CASINSEAL

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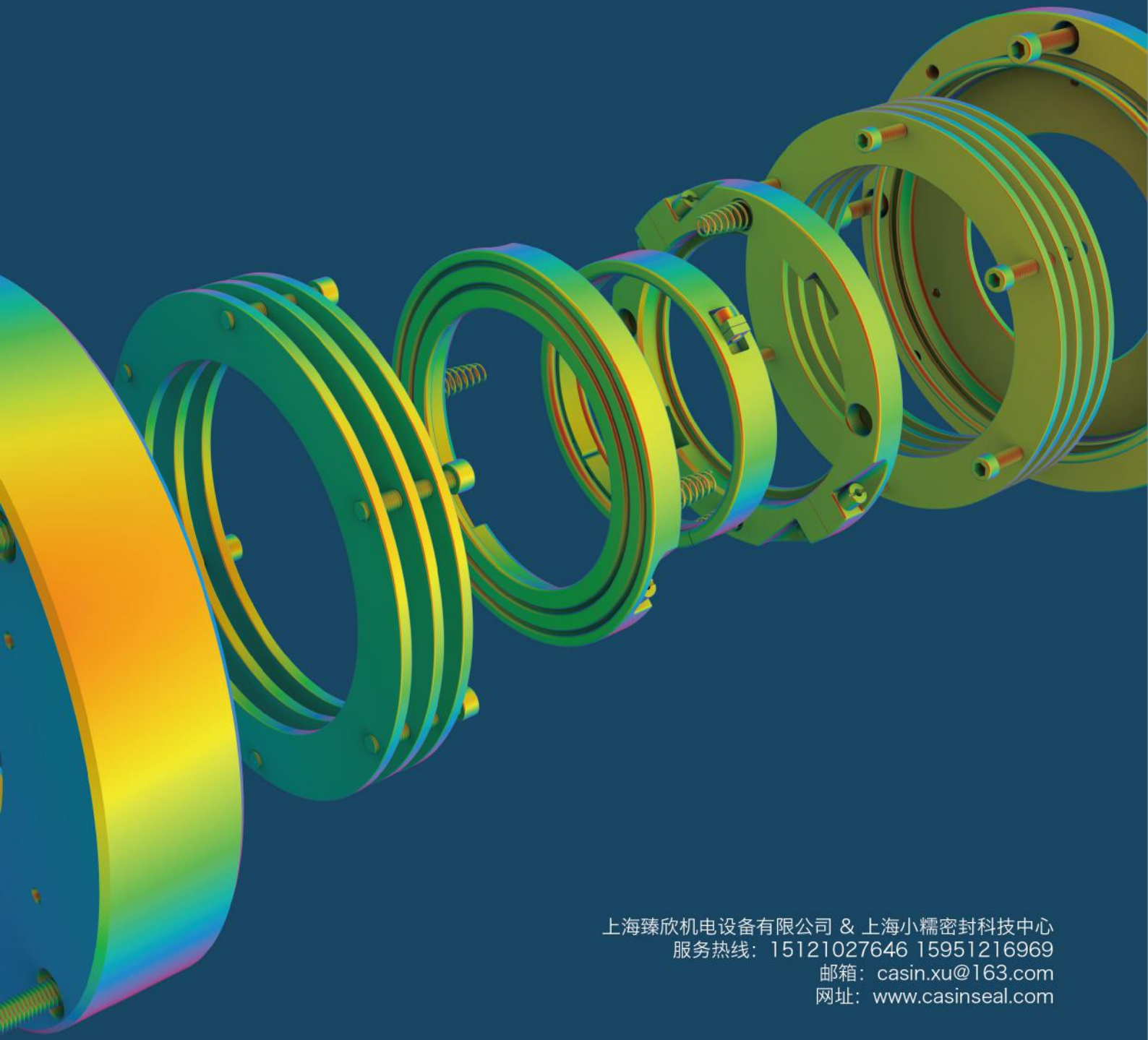
旋转轴封

CASINSEAL Rotary Shaft Seal



上海臻欣机电设备有限公司 & 上海小糯密封科技中心
服务热线：15121027646 15951216969
邮箱：casin.xu@163.com
网址：www.casinseal.com

CASINSEAL 旋 转 轴 封
CASINSEAL Rotary Shaft Seal

简介

CASINSEAL高性能旋转轴封是用全球顶尖材料和工艺精心打造的新一代高效专利密封产品。

CASINSEAL高性能旋转轴封性能先进，适用于各种粉体和浆液设备的密封。广泛应用于食品、制药、化工、冶金行业的混合搅拌，干燥，结晶，输送等设备。CASINSEAL高性能旋转轴封具有很高的性价比，是传统密封的升级替代产品。

CASINSEAL轴封安装维护无需拆除减速机和轴承座；适用于需要经常拆开清洗的食品、制药设备。浮动式动环与主轴同步转动，可以有效解决填料密封易于泄漏甚至损伤轴径的问题；可以有效解决唇口密封和机械密封维修更换困难的问题。

CASINSEAL高性能旋转轴封包括TC、TS、LC、LS四个系列。轴向密封为静密封，径向密封为动环和静环形成的端面密封。

TS、LS系列旋转轴封各集成数片离子硬化不锈钢摩擦环。离子硬化不锈钢静环表面硬度高达1200HV，耐磨性能优异。动环可以安装在任意相邻的两片摩擦环中间，形成全新的密封端面从而达到数倍使用寿命。

TC、LC系列旋转轴封主要用于对金属异物极其敏感电池行业。动环和静环都由高功能工程塑料制成。

轴封静环、动环由符合美国FDA 21 CFR 177.1550的F805 Filled PTFE 和符合FDA 21 CFR 177.2415 的QK 1000 PEEK, 离子硬化不锈钢等高功能材料料制成；O型圈和轴套材质采用食品级硅胶、氟胶；卡箍、轴封座和轴封端盖材质采用304或316不锈钢。

Brief Introduction

CASINSEAL high-performance rotary shaft seals are a new generation of high-efficiency patented sealing products crafted from the world's top materials and processes.

