



Manufactured by
ISO14001
Certified Plant



Manufactured by
ISO 9001
Certified Plant

17 YEARS
2007-2024



AZRA®
HYGIENIC COMPONENTS

Making Life Better
让生活更美好



www.china-yiye.com





TAIZHOU YIYE HARDWARE CO LTD
913310825540126956
559 JINGJIANG NAN ROAD LINHAI-ZJ-CN
576-85196688
www.china-yiye.com

一业金属成立于2007年，一直致力于高品质产品的生产，尤其是不锈钢材质的产品。自2015年，我们开始步入精密数控加工行业，开始开发和生产车铣钻为主的精密部件，至今已经拥有比较好的加工能力和经验。

一业金属坐落于浙江东部地区的台州市临海市，一座美丽的古城。拥有4000+平方米的厂房和超过60名的熟练员工，拥有超过60台精密数控加工设备和6台加工中心，以及配套的检测设备。

一业金属的客户有来自国内的卫生食品机械和医药机械的生产公司，也有来自德国和日本的精密零部件的公司，有着尺寸和表面两方面的严格要求，符合FDA标准。

一业金属十分欢迎你们的访问，也十分愿意一起讨论，并制作免费样品供检测，及后续进一步样品制作，最后生产磨合。专心、专业、专注是一业金属的宗旨和立厂根本。

YeeYe hardware is proud to be committed to high quality to top quality products from the beginning. We are proud to say that our products continuously surpass industry standards. More than anything we want you to feel confident in choosing YeeYe for your precision parts and highest quality standard products.

It all began in 1995 when a small steel fabrication business launched by Bulldog. Moer started manufacturing buidler hardware in Linhai.

By 2007, YeeYe hardware was born, and works with its customers designing and implementing features sought after by discriminating consumers around the globe.

By 2015, we start to make hydraulic parts.

By 2018, we start to supply hygienic levelling feet parts and hygienic design screws and nuts.

YeeYe hardware locate in Linhai, a small beautiful city, operates with 30,000+ square feet manufacturing space, over 80 employees.

YeeYe's commitment to producing quality products combined with honest, reliable service has proven to be a successful handle work to ensuring the continued rapid growth of the company.

YeeYe's proud of high quality control system and his seasoned and high efficiency employees.

Welcome to visit our factory.





台州一业

Histroy

Established in 2007

2017



2007



2007, Taizhou Yiye Hardware established.
2017, factory move to No.81 Huifeng North Road.
2021, move to No.559, Jingjiang South Road.

2021



专心 • 专业 • 专注
Concentration • Professional • Devotion

Alibeli iFanliu AZRA





HYGIENIC DESIGN

series



光洁度 Ra0.8 镜面抛光	Roughness Ra0.8 Mirror Polished
盐雾测试 Salt Spray Test	>96 hours

Hygienic Design Hexagon Screw

卫生设计六角螺栓

St. Steel SS304/SS316 不锈钢

Tolerance 公差要求 ≤0.15mm

S1129



strict standards
SUS304

easy to clean
corrosion resistant
stable functionality
smooth and even surfaces



Sealing ring

- H-NBR
Temperature resistant -25 °C to +150 °C
- EPDM
Temperature resistant -40 °C to +120 °C
- Blue
- Hardness 85 ±5 Shore A
- FDA compliant

Hexagon screw

- Stainless steel SUS 304 / 1.4301
06Cr19Ni10
- Stainless steel SUS 316 / 1.4404
0Cr17Ni12Mo2
- Polished <Ra0.8
- FDA compliant

17
2007-2024
YEARS



YIYE HARDWARE
Precision-Maker

Preferred materials Special Hygienic design



卫生防护
Hygienic
protection



食品级表面
Food
grade



耐腐蚀
耐酸碱
Chemical
resistance



冲击防护
Impact
protection



电磁兼容性
EMC
protection



防水
Water
proof



防尘
Dust
proof

Contaminatin rolls off 污染物滚落
Nothing can adhere 没有东西可以粘附
Nothing can germinate 抑制细菌滋生

The Hygienic hexagon screw is suitable for use in all areas in which the adherence of microorganisms and dirt must be prevented, for example in the pharmaceutical, food and chemical industries as well as in biotechnology and clean room technology.

The Hexagon Head Screw with Collar for Hygienic Seal and Shim Washers is Ideal for Fastening in Sterile Areas.

卫生六角螺栓适用于对其中微生物和污垢的粘附必须防止的所有区域，例如在药物、食品和化学工业以及生物技术和洁净室技术。

卫生级密封和垫片用的带颈六角头螺栓非常适合在无菌区域内紧固。

Nothing adheres
Average surface finish $Ra < 0.8 \mu m$
表面光洁度 $Ra < 0.8 \mu m$



sealing beading for 100% hygienic flat
seal with only 0.1mm tolerance to screw shaft
100% 卫生的密封圈
平面密封与螺纹轴的公差仅为 0.1mm



S1129 卫生六角螺栓
Hygienic Hexagon Screw

17
2007-2024



YIYE HARDWARE
Precision-Maker



Hygienic hex head screws have a flanged collar that pairs with the included sealing and shim washers to create hygienic seals that meet EHEDG (European Hygienic Engineering and Design Group) requirements for sanitary and sterile applications. These stainless steel screws have flat heads with polished surfaces that minimize the accumulation of dirt or residues. Choose EPDM (ethylene propylene diene monomer) washers for most CIP/SIP (clean-in-place / sanitize-in-place) applications, or H-NBR (Hydrogenated nitrile rubber) washers for demanding conditions with high temperatures, high-fat compounds, or media containing grease.

