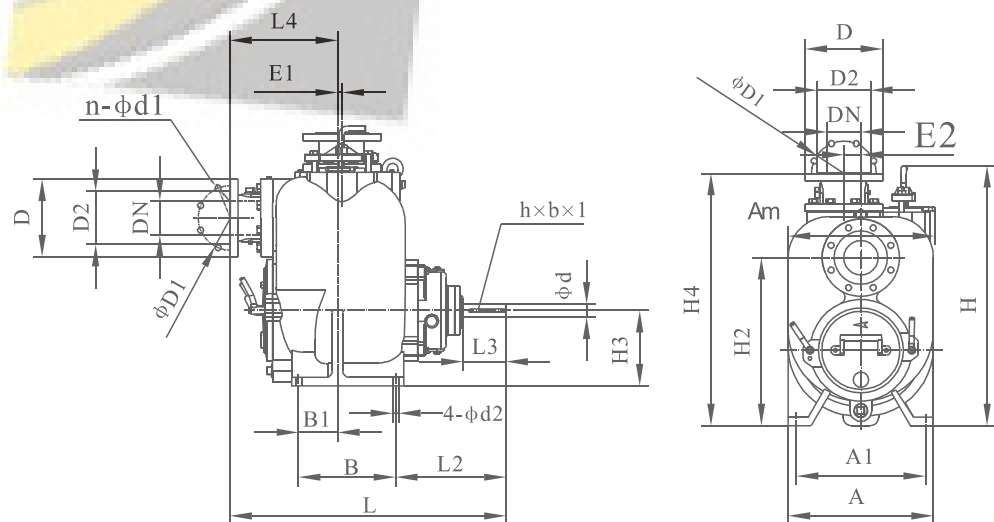
性能参数 Performance data

型号 Model	转速 Rotate speed rpm	流量Q Capacity		扬程 H Head m	配套功率 Power		进出口直径 Inlet/outlet dia mm	通过颗粒直径 Dia of particle mm	最大吸程 Max suction head m
		m³/h	l/s		k W	H P			
SP-10	650	250	69	6.5	11	15	250 (10")	76	2.1
	750*	300	83	8.5	15	20			3.4
	850	350	97	11	22	30			4.3
	950*	400	111	13	30	41			5.2
	1050	450	125	16	45	61			5.5
	1150	500	139	19	55	75			5.5
	1250	525	146	23	75	102			5.8
	1350	550	153	27	90	122			6.7
	1450*	600	167	31	90	122			6.7

运行范围 Operating range

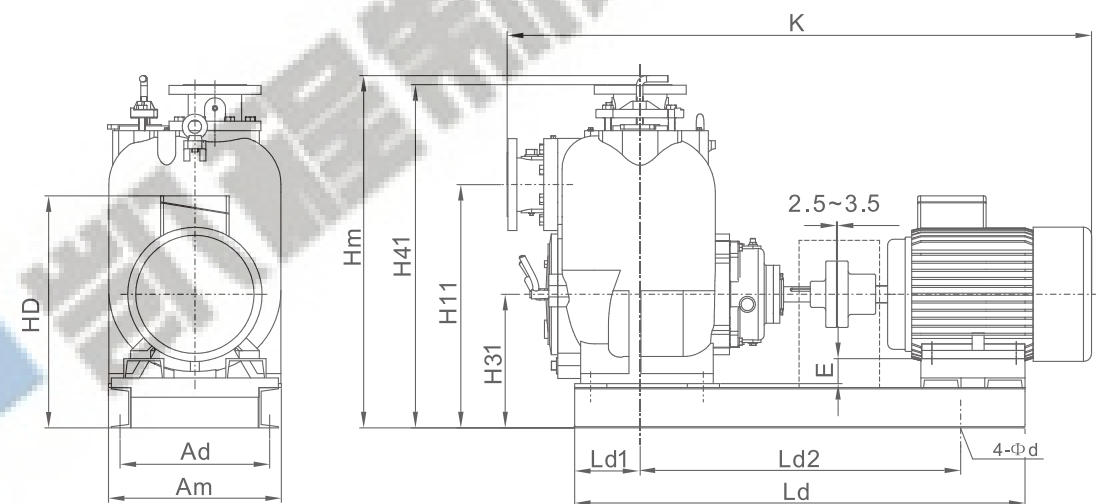
型号 Model	转速 Rotate speed rpm	Q (m³/h)	200	300	400	450	500	550	600	650	700	750
SP-10	650	H (m)	7.0	6.5								
	750*		10.0	8.5	6.0							
	850		13.0	11.5	10.0	8.0						
	950*		16.0	15.0	13.0	12.0	10.0					
	1050		20.0	19.0	17.0	16.0	14.5	12.5				
	1150			23.0	21.0	20.0	19.0	17.5	15.0			
	1250			27.5	25.5	24.5	23.5	22.0	20.5	18.0		
	1350			32.5	30.5	29.5	28.0	27.0	25.5	23.5	21.5	
	1450*			38.0	36.0	35.0	33.5	32.0	31.0	29.5	27.5	24.5

