

SHENGDA | 胜达

滤油机产品系列
OIL PURIFIER SERIES

PURIFY WORLD
FROM
SHENGDA
纯净世界来自胜达



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胜达过滤
SHENGDA FILTRATION

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CORPORATE PROFILE 公司简介

胜达过滤成立于1998年，自成立以来，一直致力于过滤产品的研究、设计和制造。公司制造设备先进，制作工艺稳定，质量保证体系健全，通过了ISO9001:2015质量管理体系认证、ISO14001:2015环境管理体系认证、OHSMS18001:2007职业健康安全体系认证；EJ/T9001-2014核工业质量管理体系认证；A1、A2压力容器设计和制造许可证，美国机械工程师协会（ASME）颁发的压力容器设计制造证书和钢印。产品主要应用在石油、化工、煤化工、天然气、核电、燃气轮机发电、风电、燃煤发电、工程机械、采煤等领域。

针对新品研发，公司成立了过滤实验室，该实验室是一个从事过滤与分离技术研发工作的专业实验室，检测设备完善，能够测试评定滤材、滤芯和过滤设备的各项性能。按照分离相的不同，主要分为气-固分离、气-液分离、液-固分离及液-液分离等。实验室成立以来，从行业内大型的国产化项目，到现场一线操作人员的细小问题优化，我们攻克了一个个难题，得到了客户和国家相关部门的认可。

除此之外，公司一直在缔造公司独有的胜达品质，胜达品质不仅指产品质量，而是包括产品、人格、商誉、服务等全方位的优化和品质文化的培育、品质环境的创造。人格就是人的品质、人的尊严，胜达人不仅要以高品质体现个人自豪感、尊严感，更要致力于争创中国人自己的国际品牌，使“胜达”从中国品牌发展为国际品牌。

Shengda Filtration is engaged in research, design and manufacture of filtration products since establishment in 1998. With advanced manufacturing equipment, sophisticated production technology, sound quality assurance system, we have passed the ISO 9001:2015 Quality Management System, ISO 14001:2015 Environmental Management System, OHSMS18001:2007 Occupational Health and Safety Management System, EJ/T9001-2014 Nuclear Industry Quality Management System, Design and Manufacture License of Category A1, A2, Design and Manufacture certificate of authorization and Regulation Stamping by the American Society of Mechanical Engineers (ASME) with U stamp. The products are mainly applied to petroleum, chemical, coal chemical, natural gas, nuclear power, gas turbine generation, and wind power, coal-fired power generation, engineering machinery, and coal mining industry, etc.

We build up Filtration Test Lab for product research and development. Filtration test laboratory is professional in researching and developing filtration & separation technique. Supported with sophisticated test & inspection facility, the test lab can provide various performance evaluations of filter material, filter cartridge, and filter equipment. The main research can be divided into the following according to separation phase difference: gas-solid separation, gas-liquid separation, liquid-solid separation and liquid-liquid separation. Since establishment, we have overcome difficulties, from large-scale localization project to minor problem optimization of site operator accepted and recognized by customer and relevant national department.

Additionally, we are creating unique "Shengda Quality" all the time. "Shengda Quality" not only refers to products character, but also all-round optimization covering product, personality, business reputation, service, quality culture cultivation and quality environment creation. Personality means human character, and human dignity. As Shengda's staff, we shall not only show personal pride, sense of dignity, but also devote ourselves to creating own International brand, making "Shengda" world-renowned.

QUALIFICATION HONOR 资质荣誉



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LABORATORY EQUIPMENT
实验设备



MANUFACTURE EQUIPMENT
生产设备



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BLYJ SERIES PORTABLE OIL PURIFIER BLYJ系列便携式滤油机

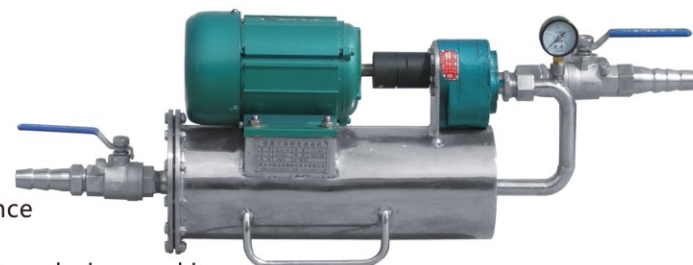
产品特点 / Product Characteristic

BLYJ系列便携式滤油机是我公司研制开发的一种便携式加油滤油装置，该机携带方便，可在野外随时随地对各种液压润滑设备进行加注，并对油液进行净化。吸油口粗过滤器可保护油泵并延长主过滤器的使用寿命。精过滤器可根据用户的不同需要，选择不同的精度，达到所需要的使用效果。

BLYJ series portable oil purifier is a new type oil infusion and purification device, which is developed by our company and easy to take, can infuse and purify oil for different kinds of hydraulic and lubricant equipment at anytime anywhere. The coarse filter in suction orifice can protect oil pump and increase filter service life. We can design fine filter precision according to customer requirement, in order to achieve required service condition.

产品应用 / Product Application

- ▶ 液压润滑系统加油、过滤和定期保养
- ▶ 液压润滑系统工作时的旁路过滤
- ▶ Oil infusion and purification, periodic maintenance for hydraulic and lubricant system.
- ▶ As a by-pass filter in hydraulic and lubricant system during working.



技术参数 / Technical Parameters

型号 / Type	BLYJ-6_*/**	BLYJ-10_*/**	BLYJ-16_*/**
额定流量 (l/min) / Rated Flow Rate	6	10	16
额定压力(mpa) / Rated Pressure		0.5	
原始压力损失(mpa) / Initial Pressure Loss		≤0.02	
粗过滤精度(μm) / Coarse Filter Precision		100	
精过滤精度(μm) / Fine Filter Precision		3 5 10 20 40	
工作温度(°C) / Working Temperature		0-80	
电机功率(kw) / Motor Power	0.25	0.37	0.55
电压(v) / Voltage		AC220V,50Hz	
外形尺寸(mm) / Dimension	550x170x300	600x170 x 300	600x170x300

注/Note:

- 1: 为精过滤器的精度，如003为微米。 1:stands for fine filter precision, for example, 003 means 3 microns.
- 2: 为所适用的介质，省略：一般液压油；BH：水-乙二醇；V：磷酸酯液压油。
2: stands for applicable medium; No sign: general hydraulic oil; BH: water-glycol; V: phosphate ester.
- 3: 适用介质粘度≤160 cSt 3:stands for applicable medium viscosity ≤160 cSt.