卫生型六角头螺栓具有凸缘环，可与随附的密封和垫片垫圈配对，以形成符合 EHEDG (欧洲卫生工程和设计小组) 对卫生和无菌应用要求的卫生密封。

这些不锈钢螺栓具有平头和抛光表面，可最大限度地减少污垢或残留物的积聚。对于大多数 CIP/SIP (就地清洗/就地消毒) 应用，请选择 EPDM(三元乙丙橡胶)垫圈，对于高温、高脂肪化合物或含有油脂的介质等苛刻条件，请选择H-NBR(氯化丁腈橡胶)垫圈。



Technical Data

Sealing ring

- H-NBR
Temperature resistant -25 °C to +150 °C
- EPDM
Temperature resistant -40 °C to +120 °C
- Blue
Hardness 85 ±5 Shore A
- FDA compliant

Hexagon screw

- Stainless steel SUS 304 / 1.4301
06Cr19Ni10
- Stainless steel SUS 316 / 1.4404
0Cr17Ni12Mo2
- Polished <Ra0.8
- FDA compliant

技术数据

密封垫圈

- H-NBR 氯化丁腈橡胶
耐温 -25 °C 到 +150 °C
- EPDM 三元乙丙橡胶
耐温 -40 °C 到 +120 °C
- 蓝色
硬度 85 ±5 Shore A
- 符合FDA标准

六角螺栓

- 不锈钢 SUS 304 / 1.4301
06Cr19Ni10
- 不锈钢 SUS 316 / 1.4404
0Cr17Ni12Mo2
- 抛光表面 <Ra0.8
- 符合FDA标准

S1129 卫生六角螺栓
Hygienic Hexagon Screw



YIYE HARDWARE
Precision-Maker



many choices available

from M4 to M20 or more, oval top head or flat top head, different length, different tooth.



Specification 规格尺寸

	Type	Length Thread	8	10	12	16	20	25	30	35	40	50	55	60	65
	S1129	M4	✓	✓	✓	✓	✓	✓							
		M5		✓		✓	✓	✓	✓						
		M6			✓	✓	✓	✓	✓	✓	✓				
		M8				✓	✓	✓	✓		✓	✓		✓	
		M10					✓	✓	✓		✓	✓		✓	
		M12								✓		✓		✓	
		M14										✓			
		M16											✓		
		M20												✓	✓
	S1130	M4													
		M5					✓	✓							
		M6							✓		✓	✓			
		M8							✓		✓	✓		✓	
		M10									✓	✓		✓	
		M12								✓		✓		✓	
		M14										✓			
		M16											✓		
		M20												✓	✓



N1129 卫生六角螺栓
Hygienic Hexagon Nut



YIYE HARDWARE
Precision-Maker



光洁度 Ra0.8 镜面抛光	Roughness Ra0.8 Mirror Polished
盐雾测试 Salt Spray Test	>96 hours

Hygienic Design Hexagon Nut

卫生设计六角螺母

St. Steel SS304/SS316 不锈钢

Tolerance 公差要求 ≤0.15mm

N1129



strict standards
SUS304

easy to clean
corrosion resistant
stable functionality
smooth and even surfaces



Sealing ring

- H-NBR
Temperature resistant -25 °C to +150 °C
- EPDM
Temperature resistant -40 °C to +120 °C
- Blue
Hardness 85 ±5 Shore A
- FDA compliant

Hexagon nut

- Stainless steel SUS 304 / 1.4301
06Cr19Ni10
- Stainless steel SUS 316 / 1.4404
0Cr17Ni12Mo2
- Polished <Ra0.8
- FDA compliant

17
2007-2024
YEARS



XIYI HARDWARE
Precision-Maker



Contaminatin rolls off 污染物滚落
Nothing can adhere 没有东西可以粘附
Nothing can germinate 抑制细菌滋生

The Hygienic Hexagon Nut is suitable for use in all areas in which the adherence of microorganisms and dirt must be prevented, for example in the pharmaceutical, food and chemical industries as well as in biotechnology and clean room technology.

The Hexagon Head Nut with Collar for Hygienic Seal and Shim Washers is Ideal for Fastening in Sterile Areas.

卫生六角螺母适用于对其中微生物和污垢的粘附必须防止的所有区域，例如在药物、食品和化学工业以及生物技术和洁净室技术。

卫生级密封和垫片用的带颈六角头螺母非常适合在无菌区域内紧固。



Preferred materials Special Hygienic design



Nothing adheres
Average surface finish $Ra < 0.8 \mu m$
表面光洁度 $Ra < 0.8 \mu m$



sealing beading for 100% hygienic flat seal with only 0.1mm tolerance to screw shaft
100% 卫生的密封圈
平面密封与螺纹轴的公差仅为 0.1mm



N1129 卫生六角螺母
Hygienic Hexagon Nut



YIYE HARDWARE
Precision-Maker





Hygienic hex head screws have a flanged collar that pairs with the included sealing and shim washers to create hygienic seals that meet EHEDG (European Hygienic Engineering and Design Group) requirements for sanitary and sterile applications. These stainless steel screws have flat heads with polished surfaces that minimize the accumulation of dirt or residues. Choose EPDM (ethylene propylene diene monomer) washers for most CIP/SIP (clean-in-place / sanitize-in-place) applications, or H-NBR (Hydrogenated nitrile rubber) washers for demanding conditions with high temperatures, high-fat compounds, or media containing grease.

