



HD SERIES DRUM PUMP HD系列抽液泵

产品手册

Product Catalog



产品概述 Product Overview

HD系列插桶抽液泵简称(油桶泵、插桶泵),是我公司引进欧美技术开发的一种新型产品,具有技术先进,性能稳定,操作方便,质量可靠、性价比高等诸多优点。为了保证产品的品质,我们产品的关键部件均采用原装进口零件;深沟球轴承、氟橡胶骨架油封,轴套分别采用瑞士、德国、台湾的产品,生产的每个主要部件均采用公司注册商标的印记log。以确保产品的纯正及质量的可靠性,有效保护我们产品的可靠性和耐用性。公司拥有完善的成套测试平台,对所有产品都进行性能测试,只有通过了性能测试的泵和电机才能出厂,产品100%进行测试,可以满足您对高品质产品的要求,是目前国内可以替代进口桶泵产品的理想选择。电机采用国内技术领先的无级可调速电机,具有噪声低,冲击小的优点,并配有过热保护装置,防止电机因过载而烧毁电机,从而保证了泵机的高可靠性和耐用性。泵体与电机采用螺纹式法兰安装盘,拆装的时候无须任何工具,这样维护和保养非常方便。

HD-EX2-V(SB-3)防爆型产品适用于隔爆能力达IIB级,引燃温度不低于T4组的易燃易爆作业场所,具有安全可靠、结构合理、工艺先进、高效、维修方便等特点。本产品符合国际GB3836.1-83《爆炸性环境用防爆电气设备通用要求》和GB3836.2-83《爆炸性环境用防爆电气设备隔爆型电气设备"d"》和GB3836.1-83《手持式电动工具的安全》的规定。经国家防爆电气产品质量监督检验中心严格检测,获得合格通过并颁发防爆检验合格证。证书编号:CNEX18.3831X敬请点击权威机构国家防爆网www.china-ex.comW询验证。

上列产品经防爆检验站3836.2-83《防爆型环境用防爆电气设备隔爆型电气设备"d"》标准进行了严格检测,结果符合工厂用隔爆型(dII-BT4)设备的规定。

HD series drum pump (oil drum pump, barrel pump) is a new type of product developed by our company by introducing European and American technology. It has many advantages such as advanced technology, stable performance, convenient operation, reliable quality and high cost performance. In order to ensure the quality of our products, the key parts of our products are imported parts; Deep groove ball bearing, fluorine rubber skeleton oil seal, shaft sleeve respectively using Switzerland, Germany, Taiwan products. Each major component adopts the company registered trademark logo. In order to ensure the purity of products and the reliability of quality, effectively protect the reliability and durability of our products, the company has a complete set of perfect testing platform, all products are tested performance. Only through the performance test of the pump and motor can leave the factory, the product is 100% tested, can meet your requirements for high-quality products, is currently the ideal choice to replace imported drum pump products. The motor adopts domestic technology leading stepless variable speed control motor, has the advantages of low noise, small impact, and equipped with overheating protection device to prevent the motor from burning because of overload, so as to ensure the high reliability and durability of the pump. Pump body and motor adopt threaded flange mounting plate, can be installed and disassembled without any tools, so maintenance is very convenient.

HD-EX2-V(SB-3) explosion-proof products are suitable for flammable and explosive workplaces where the explosion-proof ability is up to IIB, ignition temperature is not lower than T4 group, with safe and reliable, reasonable structure, advanced technology, high efficiency and convenient maintenance and other characteristics. This product conforms to the international GB3836.1-83 "Electrical apparatus for explosive atmospheres General requirements" and GB3836.2-83 "Electrical apparatus for explosive atmospheres Flameproof electrical apparatus "d" and GB3836.1-83 "Safety of hand-held motor-operated electric tools". After the national explosion-proof electrical products quality supervision and inspection center of strict testing, was qualified and issued explosion-proof inspection certificate. Certificate number: CNEX18.3831X. Please click on the national explosion protection network www.china-ex.com for consultation and verification.

The above products have been tested strictly by explosion-proof inspection station 3836.2-83 "Electrical apparatus for explosive atmospheres Flameproof electrical apparatus "d", and the results are in accordance with the provisions of factory flameproof type (dII-BT4) equipment.

HD系列抽液泵 | HD Series Drum Pump

■ 安全性Safety

无泄漏：泵管无泄漏设计，更适合腐蚀性，易燃易爆的液体输送。

Leak-tightness: The pump pipe adopts non-leakage design, which is more suitable for the transportation of corrosive, flammable and explosive liquids.

过载保护：调速电机配有过载保护装置。

Overload protection: The variable speed control motor is equipped with overload protection device.

■ 经济实用性Economical practicability

轻便：泵管和马达总重量在4-10KG，易于携带，移动。

Handiness: The total weight of the pump pipe and motor is 4-10kg, which is easy to carry and move.

快捷：2-3分钟可以清空一个200L标准桶。

Speedy: It takes 2-3 minutes to empty a 200L standard drum.

无轴封：无泄漏结构，不需要使用机械密封，降低维护、维修成本。

No shaft seal: Leak-free structure eliminates the need for mechanical seals, reducing maintenance costs.

■ 通用性Universality

多种材质：聚丙烯，PVDF，PTEE，不锈钢，铝合金材质，适用于绝大部分低粘度液体的输送，可以满足80%以上的应用。现有HD-AL，HD-SS304，HD-SS316L，HD-PPHT，HD-PVDF，HD-PTFE等型号。

A variety of materials: Polypropylene, PVDF, PTEE, stainless steel, aluminum alloy materials, suitable for transportation of most low viscosity liquid, can meet 80% of the application. Existing HD-AL, HD-SS304, HD-SS316L, HD-PPHT, HD-PVDF, HD-PTFE and other models.

多种驱动方式：电动或气动驱动，满足不同动力源。

A variety of driving modes: Electric or pneumatic drive, meet different power sources.

■ 易用性Usability

人性化设计：符合人体工学的外形设计，更易操作者使用。

Humanization design: Ergonomic shape design, easy to operate.

适用性强：可以输送普通介质到各类强酸强碱，及易燃易爆液体。

Good applicability: Can transport ordinary media to all kinds of strong acid and alkali, and flammable and explosive liquids.

接口方便：标准G1"螺纹出口，适合连接各类接头。

Interface is convenient: Standard G1" threaded outlet, suitable for connecting all kinds of joints.

改进型联轴器：安装无需对中，连接只需数秒钟。

Improved coupling: Installation requires no alignment and connection takes seconds.

快速接口：马达与泵管采用快速接口，拆装自如。

Quick interface: Motor and pump pipe adopt quick interface, easy to disassemble and assemble.

整体快拆式结构：拆卸和装配无需辅助工具。

Integral quick disassembly structure: Disassembly and assembly without auxiliary tools.

配件丰富：齐全的配件，满足不同的需求。

Spare parts are rich: A complete range of spare parts to meet different needs.

■ 可靠性Reliability

100%通过测试：每台泵出厂前都通过严格的性能测试。

100% pass the test: Each pump passes the strict performance test before manufacturing.

可以干运转：自润滑轴承可以短时间干转而不损坏泵管。

Dry running: Self-lubricating bearing can run dry for a short time without damaging the pump pipe.

模块化结构：零部件高度集成，便于拆卸和维修。

Modular construction: Highly integrated spare parts for easy disassembly and maintenance.

■ 高效性High efficiency

高性能叶轮：高性能双吸叶轮兼顾大流量，高扬程。

High performance impeller: High performance double suction impeller with large flow and high head.

结构简单：易拆洗，10分钟内完成拆卸和装配。

Simple structure: Easy to disassemble and wash, disassemble and assemble within 10 minutes.

■ 环保性Environmental conservation

无泄漏：不会污染环境。

No leakage: No environmental pollution.

