



红袍防爆化工潜泵

Red-Robe Ex CHEMICAL SUBMERSIBLE PUMP

替代传统液下泵 创造更优的介质输送方式

REPLACE TRADITIONAL SUBMERSIBLE PUMP
TO CREATE A BETTER MEDIUM DELIVERY MODE



Safety

安全可靠



Preservative

超耐腐蚀



Energy Efficient

高效节能

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化工潜泵主要用于地下罐，将油罐内液体推送至加液机，304不锈钢包裹的转子配特制的石墨轴承，使产品和液体接触部分具有自身无污染，耐腐蚀的性能，扩大了潜泵的用途和应用领域。

Chemical Submersible Pump is mainly used for underground tank, the liquid in the tank is pushed to the refueling machine, 304 stainless steel wrapped rotor with special graphite bearing, so that the product and the liquid contact part has its own pollution-free, corrosion resistance performance, expand the use and application of submersible pump.

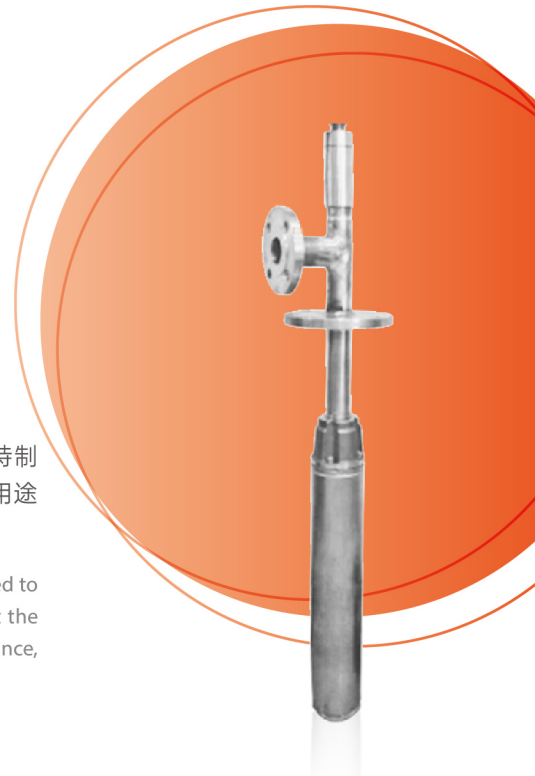


产品特点

- 国家防爆认证，可用于危险区域
- 不会产生气蚀现象
- 内置热保护，安全可靠
- 整体采用304不锈钢材质，防锈防腐蚀
- 正压供油，输液距离长
- 一泵可带多个加注机
- 内置泄压装置，维持安全的管线压力
- 电机定子内置温控保护器
- 电机电流超过正常值时，潜液泵可能有异常自动停机
- 电机内部最高温度达到95℃时自动停机

Product Features

- National Ex certification, can be used in dangerous areas
- No cavitation
- Built-in thermal protection, safe and reliable
- All 304 SS material, anti-rust and anti-corrosion
- Positive pressure oil supply, long infusion distance
- One pump can be equipped with multiple filling machines
- Built-in pressure relief device to maintain safe line pressure
- Motor stator built-in temperature control protector
- When the motor current exceeds the normal value, the submersible pump may have abnormal automatic shutdown
- Automatic stop when the highest internal temperature of the motor reaches 95°C



红袍防爆化工潜泵与传统长轴液下泵比较

COMPARISON BETWEEN Red-Robe Ex CHEMICAL SUBMERSIBLE PUMP
AND TRADITIONAL LONG SHAFT SUBMERSIBLE PUMP



传统液下泵
Traditional STP

红袍化工潜泵
Red-Robe Chemical Submersible Pump

传统液下泵

造价低
安全性差
维护频繁
轴长超过4米的长度无法制造

TRADITIONAL Submersible Pump

Low cost
Poor safety
Maintain frequently
Shaft lengths greater than 4 m can't be manufactured

红袍化工潜泵

购置费无增加
安全性极好
终身免维护
运行费用是传统液下泵的1/10

Red-Robe Chemical Submersible Pump

No increase in purchase fee
Excellent security
Lifetime maintenance free
The operating cost is 1/10 of that of a conventional submersible pump

超乎预期的成本获益

UNEXPECTED COST BENEFITS

普通长轴液下泵，造价1万元左右，但耗电是红袍防爆化工潜泵的3倍至5倍。维护费远远超过首次购置成本。

Traditional submersible pump, the cost is expensive, but the power consumption is 3 times to 5 times of Red-Robe Ex chemical submersible pump. Maintenance costs far exceed initial acquisition costs.