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LYC-A SERIES MOVABLE OIL PURIFIER LYC-A系列移动式滤油车

产品特点 / Product Characteristic

LYC-A系列移动式滤油车是我公司研制开发的一种可移动式加油滤油装置，设计简洁实用、移动方便、维护简单、具有噪音低、自吸能力强、运转平稳等特点。

管路设有溢流保护装置，可有效保护液压系统的安全；采用热继电器保护，防止电机过载所造成的电机损坏；吸油口粗过滤器可以保护油泵，并延长主过滤器的使用寿命；泵后设有两级精过滤器，使油液快速达到很高的清洁度；精过滤器可根据用户的需要，选择不同的过滤精度，达到所需要的效果。

设备壳体采用快开结构，不需要任何工具便能迅速打开上盖，更换滤芯。操作面板上装有压力表，在工作时连续指示系统的运行状况和滤芯的污染程度。

LYC-A series movable oil purifier is the oil infusion and purification device, which is developed by our company, has practical design, can convenient move and simple maintain, with low noise, high adsorption and stable operation.

The pipeline is provided with overflow protection device, can efficiently protect safety of hydraulic pressure system. It adopts thermal relay protection to prevent motor from damage caused by overloading. The coarse filter in suction orifice can protect oil pump and increase service life of filter; there are two-stage fine filters in back of the pump, which can make oil rapidly achieve high cleanliness. We can design fine filter precision according to customer requirement, in order to achieve required service condition.

The filter shell adopts quick open structure, can rapidly open upper cover and replace filter cartridge without using any tools. The pressure gauge is installed on control panel to continuous indicate operation condition of system and pollution condition of cartridge during working.



LYC-A SERIES MOVABLE OIL PURIFIER LYC-A系列移动式滤油车

产品应用 / Product Application

- ▶ 液压润滑系统加油时的过滤
- ▶ 液压润滑系统工作时的旁路过滤
- ▶ 液压润滑系统投入运行前的循环过滤
- ▶ 液压润滑系统的油不经设备本身的泵过滤流出

- ▶ The oil infusion and purification for hydraulic and lubricant system.
- ▶ As a by-pass filter in hydraulic and lubricant system during working.
- ▶ Cycle filtering before operation of hydraulic and lubricant system.
- ▶ The oil in hydraulic and lubricant system will not be discharged from filter pump.

技术参数 / Technical Parameters

型号 / Type	LYC-30A _/**	LYC-50A _/**	LYC-63A _/**	LYC-100A _/**
额定流量 (l/min) / Rated Flow Rate	30	50	63	100
额定压力(mpa) / Rated Pressure	0.6			
原始压力损失(mpa) / Initial Pressure Loss	≤0.02			
粗过滤精度(μm) / Coarse Filter Precision	100			
精过滤精度(μm) / Fine Filter Precision	3 5 10 20 40			
工作温度(°C) / Working Temperature	0-80			
电机功率(kw) / Motor Power	0.75	1.1	1.1	1.5
电压(v) / Voltage	AC380V 三相 AC380V, 3 phases			
外形尺寸(mm) / Dimension	700 x 550 x 900	700 x 550 x 900	700 x 550 x 900	700 x 600 x 900

注/Note:

- 1: 为精过滤器的精度, 如003为3微米。
- 2: 为所适用的介质, 省略: 一般液压油; BH: 水-乙二醇; V: 磷酸酯液压油。
- 3: 适用介质粘度 ≤320 cSt
- 1: stands for fine filter precision, for example, 003 means 3 microns.
- 2: stands for applicable medium; No sign: general hydraulic oil; BH: water-glycol; V: phosphate ester.
- 3: stands for applicable medium viscosity ≤320 cSt.

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LYC-B SERIES HIGH PRECISION OIL PURIFIER LYC-B系列高精度滤油车

产品特点 / Product Characteristics

LYC—B系列高精度滤油机是我公司研制开发的一种可移动式加油滤油装置, 设计简洁实用、移动方便、维护简单、具有噪音低、自吸能力强、运转平稳等特点。

管路设有溢流保护装置, 可有效保护液压系统的安全; 采用热继电器保护, 防止电机过载所造成的电机损坏; 吸油口粗过滤器可以保护油泵, 并延长主过滤器的使用寿命; 泵后设有两级精过滤器, 使油液快速达到很高的清洁度; 精过滤器可根据用户的需要, 选择不同的过滤精度, 达到所需要的效果。

设备壳体采用快开结构, 不需要任何工具便能迅速打开上盖, 更换滤芯。操作面板上装有压力表, 在工作时连续指示系统的运行状况和滤芯的污染程度。

LYC-B series high precision oil purifier is the oil infusion and purification device, which is developed by our company, has practical design, can convenient move and simple maintain, with low noise, high adsorption and stable operation.

The pipeline is provided with overflow protection device, can efficiently protect safety of hydraulic pressure system. It adopts thermal relay protection to prevent motor from damage caused by overloading. The coarse filter in suction orifice can protect oil pump and increase service life of filter; there are two-stage fine filters in back of the pump, which can make oil rapidly achieve high cleanliness. We can design fine filter precision according to customer requirement, in order to achieve required service condition.

The filter shell adopts quick open structure, can rapidly open upper cover and replace filter cartridge without using any tools. The pressure gauge is installed on control panel to continuous indicate operation condition of system and pollution condition of cartridge during working.