HD Series Drum Pump | HD系列抽液泵

电机型号字母意义 MOTOR MODEL SIGNIFICANCE

HD	-	E	2-V
品名 Name	型号 Model		电压 Voltage
高效桶泵 High-performance Drum Pump	E 无极调速电机 (Stepless variable speed control motor) EX(SB-3) 固定高速防爆电机 (Fixed high speed explosion-proof motor) A1 气动马达 (Air motor) SB-550W 固定高速电机 (Fixed high speed motor) SB-880W 固定高速电机 (Fixed high speed motor) SB-1100W 固定高速电机 (Fixed high speed motor)		220V 220V 1=1/2HP 375W 220V 220V 220V

HD调速电机及气动马达 HD VARIABLE SPEED CONTROL MOTOR AND AIR MOTOR

型号 Model	电压 Voltage	转速 Speed	频率 Frequency	功率 Power
HD-E2-V	1Φ220V	0~10000	50-60Hz	800W
HD-EX2-V(SB-3)	1Φ220V	12000	50-60Hz	880W
HD-A1		0~10000	3-7bar	375W
SB-550W	1Φ220V	8000	50-60Hz	550W
SB-880W	1Φ220V	10000	50-60Hz	880W
SB-1100W	1Φ220V	10000	50-60Hz	1100W

泵型号字母意义 PUMP MODEL SIGNIFICANCE

实例 Example:HD-SS304-1000(high volume/material:SS304)

HD-PPHT-1000-HP(high pressure/material:PPHT)

HD	-	SS	1000	HP
品名 Name	材质 Material	长度 Length	型号 Model	
高效桶泵 High-performance Drum Pump	304不锈钢 SS304 二氟 PVDF 塑料 PPHT 316L不锈钢 SS316L 铝合金 AL 铁氟龙 PTEE	700:700mm(27") 1000:1000mm(39") 1200:1200mm(47") 1500:1500mm(60") 1800:1800mm(72")	HP: 高扬程 High Pressure HV: 大流量 (不标) High Volume (not marked) HV: 高粘度 High Viscosity 3A:3A 卫生级 3A Sanitary Standard	

如有疑问请联系最近经销商

Any questions, please contact your nearest distributor

HD系列抽液泵 | HD Series Drum Pump

优点及特性说明 FEATURES



标准的设计

Standard Design

可快速、容易连接交换所有马达和抽液泵
Quick and easy connection and exchange of all motors and drum pumps

安全性联轴器

Safety Coupling

有效防止主轴卡死，造成马达损坏

Effectively prevent motor damage caused by shaft stuck

三通泵头轴承座

Tee pump head bearing seat

PPHT/PVDF/SUS316L/304/PTFE/AL

高性能轴承组

High performance bearing set

可降低马达输送动力对耗损提升泵浦性能
Can reduce the motor transmission power loss, improve the performance of the pump

不锈钢材质防酸氯腐蚀耐高温

Stainless steel material can resist acid chlorine corrosion and withstand high temperature

生产商注册商标LOGO设计确保产品纯正。

Manufacturer registered trademark LOGO design to ensure product purity

安全性插管式出液口

Safety bayonet-tube outlet

锯齿状束节设计不易滑落

可安全及有效的移动（拔出）外接管

Serrated bundle design, not easy to slide
Can move (unplug) external pipes safely and efficiently

主轴

Main Shaft

AL、SS系列 (series) : SUS316L

PPHT、PVDF、PTFE系列 (series) : Hastelloy

套管TEF

TEF Bushing

被固定于内管内，可确保稳定性及可适当调整

Fixed in inner pipe to ensure stability and can be adjusted appropriately

快拆式螺牙设计（管轴套座）

Quick disassembly thread design (pipe shaft sleeve seat)

不需任何工具即可轻松维修保养可快速更换

叶片泵浦外壳、精确调整更换零件。

Easy maintenance without any tools, quick replacement of vane and pump housing, accurate adjustment and replacement of spare parts

叶轮

KYANR Impeller

PVDF, PPHT, SS304, SS316

有效提升泵浦输送量

坚固结构增加耐磨性

Effectively improve pump conveying capacity, firm structure, increase wear resistance

轴套

Shaft Sleeve

耐酸碱特氟龙材质

Acid and alkali resistant teflon material



各种叶片式抽液泵皆采用无轴封设计，可耐空转30分钟以上。

All kinds of vane drum pump are designed without shaft seal, can withstand idling for more than 30 minutes

HD Series Drum Pump | HD系列抽液泵

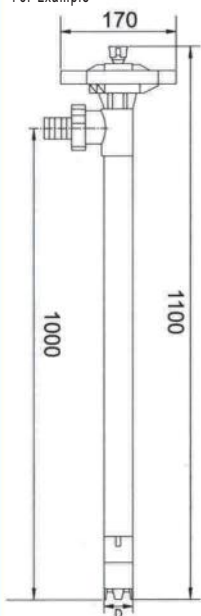
HD-E2-V	HD-A1	HD-EX2-V	SB-1100W	SB-880W	SB-550W

可快速、容易连接
交换所有马达和抽液泵
Quick and easy connection and exchange
of all motors and drum pumps



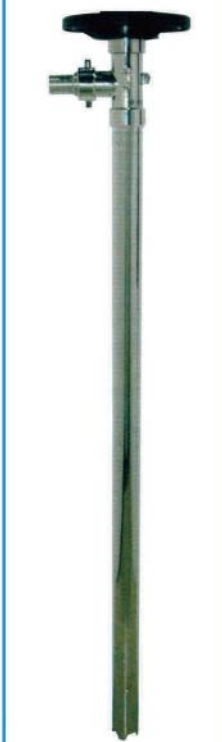
互换
Exchange

例: HD-PPHT-1000
For Example



SS D=42
PPHT D=42
PVDF D=41
PTFE D=50
AL D=41

单位: mm
Units



不锈钢材质
SS304/SS316 Material



塑料材质
PPHT Material



二氟材质
PVDF Material



铁氟龙材质
PTFE Material



铝合金材质
AL Material

HD系列抽液泵 | HD Series Drum Pump

抽液泵材质应用范围 MATERIAL APPLICATION SCOPE OF DRUM PUMP

泵浦材质 Pump material	最高耐温 Max.Temp.	应用范围 Application scope	
PPHT (玻纤增强 聚丙烯) (Fiberglass reinforced PP)	80°C/175°F	酸性和碱性物质如：醋酸、铵、氯化铁、氟硅酸、氢氧化物、消毒剂、磷肥 (45%)、氨酸 (20%)、钠氢氧化物、硫磺酸 (75%)、漂白水及其它液体。 Acid and alkaline substances, like acetic acid, ammonium, iron chloride, fluosilicic acid, hydroxide, disinfectors, phosphoric acid (45%), nitric acid (20%), sodium hydroxide, sulfuric acid (75%), bleaching water and other liquids.	• Acetic Acid • Sulfuric Acid • Hydrochloric-20% • Nitric Acid-20% • Alkalies • Ferric Chloride
PVDF	100°C/212°F	高腐蚀性毒性物质如：氢氟酸 (浓度COLD)、氨酸 (浓缩)、丙酸、硬脂酸、硫磺酸及其它溶液。 Highly corrosive and toxic substances, like hydrofluoric acid (concentration COLD), propylhomoserin (concentrated), propanoic acid, stearic acid, sulfuric acid and other solutions.	• Concentrated Nitric Acid • Sulfuric Acid-66 Baume • Sodium Hypochlorite • Propionic Acid • Stearic Acid • Hydrofluoric Acid
PTFE	110°C/230°F	任意浓度的硫酸、盐酸、磷酸、氢氟酸、氢氧化钠、氢氧化钾、铬酸、王水、甲酸、醋酸、丙酸、丁酸、硝酸、甲烷、乙烷及各种苯、醇、醚、丙酮、环己酮、酯类、氟乙烯。 Any concentration of sulphuric acid, hydrochloric acid, phosphoric acid, hydrofluoric acid, sodium hydroxide, potassium hydroxide, chromic acid, aqua regia, methanoic acid, acetic acid, propanoic acid, butyric acid, nitric acid, methane, ethane and different kinds of benzene, alcohol, ether, acetone, cyclohexanone, esters and vinyl fluoride.	• Sulfuric acid • Hydrochloric acid • Phosphoric acid • Hydrochloric acid • Sodium hydroxide • Chromic acid • Aqua regia • Methane • Benzene Alcohol • Acetone Ester
SS304	100°C/212°F	可燃性物质或易燃性物质柴油、汽油、各种油类、和缓剂(界面活性剂)、酒精。 Flammable or inflammable substances, diesel oil, gasoline, all kinds of oil, inhibiting agents (interfacial active agents) and alcohol.	• Alcohol Gasoline • Aqueous Ammonia • Isopropyl Ether • Solvents • Petroleum Products
SS316L	100°C/212°F	可燃性物质或易燃性物质柴油、汽油、各种油类、和缓剂(界面活性剂)、酒精。各种食品类、饮料类、医用类、高纯净度轻质流体。 Flammable or inflammable substances, diesel oil, gasoline, all kinds of oil, inhibiting agents (interfacial active agents) and alcohol. All kinds of food, beverage, medicine and high-purity light-duty fluids.	• Alcohol Gasoline • Aqueous Ammonia • Isopropyl Ether • Solvents • Petroleum Products
AL	100°C/212°F	低腐蚀性的污水、柴油、低粘度油、润滑油 Weakly corrosive sewage, diesel oil, low-viscosity oil and lubricating oil.	• Sewage • Diesel oil • Low viscosity oil • Lubricating oil



输送液体如为溶剂时，必须采用防爆电机或气动马达，同时接上接地线，以确保使用之安全。

If the liquid is solvent, explosion-proof motor or air motor must be used, and grounding wire must be connected to ensure the safety of use.