泵外形、安装尺寸 Pump dimensions and its intallation dimensions



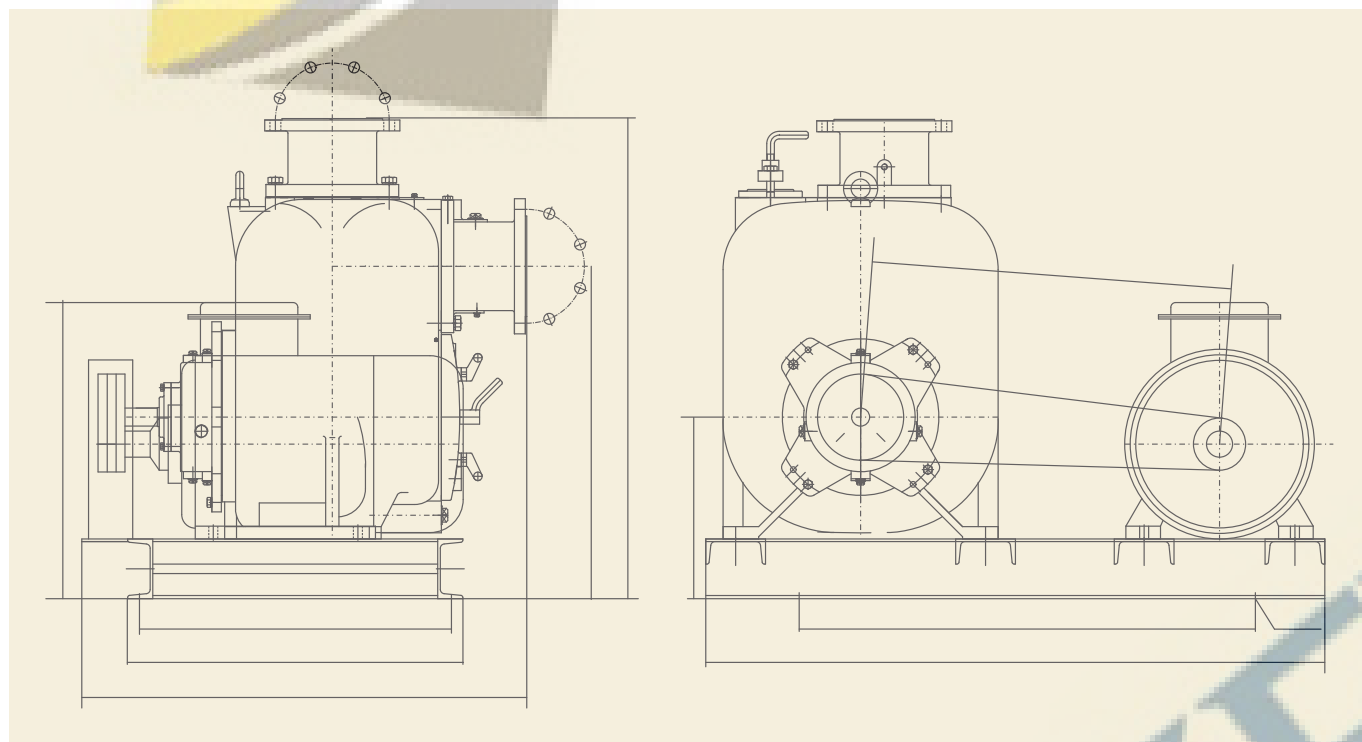
项目 Item		SP-2	SP-3	SP-4	SP-6	SP-8	SP-10
法兰连接尺寸 Size of flange (mm)	PN	PN 0.6MPa		PN 1.0MPa			PN 1.6MPa
	DN	50	80	100	150	200	250
	D	140	190	220	285	340	405
	D1	110	150	180	240	295	355
	D2	90	128	158	214	266	320
泵安装尺寸 Pump installation dimensions (mm)	n-d1	4-φ14	4-φ19	8-φ19	8-φ23	8-φ23	12-φ26
	H2	318	431.8	495.3	574.3	723.8	639.8
	A	308	377	428	580.0	716.0	705.0
	A1	281	328	373	527.0	635.0	635.0
	B	163.2	228.6	279.4	279.4	304.8	304.80
	B1	54	76.2	110	77.8	101.6	101.6
	L2	274.8	285	326	294.0	407.1	320.6
	d2	φ14	φ18	φ18	φ18	φ24	φ24
	H3	151.5	190.5	222.2	257.2	330.2	355.6
	L3	104	102	127	127.0	170.0	123
外形尺寸 Pump dimensions (mm)	d	φ38	φ38	φ38	φ38	φ48	φ48
	h×b×1	10×5×95	10×5×80	10×5×90	10×5×90	14×5×127	14×5.5×120
	H	552	697.5	760	875	989.0	1017
	Am	321	389	429	580.0	716.0	786.0
	H4	502	652	735	887.7	1069.3	1047.8
	L	615	712.2	813.5	906.6	1023.0	1244.7
	L4	233	277	318	411	412.8	720.9
Wt.(kg)		99	190	275	438	655	705