CASINSEAL high-performance rotary shaft seals are suitable for sealing various powder and slurry equipment. Widely used in food, pharmaceutical, chemical, metallurgical industries for mixer, dryer, crystallization and transportation equipment. CASINSEAL high-performance rotary shaft seals are highly cost-effective and are an upgrade alternative to traditional seals.

CASINSEAL shaft seals can be installed and maintained without remove gearboxes and bearing unit; and are suitable for food and pharmaceutical equipment that requires frequent disassembly and cleaning. The floating rotor rotating together with the shaft, which can solve the leaking and shaft damaging problems of packing seal. It also can solve the difficulty of repair and replacement for lip seals and mechanical seals.

CASINSEAL high-performance rotary shaft seals include four series: TC, TS, LC, LS. The axial seal are static seal, and the radial seals are face seal formed by the rotors and stators.

Each TS & LS series rotary shaft seals integrated several pieces of Plasma Hardening SUS Stators. The hardness of the Plasma Hardening SUS Stators up to 1200HV, which has excellent wear resistance. The rotor can be installed between any two adjacent stators to form a new seal face to achieve times of the service life.

TC, LC series rotary shaft seals are special designed for the battery industry which is extremely sensitive to metal objects. Both the rotors and stators are made of high performance plastics.

Stators and rotors are made of high performance FDA complied F805 Filled PTFE and FDA complied QK 1000 PEEK, Plasma Hardening SUS etc. Shaft Adapter and O-rings are made of FDA complied Silicon. Clamp、Seat and Cover are made of SUS 304 or SUS316 etc.

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TS系列旋转轴封集成7片离子硬化不锈钢摩擦环。工作温度≤150℃，工作压力：-0.95-3.0Bar，适用线速度2.0m/s. 加装冷却和隔热装置TS轴封线速度可达3m/s，工作温度可达400℃以上。可以用于高速混合机等转速要求较高的设备。

TS series rotary shaft seal integrates 7 pieces of Plasma Hardening SUS Stators. Working temperature: -0.95-3.0Bar, Line speed 2.0m/s. The line speed of TS rotary shaft seal with water-cooled and insulation up to 3m/s, Working temperature of more than 400C. Can be used for high-speed mixers and other equipment with high speed requirements.

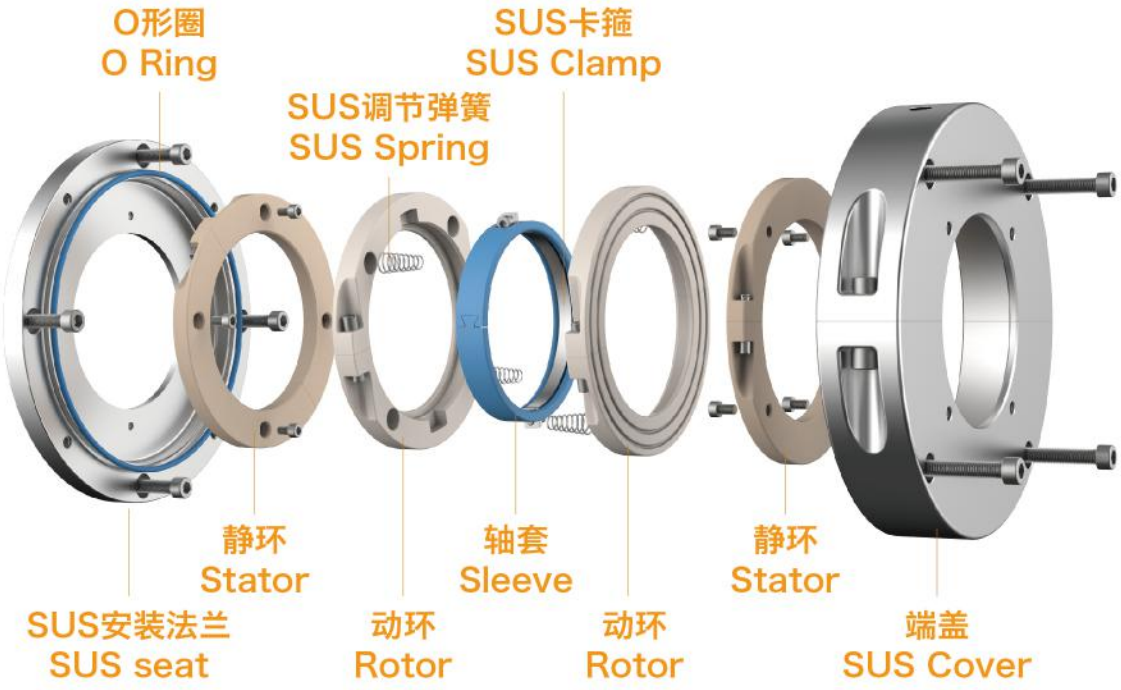
CASINSEAL高性能旋转轴封TS系列

CASINSEAL 旋 转 轴 封
CASINSEAL Rotary Shaft Seal

TC轴封静环、动环由符合美国FDA 21 CFR 177.1550的F805 Filled PTFE 和符合FDA 21 CFR 177.2415 的QK 1000 PEEK制成。轴封安装法兰、静环、动环、端盖均可做成剖分式结构，维修更换简便易行，也用于设备填料密封、骨架油封及机械密封的现场免拆机升级替换。工作温度-60~120℃，工作压力：-0.6~2.0Bar，线速度0~1.2m/s。

TC Stators and TC rotors are made of F805 PTFE and QK 1000 PEEK. Seat, stators, rotors, and cover can be made into split structure, which is easy to repair and replace. It is also suitable for onsite seal replacement for packing seals, lip seals and mechanical seals without demolition machine. Working temperature: -60~120℃, Working pressure: -0.6~2.0 Bar, Line speed 0~1.2m/s.