LYC-B SERIES HIGH PRECISION OIL PURIFIER LYC-B系列高精度滤油车

产品应用 / Product Application

- ▶ 液压润滑系统加油时的过滤
- ▶ 液压润滑系统工作时的旁路过滤
- ▶ 液压润滑系统投入运行前的循环过滤
- ▶ 液压润滑系统的油不经设备本身的泵过滤流出

- ▶ The oil infusion and purification for hydraulic and lubricant system
- ▶ As a by-pass filter in hydraulic and lubricant system during working
- ▶ Cycle filtering before operation of hydraulic and lubricant system
- ▶ The oil in hydraulic and lubricant system will not be discharged from filter pump

技术参数 / Technical Parameters

型号 / Type	LYC-30B _/**	LYC-50B _/**	LYC-63B _/**	LYC-100B _/**
额定流量 (l/min) / Rated Flow Rate	30	50	63	100
额定压力(mpa) / Rated Pressure	0.6			
原始压力损失(mpa) / Initial Pressure Loss	≤0.02			
粗过滤精度(μm) / Coarse Filter Precision	100			
精过滤精度(μm) / Fine Filter Precision	10 20 40			
工作温度(°C) / Working Temperature	0-80			
电机功率(kw) / Motor Power	0.75	1.5	1.1	1.5
电压(v) / Voltage	AC380V 三相 AC380V, 3 phases			
外形尺寸(mm) / Dimension	700 x 600 x 900	700 x 600 x 900	700 x 600 x 900	700 x 600 x 1170

注/Note:

- 1: 为精过滤器的精度, 如003为3微米
 - 2: 为所适用的介质, 省略: 一般液压油; BH: 水-乙二醇; V: 磷酸酯液压油
 - 3: 适用介质粘度 ≤160cSt
- 1: stands for fine filter precision, for example, 003 means 3 microns.
 2: stands for applicable medium; No sign: general hydraulic oil; BH: water-glycol; V: phosphate ester.
 3: stands for applicable medium viscosity ≤160cSt.

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LYC-C SERIES BOX TYPE MOVABLE OIL PURIFIER LYC-C系列箱式移动滤油车

产品特点 / Product Characteristics

LYC-C系列箱式移动滤油车是我公司研制开发的一种可移动式加油滤油装置, 设计简洁实用、移动方便、维护简单、具有噪音低、自吸能力强、运转平稳等特点。

管路设有溢流保护装置, 可有效保护液压系统的安全; 采用热继电器保护, 防止电机过载所造成的电机损坏; 吸油口粗过滤器可以保护油泵, 并延长主过滤器的使用寿命; 泵后设有两级精过滤器, 使油液快速达到很高的清洁度; 精过滤器可根据用户的需要, 选择不同的过滤精度, 达到所需要的效果。

设备壳体采用快开结构, 不需要任何工具便能迅速打开上盖, 更换滤芯。操作面板上装有压力表, 在工作时连续指示系统的运行状况和滤芯的污染程度。

LYC-C series box type movable oil purifier is the oil infusion and purification device, which is developed by our company, has practical design, can convenient move and simple maintain, with low noise, high adsorption and stable operation.

The pipeline is provided with overflow protection device, can efficiently protect safety of hydraulic pressure system. It adopts thermal relay protection to prevent motor from damage caused by overloading. The coarse filter in suction orifice can protect oil pump and increase service life of filter; there are two-stage fine filters in back of the pump, which can make oil rapidly achieve high cleanliness. We can design fine filter precision according to customer requirement, in order to achieve required service condition.

The filter shell adopts quick open structure, can rapidly open upper cover and replace filter cartridge without using any tools. The pressure gauge is installed on control panel to continuous indicate operation condition of system and pollution condition of cartridge during working.



产品应用 / Product Application

- ▶ 液压润滑系统加油时的过滤
- ▶ 液压润滑系统工作时的旁路过滤
- ▶ 液压润滑系统投入运行前的循环过滤
- ▶ 接入液压润滑系统全面提高系统的清洁度

- ▶ The oil infusion and purification for hydraulic and lubricant system
- ▶ As a by-pass filter in hydraulic and lubricant system during working
- ▶ Cycle filtering before operation of hydraulic and lubricant system
- ▶ Connect with hydraulic and lubricant system to completely increase cleanliness of system

LYC-C SERIES BOX TYPE MOVABLE OIL PURIFIER LYC-C系列箱式移动滤油车

普通型箱式移动滤油车/General Type

说明/Description

本机采用精制外壳包覆所有设备元件，保护设备免遭外界污染，尤其适用于对环境要求较高的场合。

The filter adopts prepared shell case to cover all filter elements, protect equipment against external contamination, especially used for environment with high requirement.

技术参数 / Technical Parameters

型号 / Type	LYC-30C_*/**	LYC-50C_*/**	LYC-100C_*/**
额定流量 (l/min) / Rated Flow Rate	30	50	100
额定压力(mpa) / Rated Pressure	0.6		
原始压力损失(mpa) / Initial Pressure Loss	≤0.02		
粗过滤精度(μm) / Coarse Filter Precision	100		
精过滤精度(μm) / Fine Filter Precision	10 20 40		
工作温度(°C) / Working Temperature	0-80		
电机功率(kw) / Motor Power	0.75	1.5	2.2
电压(v) / Voltage	AC380V 三相 AC380V, 3 phases		
外形尺寸(mm) / Dimension	950x590x900	950x590x900	1102x850x1080

注/Note:

1: 为精过滤器的精度，如003为3微米。

2: 为所适用的介质，省略：一般液压油；BH：水-乙二醇；V：磷酸酯液压油。

3: 适用介质粘度≤160cSt

1:stands for fine filter precision, for example, 003 means 3 microns.

2:stands for applicable medium; No sign: general hydraulic oil; BH: water-glycol; V: phosphate ester.

3:stands for applicable medium viscosity ≤160cSt.

防爆型箱式移动滤油车/Explosion Proof Type

说明/Description

本机所有电器均采用防爆型，适用于石油、化工、航空航天等行业用来过滤汽油、柴油、煤油等易燃易爆介质的工作场所。

All filters electrical apparatus are explosion proof type, applicable to filter gasoline, diesel oil, kerosene and other flammable medium for petroleum, chemical, aviation and spaceflight industries.

技术参数 / Technical Parameters

型号 / Type	FLYC-30C_*/**	FLYC-50C_*/**	FLYC-63C_*/**	FLYC-100C_*/**
额定流量 (l/min) / Rated Flow Rate	30	50	63	100
额定压力(mpa) / Rated Pressure	0.6			
原始压力损失(mpa) / Initial Pressure Loss	≤0.02			
粗过滤精度(μm) / Coarse Filter Precision	100			
精过滤精度(μm) / Fine Filter Precision	10 20 40			
工作温度(°C) / Working Temperature	0-80			
电机功率(kw) / Motor Power	0.75	1.5	1.5	2.2
电压(v) / Voltage	AC380V 三相 AC380V, 3 phases			
外形尺寸(mm) / Dimension	950x 610 x 940	950x 610 x 940	1100 x 670 x 1100	1100 x 690 x 1120

注/Note:

1: 为精过滤器的精度，如003为3微米。

2: 为所适用的介质，省略：一般液压油；BH：水-乙二醇；V：磷酸酯液压油。

3: 适用介质粘度≤320cSt

1:stands for fine filter precision, for example, 003 means 3 microns.

