

PNEUMATIC FENDER ACCESSORIES

Inspection Report

Product Name: Pneumatic fender \$\Phi\$2500x5500L

Purchase order: PO-001322-1/PNE-STOCK-FEB-2023

Initial Internal Pressure: 50kPa

Date: 16th, Jun 2023
Quality Department



Trelleborg Marine Engineering (Qingdao) Co., Ltd No.35, Ronghai 4 Road, Chengyang District, Qingdao 266111, China

The following pneumatic rubber fender components were examined, tested in accordance with the purchase order and specifications requirements.

- 1. Safety valve
- 2. Shackles
- 3. Swivel shackles
- 4. Chain
- 5. Towing lug







安全阀性能测试报告

Performance Test Report

公称通径:__DN80(185*135) Nominal diameter 使用温度: -40℃~+100℃ Suitable temprature

序列号: A20040011

工作压力: P 0.16-0.25 MPa Work temprature

适用介质: 气体 (Gas) 等 Suitable fluid

生产许可证号: TSF710106-2021

L	Serial number	Maufacturi	ing License NO.
l	检验项目	要求	结果
ı	Test project	Requirement	Result
	主要零件材料	根据标准规定	符合
ı	Part material	According to the standard	Qualified
	螺纹精度粗糙度 The accuracyand roughness	按图样 Meet thedrawing requirements	符合 Qualified
	主要连接尺寸 Connection dimensions	根据JB2203、JISB2220标准 According to the JB2203、 JISB2220 standard	符合 Qualified
	弹簧 Spring	进行探伤及刚度检验	符合 Qualified
l	强度试验	1.5PN (试验介质: 水)	符合
ı	Shell test	Test fluid: Water	Qualified
l	整定压力(MPa)	0.175±0.015(试验介质:空气)	符合
1	Set Pressure (MPa)	Test fluid: Gas	Qualified
1	密封性	≤20泡/分钟(试验介质:空气)	符合
1	Sealing property	Test fluid; Gas	Qualified

本产品按图样及GB/T12243-2005标准规定检验合格,准予出厂。

The product is according to the drawing and GB/T12243-2005 standard, inspection qualified.

国家质量监督局压力管道元件制造单 位安全注册,安全标记:TS

General Administration of Quality 印章: Supervision, Inspection Safety Valve and safety device, Safe sign: TS

上海埃弗斯阀门制造有限公司

Shanghai AFS Valve Manufacturing Co., Ltd.

2020 -04

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出厂检验员: 🏠 🤉

Checker

检验日期:

Test date

TB12555-5-1805-011 主要零件材料机械性能

Mechanical Properties							
零件名称	材料牌号	抗拉强度	屈服强度	伸长率	收缩率		
Part Name	Material	σb wn-	σ 0, 2	δ5 %	ψ %		
-	Name	MPa.	.MPa	76	70		
阀体 Body	SUS316	610	325	45	40		
阀盖 Cover	SUS316	610	325	45	40		
阀瓣 Disc	SUS316	520	205	35	40		
阀座 Seat	SUS316	520	205	35	40		
弹簧 Spring	SUS316	520	205	35	40		

主要零件材料化学成分

Chenical Composition

Cheffed Composition									
零件名称 Part Name	材料牌号 Material Name	碳 C	硅 Si	锰 Mn	磷 P	硫 S	铬 Cr	镍 Ni	钼 Mo
阀体 Body	SUS316	0. 025	0. 505	0. 999	0.034	0.014	16. 45	10. 18	2. 10
阀盖 Cover	SUS316	0. 025	0. 505	0. 999	0. 034	0. 014	16. 45	10. 18	2. 10
阀瓣 Disc	SUS316	0. 021	0. 41	1. 1	0. 034	0. 002	16. 26	10: 12	2. 05
阀座 Seat	SUS316	0. 021	0. 41	1. 1	0.034	0.002	16. 26	10. 12	2.05
弾簧 Spring	SUS316	0. 032	0. 35	1. 02	0. 035	0. 001	16. 57	10. 1	2. 12

安全阀性能测试报告

公称通径:_DN80(185*135)_ Nominal diameter 使用温度: -40℃~+100℃ Suitable temprature 序列号: 18040002