气动马达、电机系列 AIR MOTOR, ELECTRIC MOTOR SERIES



HD-E2-V可调速电动马达 HD-E2-V variable speed control motor

型号 Model	HD-E2-V可调速电动马达 HD-E2-V variable speed control motor
流量 Flow	最大(Max.) 165L/min HP型最大(HP type Max.) 100L/min
扬程 Head	最高(Highest) 10M HP型最高(HP type Highest) 30M
转速 Speed	0~10000(r/min)
功率 Power	800W
粘度 Viscosity	800CPS, HP型(HP type) 1000CPS
重量 Weight	3.55Kg



空转保护装置 Idling protection device
安全手动重换装置 Safe manual change device
注塑德国黄聚碳外壳马达可抗化学腐蚀
The motor housing is molded with German yellow poly carbon to resist chemical corrosion
220V调速电机-附10.5尺(3.5m) SJ电线插头
220V variable speed control motor - included with 3.5m SJ wire plug
防护等级 Protection grade: IP44

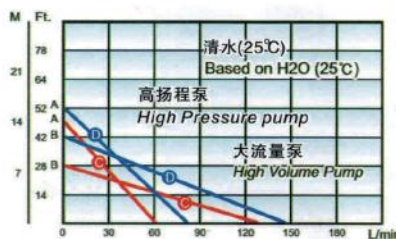
A线为HP高扬程封闭式叶轮, B线为大流量开放式叶轮
测试条件: 200L圆桶, HD-SS316L-1000泵管, 介质为25°C清水, 出口口为1 1/4(32mm), 测试允许误差±10%

Line A is HP high-pressure enclosed impeller, and line B is high-volume open impeller
Test conditions: 200L round drum, HD-SS316L-1000 pump pipe, medium is 25°C clean water, liquid outlet is 1-1/4 (32mm), test tolerance is ±10%



HD-A1防爆气动马达 HD-A1 Explosion-proof Air Motor

型号 Model	HD-A1
流量 Flow	最大(Max.) 150L/min(7bar) HP型最大(HP type Max.) 80L/min 最大(Max.) 120L/min(4bar) HP型最大(HP type Max.) 60L/min
扬程 Head	最高(Highest) 10M(7bar) HP型最高(HP type Highest) 16M 最高(Highest) 8M(4bar) HP型最高(HP type Highest) 13M
转速 Speed	0~10000(r/min)
功率 Power	375W
粘度 Viscosity	700CPS
重量 Weight	1.23Kg



最大入口压力 Max. inlet pressure: 102psi(7bar)
空气耗气量 Air consumption: 22CFM@92psi(10.38liter/sec@6.3bar)
空气接头 Air joint: 8mm
附件Accessory:消声器、气量调节阀 Muffler, air flow regulating valve
必须配备: 空气过滤器、压力调节器、自动注油壶(气动3联件)
Must be equipped with: Air filter, pressure regulator, automatic oiler (pneumatic FRL)
主体 Body:铸铁、铝合金 Cast iron, aluminum alloy

A(D)线为HP高扬程封闭式叶轮(7Bar)A(C)线为HP高扬程封闭式叶轮(4Bar), B(D)线为大流量开放式叶轮(7Bar), B(C)线为大流量开放式叶轮(4Bar)

测试条件:200L圆桶 HD-SS316L-1000泵管,介质为25°C清水, 出口口为1 1/4(32mm), 测试允许误差 ±10%

Line A(D) is HP high-pressure enclosed impeller(7Bar), line A(C) is HP high-pressure enclosed impeller(4Bar), line B(D) is high-volume open impeller(7Bar), line B(C) is high-volume open impeller(4Bar) Test conditions: 200L round drum, HD-SS316L-1000 pump pipe, medium is 25°C clean water, liquid outlet is 1-1/4 (32mm), test tolerance is ±10%

HD系列抽液泵 | HD Series Drum Pump

气动马达、电机系列 AIR MOTOR, ELECTRIC MOTOR SERIES



HD-EX2-V(SB-3)防爆电机 HD-EX2-V(SB-3) Explosion-proof Motor

型号 Model	HD-EX2-V(SB-3)
流量 Flow	最大(Max.) 198L/min HP型最大(HP type Max.) 120L/min
扬程 Head	最高(Highest) 12M HP型最高(HP type Highest) 30M
转速 Speed	12000(r/min)
功率 Power	880W
粘度 Viscosity	500CPS, HP型(HP type)800CPS
重量 Weight	4.4Kg



全封闭式铝合金外壳 Fully enclosed aluminum alloy housing
220V 防爆电机-附3米, 不含防爆插头
220V explosion-proof motor - included with 3m wire
(No explosion-proof plug included)

防护等级 Protection Grade: IP55
防爆合格证号 Explosion-proof Certificate Number: CN Ex11.0331
防爆等级 Explosion-proof Grade: d IIBT4

A线为HP高扬程封闭式叶轮, B线为大流量开式叶轮

测试条件: 200L圆桶, HD-SS316L-1000泵管, 介质为25°C清水, 出液口为1 1/4(32mm), 测试允许误差±10%

Line A is HP high-pressure enclosed impeller, and line B is high-volume open impeller

Test conditions: 200L round drum, HD-SS316L-1000 pump pipe, medium is 25°C clean water, liquid outlet is 1-1/4 (32mm), test tolerance is ±10%



SB-1100W固定高速电机 SB-1100W Fixed High Speed Motor

型号 Model	SB-1100W
流量 Flow	最大(Max.) 180L/min HP型最大(HP type Max.) 110L/min
扬程 Head	最高(Highest) 11M HP型最高(HP type Highest) 30M
转速 Speed	10000(r/min)
功率 Power	1100W
粘度 Viscosity	500CPS, HP型(HP type)800CPS
重量 Weight	3.38Kg



注塑工业蓝聚碳外壳马达可抗化学腐蚀
The motor housing is molded with industrial blue poly carbon to resist chemical corrosion

220V高速电机-附3米电线插头
220V high speed motor - included with 3m wire plug

防护等级 Protection Grade: IP20
绝缘等级 Insulation Grade: E

A线为HP高扬程封闭式叶轮, B线为大流量开式叶轮

测试条件: 200L圆桶, HD-SS316L-1000泵管, 介质为25°C清水, 出液口为1 1/4(32mm), 测试允许误差±10%

Line A is HP high-pressure enclosed impeller, and line B is high-volume open impeller

Test conditions: 200L round drum, HD-SS316L-1000 pump pipe, medium is 25°C clean water, liquid outlet is 1-1/4 (32mm), test tolerance is ±10%

HD Series Drum Pump | HD系列抽液泵

气动马达、电机系列 AIR MOTOR, ELECTRIC MOTOR SERIES



SB-880W固定高速电动 SB-880W Fixed High Speed Motor

型号 Model	SB-880W
流量 Flow	最大(Max.) 170L/min HP型最大(HP type Max.) 105L/min
扬程 Head	最高(Highest) 10M HP型最高(HP type Highest) 29M
转速 Speed	10000(r/min)
功率 Power	880W
粘度 Viscosity	500CPS, HP型(HP type)800CPS
重量 Weight	3.3Kg