2:stands for applicable medium; No sign: general hydraulic oil; BH: water-glycol; V: phosphate ester.

3:stands for applicable medium viscosity ≤320cSt.

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LYC-D SERIES EFFICIENT OIL PURIFIER LYC-D系列高效滤油车

产品特点/Product Characteristics

LYC-D系列高效滤油车采用新型环保的过滤元件，可以在多种场合，多种液体介质进行固体颗粒的高效过滤。

LYC-D series efficient oil purifier adopts new type eco-friendly filter media, which can be used in different working service to removal mechanical solids from different kind of oil liquid.

高效过滤材料的特点/Efficient filter media characteristics

- ▶ 滤除固体污染物速度快、效率高
- ▶ 滤材具有固定的孔隙结构，滤材无脱落。被拦截的污染颗粒不会因压差和流量的脉动而产生“卸料”
- ▶ 采用由表及里、沿流动方向逐渐缩小的渐变孔径结构，分层拦截不同尺寸的污染颗粒，实现体积纳垢，从而大大提高了使用寿命
- ▶ 采用螺旋缠绕带加强支撑，保证滤材的稳固
- ▶ Fast speed and high efficiency in filtering;
- ▶ Filter media, impossible to fall off, has fixed opening structure. The intercepted mechanical solids won't break filter media by sudden increase of differential pressure and flow;
- ▶ The filter element applies for gradient narrow structure, from outside to inside. With different layers, particle solids can be captured with all kinds of size. By such structure, it can greatly enlarge dirty holding capacity and increase service life;
- ▶ Fastened by spiral wound bands to keep filter media firm.

LYC-D系列高效滤油车的特点

- ▶ 电机缺相过载保护
- ▶ 吸油口粗过滤器保护油泵
- ▶ 出油口扩散器，防止空气混入油箱
- ▶ 万向轮使移动更加灵活、方便
- ▶ 增加集油盘和油管固定装置。减少环境污染
- ▶ 油泵带有溢流阀
- ▶ Motor lack phase or misphase protection
- ▶ Coarse filter to protect pump in suction orifice
- ▶ Orifice diffuser to prevent air from oil tank
- ▶ Universal wheel makes cart flexible and convenient
- ▶ Increase the oil collecting tray and tubing fixed installation
- ▶ Oil pump with overflow valve



产品应用/Product Application

- ▶ 液压润滑系统加油时的过滤
- ▶ 液压润滑系统工作时的旁路过滤
- ▶ 液压润滑系统投入运行前的循环过滤
- ▶ 液压润滑系统的油不经设备本身的泵过滤流出
- ▶ The oil infusion and purification for hydraulic and lubricant system
- ▶ As a by-pass filter in hydraulic and lubricant system during working
- ▶ Cycle filtering before operation of hydraulic and lubricant system
- ▶ The oil in hydraulic and lubricant system will not be discharged from filter pump.

技术参数 / Technical Parameters

型号 / Type	LYC-16D _/**	LYC-25D _/**	LYC-40D _/**	LYC-50D _/**	LYC-63D _/**	LYC-100D _/**
额定流量 (l/min) Rated Flow Rate	16	25	40	50	63	100
额定压力(mpa) Rated Pressure	0.6					
原始压力损失(mpa) Initial Pressure Loss	≤0.02					
过滤精度(μm) Fine Filter Precision	3 5 10 20 30 40					
工作温度(°C) Working Temperature	0-80					
电机功率(kw) / Motor Power	0.55	0.75	1.1	1.5	1.5	2.0
电压(v) / Voltage	AC380V 三相 50HZ/AC380V, 3 phases					

注/Note:

- 1: 为精过滤器的精度，如003为3微米
- 2: 为所适用的介质，省略：一般液压油；BH：水-乙二醇；V：磷酸酯液压油
- 3: 适用介质粘度≤320cSt
- 1: stands for fine filter precision, for example, 003 means 3 microns.
- 2: stands for applicable medium; No sign: general hydraulic oil; BH: water-glycol; V: phosphate ester.
- 3: stands for applicable medium viscosity ≤320cSt.

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LYC-F SERIES BARREL TYPE OIL PURIFIER LYC-F系列桶式运输过滤车

产品特点/Product Characteristics

LYC-F系列桶式运输过滤车可运输一个标准型油桶，从而解决油液在运输中的不便，车体自带油管自动卷盘和电子计量加油枪，可以方便观察过滤油液的过滤流量，设计简洁使用，移动方便，维护简单，具有噪音低，自吸能力强，运转平稳等特点。

管路设有安全阀，可有效保护液压系统的安全，防止电机过载所造成的电机损害；吸油口粗过滤可以保护油泵，并延长主过滤器的使用寿命；泵后设有精过滤器，使油液快速达到很高的清洁度；精过滤器可根据用户的需要，选择不同的过滤精度，达到所需要的效果。

设备壳体采用快开结构，不需要任何工具便能迅速打开上盖，更换滤芯。操作面板上装有压力表，在工作时连续指示系统的运行状况和滤芯的污染程度。

LYC-F series barrel type oil purifier can carry a standard barrel, which can greatly solve the inconvenience of oil transportation. There is an automatic tube reel and electric measuring compressor gun in the oil purifier, in order to watch flow rate of oil. It has the characteristic of practical design, easy move, simple maintain, low noise, high adsorption, stable operation, etc.

The pipeline is provided with safety valve, which can greatly protect safety of hydraulic pressure system, and prevent motor from damage caused by overloading. The coarse filter in suction orifice can protect oil pump and increase filter service life. There are two-stage fine filters in back of the pump, which can make oil achieve high cleanliness. We can design fine filter precision according to customer requirement, in order to achieve required service condition.