卫生型六角头螺栓具有凸缘环，可与随附的密封和垫片垫圈配对，以形成符合 EHEDG（欧洲卫生工程和设计小组）对卫生和无菌应用要求的卫生密封。

这些不锈钢螺栓具有平头和抛光表面，可最大限度地减少污垢或残留物的积聚。对于大多数 CIP/SIP（就地清洗/就地消毒）应用，请选择 EPDM（三元乙丙橡胶）垫圈，对于高温、高脂肪化合物或含有油脂的介质等苛刻条件，请选择 H-NBR（氢化丁腈橡胶）垫圈。

Technical Data

Sealing ring

- H-NBR
Temperature resistant -25 °C to +150 °C
- EPDM
Temperature resistant -40 °C to +120 °C
- Blue
- Hardness 85 ±5 Shore A
- FDA compliant

技术数据

密封垫圈

- H-NBR 氢化丁腈橡胶
耐温 -25 °C 到 +150 °C
- EPDM 三元乙丙橡胶
耐温 -40 °C 到 +120 °C
- 蓝色
- 硬度 85 ±5 Shore A
- 符合FDA标准

Hexagon nut

- Stainless steel SUS 304 / 1.4301
06Cr19Ni10
- Stainless steel SUS 316 / 1.4404
0Cr17Ni12Mo2
- Polished <Ra0.8
- FDA compliant

六角螺母

- 不锈钢 SUS 304 / 1.4301
06Cr19Ni10
- 不锈钢 SUS 316 / 1.4404
0Cr17Ni12Mo2
- 抛光表面 <Ra0.8
- 符合FDA标准



N1129 卫生六角螺栓
Hygienic Hexagon Nut



YIYE HARDWARE
Precision-Maker



many choices available

from M4 to M20 or more, oval top head or flat top head.



Specification 规格尺寸

	Type	M4	M5	M6	M8	M10	M12	M14	M16	M20
	N1129	✓	✓	✓	✓	✓	✓	✓	✓	✓



N1129 卫生六角螺栓
Hygienic Hexagon Nut



YIYE HARDWARE
Precision-Maker



Preferred materials
Special tight fitting design



精选卫生材料
特殊紧配设计



Sealing ring

- H-NBR
Temperature resistant -25 °C to +150 °C
- EPDM
Temperature resistant -40 °C to +120 °C
- Blue
- Hardness 85 ±5 Shore A
- FDA compliant

密封圈

- 氯化丁腈橡胶 H-NBR
耐温 -25°C 至 150°C
- 三元乙丙橡胶 EPDM
耐温 -40°C 至 120°C
- 天蓝色
- 硬度 85±5 Shore A
- 符合FDA标准



HSR 卫生密封圈
Hygienic Sealing Ring



YIYE HARDWARE
Precision-Maker



Hygienic Cable Gland 防尘防水卫生线缆接头

St. Steel SS316 不锈钢

Tolerance 公差要求 $\leq 0.08\text{mm}$



卫生防护 Hygienic protection
食品级表面 Food grade
耐腐蚀 Chemical resistance
冲击防护 Impact protection
电磁兼容性 EMC protection
防水 Water proof
防尘 Dust proof



strict standards

SUS316

easy to clean
corrosion resistant
stable functionality
smooth and even surfaces



The Hygienic cable gland is suitable for use in all areas in which the adherence of microorganisms and dirt must be prevented, for example in the pharmaceutical, food and chemical industries as well as in biotechnology and clean room technology.

卫生线缆接头适用于对其中微生物和污垢的粘附必须防止的所有区域，例如在药物、食品和化学工业以及生物技术和洁净室技术。



Thread 螺纹规格	Cable Range Ø(mm) 适配线缆外径	Cover size: D(mm) 接头外径	H (mm) 接头高度	GL(mm) 安装深度	Spanner Size (mm) 适用扳手
M12x1.5	5-6.5	23	19	6	16
M16X1.5	6-7.5	27	19.8	6	19/21
	7.5-10	27	19.8	6	19/21
M20X1.5	9-12	33	22.5	6	24/27
	11-13.5	33	22.5	6	24/27
M25X1.5	14-16	38	23.5	7	30
	15-18	38	23.5	7	30
M32X1.5	18-21	45	26.5	8	36
	21-25	45	26.5	8	36

17 YEARS
2007-2024



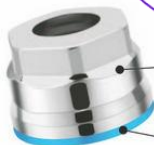
YIYE HARDWARE
Precision-Maker

Hygienic Cable Gland 防尘防水卫生线缆接头

St. Steel SS316 不锈钢
Tolerance 公差要求 $\leq 0.08\text{mm}$



strict standards
SUS316
easy to clean
corrosion resistant
stable functionality
smooth and even surfaces



Technical Data

Housings CG

- Stainless Steel SUS316 / 1.4404
- 0Cr17Ni12Mo2
- Roughness $< \text{Ra}0.8$
- FDA compliant

Sealing ring of housing

- H-NBR
- Temperature resistant -25°C to 150°C
- blue
- Hardness 85 + 5 Shore A
- FDA compliant

Insert for cable

- BASF TPU(Elastolan 1180A10)
- Temperature resistant -40°C to 90°C
- blue
- Hardness 75 + 5 Shore A
- FDA compliant

Internal Pin CG

- Stainless Steel SUS316 / 1.4404
- 0Cr17Ni12Mo2
- Roughness $< \text{Ra}0.8$
- FDA compliant

Sealing ring of pin

- H-NBR
- Temperature resistant -25°C to 150°C
- blue
- Hardness 85 + 5 Shore A
- FDA compliant