注塑工业蓝聚碳外壳马达可抗化学腐蚀

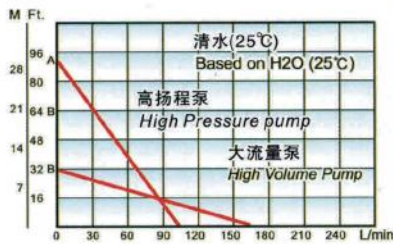
The motor housing is molded with industrial blue poly carbon to resist chemical corrosion

220V高速电机-附3米电线插头

220V high speed motor - included with 3m wire plug

防护等级 Protection Grade: IP20

绝缘等级 Insulation Grade: E



A线为HP高扬程封闭式叶轮, B线为大流量开式叶轮

测试条件: 200L圆桶, HD-SS316L-1000泵管, 介质为25°C清水, 出液口为1 1/4(32mm), 测试允许误差±10%

Line A is HP high-pressure enclosed impeller, and line B is high-volume open impeller

Test conditions: 200L round drum, HD-SS316L-1000 pump pipe, medium is 25°C clean water, liquid outlet is 1-1/4 (32mm), test tolerance is ±10%



SB-550W固定高速电机 SB-550W Fixed High Speed Motor

型号 Model	SB-550W
流量 Flow	最大(Max.) 120L/min HP型最大(HP type Max.) 70L/min
扬程 Head	最高(Highest) 8M HP型最高(HP type Highest) 22M
转速 Speed	8000(r/min)
功率 Power	550W
粘度 Viscosity	500CPS, HP型(HP type)800CPS
重量 Weight	2.3Kg

注塑工业蓝聚碳外壳马达可抗化学腐蚀

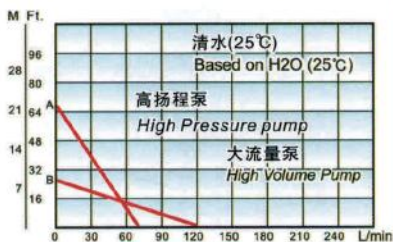
The motor housing is molded with industrial blue poly carbon to resist chemical corrosion

220V高速电机-附3米电线插头

220V high speed motor - included with 3m wire plug

防护等级 Protection Grade: IP20

绝缘等级 Insulation Grade: E



A线为HP高扬程封闭式叶轮, B线为大流量开式叶轮

测试条件: 200L圆桶, HD-SS316L-1000泵管, 介质为25°C清水, 出液口为1 1/4(32mm), 测试允许误差±10%

Line A is HP high-pressure enclosed impeller, and line B is high-volume open impeller

Test conditions: 200L round drum, HD-SS316L-1000 pump pipe, medium is 25°C clean water, liquid outlet is 1-1/4 (32mm), test tolerance is ±10%

HD系列抽液泵 | HD Series Drum Pump

订货前注意事项/到货检查 NOTES BEFORE ORDER/ARRIVAL CHECK



在操作抽液泵之前，操作人员应了解对于使用之液体相关化学特性与材质适用条件范围，并详读所有操作注意事项和安全标示。

Before operating the pump, the operator should understand the chemical properties of the liquid used and the applicable conditions of the material, and read all operating precautions and safety indications.

订购抽液泵应注意事项 Notice when ordering pump

一、抽液泵依不同材质有不同的条件及应用范围，订购抽液泵前应考虑以下因素：

1. 液体化学特性(PUMP泵体及主轴材质耐抗性)，2. 流量(L/min)，3. 扬程(m)
4. 温度(°C)，5. 粘度(cps)，6. 通过粒径(mm)，7. 比重(kg/)

二、确认使用电源、接管方式及相关作业环境。

三、出口可选择标准配备1" (25.4mm)或特殊规格3/4" (22mm)，1 1/4" (32mm)

I The pump according to different materials have different conditions and application range, the following factors should be considered before ordering pump:

1.Liquid chemical properties (Resistance of pump body and main shaft material) 2.Flow(L/min) 3.Head (M) 4.Temperature(°C)
5.Viscosity(cps) 6.Particle Size(mm) 7.Specific Gravity(kg/m)

II Confirm the power supply, connection mode and related operating environment.

III Standard 1" (25.4mm) or special specifications 3/4" (22mm), 1 1/4" (32mm) are available for outlet.

抽液泵尺寸应用范围 DIMENSION APPLICATION SCOPE OF DRUM PUMP

适用容器 Applicable containers	泵浦型号 Pump model	泵浦管长度 Pump pipe length
5加仑瓶 5 gallons bottle	HD-材质 material 700	700mm(27')
55加仑标准鼓圆桶(200L) 55 gallons standard drum(200L)	HD-材质 material 1000	1000mm(39')
桶罐、罐子槽体(200L) Drums and tanks(200L)	HD-材质 material 1200	1200mm(47')
国际标准吨桶 International standard ton drum	HD-材质 material 1500	1500mm(60')
大型容量 Big containers	HD-材质 material 1800	1800mm(72')

货到检查

- 一、请检查铭牌，确认是否为您所订购之抽液泵。
- 二、请检查电机(或气动马达)、泵管有无任何损坏及异常情况。
- 三、请检查电机及抽液泵所有螺丝、零件是否已锁紧、固定。

ARRIVAL CHECK

- I. Please check the nameplate to see if it is the pump you ordered.
- II. Please check whether the motor (or air motor) and pump pipe are damaged or abnormal.
- III. Please check whether all screws and spare parts of motor and pump are locked and fixed.

操作说明及注意事项 OPERATING INSTRUCTIONS AND NOTES

- 一、请先检查扶手轮及出口管路是否锁紧。
- 二、叶轮容许通颗粒3mm以下之软性物质，若超过此粒径请另行加装过滤网。
- 三、泵机勿存放在潮湿或酸气、热气及各种腐蚀性气体过重处。
- 四、电机、气动马达及抽液泵严禁碰撞损坏。
- 五、HD-A系列气动马达机型，运行中必须加装带自动添油型气动三联件（除水过滤、润滑、压力调整）。
注：润滑油采用IS VG32涡轮机油（俗称1#透平油）
- 六、请将抽液泵管及出口管路放至指定安全区域后再开启电（气）源。
- 七、使用电（气）源时，请由小到启动，以延长泵机运转时间及寿命，亦防止人员危险。
- 八、注意电压是否正确或供气压力和产气量是否正确或供气压力和产气量是否满足。
- 九、调速电机均有过载保护装置。（其它泵型建议在电源进线端加设过载保护器）
- 十、使用时，必须有专业人员现场操作，运行过程中人员切离开现场。
- 十一、一般桶装手提式抽液泵可抽取之粘度约为800cps；高扬程叶轮粘度可达1000cps，如需输送更高粘度液体，请选用高粘度螺旋式抽液泵或是其它适用抽液泵（例：FY气动浆料泵、RW气动隔膜泵、ZB转子泵、CG螺杆）。
- 十二、如发现泵机有异响时，请检查是否吸入异物与叶轮碰撞。
- 十三、输送液体如为溶剂时，需采用防爆型电机或气动马达，同时接上地线，以确保使用上安全。
- 十四、电机或气动马达与泵管安装时请确定，如安装不当，会造成电机马达联轴器与泵管联轴器损毁。
- 十五、电机或气动马达与泵管安装前，请先确认开关为关闭OFF状态。
- 十六、电机或气动马达请勿浸入液体中或泼到液体。
- 十七、HD系列抽液泵应在海拔1000米以下使用。