The filter shell adopts quick open structure, can rapidly open upper cover and replace filter cartridge without using any tools. The pressure gauge is installed on control panel to continuous indicate operation condition of system and pollution condition of cartridge during working.



产品应用/Product Application

- ▶ 液压润滑系统加油时的过滤
 - ▶ 液压润滑系统工作时的旁路过滤
 - ▶ 液压润滑系统投入运行前的循环过滤
 - ▶ 液压润滑系统的油不经设备本身的泵过滤流出
- ▶ The oil infusion and purification for hydraulic and lubricant system
 - ▶ As a by-pass filter in hydraulic and lubricant system during working
 - ▶ Cycle filtering before operation of hydraulic and lubricant system
 - ▶ The oil in hydraulic and lubricant system will not be discharged from filter pump

技术参数 / Technical Parameters

型号 / Type	LYC-16F _/**	LYC-25F _/**	LYC-40F _/**	LYC-50F _/**	LYC-63F _/**	LYC-100F _/**
额定流量 (l/min) Rated Flow Rate	16	25	40	50	63	100
额定压力(mpa) Rated Pressure	0.6					
原始压力损失(mpa) Initial Pressure Loss	≤0.02					
过滤精度(μm) Fine Filter Precision	3 5 10 20 30 40					
工作温度(°C) Working Temperature	0-80					
电机功率(kw) / Motor Power	0.55	0.75	1.1	1.5	1.5	2.2
电压(v) / Voltage	AC380V 三相 50HZ/AC380V, 3 phases					

注/Note:

- 1: 为精过滤器的精度，如003为3微米
 - 2: 为所适用的介质，省略：一般液压油；BH: 水-乙二醇；V: 磷酸酯液
 - 3: 适用介质粘度≤320cSt
- 1:stands for fine filter precision, for example, 003 means 3 microns.
2:stands for applicable medium; No sign: general hydraulic oil; BH: water-glycol; V: phosphate ester.
3:stands for applicable medium viscosity ≤320cSt.

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LYC-L SERIES MOVABLE OIL PURIFIER WITH AN OIL BOX LYC-L系列自带油箱型移动滤油车

产品特点/Product Characteristics

LYC-L系列自带油箱型移动滤油车可自带一个容量为130L的油箱，将自备油箱中的油经过循环过滤达到使用标准后，可以直接注入系统。该机尤其适用于含有伺服阀、溢流阀等精密元件的液压系统。

该设备有吸油过滤器、一级精过滤器、二级精过滤器等三级过滤系统，可以满足各种不同的工作条件。设备管路设有溢流保护装置，可有效保护液压系统的安全。

LYC-L series movable oil purifier is provided with a 130L oil box; when oil liquid in the box is purified after circular filtering, it can be directly infused into system. The oil purifier is mainly used for hydraulic pressure system with precision parts, such as servo valve, overflow valve, etc.

The oil purifier is equipped with suction oil filter, 1st fine filter, 2nd fine filter and 3rd fine filter system, applicable for different working condition. The pipeline is also provided with overflow protection device, can efficiently protect safety of hydraulic pressure system.



产品应用/Product Application

- ▶ 液压润滑系统加油时的过滤
- ▶ 液压润滑系统工作时的旁路过滤
- ▶ 液压润滑系统投入运行前的循环过滤
- ▶ 液压润滑系统的油不经设备本身的泵过滤流出

- ▶ The oil infusion and purification for hydraulic and lubricant system
- ▶ As a by-pass filter in hydraulic and lubricant system during working
- ▶ Cycle filtering before operation of hydraulic and lubricant system
- ▶ The oil in hydraulic and lubricant system will not be discharged from filter pump

技术参数 / Technical Parameters

型号 / Type	LYC-30L _/**	LYC-50L _/**	LYC-100L _/**
额定流量 (l/min) / Rated Flow Rate	30	50	100
额定压力(mpa) / Rated Pressure	0.6		
原始压力损失(mpa) / Initial Pressure Loss	≤0.02		
粗过滤精度(μm) / Coarse Filter Precision	100		
一级精过滤精度(μm) / 1st Fine Filter Precision	10 20 40		
二级精过滤精度(μm) / 2nd Fine Filter Precision	3 5 10		
工作温度(°C) / Working Temperature	0-80		
电机功率(kw) / Motor Power	0.75	1.5	2.2
电压(v) / Voltage	AC380V 三相/AC380V, 3 phases		
外形尺寸(mm) / Dimension	1000x610x940	1000x610x940	950x610x940

注/Note:

1: 为精过滤器的精度, 如003为3微米

2: 为所适用的介质, 省略: 一般液压油; BH: 水-乙二醇; V: 磷酸酯液压力

3: 适用介质粘度≤320cSt

1:stands for fine filter precision, for example, 003 means 3 microns.

2:stands for applicable medium; No sign: general hydraulic oil; BH: water-glycol; V: phosphate ester.

3:stands for applicable medium viscosity ≤320cSt.

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LYC-J SERIES COALESCE & SEPARATING OIL PURIFIER LYC-J系列聚结脱水滤油机

产品应用/Product Application

- ▶ 汽轮机油及变压器油的净化
- ▶ 液压润滑系统油的除水及除杂质过滤
- ▶ 接入液压润滑系统全面提高系统的清洁度
- ▶ Purification for gas engine oil and transformer oil
- ▶ To remove water and impurities from oil liquid in hydraulic and lubricant system
- ▶ Connect with hydraulic and lubricant system to completely increase cleanliness of system

技术原理/Technical Principle

不同的液体有着不同的表面张力，而液体流过小孔时，表面张力越小，所通过的速率就越快。当不同相混合液体流入分离器后，首先进入聚结滤芯，聚结滤芯具有多层过滤介质，其孔径逐层递增。由于表面张力的差异，油液快速通过滤层，而水却缓慢得多；又由于聚结滤芯采用亲水性材料，微小的水滴更是吸附在滤层表面而造成水滴的聚结。受动能的作用，小液滴竞相通过开孔，逐渐汇成大的液滴，并在重力的作用下沉降而与油液分离。通过聚结滤芯后的油液，仍有尺寸较小的水珠在惯性的作用下向前至分离滤芯处。分离滤芯由特殊的疏水材料制成，在油液通过分离滤芯时，水珠被挡在滤芯的外面，而油液则通过分离滤芯，并从出口排出。