直联传动泵组外形、安装尺寸 Installation dimensions for direct connect type pump

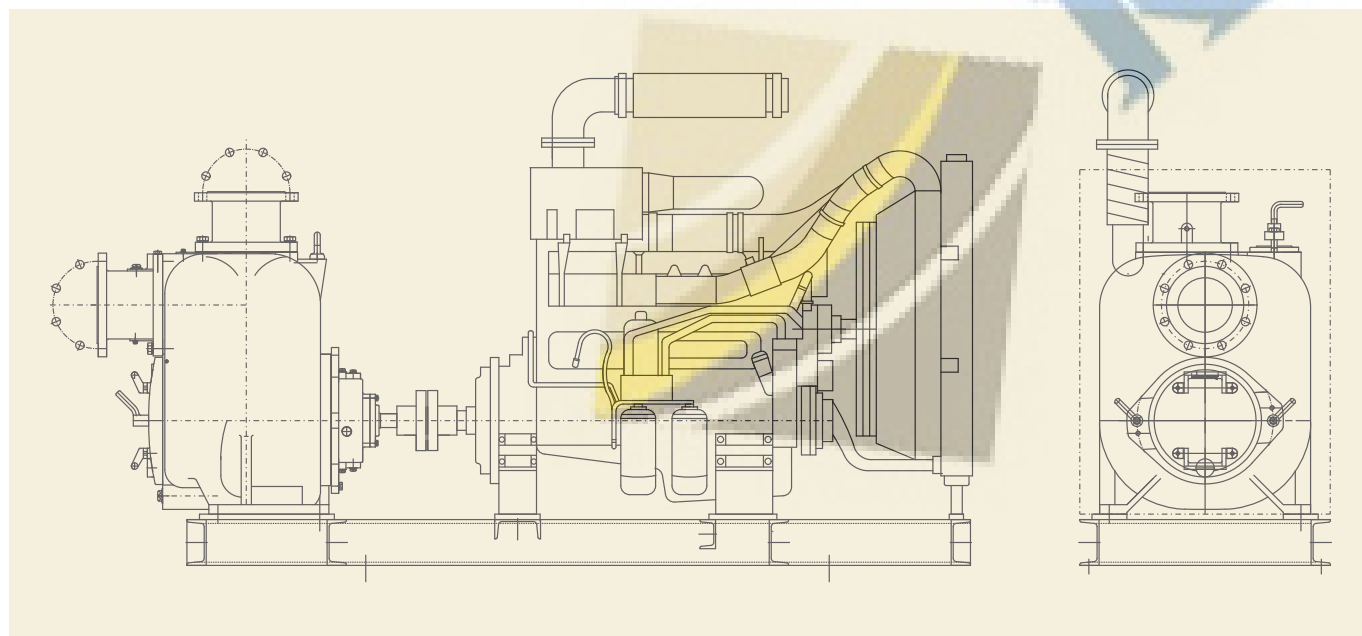


型号 Model	转速 Rate speed	配套电机 Motor		安装尺寸 Installation dimension							外形尺寸 Pump dimension					
	rpm	KW	型号 Model	Ad	Ld1	Ld2	d	H11	H31	H41	K	Am	Hm	HD	E	Ld
SP-2	1450	1.5	Y2-90L-4	300	77.5	617	20	428	261.5	612	986	341	662	416.5	61.5	772
	2900	9.2	Y2-132S-2	300	77.5	695	20	428	261.5	612	1110	341	662	471.5	19.5	850
SP-3	750	1.5	Y2-112M-8	330	120	621	20	541.8	300.5	762.2	1134	370	800	490.5	78.5	861
	950	1.5	Y2-100L-6	330	120	614	20	541.8	300.5	762.2	1119	370	800	480.5	90.5	854
	1450	5.5	Y2-132S1-4	330	120	660	20	541.8	300.5	762.2	1204	370	800	510.5	58.5	900
SP-4	750	1.5	Y2-112M-8	370	150	663	20	605.3	332.2	843.6	1236	430	887.3	522.2	110.2	963
	950	3	Y2-132S-6	370	150	702	20	605.3	332.2	843.6	1306	430	887.3	542.2	90.2	1002
	1450	11	Y2-160M-4	370	150	821	20	605.3	332.2	843.6	1451	430	887.3	587.2	62.2	1121
SP-6	750	4	Y2-160M1-8	510	150	784	20	710.3	393.2	1023.7	1544	590	1024	648.2	97.2	1084