- I. Please check whether the handrail wheel and outlet pipeline are locked.
- II. The impeller allows soft material with particle size below 3mm to pass through. If the particle size exceeds this, please install a filter screen.
- III. Do not store the pump in the damp place or where there is much sour gas, hot gas and all kinds of corrosive gas.
- IV. Motor, air motor and drum pump are strictly prohibited from collision damage.
- V. HD-A series air motor models must be equipped with automatic oil filling type pneumatic FRL in operation (water filtration, lubrication, pressure adjustment).
Note: The lubricating oil is IS VG32 turbine oil (commonly known as 1# turbine oil)
- VI. Put the pump pipe and outlet pipe to the designated safety area before turning on the electric (air) source.
- VII. When using electric (air) source, please start from small to large, in order to prolong the operation time and life of the pump, and to prevent personnel danger.
- VIII. Note whether the voltage is correct or whether the air supply pressure and gas production are correct or whether the air supply pressure and gas production meet requirements.
- IX. Variable speed control motors are equipped with overload protection devices. (For other pump types, overload protector is recommended at the inlet end of the power supply).
- X. When using, it must be operated by professionals on site, and personnel should not leave the site during operation.
- XI. General barrel-held portable drum pump can pump viscosity of about 800cps; High pressure impeller up to 1000cps; If you need to transport higher viscosity liquid, please choose high viscosity spiral drum pump or other suitable drum pump (such as FY pneumatic slurry pump, RW pneumatic diaphragm pump, ZB rotor pump, CG screw pump).
- XII. If the pump is found to have abnormal sound, please check whether the inhaled foreign matter collides with the impeller.
- XIII. If the liquid is solvent, explosion-proof motor or air motor should be used, and ground wire should be connected at the same time to ensure the safety of use.
- XIV. Please make sure when installing motor or air motor and pump pipe. If improperly installed, motor coupling and pump pipe coupling will be damaged.
- XV. Before installing the motor or air motor and pump pipe, please confirm that the switch is in OFF state.
- XVI. Do not immerse motor or air motor in liquid or be spilled by liquid.
- XVII. HD series drum pumps should be used below 1000 meters above sea level.

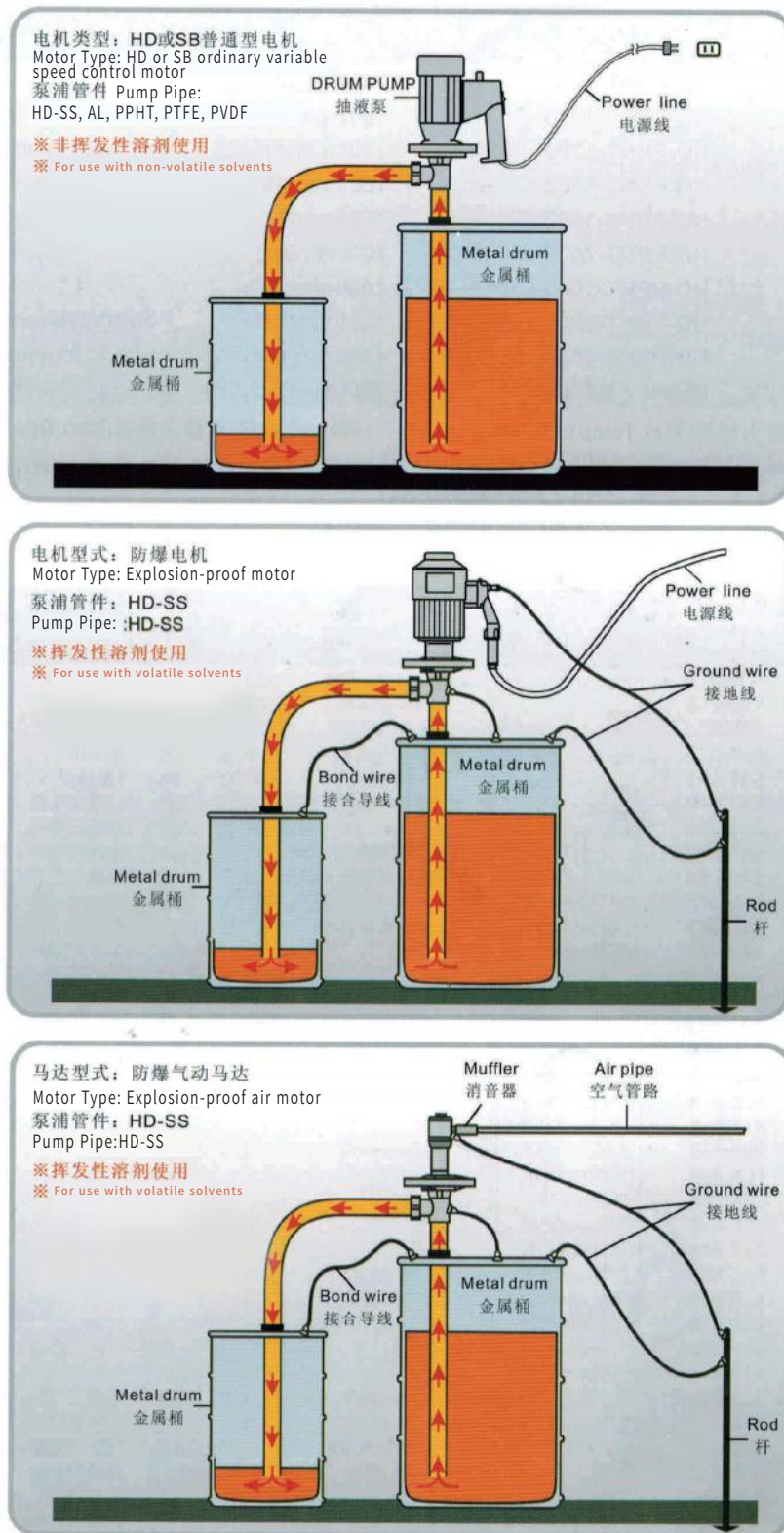
HD系列抽液泵 | HD Series Drum Pump

抽液泵安装示意图 DRUM PUMP INSTALLATION DIAGRAM



输送液体如为溶剂等挥发性易燃易爆介质，需配置防爆电机或防爆气动马达，同时必须接上接地线，以确保使用上安全；如疏忽接地线时，可能会导致静电而造成火灾、伤害甚至死亡。如果仍有疑义，使用前请先洽生产商或经销商。

If the liquid is solvent and other volatile flammable and explosive medium, explosion-proof motor or explosion-proof air motor should be equipped, and the grounding wire must be connected to ensure the safety of use; Neglecting grounding wires may cause static electricity, fire injury or death. If still in doubt, please negotiate with the manufacturer or distributor before using.



HD Series Drum Pump | HD系列抽液泵

HD-PPHT抽液泵系列 HD-PPHT DRUM PUMP SERIES

型号 Model	长度 Length	材质 Material	中心轴 Shaft	叶轮 Impeller
HD-PPHT-700	700mm(27")	Polypropylene	SS316L/Hastelloy	PVDF 大流量 (不标) PVDF High Volume (not marked)
HD-PPHT-1000	1000mm(39")			
HD-PPHT-1200	1200mm(47")			
HD-PPHT-1500	1500mm(60")			
HD-PPHT-1800	1800mm(72")			
HD-PPHT-700-HP	700mm(27")	Polypropylene	SS316L/Hastelloy	PVDF 高扬程 PVDF High Pressure
HD-PPHT-1000-HP	1000mm(39")			
HD-PPHT-1200-HP	1200mm(47")			
HD-PPHT-1500-HP	1500mm(60")			
HD-PPHT-1800-HP	1800mm(72")			

最高耐温(Max. Temp): 80°F/175°C

粘度(Viscosity):1000Cps/mPas(HD-E)

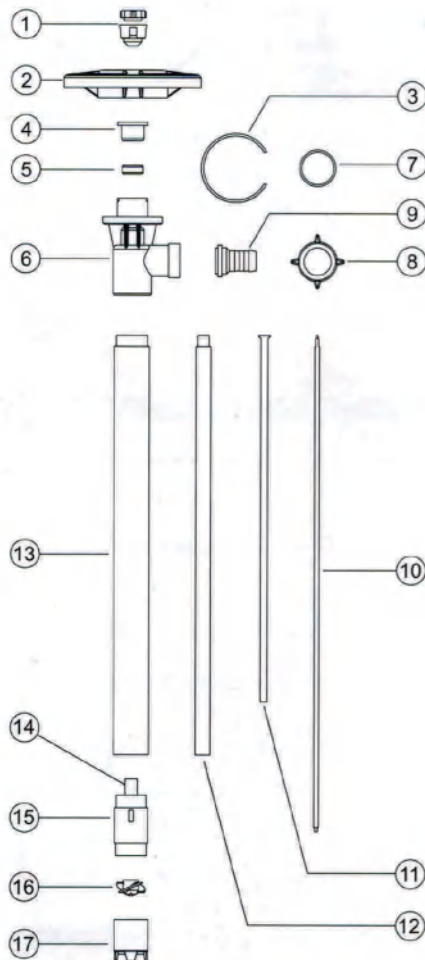
700Cps/mPas(HD-A1)