Since different liquids have different surface tension, so when liquids flow across the small orifice, if surface tension is smaller, the flow speed will be faster. When different liquids are mixed and flow into separator, firstly it will pass through coalesce filter cartridge, which is made of multi-layers of filter medium and gradually increased diameter. Due to difference in surface tension, the oil will pass through filter layer rapidly, but water is slowly. Because coalesce filter cartridge adopts hydrophilic material, so the little water drips will be coalesced on filter layer surface. With energy effect, the little drips will pass through openings, gradually form to large drips, sink down and separate with oil liquid for the reason of gravity. When oil liquid pass through coalesce cartridge, the remaining small size of water drips are moving forward to separating cartridge. The separator filter cartridge adopts special water repellent material, when oil liquid flow across the cartridge, the water drips will be separated outside of cartridge, the oil will pass through the cartridge and discharge from outlet



产品性能/Product Characteristics

油液中存在水会引起氧化，使油液变质；减小润滑油膜厚度，降低润滑性；引起油液变性聚合而形成大分子，使液体粘度改变；形成有机酸，腐蚀金属表面；降低或丧失油液介电强度。我公司研制的聚结分离式滤油机集精密过滤和高效脱水两种功能为一体，可有效清除油液中的颗粒杂质和乳化水、游离水，对于含大量水分的油液（最高可达到15%），其分离速度是传统分离方法的几倍到几十倍。

Moisture existing in oil liquid will lead to oxidation so as to make oil deteriorated; reduce the membrane thickness of lubricating oil in order to decrease the lubricity; causing oil liquid polymerization to form large molecules so as to change oil viscosity; forming organic acid to corrode metal surface and reduce or lose the dielectric strength. The LYC-type turbine oil purifier, developed and produced by our company, has both functions of precision filtration and high efficiency dehydrating. It can purge the particles, emulsified moisture and free moisture contained in the oil liquid. For oil liquid with high moisture content that maximum content up to 15%, the separating efficiency is several times up to scores of times of traditional method.

系统特点/System Characteristics

集精密过滤及高效脱水两种功能为一体，应用先进的“聚结分离”技术，针对煤油、柴油、汽轮机油、变压器油等油品的特征，以及介质表面张力的不同来进行脱水，脱水效率高、能力强，尤其对油液中大量的水进行分离，具有真空法、离心法无可比拟的优点，可破除介质中全部的油水乳化结构；通过颗粒过滤系统三级滤芯过滤，可将介质的清洁度稳定的控制在系统要求状态，以保证油液的清洁度；不改变油液的物理、化学性质，延长油液的使用寿命；能耗小，运行费用低；系统配置优良，连续工作性能强，适合在线运行。

The system has both functions of precise filtration and high-efficiency dehydration, and adopts the advanced coalescing and separating technology to dehydrate kerosene, diesel oil, turbine oil and transformer oil according to the characteristics of oil and surface tension of medium. The filtration system can high-efficiently separate moisture contained in oil liquid and has exclusive advantages comparing with vacuum and centrifugation ways. It also can explode the emulsified structures of oil & moisture contained in medium. The medium cleanness will be controlled in system required condition steadily through three steps of cartridge filtering, so as to keep the cleanness of oil without changing oil physical and chemical properties and increase the oil service life. The equipment is very suitable for on-line operation with lower energy loss and operation cost, perfect configuration and strong working continuity.

颗粒过滤系统/Particle Altering System

采用高效滤材作为过滤介质，超大过滤面积设计，可有效滤除极细微的颗粒杂质，使油品达到很高的清洁度。

Adopt high-efficiency filter material as the filter medium and design with super-large filter area, can efficiently filter extremely fine particles so as to make oil liquid reach a high degree of cleanliness.

聚结脱水系统/Coalescing Dehydrating System

聚结脱水系统由聚结滤芯组成，聚结滤芯采用了独特的极性分子结构，油液中的游离水及乳化水在通过过滤后经破乳聚结成较大的水滴，在重力的作用下沉降于储水罐中。

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LYC-J SERIES COALESCE & SEPARATING OIL PURIFIER LYC-J系列聚结脱水滤油机

聚结脱水系统/Coalescing Dehydrating System

The coalescing dehydrating system is composed of coalescing cartridges, which apply special polar molecule structure. The free moisture and emulsified moisture will demulsify and coalesce into big water drips after filtering. The water drips through its weight can subside into to the water storage tank.

分离脱水系统/Separating Dehydration System

聚结脱水系统由聚结滤芯组成，聚结滤芯采用了独特的极性分子结构，油液中的游离水及乳化水在通过过滤后经破乳聚结成较大的水滴，在重力的作用下沉降于储水罐中。

The coalescing dehydrating system is composed of coalescing cartridges, which apply special polar molecule structure. The free moisture and emulsified moisture will demulsify and coalesce into big water drips after filtering. The water drips through its weight can subside into to the water storage tank.

技术参数 / Technical Parameters

型号 / Type	FLYC-30J_*/**	FLYC-50J_*/**	FLYC-100J_*/**	FLYC-150J_*/**
额定流量 (l/min) / Rated Flow Rate	30	50	100	150
额定压力(mpa) / Rated Pressure	0.6			
原始压力损失(mpa) / Initial Pressure Loss	≤0.1			
粗过滤精度(μm) / Coarse Filter Precision	100			
一级精过滤精度(μm) / 1st Fine Filter Precision	10 20 40			
二级精过滤精度(μm) / 2nd Fine Filter Precision	3 5 10			
脱水效率/Dehydrating Rate	≤100			
工作温度(°C) / Working Temperature	20-70			
电机功率(kw) / Motor Power	0.55	1.1	1.5	4.0
电压(v) / Voltage	AC380V 三相/AC380V, 3 phases			
外形尺寸(mm) / Dimension	1450x880x1360	1500x880x1460	1890x960x1630	1950x1100x1630

注/Note:

1: 为精过滤器的精度, 如003为3微米

2: 为所适用的介质, 省略: 一般液压油; BH: 水-乙二醇; V: 磷酸酯液压油

3: 适用介质粘度 ≤ 320cSt 介质粘度 > 100cSt, 需要增加加热装置

1: stands for fine filter precision, for example, 003 means 3 microns.