CASINSEAL高性能旋转轴封TC系列



CASINSEAL 旋 转 轴 封
CASINSEAL Rotary Shaft Seal

LS系列旋转轴封集成4片离子硬化不锈钢摩擦环，具有卓越的性价比，使用成本相对低廉。特别适合挤出机、绞龙、旋转阀等小轴径设备使用。工作温度-60~150℃，工作压力：-0.95~3.0Bar，线速度0~2.0m/s. 带水冷的TS轴封线速度可达3m/s，工作温度可达300℃以上。

LS series rotary shaft seal integrates 4 pieces of Plasma Hardening SUS Stators with lower cost. Especially suitable for extruder, conveyor, rotary valve and other small shaft diameter equipment. Working temperature: -60~150℃, Working pressure:-0.95~3.0Bar, Line speed 0~2.0m/s. TS shaft seal speed with water-cooled up to 3m/s, Working temperature of more than 300C. Can be used for high-speed mixers and other equipment with high speed requirements.

CASINSEAL高性能旋转轴封LS系列

CASINSEAL 旋 转 轴 封
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LC系列旋转轴封集成4片QK 1000 PEEK摩擦环，具有卓越的性价比，使用成本相对低廉。特别适合电池行业的绞龙、旋转阀等小轴径设备使用。工作温度: -60~120℃，工作压力：-0.6-2.0Bar，线速度0~1.2m/s.

LC series rotary shaft seals integrates 4 pieces of QK1000 PEEK Stators with lower cost. Especially suitable for the battery industry conveyors, rotary valves and other small shaft diameter equipment. Working temperature: -60~120℃, Working pressure: -0.6-2.0 Bar, Line speed 0~1.2m/s.

CASINSEAL高性能旋转轴封LC系列

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上海臻欣机电设备有限公司 & 上海小糯密封科技中心
服务热线：15121027646 15951216969 邮箱：casin.xu@163.com 网址：www.casinseal.com

FDA报告

NSF International

Result Summary

NSF (Shanghai) Testing Technology Co., Ltd.
Unit D/F, 1 Floor, Building 10, 1155 Lianhang Road,
Minhang District, Shanghai, China
Tel: +86.21.3420.6399 | Fax: +21.3420.6299
www.nsfchinalab.org

Send To: C0436213

Shanghai Zhenxin Electro-Mechanical Equipment Co., Ltd.
No. 15, 1688 Lane East Gongyuan Road
Qingpu District, Shanghai, China

Facility: C00436214

Shanghai Zhenxin Electro-Mechanical Equipment Co., Ltd.
No. 15, 1688 Lane East Gongyuan Road
Qingpu District, Shanghai, China

Result	**Complete**
Report Date	20-Sep-2018
Customer Name	Shanghai Zhenxin Electro-Mechanical Equipment Co., Ltd.
Description	Seal Ring
Product material	F805 Filled PTFE
Model Name	ϕ120
Test Type	Test Only
Job Number	J-00307567
Sample Reception Date	12-Sep-2018
Testing Date	12-Sep-2018~20-Sep-2018

Summary of Results

Testing Parameters and Standards	Result
1) Determination of total extractives residue according to US FDA 21 CFR 177.1550	Complete
2) Determination of fluoride extractives according to US FDA 21 CFR 177.1550	Complete

Report Authorization

Rex Zhang - Laboratory Technician
NSF (Shanghai) Testing Technology Co., Ltd.

Date 20-Sep-2018

FI20180920035118 J-00307567 Page 1 / 3

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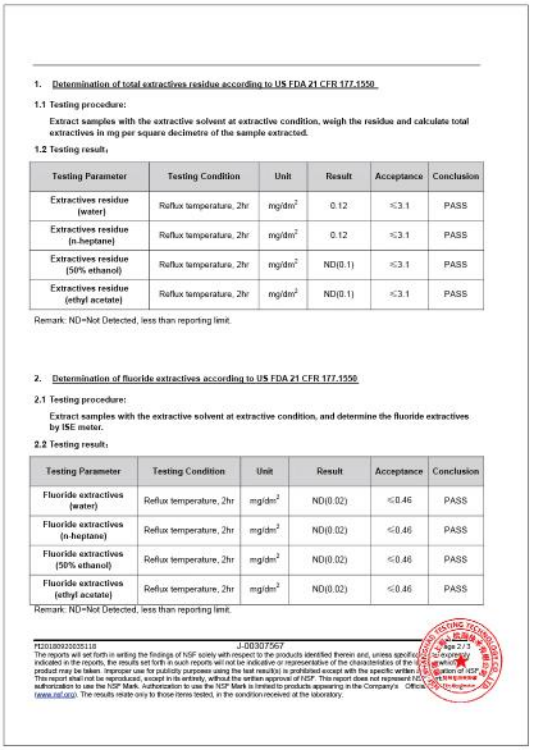


1. Determination of total extractives residue according to US FDA 21 CFR 177.1550

1.1 Testing procedure:

Extract samples with the extractive solvent at extractive condition, weigh the residue and calculate total extractives in mg per square decimetre of the sample extracted.

1.2 Testing result:

Testing Parameter	Testing Condition	Unit	Result	Acceptance	Conclusion
Extractives residue (water)	Reflux temperature, 2hr	mg/dm²	0.12	≤3.1	PASS
Extractives residue (n-heptane)	Reflux temperature, 2hr	mg/dm²	0.12	≤3.1	PASS
Extractives residue (50% ethanol)	Reflux temperature, 2hr	mg/dm²	ND(0.1)	≤3.1	PASS
Extractives residue (ethyl acetate)	Reflux temperature, 2hr	mg/dm²	ND(0.1)	≤3.1	PASS

Remark: ND=Not Detected, less than reporting limit.