500Cps/mPas(HD-EX(SB-3))

最大比重(Max. Specific Gravity): 1.8

出口选择(Optional Outlet Size): 1"(25mm)barb

重量(Weight): 1-2kg 3/4"(22mm)barb



序号 NO.	部件名称 Name	配件编号 Parts NO
01	泵联轴器 Pump coupling	910.904
02	扶手轮 Handrail wheel	918.942
03	卡环 Snap ring	915.908
04	轴承组 Bearing unit	910.938
05	V型油封 V oil seal	940.900
06	三通泵头座 Tee pump head seat	960.928
07	出液口垫片 Fluid outlet gasket	921.995
08	出液口锁母 Fluid outlet lock nut	961.906
09	出液口管芯 Fluid outlet pipe core	960.982
10	中心轴 Central shaft	700mm(27") 915.943+L. (Hastelloy/SS316L) 1000mm(39") 915.944+L. 1200mm(47") 915.945+L. 1500mm(60") 915.946+L. 1800mm(72") 915.947
11	轴套管 Shaft sleeve pipe (FEP)	700mm(27") 915.914 1000mm(39") 915.915 1200mm(47") 915.916 1500mm(60") 915.917 1800mm(72") 915.918
12	内管 Inner pipe (PP)	700mm(27") 966.900 1000mm(39") 966.901 1200mm(47") 966.902 1500mm(60") 966.915 1800mm(72") 966.915
13	外管 Outer pipe (PP)	700mm(27") 966.903 1000mm(39") 966.904 1200mm(47") 966.905 1500mm(60") 966.917 1800mm(72") 966.917
14	轴套 Shaft sleeve	916.906
15	管轴套座 Pipe shaft sleeve seat	965.924
16	叶轮 (开式) PVDF impeller (open)	946.908
	高扬程叶轮 High pressure impeller	946.908HP
17	底座 Base	916.909
	高扬程底座 High pressure base	946.909HP

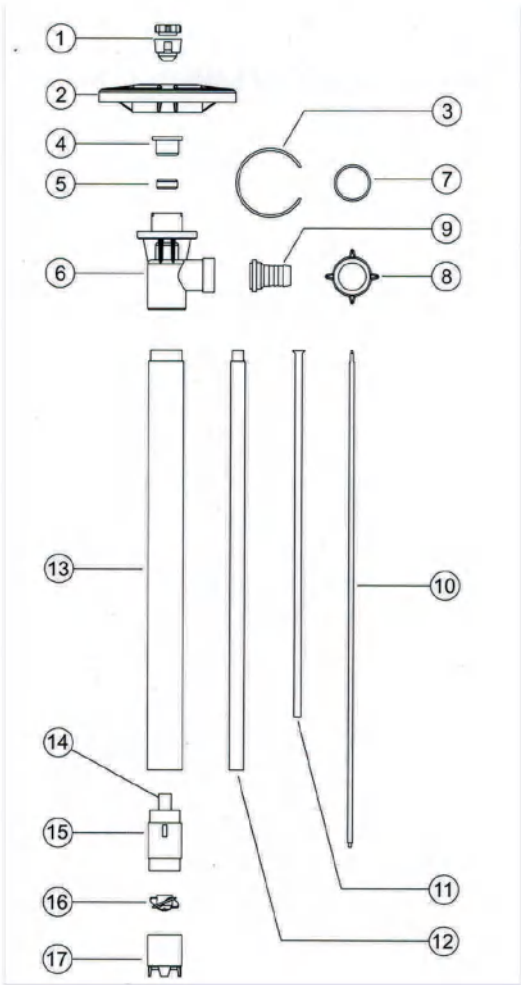
HD系列抽液泵 | HD Series Drum Pump

HD-PVDF抽液泵系列 HD-PVDF DRUM PUMP SERIES

型号 Model	长度 Length	材质 Material	中心轴 Shaft	叶轮 Impeller
HD-PVDF-700	700mm(27")	PVDF	Hastelloy	PVDF 大流量 (不标) PVDF High Volume (not marked)
HD-PVDF-1000	1000mm(39")			
HD-PVDF-1200	1200mm(47")			
HD-PVDF-1500	1500mm(60")			
HD-PVDF-1800	1800mm(72")			
HD-PVDF-700-HP	700mm(27")	PVDF	Hastelloy	PVDF 高扬程 PVDF High Pressure
HD-PVDF-1000-HP	1000mm(39")			
HD-PVDF-1200-HP	1200mm(47")			
HD-PVDF-1500-HP	1500mm(60")			
HD-PVDF-1800-HP	1800mm(72")			

最高耐温(Max. Temp): 100°F/212°C
粘度(Viscosity):1000Cps/mPas(HD-E)
700Cps/mPas(HD-A1)
500Cps/mPas(HD-EX(SB-3))

最大比重(Max. Specific Gravity): 1.8
出口选择(Optional Outlet Size):1"(25mm)barb
重量(Weight): 1.2-2.4kg 3/4"(22mm)barb



序号 NO.	部件名称 Name	配件编号 Parts NO.
01	泵联轴器 Pump coupling	910.904
02	扶手轮 Handrail wheel	918.942
03	卡环 Snap ring	915.908
04	轴承组 Bearing unit	910.938
05	V型油封 V oil seal	940.900
06	三通泵头座 Tee pump head seat	940.828
07	出液口垫片 Fluid outlet gasket	921.995
08	出液口锁母 Fluid outlet lock nut	941.806
09	出液口管芯 Fluid outlet pipe core	940.982
10	中心轴 Central shaft	700mm(27") 915.943 1000mm(39") (Hastelloy) 915.944 1200mm(47") 915.945 1500mm(60") 915.946 1800mm(72") 915.946
11	轴套管 Shaft sleeve pipe (FEP)	700mm(27") 915.914 1000mm(39") 915.915 1200mm(47") 915.916 1500mm(60") 915.917 1800mm(72") 915.918
12	内管 Inner pipe (PVDF)	700mm(27") 946.900 1000mm(39") 946.901 1200mm(47") 946.902 1500mm(60") 946.911 1800mm(72") 946.912
13	外管 Outer pipe (PVDF)	700mm(27") 946.903 1000mm(39") 946.904 1200mm(47") 946.905 1500mm(60") 946.913 1800mm(72") 946.914
14	轴套 Shaft sleeve	946.906
15	管轴套座 Pipe shaft sleeve seat	946.907
16	叶轮 (开式) PVDF impeller (open)	946.908
	高扬程叶轮 High pressure impeller	946.908HP
17	底座 Base	946.909
	高扬程底座 High pressure base	946.909HP

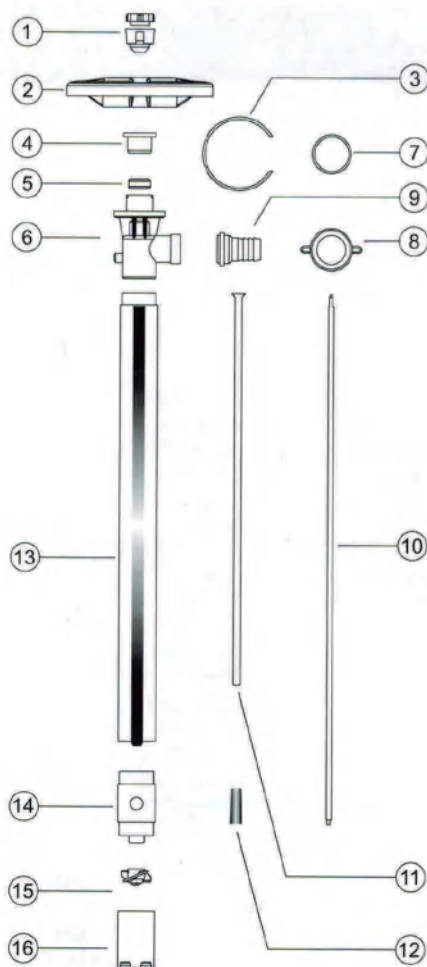
HD Series Drum Pump | HD系列抽液泵

HD-SS抽液泵系列 HD-SS DRUM PUMP SERIES

型号 Model	长度 Length	材质 Material	中心轴 Shaft	叶轮 Impeller
HD-SS304-700(orSS316L)	700mm(27")	SUS304/ SUS316L	Stainless 316L	PVDF 大流量 (不标) PVDF High Volume (not marked)
HD-SS304-1000(orSS316L)	1000mm(39")			
HD-SS304-1200(orSS316L)	1200mm(47")			
HD-SS304-1500(orSS316L)	1500mm(60")			
HD-SS304-1800(orSS316L)	1800mm(72")			
HD-SS304-700-HP(orSS316L)	700mm(27")	SUS304/ SUS316L	Stainless 316L	PVDF 高扬程 PVDF High Pressure
HD-SS304-1000-HP(orSS316L)	1000mm(39")			
HD-SS304-1200-HP(orSS316L)	1200mm(47")			
HD-SS304-1500-HP(orSS316L)	1500mm(60")			
HD-SS304-1800-HP(orSS316L)	1800mm(72")			