技术数据

外壳

- 不锈钢 SUS316 / 1.4404
- 0Cr17Ni12Mo2
- 表面粗糙度 $< \text{Ra}0.8$
- 符合FDA标准

外壳密封圈

- 氯化丁腈橡胶
- 耐温 -25°C to 150°C
- 蓝色
- 硬度 85 + 5 Shore A
- 符合FDA标准

弹性柱体-巴斯夫

- 热塑性聚氨酯弹性体(聚酯)
- 耐温 -40°C to 90°C
- 蓝色
- 硬度 75 + 5 Shore A
- 符合FDA标准

插齿螺丝

- 不锈钢 SUS316 / 1.4404
- 0Cr17Ni12Mo2
- 表面粗糙度 $< \text{Ra}0.8$
- 符合FDA标准

插齿密封圈

- 氯化丁腈橡胶蓝色
- 耐温 -25°C to 150°C
- 蓝色
- 硬度 85 + 5 Shore A
- 符合FDA标准



IP68 Test Report-1



Test Report

Report No......: SUER241000112071 **Release date**.....: 2024-11-19
Applicant's name.....: LINHAI XINYE MACHINERY CO., LTD
No. 559 Jingjiang South Road, Jiangnan District, Linhai City, Zhejiang
Laboratory name and address.....: SGS-CSTC Standards Technical Services Co.,Ltd. Suzhou Branch
No.10, Weiye Road, Kunshan Development Zone, Suzhou, Jiangsu, China
Product Description.....: HYGIENIC DESIGN STAINLESS STEEL CABLE GLAND
Product Model No: CG-M20
S/N No......: -
Sample status: Normal
Sample receipt date: 2024-11-08
Date of Test.....: 2024-11-08 to 2024-11-14
Test Standard.....: See following pages
Conclusion.....: See following pages
Remark /Note: 1) The test results presented in this report relate only to the object tested.
2) The report shall not be reproduced except in full, without approval of the laboratory.
3) The test report shall only be used for client scientific research, teaching, internal quality control, product research and development, etc... and just for client internal reference.

Tested by:

Leo Li
Leo Li

Approved by:

Frank Fang
Frank Fang

This document is issued by the Company subject to its General Conditions of Service printed overseas, available on request or accessible at <http://www.sgs.com/term-and-conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/term-and-conditions/term-e-document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

IP68 Test Report-2



Page 2 of 6

Report No.: SUER241000112071

Summary of Results

No	Test Item	Test Standard	Conclusion	Sample number
1	IP6X Dustproof Test	IEC 60529:1989/AMD2:2013/COR1:2019 Degrees of protection provided by enclosures (IP Code)	Pass	SUER2410001120CO M1
2	IPX8 Test	IEC 60529:1989/AMD2:2013/COR1:2019 Degrees of protection provided by enclosures (IP Code) & Client's requirements	Pass	SUER2410001120CO M2

Note: Pass: Meet the requirements;

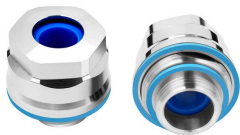
Fail: Does not meet the requirements;

/: Not apply to the judgment.

Test site:

Item 1: No.588 West Jindu Road, Xinqiao, Songjiang, Shanghai, China

Item 2: 198 Kezhu Road, Sciencetech Park, Economic&Technical Development District, Guangzhou, China



IP68 Test Report-3

1. Test Item: IP6X Dustproof Test

Environmental requirement:

Ambient Temperature: (15~35) °C; Relative Humidity: (25~75) %RH; Atmos: (86~106) kPa.

Reference standard:

IEC 60529:1989/AMD2:2013/COR1:2019 Degrees of protection provided by enclosures (IP Code)

Test condition:

Simulated dust: Talcum powder

Maximum depression: 2 kPa

Dust Concentration: 2 kg/m³ chamber volume and be kept in suspension during the test

Extraction rate: The extraction rate of 40 to 60 volumes per hour

Test duration: 2 h

Test acceptance requirements:

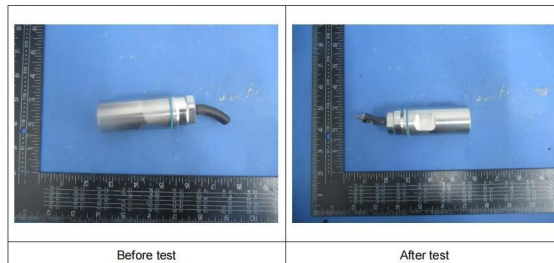
After test, there should be no visible dust ingress.

Test result:

Sample Number	Test Result
SUER2410001120CO M1	After test, there was no visible dust ingress.

Conclusion: Pass

Photographs of the Test Configuration



IP68 Test
Report-4



	
After test-Disassembly inspection	During test



IP68 Test Report-5



Page 5 of 6

Report No.: SUER241000112071

2. Test Item: IPX8 Test

Environmental requirement:

Ambient Temperature: (15~35) °C; Relative Humidity: (25~75) %RH; Atmos: (86~106) kPa.

Reference standard:

IEC 60529:1989/AMD2:2013/COR1:2019 Degrees of protection provided by enclosures (IP Code) & Client's requirements

Test condition:

Depth: 60m (0.5 m water depth and 0.595 MPa air pressure)

Test duration: 30 min

Test acceptance requirements:

No visual ingress of water.

Test result:

Sample Number	Test Result
SUER2410001120CO M2	No visual ingress of water.

Conclusion: Pass

Photographs of the Test Configuration



Before test



After test



IP68 Test Report-6



After test-Disassembly inspection



During test



During test



During test

Testing Instrument and Equipment

Equipment	Model	Equipment No.	Calibration Date	Next Calibration Date
Dust chamber	JYSD-500	SHES806101	2023-12-23	2024-12-22
Digital temperature and humidity meter	175H1	SHES201708	2024-01-13	2025-01-12
Non-contacting infrared thermometer	UT301A	GZMR-RL-E156	2024-03-20	2025-03-19
Waterproof tester	IPX8	GZMR-RL-E136	2024-03-06	2025-03-05

-----End of Report-----



IP69K Test Report-1

SGS

TEST REPORT

No. : SUZMR241200764301

Date : Dec 17, 2024

Page : 1 of 7



CUSTOMER NAME: LINHAI XINYE MACHINERY CO., LTD
ADDRESS: No. 559 Jingjiang South Road, Jiangnan District, Linhai City, Zhejiang

Sample Name : HYGIENIC DESIGN STAINLESS STEEL CABLE GLAND
Model No. : CG-M16

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No. : SUER2411001327HS
Date of Receipt : Dec 03, 2024
Testing Start Date : Dec 03, 2024
Testing End Date : Dec 17, 2024
Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd. Suzhou Branch