2. Determination of fluoride extractives according to US FDA 21 CFR 177.1550

2.1 Testing procedure:

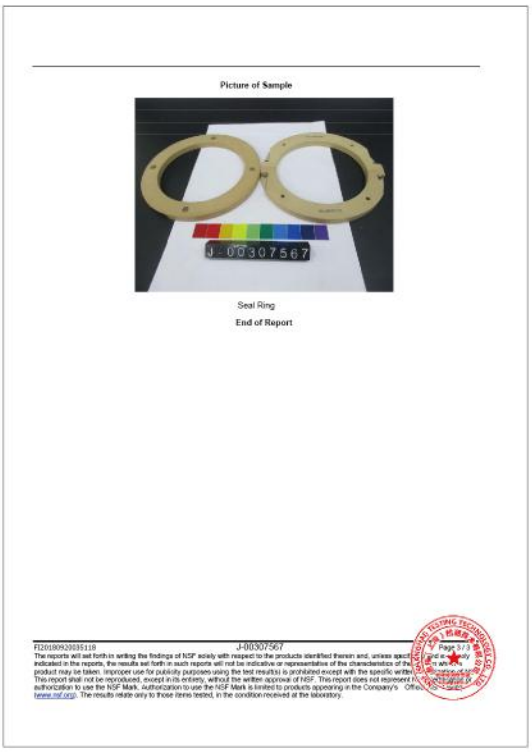
Extract samples with the extractive solvent at extractive condition, and determine the fluoride extractives by ISE meter.

2.2 Testing result:

Testing Parameter	Testing Condition	Unit	Result	Acceptance	Conclusion
Fluoride extractives (water)	Reflux temperature, 2hr	mg/dm²	ND(0.02)	≤0.46	PASS
Fluoride extractives (n-heptane)	Reflux temperature, 2hr	mg/dm²	ND(0.02)	≤0.46	PASS
Fluoride extractives (50% ethanol)	Reflux temperature, 2hr	mg/dm²	ND(0.02)	≤0.46	PASS
Fluoride extractives (ethyl acetate)	Reflux temperature, 2hr	mg/dm²	ND(0.02)	≤0.46	PASS

Remark: ND=Not Detected, less than reporting limit.

FI20180920035118 J-00307567 Page 2 / 3



Picture of Sample

Seal Ring

End of Report

FI20180920035118 J-00307567 Page 3 / 3

FDA报告

NSF International

NSF (Shanghai) Testing Technology Co., Ltd.
Unit D/F, 1 Floor, Building 10, 1188 Lianhang Road,
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Tel: +86.21.3428.6300 | Fax: +21.3428.6299
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Result Summary

Send To: C0436213
Shanghai Zhenxin Electro-Mechanical Equipment Co., Ltd.
No. 15, 1688 Lane East Gongyuan Road
Qingpu District, Shanghai, China

Facility: C0436214
Shanghai Zhenxin Electro-Mechanical Equipment Co., Ltd.
No. 15, 1688 Lane East Gongyuan Road
Qingpu District, Shanghai, China

Result	Complete
Report Date	20-Sep-2018
Customer Name	Shanghai Zhenxin Electro-Mechanical Equipment Co., Ltd.
Description	Seal Ring
Product material	QK 1000 PEEK
Model Name	Φ100
Test Type	Test Only
Job Number	J-00307566
Sample Reception Date	12-Sep-2018
Testing Date	12-Sep-2018~20-Sep-2018

Summary of Results

Testing Parameters and Standards	Result
Determination of net chloroform soluble extractivies according to US FDA 21 CFR 177.2415	Complete

Report Authorization — Rex Zhang - Laboratory Technician, NSF (Shanghai) Testing Technology Co., Ltd. — Date 20-Sep-2018

FZ20180920034943 J-00307566 Page 1 / 3

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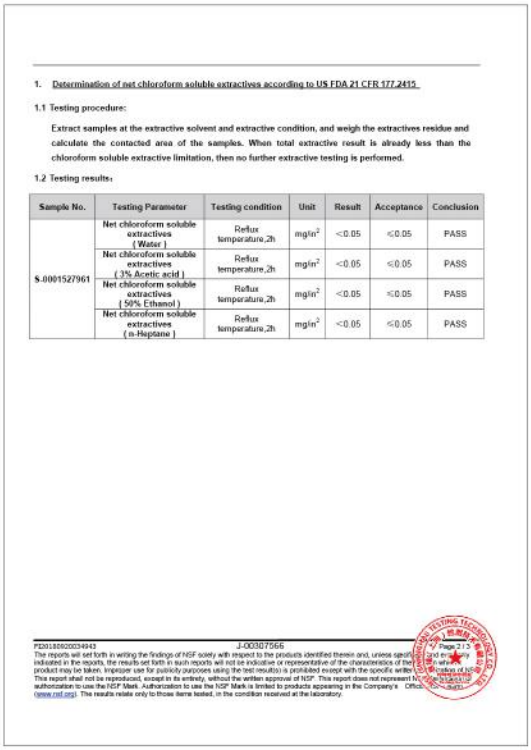

1. Determination of net chloroform soluble extractivies according to US FDA 21 CFR 177.2415

1.1 Testing procedure:

Extract samples at the extractive solvent and extractive condition, and weigh the extractives residue and calculate the contacted area of the samples. When total extractive result is already less than the chloroform soluble extractive limitation, then no further extractive testing is performed.