最高耐温(Max. Temp): 100°F/212°C
 粘度(Viscosity):1000Cps/mPas(HD-E)
 700Cps/mPas(HD-A1)
 500Cps/mPas(HD-EX(SB-3))

最大比重(Max. Specific Gravity): 1.8
 出口选择(Optional Outlet Size):1"(25mm)barb
 3/4"(22mm)barb
 重量(Weight):3.8-5.8kg



序号 NO.	部件名称 Name	配件编号 Parts NO.
01	泵联轴器 Pump coupling	910.904
02	扶手轮 Handrail wheel	918.942
03	卡环 Snap ring	915.908
04	轴承组 Bearing unit	910.938
05	V型油封 V oil seal	940.900
06	三通泵头座 Tee pump head seat	920.900+L
07	出液口垫片 Fluid outlet gasket	921.995
08	出液口锁母 Fluid outlet lock nut	921.968+L
09	出液口管芯 Fluid outlet pipe core	921.996+L
10	中心轴 Central shaft	700mm(27") 920.927
	(316L)	1000mm(39") 920.928
		1200mm(47") 920.929
		1500mm(60") 927.909
		1800mm(72") 927.910
11	轴套管 Shaft sleeve pipe	700mm(27") 920.931
	(FEP)	1000mm(39") 927.915
		1200mm(47") 920.932
		1500mm(60") 927.911
		1800mm(72") 927.912
12	轴套 Shaft sleeve	纯碳聚合物 Pure carbon polymer 916.906
13	内外管 Inner/Outer pipe	700mm(27") 927.900+L
	(304、316L)	1000mm(39") 927.901+L
		1200mm(47") 927.902+L
		1500mm(60") 927.913+L
		1800mm(72") 927.914+L
14	管轴套座 Pipe shaft sleeve seat	(304、316L) 927.904+L
15	叶轮 (开式) PVDF impeller (open)	927.906
	高扬程叶轮 High pressure impeller	927.904HH
16	底座 Base	927.908+L
	高扬程底座 High pressure base	927.908HH+L

HD系列抽液泵 | HD Series Drum Pump

HD-PTFE抽液泵系列 HD-PTFE DRUM PUMP SERIES

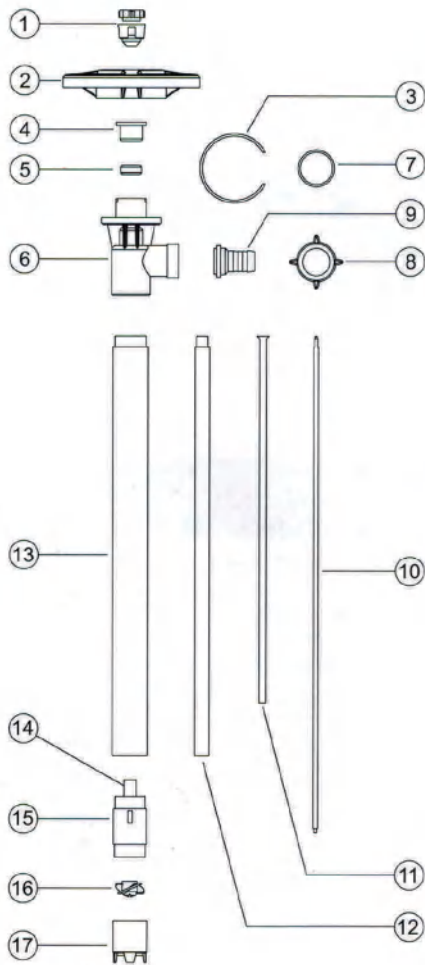
型号 Model	长度 Length	材质 Material	中心轴 Shaft	叶轮 Impeller
HD-PTFE-700	700mm(27")	PTFE	Hastelloy	PVDF 大流量 (不标) PVDF High Volume (not marked)
HD-PTFE-1000	1000mm(39")			
HD-PTFE-1200	1200mm(47")			
HD-PTFE-1500	1500mm(60")			
HD-PTFE-1800	1800mm(72")			
HD-PTFE-700-HP	700mm(27")	PTFE	Hastelloy	PVDF 高扬程 PVDF High Pressure
HD-PTFE-1000-HP	1000mm(39")			
HD-PTFE-1200-HP	1200mm(47")			
HD-PTFE-1500-HP	1500mm(60")			
HD-PTFE-1800-HP	1800mm(72")			

最高耐温(Max. Temp): 110°F/230°C

粘度(Viscosity):1000Cps/mPas(HD-E)
700Cps/mPas(HD-A1)
500Cps/mPas(HD-EX(SB-3))

最大比重(Max. Specific Gravity): 1.8

出口选择(Optional Outlet Size): 1"(25mm)barb
重量(Weight): 1.5-3kg 3/4"(22mm)barb



序号 NO.	部件名称 Name	配件编号 Parts NO.
01	泵联轴器 Pump coupling	910.904
02	扶手轮 Handrail wheel	918.942
03	卡环 Snap ring	915.908
04	轴承组 Bearing unit	910.938
05	V型油封 V oil seal	940.900
06	三通泵头座 Tee pump head seat	940.928
07	出液口垫片 Fluid outlet gasket	921.995
08	出液口锁母 Fluid outlet lock nut	941.906
09	出液口管芯 Fluid outlet pipe core	940.982
10	中心轴 Central shaft	700mm(27") 915.943 (Hastelloy) 1000mm(39") 915.944 1200mm(47") 915.945 1500mm(60") 915.946 1800mm(72") 915.946
11	轴套管 Shaft sleeve pipe (FEP)	700mm(27") 915.914 1000mm(39") 915.915 1200mm(47") 915.916 1500mm(60") 915.917 1800mm(72") 915.918
12	内管 Inner pipe (PTFE)	700mm(27") 1046.900 1000mm(39") 1046.901 1200mm(47") 1046.902 1500mm(60") 1046.911 1800mm(72") 1046.912
13	外管 Outer pipe (PTFE)	700mm(27") 1046.903 1000mm(39") 1046.904 1200mm(47") 1046.905 1500mm(60") 1046.913 1800mm(72") 1046.914
14	轴套 Shaft sleeve	1046.906
15	管轴套座 Pipe shaft sleeve seat	1046.907
16	叶轮 (开式) PVDF impeller (open)	1046.908
17	高扬程叶轮 High pressure impeller	1046.90HP
17	底座 Base	1046.909
	高扬程底座 High pressure base	1016.909HP