Rex Yan

Rex Yan
Authorized signatory



SGS (Shanghai) Inspection & Testing Services Co., Ltd.
Suzhou Branch

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at sgs.com.sg/termsandconditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction clause printed therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its information only and within the limits of Client's instructions, if any. The Company's sole responsibility is to the Client and this document does not constitute parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offences therefor may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

For more information, please contact us at:
Building 12, Xiangyin Industrial Park, No. 73 Xiangyin Street, SP Suzhou, Jiangsu, China 215021
中国·江苏·苏州工业园区相城街道相城工业园12号厂房 邮编: 215021

1 (86-512) 62682020 1 (86-512) 62682112 www.sgs.com.sg
1 (86-512) 62682010 1 (86-512) 62682112 sgs_china@sgs.com

Member of the SGS Group (SGS SA)

IP69K Test
Report-2



TEST REPORT

No. : SUZMR241200764301
Date : Dec 17, 2024
Page: 2 of 7



Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	IPX9	IEC 60529:1989/AMD2:2013/COR1:2019	See result	Pass
2	IP6X	IEC 60529:1989/AMD2:2013/COR1:2019	See result	Pass

Note: Pass : Meet the requirements;
Fail : Does not meet the requirements;
/ : Not Apply to the judgment.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed hereon, available on request or accessible at sgs.china.sgs.com/ServiceAndConditions. Attention is drawn to the location of facilities, transportation and production means defined therein. Any transfer of this document is deemed the information contained herein, which the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to the Client and this document does not constitute parties to a transaction from exercising all their rights and obligations to the latest version of the law. Clients otherwise agreed the results shown in this test report shall apply to the sampling method and test parameters) are retained for 30 days only.
Attention: To avoid the occurrence of testing inspection report & certificate, please contact us at telephone: (86-755)8387 1443, or email: china@sgs.com.
Building 12, Wangshu Park, No. 70 High Street, SF Sushu, Jiangsu, China 210021 1 (86-512) 82960200 1 (86-512) 82960212 www.sgs.com.cn
中国·江苏·苏州工业园区王胜路70号胜苏工业园12栋 邮编: 210021 1 (86-512) 82960200 1 (86-512) 82960212 sgs.china@sgs.com

SGS

Page: 3 of 7



Specimen	Result	Client's requirement	Conclusion
1	No visible water ingress	No water ingress	Pass

During Test-0°



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs-admin.com/terms-and-conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues contained in any body of this document. It is advised that information contained hereon represents the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any reproduction or translation of the content or appearance of this document without the prior written approval of the Company may be grounds for the fastest extent of law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8397 1443 or email: CN.Doschec@sas.com

Building 12, Xinyi Industrial Park, No.78 Xinglin Street, SP, Suzhou, Jiangsu, China 215021 | (86-512) 62968200 | f (86-512) 62968212 | www.sgs.com.cn
 中国·江苏·苏州工业园区星林街78号新益工业园12号楼 邮编: 215021 | (86-512) 62968200 | f (86-512) 62968212 | sas.china@sas.com

Member of the SGS Group (SGS SA)

IP69K Test Report-4

SGS

TEST REPORT

No. : SUZMR241200764301

Date : Dec 17, 2024

Page: 4 of 7



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed hereon, available on request or accessible at <https://www.sgs.com/sgs/testing-and-certification>. Attention is drawn to the location of liability, indemnification and jurisdiction clause detailed herein. Any holder of this document is deemed the information conveyed herein subject to the Company's findings at the time of the intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to the Client and this document does not constitute a service to a third party from exercising all their rights and obligations for the benefit thereof. The Company disclaims any liability for the results derived from this test report (other than the sample tested and test apparatus) are retained for 30 days only.

For more information, please contact us at telephone: (86-190) 6387 4443, or email: sgs@sgs.com.

Shanghai C. Wang Industry Park, No. 70 Xiang Road, SIP Suzhou, Jiangsu, China 215021 1 (86-512) 62986200 1 (86-512) 62986212 www.sgs.com
 中国·江苏·苏州工业园区相城产业园70号 邮编: 215021 1 (86-512) 62986200 1 (86-512) 62986212 sgs.china@sgs.com

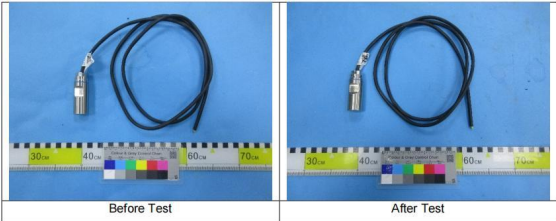
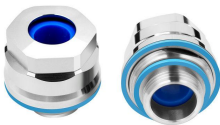
Member of the SGS Group (SGS SA)

IP69K Test
Report-5



TEST REPORT

No. : SUZMR241200764301
Date : Dec 17, 2024
Page: 5 of 7



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
IPX9K	/	SUZMR-209	2024-03-21	2025-03-20



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed hereafter, available on request or accessible at <http://sgs.china.sgs.com/CN/Testing-and-Certification>. Attention is drawn to the limitation of liability, indemnification and limitation of damages stated herein. Any transfer of this document is without the information contained herein, which the Company's findings at the time of the intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to the Client and this document does not constitute parties to a transaction from exercising all their rights and obligations to the benefit of the Client. The Company undertakes the results shown in this test report shall only be the sampling method and each sample(s) are retained for 30 days only.
In addition, to avoid the misunderstanding of testing inspection report & certificate, please contact us at telephone: (86-755)8837 9445, or email: sgs.china@sgs.com.
[Building 12, Zhongyuan Park, No. 70 High Street, SF Suzhou, Jiangsu, China 215021] 1 (86-512) 62960200 1 (86-512) 62960212 www.sgs.com.cn
中国 - 江苏 - 苏州工业园区中远国际产业园70号高街12楼 邮编: 215021 1 (86-512) 62960200 1 (86-512) 62960212 sgs.china@sgs.com