2: stands for applicable medium; No sign: general hydraulic oil; BH: water-glycol; V: phosphate ester.

3: stands for applicable medium viscosity ≤ 320 cSt. When medium viscosity is greater than 100cSt, the thermal device shall be required.

DZJA SERIES MULTI-FUNCTIONAL VACUUM OIL PURIFIER DZJA系列多功能真空滤油机

产品特点/Product Characteristics

DZJA多功能真空滤油机是我公司在引进吸收国外油净化装置技术的基础上，研制开发的新一代油液净化设备，由PLC集成控制，操作方便快捷，可有效的进行脱气、脱水、破乳、脱酸和净化机械杂质，使过滤油液符合用油标准。这种滤油机可广泛用于电力系统的气轮机油、变压器油、磷脂酸抗燃油及冶金、石化、机械、航空等行业的油液再生净化。

DZJA type multi-functional vacuum oil purifier is the newly oil purifying equipment, developed and manufactured by our company, based on advanced overseas filtration technology, which is controlled by PLC and easy to operate. The purifier can efficiently degas, dehydrate, emulsify, de-acidify, and filter mechanical impurities. The oil filtered conforms to the oil used standard. The purifier is applicable for purifying steam turbine oil, transformer oil, PA fire-resistant oil of power system, and for oil filtration of metallurgy, petrochemical, engineering and aviation & space industries.

清除水/Moisture Removal

油中有游离水和溶解水，通过降低润滑性，氧化和形成酸而使油液变质；不含水的油液即使暴露于高温也不容易氧化和形成有机酸。有机酸化合物的存在导致腐蚀。水加快油液的热降解而生成颗粒或含碳物质。水的存在还会引起油液聚合而形成大分子。聚合作用造成粘度改变，生成堵塞节流孔和使系统元件磨损产生有害的固体。DZJA型多功能真空滤油机能够清除100%的游离水和75%以上的溶解水。在绝缘油中，此过滤水可防止由带电颗粒的搭桥作用引起的电气击穿。

If oil contains the free moisture and dissolved moisture, it will be deteriorated by reducing lubricity, oxidation and making organic acid; if oil contains no moisture, it will not produce oxidation and organic acid even exposed under high temperature. The organic acid compound will cause corrosion. The moisture content will increase oil thermal degradation, thereby generate particles or carbonaceous substances; the moisture content also will cause oil polymerization to become large molecules. The polymerization will change oil viscosity and generate harmful solid which will block orifice and attack system elements. DZJA type multi-functional vacuum oil purifier can remove 100% free moistures and above 75% dissolved moisture. For insulating oil, the filtered moisture can prevent electric breakdown caused by bridge function of electric particles.

清除空气/Air Removal

DZJA型多功能真空滤油机能够清除100%的游离(混入)空气和多达75%的溶解空气，空气在油液通过真空塔时被清除，其他气体被减少到微量，视循环时间而定。

DZJA type multi-functional vacuum oil purifier can remove 100% free (mixed) air and 75% dissolved air, when oil pass through the vacuum tower, the air can be removed and other gas can be minimized depending on cycle time.

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DZJA SERIES MULTI-FUNCTIONAL VACUUM OIL PURIFIER DZJA系列多功能真空滤油机

清除固体颗粒/Solid Particles Removal

为了清除悬浮的颗粒性物质，DZJA型多功能真空滤油机通过三级过滤滤除引起轴承、泵和阀中的机械磨损的颗粒，它还能够清除可能聚积在阀芯和阀套之间的间隙中并引起电液阀中的卡紧和不稳定的淤泥。

In order to remove suspended particles, the DZJA type multi-functional vacuum oil purifier use three stages filtration to clean particles which will cause mechanical wears of bearing, pump and valve; it also can remove sits assembled between valve spool and valve housing which will cause clamping and instabilities of electro-hydraulic valve.

产品应用/Product Application

- ▶ 汽轮机油及变压器油的净化
- ▶ 液压润滑油的除水及除杂质过滤
- ▶ 液压润滑系统清洁度的全面提高
- ▶ 各类油品的再生净化
- ▶ 多功能真空滤油机主要功能：脱水、脱气、去除机械杂质
- ▶ 与再生装置并联还可：除酸、脱色、提高绝缘强度
- ▶ Purification for gas engine oil and transformer oil
- ▶ To remove water and impurities from oil liquid in hydraulic and lubricant system
- ▶ Complete improve cleanliness of hydraulic and lubricant system
- ▶ Regeneration and purification for all kinds of oil products
- ▶ Main functions of multiple functional vacuum oil purifier: Dehydrations Degas, Remove mechanical impurities
- ▶ If connect with regeneration device, the oil purifier also can: Decide, Decolor Increase insulation strength



工作原理/Work Principle

不同的液体有着不同的饱和蒸气压。在70°C的温度下，水大约在30000Pa压力下开始沸腾，而油则在5Pa的低压下才能沸腾。在相同的温度下，油的饱和蒸气压比水要低得多。因此，通过抽真空将油液液面的压力降低到水的饱和蒸气压以下时，则油液中的水将发生剧烈的气化，并以蒸汽的形式从油中溢出。

通过真空的吸力，油液从顶部进入真空罐内并通过喷嘴喷淋而下，油液中的水分在真空室内气化并被真空泵抽出，除水后的油液从底部排出。在真空室的中部填有亲油材料，使喷淋下来的油液分散在填充材料表面而形成很薄的油膜，以增大气液两相界面面积，并延长油液在气相空间中停留的时间。

真空除水的效果主要与工作真空度和油液温度有关。真空度越低，温度越高，除水效果越好。油温一般为60°C左右，温度过高将加速油液的氧化。对于液压油，真空度一般在600~700Pa，可使油中的含水量降至100ppm以下。对于变压器绝缘油，可采用更高的真空度，含水量可降到10ppm。真空脱水能够有效去除油液中各种状态的水，并能去除油液中的空气和各种挥发性物质。

Work Principle

Different liquids have different saturated vapour pressure. At 70°C temperature, water will be boiled at 30000pa, and oil will be boiled at 5Pa. So with same temperature, the saturated vapour pressure of oil is lower much than water. Thus, when oil level pressure is reduced below saturated vapour pressure of water through vacuum, the water existing in oil will be gasified acutely, and flood from oil by means of vapour.