长轴液下泵因为轴的长度受限，必须由多级组合而成，每级的轴承成为易损件，如不及时更换，可能造成严重后果。地下罐的介质一般是易燃易爆的危险品。几次重大事故，导致中石油发文停用长轴液下泵。

红袍防爆化工潜泵，造价1万元左右，红袍防爆化工潜泵的电机在液面以下，只有几百毫米短轴，所以运行稳定，几乎没有磨损。因为其免维护，超长寿命，运行费用极低，性价比远远高于传统长轴液下泵。

Red-Robe Ex chemical submersible pump, the cost is affordable, the motor is under the liquid level, a few hundred mm short shaft only, so the operation is stable without wear. Because of its maintenance-free, ultra-long life, low operating costs, the cost performance ratio is far higher than the traditional long-shaft submersible pump.

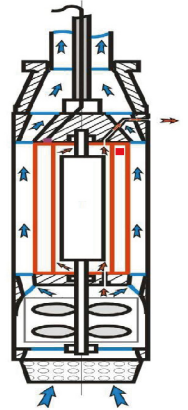
Because the shaft length is limited, the long-shaft submersible pump must be composed of multiple stages. The bearings of each stage become wearing parts. If not replaced in time, it may cause serious consequences. The medium of underground tank is generally flammable and explosive dangerous goods. Several major accidents resulted in the suspension of the long shaft submersible pump.

安全是我们的首要任务

SAFETY IS OUR TOP PRIORITY

- 物料传输路径 — 沿蓝色箭头所示线路传输
- 电力传输路径 — 通过防爆连接器、电缆引出等装置将电缆引出潜液泵，内部整体灌封高强度阻燃环氧树脂
- 电机内循环系统 — 部分液体在电机内部快速穿过，沿红色箭头所示线路与潜液泵外物料汇合，实现系统大循环

- Material Transmission Path - along the line shown by the blue arrow
- Power Transmission Path - the cable is led out of the submersible pump through Ex connectors, cable leads and other devices, and the internal whole potting of high strength flame retardant epoxy resin
- Motor Internal Circulation System - part of the liquid quickly passes through the motor and meets the material outside the submersible pump along the route shown by the red arrow to realize the large circulation of the system

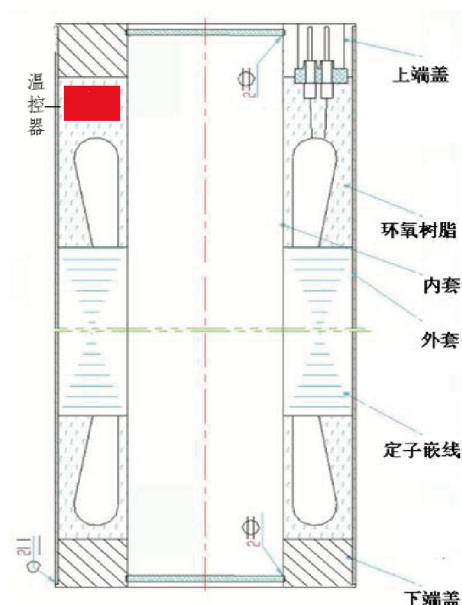


关键工艺

- 内、外套筒与上、下压盖之间焊接成一体
- 内腔真空压力灌封环氧树脂
- 水压试验及绝缘性能检测
- 定子嵌线部分被内、外套筒，上、下端盖包在内部

Key Process

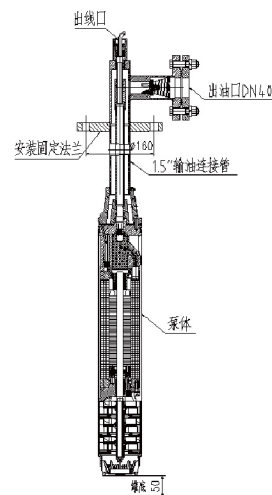
- The inner and outer sleeves are welded together with the upper and lower gland
- Inside cavity vacuum pressure encapsulation epoxy resin
- Water pressure test and insulation performance test
- The stator embedded line part is covered by inner and outer sleeves, and the upper and lower ends are wrapped inside



外形安装图 Installation Drawing

出油口DN40到DN100不等根据客户需求定制。
泵体外径φ101和152.7两种。

Outlet DN40 to DN100 can be customized according to customer requirements.
Pump diameter: φ101 and φ152.7