IP69K Test
Report-6



TEST REPORT

No. : SUZMR241200764301
Date : Dec 17, 2024
Page: 6 of 7



2.Test Item: IP6X
Sample Description: Finished product
Test Method: IEC 60529:1989/AMD2:2013/COR1:2019
Test Condition:

Test Dust: Talcum powder
Dust Concentration: 2 kg/m³ chamber volume and be kept in suspension during the test
Extraction Rate: < 40 volumes per hour
Test Duration: 8 hours

Lab Environment Condition: 15℃~35℃, 25%RH~75%RH

Test Result:

Specimen	Result	Client's requirement	Conclusion
2	No visible dust ingress	No dust ingress	Pass

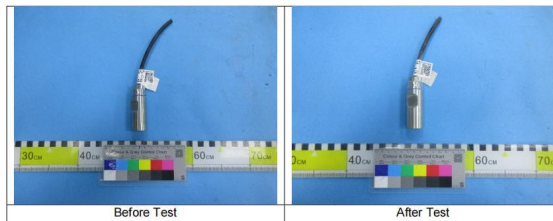
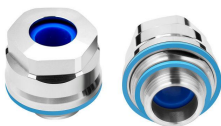
Test Photo:



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed hereafter, available on request or accessible at <http://www.sgs.com.cn/ServiceAndConditions>. Attention is drawn to the location of testing, transportation and production means defined therein. Any transfer of risk required to ensure the information contained herein reflects the Company's findings at the time of the intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to the Client and this document does not constitute parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is strictly and severely prohibited. (The general conditions are attached to the test report and the results shown in the test report shall only be the sampling results and shall not be the results of the whole lot.)
Address: 100, Zhongyuan Road, Suzhou, China 215001
Tel: 0512-62960200 Fax: 0512-62960212
E-mail: sgs@sgs.com.cn
Website: www.sgs.com.cn
SGS INSTITUTION
Suzhou Branch

SGS

Page: 7 of 7



Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Sand and dust test chamber	SC-010	SUZMR-277	2024-03-21	2025-03-20

***** End of report*****



Unless otherwise agreed in writing this document is issued by the Company solely to its General Conditions of Service provided in full, available online or accessible at <https://www.sagepub.com/terms-and-conditions>. Attention is drawn to the invitation of liability, which is accepted by the Company, in relation to the use of the information contained in this document. The Company does not accept any liability for the Company's findings at the time of its intervention only and within the limits of CFA's instructions, if any. The Company's sole responsibility is to provide the information contained in this document, and the Company is not responsible for any errors or omissions made during the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Therefore stated the results shown in this report are only for the purposes mentioned and no other purposes. The sample(s) are retained for 30 days only.

For email: CS.Doechings@hugoboss.com
For telephone: +49 (0) 2241 9193-111, Fax: +49 (0) 2241 9193-112, DP Address: Jungfer, Dora 23501
In Chinese: 德意志司法会计司法鉴定有限公司, 地址: 中国上海
1 06-512 6296820 1 06-512 6296821 1 06-512 6296822
1 06-512 6296823 1 06-512 6296824 1 06-512 6296825
www.sagepub.com www.sagepub.com www.sagepub.com

光洁度 Ra0.8	Roughness Ra0.8
盐雾测试 Salt Spray Test	>96 hours

Hygienic Design Latch 卫生设计转舌锁

St. Steel SS316 & SS304不锈钢
Tolerance 公差要求 ≤0.25mm



strict standards
easy to clean
corrosion resistant
stable functionality
smooth and even surfaces



- Latch tongue
SS304/1.4301
- Hex flange bolt DIN9621 M6
SS304/1.4301
- Counter nut PG16
SS304/1.4301
- Sealing for housing
NBR blue
- Latch house
SS316/1.4404 or SS304/1.4301
- Sealing for pin
NBR blue
- Latch pin
SS316/1.4404 or SS304/1.4301

Different Pin Head



17
2007-2024
YEARS



YIYE HARDWARE
Precision-Maker

Preferred materials Special Hygienic design



卫生防护
Hygienic
protection



食品级表面
Food
grade



耐腐蚀
耐酸碱
Chemical
resistance



冲击防护
Impact
protection



电磁兼容性
EMC
protection

Contaminatin rolls off 污染物滚落
Nothing can adhere 没有东西可以粘附
Nothing can germinate 抑制细菌滋生

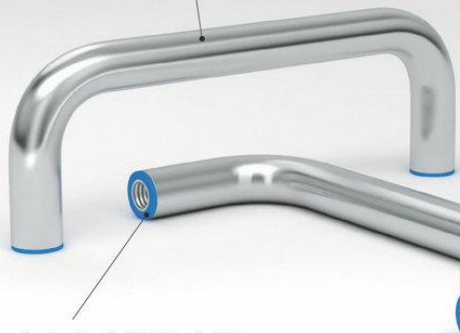
The Hygienic D Handle is suitable for use in all areas in which the adherence of microorganisms and dirt must be prevented, for example in the pharmaceutical, food and chemical industries as well as in biotechnology and clean room technology.

The Hygienic D Handle with Collar for Hygienic USIT® Seal and Shim Washers is Ideal for installing in Sterile Areas.