1.2 Testing results:

Sample No.	Testing Parameter	Testing condition	Unit	Result	Acceptance	Conclusion
S.0001527961	Net chloroform soluble extractives (Water)	Reflux temperature,2h	mg/in^2	<0.05	≤0.05	PASS
	Net chloroform soluble extractives (3% Acetic acid)	Reflux temperature,2h	mg/in^2	<0.05	≤0.05	PASS
	Net chloroform soluble extractives (50% Ethanol)	Reflux temperature,2h	mg/in^2	<0.05	≤0.05	PASS
	Net chloroform soluble extractives (n-Heptane)	Reflux temperature,2h	mg/in^2	<0.05	≤0.05	PASS

FZ20180920034943 J-00307566 Page 2 / 3

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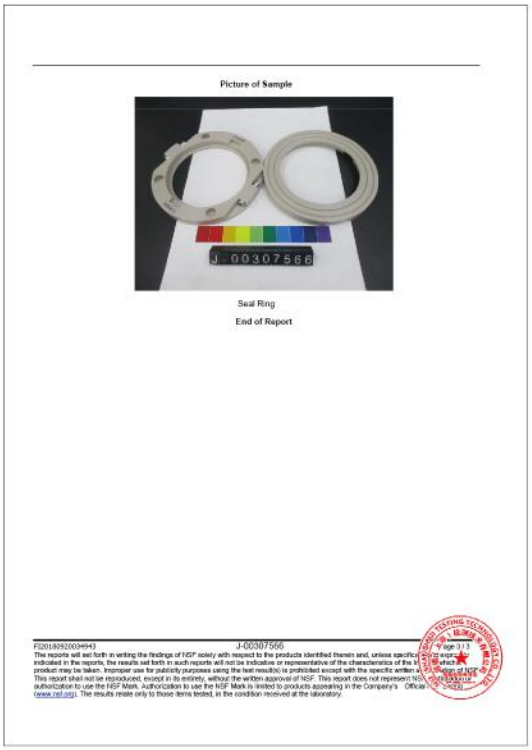

Picture of Sample

Seal Ring

End of Report

FZ20180920034943 J-00307566 Page 3 / 3

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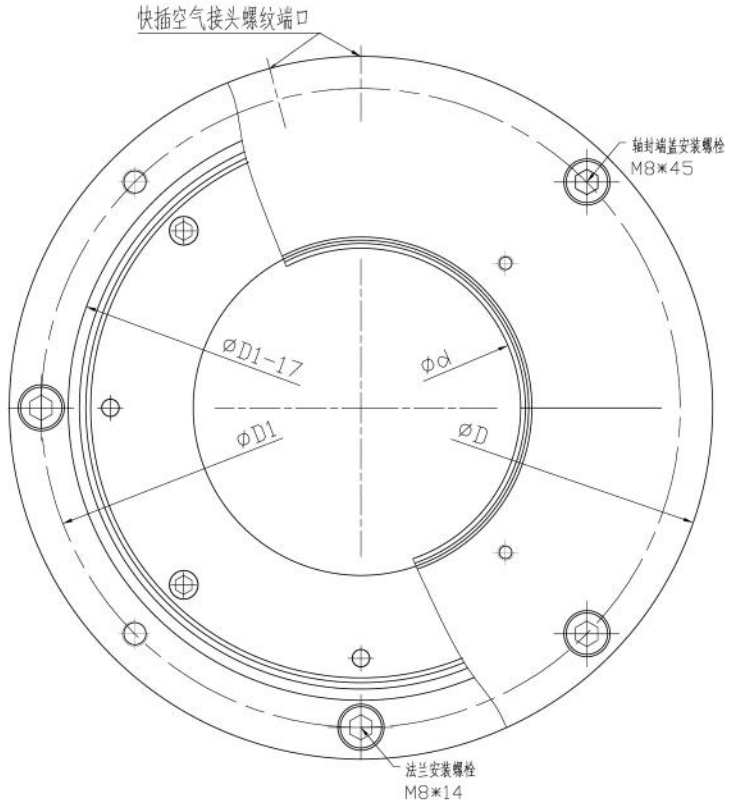
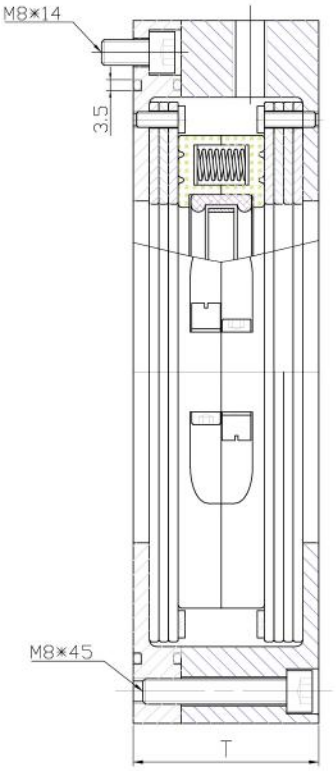
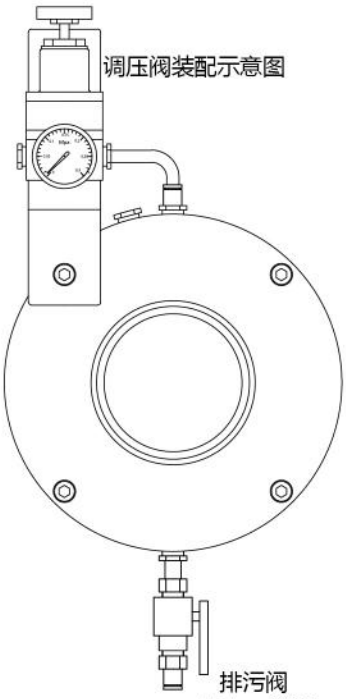