With the suction of vacuum, the oil liquids will flow into vacuum tank from the top, then spray down through nozzle; the moisture existing in oil will be gasified in vacuum chamber and extracted out by vacuum pump, finally the purified oil will be discharged from bottom. There are some lipophile materials filled in middle of vacuum chamber, to make sprayed oil spreading on material surface, so as to form thinner oil film, to increase atmosphere-liquid interface area, and delay the time of oil existing in gas phase space.

The moisture removal with vacuum process depends on degree of working vacuum and oil temperature. The moisture removal will be better when vacuum degree is lower and oil temperature is higher. The oil temperature is normally at about 60°C, the over-temperature will increase oxidation of oil liquid. For hydraulic oil, the vacuum degree is generally at 600 ~ 700Pa that can make water content reduced below 100ppm. For insulation oil of transformer, the higher vacuum can be used; the water content can be reduced to 10ppm.

Vacuum dehydration can effectively remove all kinds of moisture existing in oil; also can remove air and volatile matters in oil liquid.

系统特点/System Characteristics

真空系统/Vacuum System

由真空罐、真空泵、冷凝罐、积液罐、补气系统组成。采用优化结构设计，极大地增加了油液在真空系统中的表面积，并最大限度地延长了油液在真空系统中的行程。使油中的水分和气体得到充分溢出。本机采用先进的消沫系统，使滤油机在工作时绝不会出现同类产品普遍出现的喷油现象。

The vacuum system is composed of vacuum tank, vacuum pump, condensate tank, fluid container and air injection system. It adopts optimized structure design, greatly increase the oil surface area in vacuum system, and extremely extend the travel space of oil in vacuum system, to make water and gas sufficiently overflow from oil liquid. The oil purifier adopts advanced foam removal system to avoid oil spouting during working.



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DZJA SERIES MULTI-FUNCTIONAL VACUUM OIL PURIFIER DZJA系列多功能真空滤油机

过滤系统/Filtering System

采用三级过滤，吸油口粗过滤器保护油泵并延长主过滤器的使用寿命。泵后设有两级精过滤器，使油液快速达到很高的清洁度。滤材采用特种渐变孔径玻璃纤维材料，可分层过滤不同粒径的颗粒，极大地提高了滤芯的使用寿命。具有完善的滤芯结构，可有效降低滤材的表面流速，获得稳定的过滤精度。

The filter system adopts three-stage filtration, the coarse filter is installed in suction orifice to protect oil pump and extend filter service life. There are two-stage fine filters installed behind the pump, to make oil rapidly achieve high cleanliness. The filter material adopts gradual increased pore glass fiber, can filter different particle size by multi-layers, and extremely improve the service life of filter cartridge. It has perfect structure, can effectively reduce flow rate and certain precision of filter.

加热系统/Heating System

采用分段逐级加热，表面热负荷小于 $1.0W/cm^2$ ，不会过热引起油液变质。油温可在 $0\sim 100^{\circ}C$ 任意调节，自动控制，并设有保护装置，当进油量过少时自动停止工作，避免干烧引起加热器的损坏。

It adopts segment heating; the oil liquid will not be deteriorated when hot charge is lower than $1.0W/cm^2$. The oil temperature can be adjusted at the range of $0\sim 100^{\circ}C$, auto controlled, and equipped with protection device. When oil quantity is too less, the system will stop work, to avoid heater damaged.

自动控制系统/Auto Control System

本机采用变频器、液位变送器、温度传感仪、真空度传感仪等一系列自动控制仪表采集设备运行的各种信息，交由中心、处理器进行处理，自动控制整套设备的运行并监视设备的运行状况。本机带有各种保护装置（过载保护、过压保护、相序保护、异常运行停机保护），可确保设备安全运行。

The system adopts transducer, level transformer, temperature sensor, vacuum sensor and other series of auto control instrument, to collect information of oil purifier during operation, then send to central processor to manage, in order to auto-control equipment operation and monitor working condition. The oil purifier is equipped with various kinds of protection device, such as overload protection, over pressure protection, abnormal operation emergency protection, can ensure equipment safety operation.



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整机结构/Integral structure

整机一体化桥架结构，减小了体积。采用整体可拆卸油槽，保证地面无油作业，减少环境污染。有移动式、固定式、全封闭式、车载式等多种型号可供选择。

The oil purifier adopts bridge structure to reduce its volume. It uses knock down oil groove to ensure ground without oil, avoid environment pollution. It has movable type, fixed type, full closed type, car load type.

技术参数 / Technical Parameters

型号 / Type	DZJA-20_*/**	DZJA-50_*/**	DZJA-100_*/**	DZJA-150_*/**
额定流量(L/min)/Rated Flow Rate	20	50	100	150
额定压力(Mpa)/Rated Pressure	0.6			
原始压力损失(Mpa)/Initial Pressure Loss	≤ 0.02			
工作真空度(Mpa)/Degree of Vacuum	≤ -0.095			
滤后含水量(ppm)/Moisture Contents	5-30			
滤后含气量(体积比)/Gas Content (vol. ratio)	$\leq 0.2\%$			
精过滤精度(μm)/Fine Filter Precision	3 5 10			
酸值(mgKOH/g)/Acid Number	0.03			
工作温度($^{\circ}C$)/Working Temperature	40-70			
电机功率(kw)/Motor Power	1.65	3.3	7.7	16
电压(V)/Voltage	AC380V 三相/AC380V, 3 phases			
外形尺寸(mm)/Dimension	1460x980x1495	1870x1240x1870	1460x980x1495	2320x1610x2330

注/Note:

1: 为精过滤器的精度，如003为3微米

2: 为所适用的介质，省略：一般液压油；BH：水-乙二醇；V：磷酸酯液液

3: 适用介质粘度 $\leq 320cSt$ 介质粘度 $> 100cSt$ ，需要增加加热装置

1: stands for fine filter precision, for example, 003 means 3 microns

2: stands for applicable medium; No sign: general hydraulic oil; BH: water-glycol; V: phosphate ester

3: stands for applicable medium viscosity $\leq 320 cSt$. When medium viscosity is greater than $100cSt$, the thermal device shall be required

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