	950	7.5	Y2-160M-6	510	150	784	20	710.3	393.2	1023.7	1544	590	1024	648.2	97.2	1084
	1450	30	Y2-200L-4	510	150	905	20	710.3	393.2	1023.7	1705	590	1024	698.2	57.2	1205
SP-8	750	11	Y2-180L-8	640	150	1050	24	904	510.2	1250	1767	716	1250	790	150.2	1350
	950	22	Y2-200L2-6	640	150	1085	24	904	510.2	1250	1769	716	1250	815	130.2	1385
	1450	75	Y2-280S-4	640	150	1264	24	904	510.2	1250	2012	716	1250	1020	50.2	1564
SP-10	750	15	Y2-200L-8	640	150	1050	24	820	535.6	1227.8	2020	786	1228	880.6	155.6	1350
	950	30	Y2-225M-6	640	150	1050	24	820	535.6	1227.8	2095	786	1228	865.6	130.6	1350
	1450	90	Y2-280M-4	640	150	1240	24	820	535.6	1227.8	2285	786	1228	935.6	75.6	1540

配三角皮带轮安装图 Installation Drawing for Pump with V-belt Pulleys



配柴油机安装图 Installation Drawing for Pump with Diesel Engine



配三角皮带轮或柴油机直联，客户如需求型号配置及详细安装尺寸请联系本公司。

The pump can be direct connected with V-belt pulleys or diesel engine and if the detailed technical datasheets and installation drawing are required, plz contact with our company



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