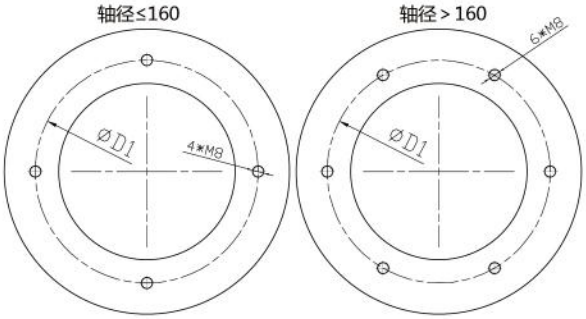


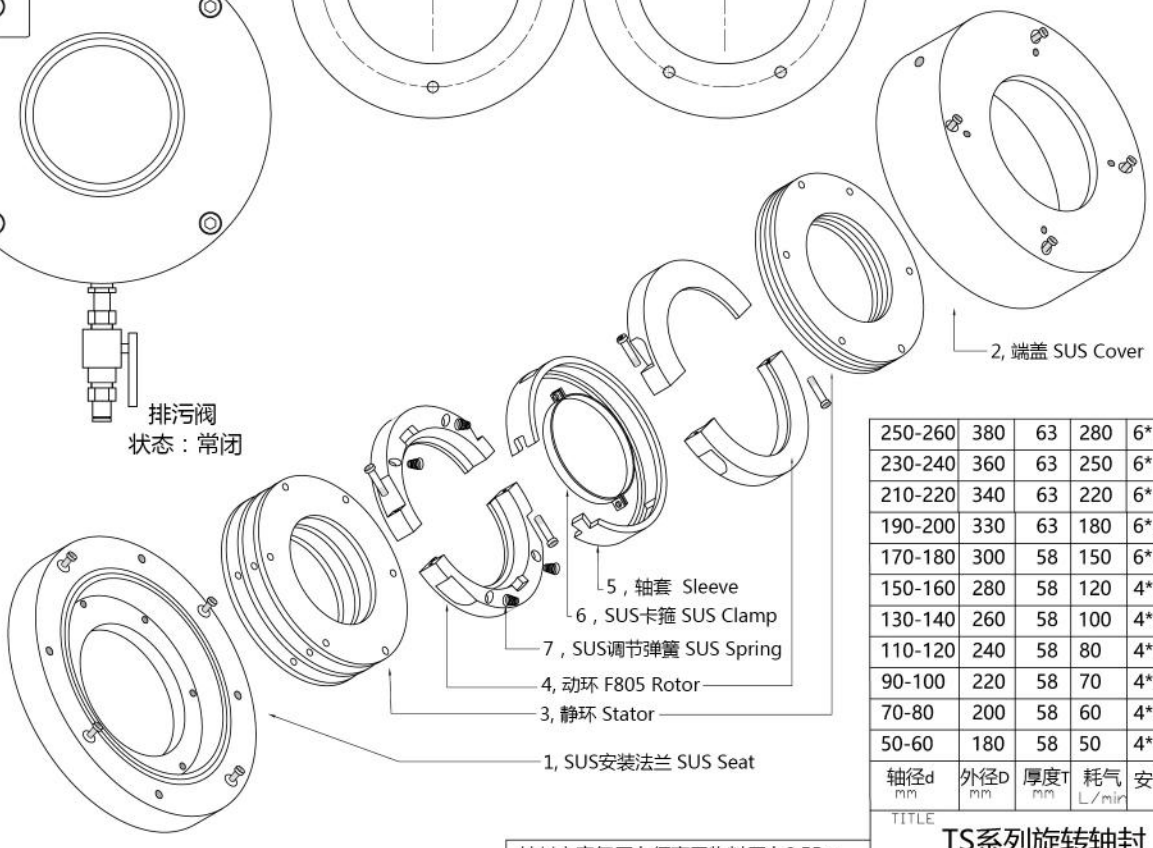
调压阀装配示意图



排污阀
状态：常闭

用户安装圆板轴封法兰安装螺孔分布示意图
（安装圆板不在供货范围内）





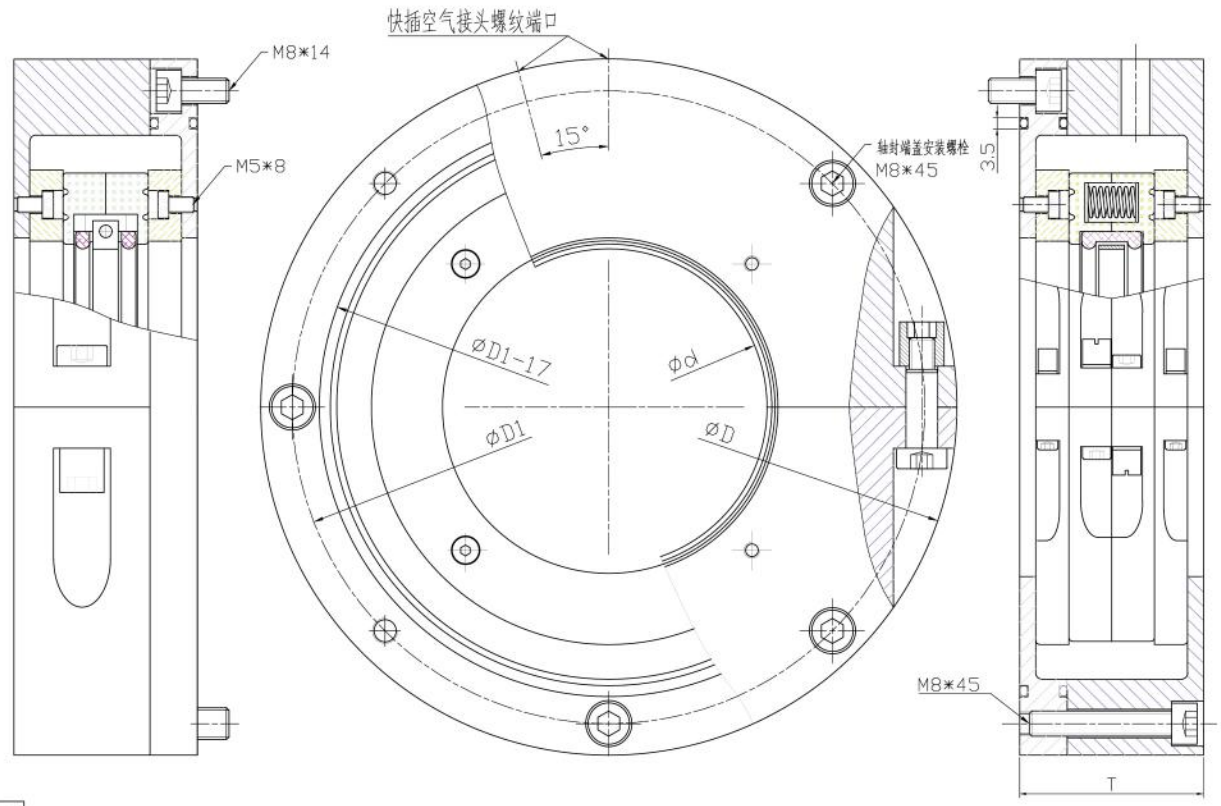
250-260	380	63	280	6*M8-φ360
230-240	360	63	250	6*M8-φ340
210-220	340	63	220	6*M8-φ320
190-200	330	63	180	6*M8-φ300
170-180	300	58	150	6*M8-φ280
150-160	280	58	120	4*M8-φ260
130-140	260	58	100	4*M8-φ240
110-120	240	58	80	4*M8-φ220
90-100	220	58	70	4*M8-φ200
70-80	200	58	60	4*M8-φ180
50-60	180	58	50	4*M8-φ160
轴径d mm	外径D mm	厚度T mm	耗气 L/min	安装螺孔 D1