基本参数 Basic Parameters

功率 Power	0.75HP	1.5HP	2.0HP	3.0HP	5.0HP
转速 Speed	2850RPM				
压力 Pressure	0.2~0.35MPa				
流量 Flow Rate	220L/min	300L/min	380L/min	600L/min	1000L/min
干转保护 Dry-running Protection	off				
浸没要求 Immersion Requirements	200mm				
离罐底距离 From The Bottom of Tank	50-75mm				
连接方式 Connection Method	定杆连接, 长度按客户要求 Fixed pipe length can be custoned by required.				
工作温度 Operating Temperature	-25°C~+55°C				

适用介质 Applicable Medium

脂类 Lipid

乙酸甲酯 正丙酯
Methyl Acetate NPAC

乙酸乙酯 二价酸酯
Ethyl Acetate DBE

乙酸丙酯 丙酸甲酯
Propyl Acetate Methyl Propionate

乙酸丁酯 丙酸乙酯
Butyl Acetate Ethyl Propionate

醋酸甲酯 丙酸丙酯
Methyl Acetate Propyl Propionate

醋酸乙酯 油酸甲酯
Acetic Ether Methyl Oleate

醋酸丁酯 乙二醇乙醚乙酸酯
N-butyl Acetate Glycol Ethyl Ether Acetate

水杨酸甲酯 2-乙酰基-γ丁内酯
Methyl Salicylate 2-Acetyl-γ-Butyrolactone

碳酸二甲酯 甲基丙烯酸 α-羟基丙酯
Dimethyl Carbonate Methacrylic Acid α-Hydroxypropyl Ester

醋酸乙烯酯 甲基丙烯酸 α-羟基乙酯
Nikasol Methacrylic Acid α-Hydroxy Ethyl Ester

醋酸仲丁酯 丙二醇甲醚醋酸酯
Sec-Butyl Acetate Propylene Glycol Methyl Ether Acetate

丙烯酸乙酯 甲基丙烯酸甲酯 (甲甲酯)
Ethyl Acrylate Methyl Methacrylate

丙烯酸甲酯 丙烯酸 (正) 丁酯
Methyl Acrylate N-butyl Acrylate

丙烯酸异辛酯 乙二醇丁醚醋酸酯
2-Ethylhexyl Acrylate 2-Butoxyethyl Acetate

苯类 Benzene

粗苯 甲苯
Benzol Methylbenzene

二甲苯 苯乙烯
Xylene Styrene

重芳烃 硝基苯
Heavy Aromatics Nitrobenzene

100#芳烃 氯化苯 (氯苯)
100#Arene Chlorobenzene

150#芳烃 三甲苯 (S100)
150#Arene Trimethylbenzene

邻二甲苯 乙基苯 (乙苯)
O-xylene Ethylbenzene

均三甲苯
Mesitylene

胺和腈 Amine & Nitrile

苯胺 丙烯腈
Aniline Acrylonitrile

乙腈 车用尿素
Acetonitrile AdBlue

一甲胺 二甲基甲酰胺
Monomethylamine Dimethylformamide

三乙胺 2, 3-二甲基苯胺
Triethylamine 2, 3-Dimethylaniline

醇类 Alcohol

丙二醇 苄醇
Propylene Glycol Benzyl Alcohol

(正)丙醇 环己醇
n-Butyl Alcohol Cyclohexanol

(正)丁醇 异丙醇
n-Butyl Alcohol Isopropanol

(正)辛醇 异丁醇
n-Caprylic Alcohol Isobutanol

(正)己醇 乙二醇
n-Hexanol Glycol

二甘醇 (乙二醇) 二丙酮醇
Diglycol(Diethylene Glycol) Diacetone Alcohol

甲醇、乙醇及混合物 2-辛醇
Methanol-Ethanol Mixture 2-Octanol

甲缩醛 (甲缩醛二乙醇) 戊醇
Methylal Formaldehyde Diethyl Acetal Amyl Alcohol

酮类 Ketone

丁酮 环己酮
Butanone Cyclohexanone

丙酮 甲基异丁基 (甲) 酮
Acetone MIBK

醚类 Ethers

石油醚 丙二醇甲醚
Petroleum Ether Propylene Glycol Monomethyl Ether

四氢呋喃 甲基叔丁基醚
Tetrahydrofuran MTBE

乙二醇乙醚 乙二醇丁醚
Glycol Ether Butyl Cellosolve

二乙二醇单丁醚
Diethylene Glycol Monobutyl Ether

醛类 Aldehydes

甲醛
Formaldehyde

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