HD Series Drum Pump | HD系列抽液泵

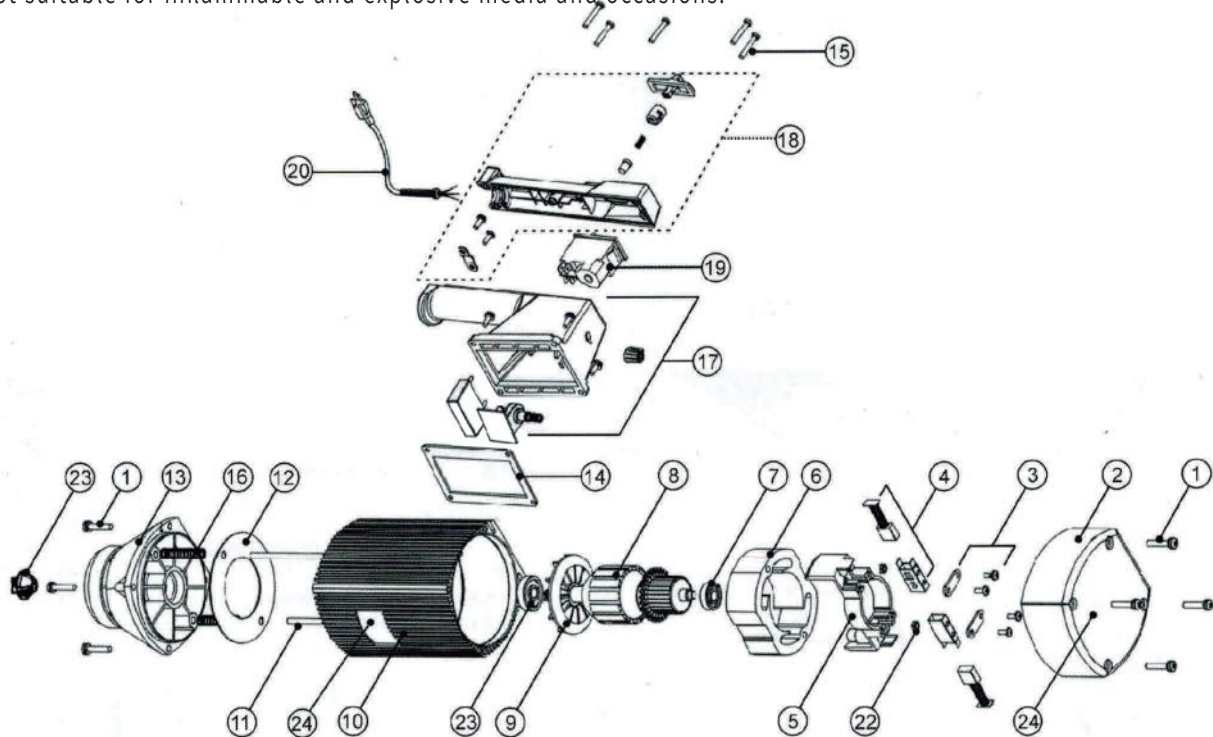
HD-E2-V 可调速电机系列 HD-E2-V VARIABLE SPEED CONTROL MOTOR SERIES

型号 Model	电源 Power
HD-E2-V	220V/1Φ/50-60Hz/800W

电机重量 (Motor Weight): 3.55kg

不适用于输送易燃易爆介质及场合。

Not suitable for inflammable and explosive media and occasions.



序号 NO.	部件名称 Name	配件编号 Part No.	序号 NO.	部件名称 Name	配件编号 Part No.
01	上盖/下端盖螺丝 Screws for upper/lower cover	981.93P	13	电机下端盖 Motor lower end cover	981.900
02	电机上盖 Motor upper cover	980.900	14	把手垫片 Handle gasket	981.967
03	十字自攻螺丝组件 Cross self tapping screw components	910.940	15	把手螺丝 Handle screw	981.931
04	碳刷组件 Carbon brush component	987.903	16	弹簧 Spring	985.907
05	碳刷架座 Carbon brush holder	985.908	17	调速开关 Speed-control switch	980.905
06	外线圈组 Outer coil group	987.902	18	把手上盖 (推杆) Handle upper cover (push rod)	980.902
07	轴承 Bearing	981.926	19	电源开关 Power switch	987.904
08	内线圈组 Inner coil group	987.901	20	电源线 Power cable (with plug) (含插头)	987.905
09	散热风叶 Cooling fan blade	985.912	21	轴承 Bearing	983.931
10	电机外壳 Motor housing	981.93P	22	六角螺母 Hexagon nut	984.948
11	连接杆 Connecting rod	985.906	23	电机端联轴器 Motor end coupling	983.933
12	下端盖垫片 Gasket for lower end cover	985.904	24	品牌标识 Nameplate	

HD系列抽液泵 | HD Series Drum Pump

TROUBLESHOOTING

Problem	Cause	Solution
The motor/air motor stops working	- Motor current overload (motor coil burned, unable to operate) - Whether the power supply is disconnected or the plug is disconnected - Motor upper and lower couplings are worn - The inner coil of the stator was corroded by acid gas, resulting in immobility - Poor contact of power supply - The protection switch of the power supply is in poor contact	- Install an overload protector at the inlet end (replace the coil) - Check the power supply or re-secure plugs and sockets - Replace the coupling - Replace the inner coil - Replace the plug or socket to ensure a secure connection - Repair switch or replace it
Motor/air motor temperature is too high	- Whether the current is too high to overload the motor - The voltage used in the motor is unstable, please install voltage regulator or current overload protection switch to prevent motor overload burn - Too high liquid viscosity, too large specific gravity, too large particles, too high content will lead to slow motor operation and heavy drag	- Find out the cause of overload, please install the power regulator and current overload protection switch - Dilute the concentration, viscosity, specific gravity and particles of the conveying medium or replace with other applicable pump types
After normal operation, the pump suddenly stopped	- Whether blockage or dirt deposition - Remove blockages or dirt and be sure to check regularly - Whether there is foreign matter in the pump body, whether the filter equipment is defective or other substances fall into the tank - Determine whether the temperature of the liquid is too high and whether the material is suitable	- Remove blockages, clean up dirt or sediment - Please replace the filter screen, filter element and remove impurities from the pipe and tank - Reduce the temperature of the liquid to be transported or replace with the pump type that meets and is suitable for the material to be transported
There are cracks in the main body of the pump	- Verify that the material of the fluid contact part of the pump body and the liquid being transported are suitable - The inlet and outlet pipeline is not really fixed, resulting in vibration during operation; Please fix the inlet and outlet pipes properly and replace the damaged parts	- Replace with the pump type that can fully meet or adapt to the material of the liquid being transported - Stabilize the pump support when in use, minimize the amplitude and unnecessary vibration
The drum pump can't pump out the liquid (motor can operate normally)	- Check the inlet and outlet pipes for foreign matter obstruction or dirt deposition - Check whether the vane is blocked, worn or stuck - The liquid level at the inlet should be at least 3 cm higher than the pump pipe base - Check whether the parts of the pump are loose or damaged - Whether the motor coupling, pump pipe coupling are worn, resulting in idling - Make sure the motor is running properly	- Remove blockage and dirt at the inlet of the drum pump - Remove the entanglement and other foreign bodies on the impeller, if the impeller is damaged, replace it - Improve the liquid level - Test and tighten the impeller, coupling, bushing, etc., if the parts are damaged, replace them - Replace the coupling - Check whether the wiring is correct and the length of the carbon brush is qualified
The drum pump vibrates greatly and has loud sound when working	- The drum pump is not fixed or poorly installed, causing vibration during operation - Check the inlet and outlet pipes for foreign matter obstruction or dirt deposition - After long-term operation of the pump, bearing is worn or rusted - The carbon brush is worn after long-term use	- Stabilize the support of the drum pump, check whether the gap between the main shaft and sleeve is too large, and the viscosity or specific gravity of the liquid being transported is beyond the application scope of the pump - Replace the bearing, sleeve and bushing - Replace the carbon brush or even the carbon brush holder
The drum pump fittings leak fluid	- Middle bushing and pipe bearing seat are worn - The central shaft is worn out due to long-term use - When the outlet leaks, it may be due to O-ring wear - Pump pipe is loose - Motor coupling and pump pipe coupling are damaged	- Replace the middle bushing or bearing seat - Replace the central shaft, shaft sleeve and matching seals - Replace the O-ring - Tighten the pump pipe (high strength sealant can be added if necessary) - Replace the coupling and test the connecting part
Air motor failure	- The air source is not open yet - Air motor speed is low, operates unsteadily when fully loaded - Overload causes vane damage, and long-term use leads to vane wear	- Open the air source - Air pressure is not enough. Raise air supply pressure. Raise the air supply - Replace the vanes or replace the air motor



In case of unknown fault cause, please immediately turn off the power (air source) and inform the distributor for further inspection.



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