卫生D型拉手适用于对其中微生物和污垢的粘附必须防止的所有区域，例如在药物、食品和化学工业以及生物技术和洁净室技术。

卫生级 USIT® 密封和垫片用的D型拉手非常适合在无菌区域内安装。

Nothing adheres
Average surface finish $Ra < 0.8\mu m$
表面光洁度 $Ra < 0.8\mu m$



sealing beading for 100% hygienic flat
seal with only 0.1mm tolerance to screw shaft
100% 卫生的密封圈
平面密封与螺纹轴的公差仅为0.1mm



A005-HD 卫生D型把手
Hygienic D Handle

17
2007-2024

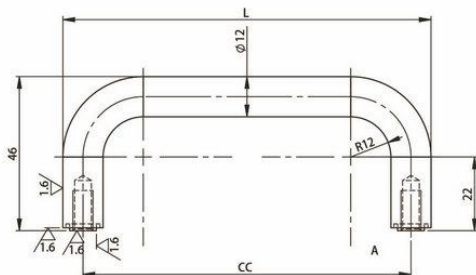


YIYE HARDWARE
Precision-Maker



卫生型D型把手具有凸缘环，可与随附的 USIT 密封和垫片垫圈配对，以形成符合 EHEDG（欧洲卫生工程和设计小组）对卫生和无菌应用要求的卫生密封。

这些不锈钢D型把手有平头和抛光表面，可最大限度地减少污垢或残留物的积聚。对于大多数 CIP/SIP（就地清洗/就地消毒）应用，请选择 EPDM（三元乙丙橡胶）垫圈，对于高温、高脂肪化合物或含有油脂的介质等苛刻条件，请选择H-NBR（氢化丁腈橡胶）垫圈。



Type No.:	L	CC
Handle 3A M6-CC88	100 mm	88 mm
Handle 3A M6-CC100	112 mm	100 mm
Handle 3A M6-CC120	132 mm	120 mm
Handle 3A M6-CC180	192 mm	180 mm

技术数据

密封垫圈

- H-NBR 氢化丁腈橡胶
耐温 -25 °C 到 +150 °C
- EPDM 三元乙丙橡胶
耐温 -40 °C 到 +120 °C
- 蓝色
- 硬度 85 ±5 Shore A
- 符合FDA标准

D型把手

- 不锈钢 SUS 304 / 1.4301
06Cr19Ni10
- 不锈钢 SUS 316 / 1.4404
0Cr17Ni12Mo2
- 抛光表面 <Ra0.8
- 符合FDA标准

Technical Data

Sealing ring

- H-NBR
Temperature resistant -25 °C to +150 °C
- EPDM
Temperature resistant -40 °C to +120 °C
- Blue
- Hardness 85 ±5 Shore A
- FDA compliant

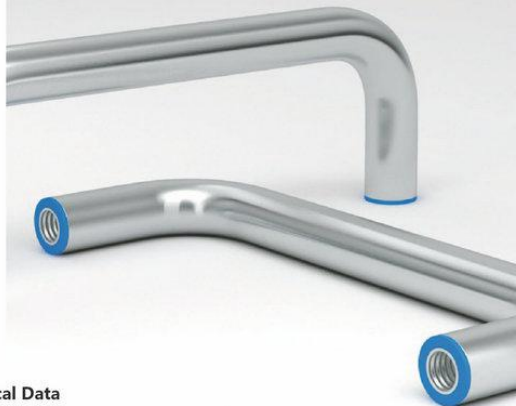
D Handle

- Stainless steel SUS 304 / 1.4301
06Cr19Ni10
- Stainless steel SUS 316 / 1.4404
0Cr17Ni12Mo2
- Polished <Ra0.8
- FDA compliant

Hygienic D Handle have a flanged collar that pairs with the included USIT sealing and shim washers to create hygienic seals that meet EHEDG (European Hygienic Engineering and Design Group) requirements for sanitary and sterile applications.

These stainless steel handle have flat heads with polished surfaces that minimize the accumulation of dirt or residues.

Choose EPDM (ethylene propylene diene monomer) washers for most CIP/SIP (clean-in-place / sanitize-in-place) applications, or H-NBR (Hydrogenated nitrile rubber) washers for demanding conditions with high temperatures, high-fat compounds, or media containing grease.



A005-HD 卫生D型把手
Hygienic D Handle

17
2007-2024



YIYE HARDWARE
Precision-Maker



光洁度 Ra0.8 镜面抛光	Roughness Ra0.8 Mirror Polished
盐雾测试 Salt Spray Test	>96 hours

Hygienic Design D Handle

卫生设计工业把手

St. Steel SS304 不锈钢

Tolerance 公差要求 $\leq 0.15\text{mm}$

A005-HD

strict standards
SUS304

easy to clean
corrosion resistant
stable functionality
smooth and even surfaces



Place NBR or EPDM sealing ring



17
2007-2024
YEARS



YIXU HARDWARE
Precision-Maker



Contaminatin rolls off 污染物滚落
Nothing can adhere 没有东西可以粘附
Nothing can germinate 抑制细菌滋生

The Hygienic Star Knob is suitable for use in all areas in which the adherence of microorganisms and dirt must be prevented, for example in the pharmaceutical, food and chemical industries as well as in biotechnology and clean room technology.

The Hexagon Star Knob with Collar for Hygienic USIT® Seal and Shim Washers is Ideal for installing in Sterile Areas.

卫生星型旋钮适用于对其中微生物和污垢的粘附必须防止的所有区域，例如在药物、食品和化学工业以及生物技术和洁净室技术。

卫生级 USIT® 密封和垫片用的星型旋钮非常适合在无菌区域内安装。



Preferred materials Special Hygienic design



Nothing adheres
Average surface finish $Ra < 0.8 \mu m$
表面光洁度 $Ra < 0.8 \mu m$



sealing beading for 100% hygienic flat seal with only 0.1mm tolerance to screw shaft
100% 卫生的密封圈
平面密封与螺纹轴的公差仅为 0.1mm



K071-HD 卫生星型旋钮
Hygienic Star Knob



YIYE HARDWARE
Precision-Maker



Hygienic Star Knob have a flanged collar that pairs with the included USIT sealing and shim washers to create hygienic seals that meet EHEDG (European Hygienic Engineering and Design Group) requirements for sanitary and sterile applications.