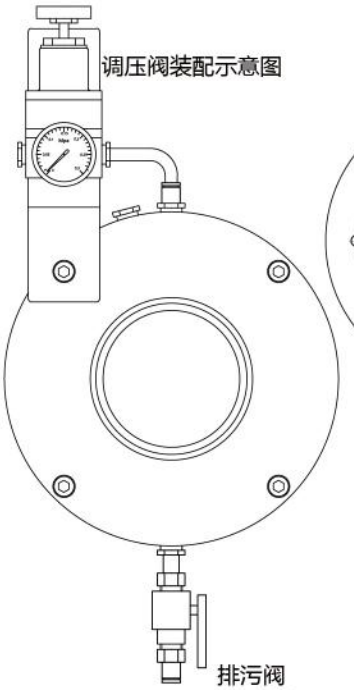
轴封室空气压力须高于物料压力0.5Bar
以上或注入充分的润滑脂
轴颈公差 FRACTIONAL: ±0.25mm
径向偏差 ANGULAR MACH：±1.5mm

TITLE
TS系列旋转轴封
TS SHAFT SEAL

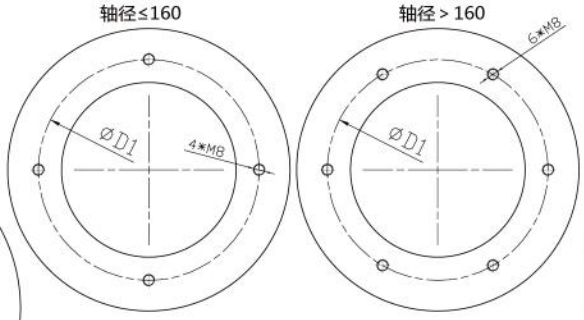
上海臻欣机电设备有限公司

REV 0





用户安装圆板轴封法兰安装螺孔分布示意图
（安装圆板不在供货范围内）

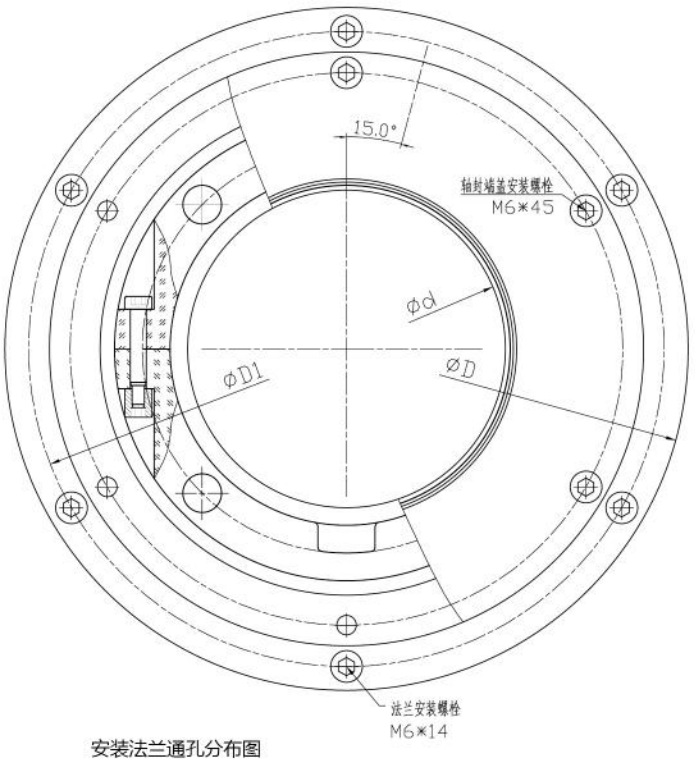


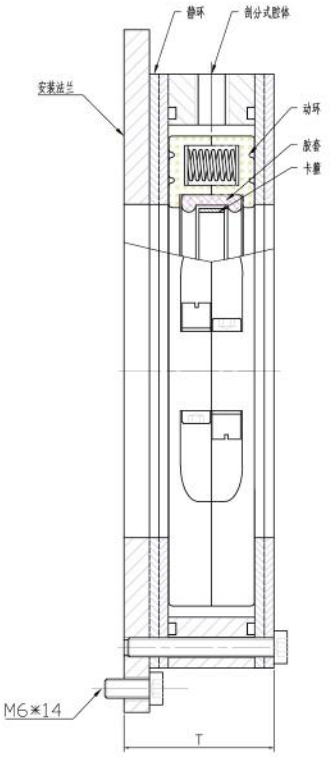
轴径d mm	外径D mm	厚度T mm	耗气 L/min	安装螺孔 D1
250-260	380	63	280	6*M8-φ360
230-240	360	63	250	6*M8-φ340
210-220	340	63	220	6*M8-φ320
190-200	330	63	180	6*M8-φ300
170-180	300	63	150	6*M8-φ280
150-160	280	58	120	4*M8-φ260
130-140	260	58	100	4*M8-φ240
110-120	240	58	80	4*M8-φ220
90-100	220	58	70	4*M8-φ200
70-80	200	58	60	4*M8-φ180
50-60	180	58	50	4*M8-φ160