These stainless steel knob have flat heads with polished surfaces that minimize the accumulation of dirt or residues. Choose EPDM (ethylene propylene diene monomer) washers for most CIP/SIP (clean-in-place / sanitize-in-place) applications, or H-NBR (Hydrogenated nitrile rubber) washers for demanding conditions with high temperatures, high-fat compounds, or media containing grease.



技术数据

密封垫圈

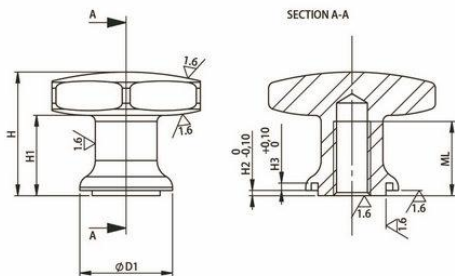
- H-NBR 氢化丁腈橡胶
耐温 -25 °C 到 +150 °C
- EPDM 三元乙丙橡胶
耐温 -40 °C 到 +120 °C
- 蓝色
- 硬度 85 ±5 Shore A
- 符合FDA标准

星型旋钮

- 不锈钢 SUS 304 / 1.4301
06Cr19Ni10
- 不锈钢 SUS 316 / 1.4404
0Cr17Ni12Mo2
- 抛光表面 <Ra0.8
- 符合FDA标准

卫生型六角头螺栓具有凸缘环，可与随附的 USIT 密封和垫片垫圈配对，以形成符合 EHEDG (欧洲卫生工程和设计小组) 对卫生和无菌应用要求的卫生密封。

这些不锈钢螺栓具有平头和抛光表面，可最大限度地减少污垢或残留物的积聚。对于大多数 CIP/SIP (就地清洗/就地消毒) 应用，请选择 EPDM (三元乙丙橡胶) 垫圈，对于高温、高脂肪化合物或含有油脂的介质等苛刻条件，请选择 H-NBR (氢化丁腈橡胶) 垫圈。



Type No.	D	D1	D2	D3	H	H1	H2	H3	MxML	S
Star Knob,M6-24-3A	27 mm	15 mm	11 mm	13.2 mm	20 mm	13 mm	0.85 mm	1.2 mm	M6x12	24
Star Knob,M6-30-3A	33 mm	20 mm	15 mm	17.2 mm	24 mm	13 mm	0.85 mm	1.2 mm	M6x12	30
Star Knob,M8-36-3A	40 mm	22 mm	16 mm	19.2 mm	28 mm	16 mm	1.05 mm	2 mm	M8x20	36
Star Knob,M10-46-3A	50 mm	28 mm	20 mm	23.2 mm	30 mm	16 mm	1.05 mm	2 mm	M10x25	46
Star Knob,M12-60-3A	65 mm	32 mm	24 mm	27.2 mm	40 mm	24 mm	1.05 mm	2 mm	M12x25	60

Technical Data

Sealing ring

- H-NBR
Temperature resistant -25 °C to +150 °C
- EPDM
Temperature resistant -40 °C to +120 °C
- Blue
- Hardness 85 ±5 Shore A
- FDA compliant

Star knob

- Stainless steel SUS 304 / 1.4301
06Cr19Ni10
- Stainless steel SUS 316 / 1.4404
0Cr17Ni12Mo2
- Polished <Ra0.8
- FDA compliant



光洁度 Ra0.8 镜面抛光	Roughness Ra0.8 Mirror Polished
盐雾测试 Salt Spray Test	>96 hours

Hygienic Design Star Knob

卫生设计工业旋钮把手

St. Steel SS304 不锈钢

Tolerance 公差要求 $\leq 0.15\text{mm}$

K071-HD



strict standards
SUS304

easy to clean
corrosion resistant
stable functionality
smooth and even surfaces



卫生防护 食品级表面 耐腐蚀 冲击防护 电磁兼容性
Hygienic protection Food grade Corrosion resistance Impact protection EMC protection



Place NBR or EPDM sealing ring



$< \text{Ra}0.8$

光洁度 $< \text{Ra}0.8$



17
2007-2024
YEARS



YIYE HARDWARE
Precision-Maker



Workshop

Producing Equipment(>60sets):

- (1) CNC center, 6 sets, machining precision 0.01mm
- (2) CNC machine 2 sets, machining precision 0.02mm
- (3) CNC machine 2 sets, machining precision <0.02mm
- (4) CNC Turn-mill combination 6 sets, machining precision 0.02mm
- (5) CNC machine 10 sets, machining precision 0.02mm
- (6) CNC machine 40 sets, machining precision <0.03mm
- (7) Sawing machine 4sets
- (8) Milling machine 2sets
- (9) Thread Rolling machine 1set



OO NOVA 7 SE 5G
OO AI QUAD CAMERA

Test Room

Test Equipment

- (1) Image Mapping Apparatus
- (2) Pneumatic Micrometer Air Gauge
- (3) Hardness Tester
- (4) offset runout detection instrument



You Can Trust





TAIZHOU YIYE HARDWARE CO LTD
台州一业金属制品有限公司

ADD: 559 Jingjiang Nan Road, Linhai 317000, Zhejiang, CN
地址: 中国 浙江省 临海市 靖江南路559号
TEL: 0086 576 85196688 FAX: 0086 576 85196687
Email: info@china-yiye.com

Sales manager: Mr. Leao Lee
Wechat: leao8091
Email: leao.lee@china-yiye.com
销售经理: 李先生 13606658091

Sales: Ms. Iris Yang
For hygienic design fittings
Wechat: wxid_eoamhns8incp22
Email: info@china-yiye.com

Sales: Ms. Jiajia Fang
For industrial fittings
Wechat: CrayonF
Email: service@chinaxinye.net



YIYE HARDWARE
Precision-Maker



17 YEARS
2007-2024



Manufactured by
ISO14001
Certified Plant



Manufactured by
ISO 9001
Certified Plant

www.china-yiye.com