轴封室空气压力须高于物料压力0.5Bar
以上或注入充分的润滑脂
轴颈公差 FRACTIONAL: ±0.25mm
径向偏差 ANGULAR MACH：±1.5mm

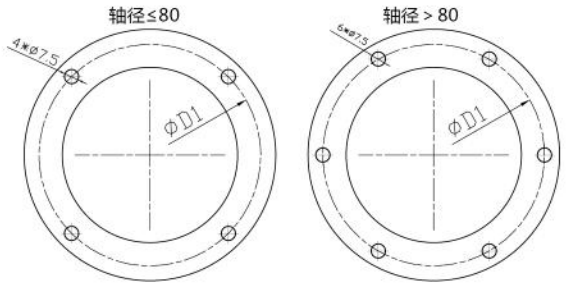
TITLE
TC系列旋转轴封
TC SHAFT SEAL

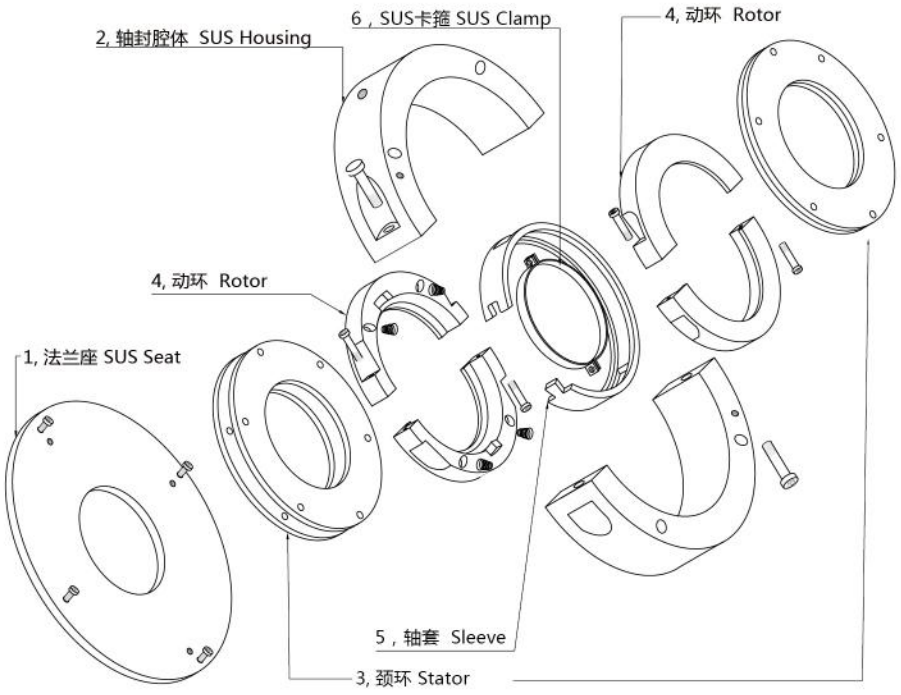
上海臻欣机电设备有限公司 REV 0

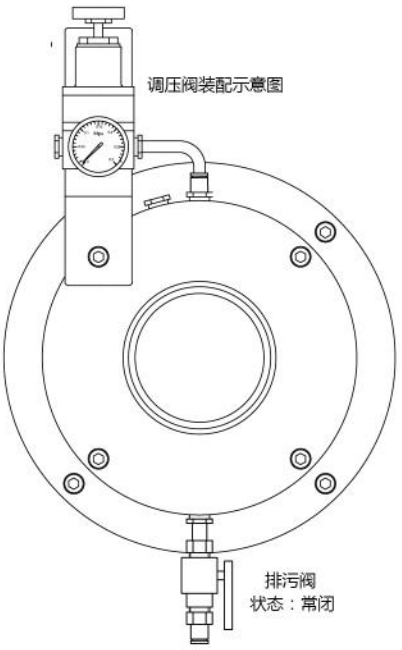




安装法兰通孔分布图







150-160	275	50	120	6*M6-φ260
130-140	255	50	100	6*M6-φ240
110-120	235	50	80	6*M6-φ220
90-100	215	50	70	6*M6-φ200
70-80	195	50	60	4*M6-φ180
50-60	175	50	50	4*M6-φ160
20-40	155	50	50	4*M6-φ140
轴径d mm	外径D mm	厚度T mm	耗气 L/min	安装螺孔 D1

轴封室空气压力须高于物料压力0.5Bar
以上或注入充分的润滑脂
轴颈公差 FRACTIONAL: ±0.25mm
径向偏差 ANGULAR MACH：±1.5mm

TITLE

LS & LC系列轴封

LS & LC Shaft SEAL

上海臻欣机电设备有限公司

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