工作压力: P <u>0.16-0.25</u> MPa Work temprature

适用介质: _气体 (Gas) 等 Suitable fluid

生产许可证号: TSF710106-2021

Serial number Maufacturing License NO. 检验项目 要求 Requirement Result Test project 符合 主要零件材料 根据标准规定 Part material According to the standard Qualified 螺纹精度粗糙度 按 图 样 符合 The accuracyand Qualified Meet thedrawing requirements roughness 根据JB2203、JISB2220标准 符合 主要连接尺寸 According to the JB2203. Connection dimensions Qualified JISB2220 standard 弹簧 符合 进行探伤及刚度检验 Qualified Spring 强度试验 1.5PN (试验介质: 水) 符合 Shell test Test fluid: Water Qualified 整定压力(MPa) 0.175±0.015(试验介质:空气) 符合 Qualified Set Pressure (MPa) Test fluid: Gas ≤20泡/分钟(试验介质:空气) 符合 密封性

本产品按图样及GB/T12243-2005标准规定检验合格,准予出厂。

The product is according to the drawing and GB/T12243-2005 standard, inspection qualified.

国家质量监督局压力管道元件制造单 位安全注册,安全标记:TS

Sealing property

General Administration of Quality Supervision, Inspection Safety Valve and safety device, Safe sign: TS

上海埃弗斯阀门制造有限公司

Qualified

Shanghai AFS Valve Manufacturing Co., Ltd. 印章: Seal

Test fluid: Gas

出厂检验员: Checker

检验日期: Test date

2018 -04

主要零件材料	料机械性能
Mechanical	Properties

mechanical Fropercies							
零件名称	材料牌号	抗拉强度	屈服强度 σ 0, 2	伸长率 δ5	收缩率		
Part Name	Material Name	MPa	MPa	:%	%		
阀体 Body	SUS316	610	325	45	40		
阀盖 Cover	SUS316	610	325	45	40		
阀瓣 Disc	SUS316	520	205	35,	40		
阀座 Seat	SUS316	520	205	35	40		
弹簧 Spring	SUS316	520	205	35	40		

主要零件材料化学成分

Chanical Composition

. Chenical Composition .									
零件名称 Part Name	材料牌号 Material Name	碳 C	硅 Si	锰 Mn	磷 P	硫 S	铬 Cr	镍 Ni	钼 Mo
阀体 Body SUS316		0.025	0.505	0.999	0.034	0.014	16. 45	10. 18	2. 10
阀盖 Cover	SUS316	0.025	0.505	0.999	0.034	0.014	16, 45	10.18	2. 10
阀瓣 Disc	SUS316	0. 021	0. 41	1.1	0.034	0, 002	16. 26	10.12	2. 05
阀座 Seat	SUS316	0. 021	0.41	1.1	0.034	0.002	16, 26	10.12	2. 05
弾簧 Spring	SUS316	0.032	0.35	1.02	0.035	0.001	16. 57	10.1	2. 12



青岛天顺达机械制造有限公司

QINGDAO TAI STAR MACHINERY CO., LTD

证书编号: TSD190718-1

CERTIFICATE NO.: TSD190718-1

工厂检测证书

MILL CERTIFICATE AND CERTIFICATE OF QUANTITY

采购方: 特瑞堡工程系统(青岛)有限公司

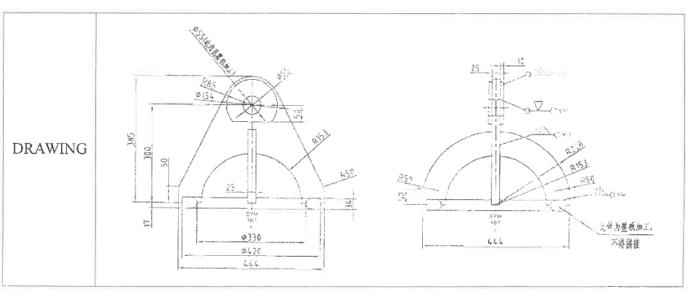
PURCHASER: Trelleborg Engineered Systems (Qingdao) Co., Ltd

货物描述

DESCRIPTION OF PRODUCT

1	货物	: =			2500-3300 拖拽吊耳
PRODUCT:					P2533TOWINGL
规	格	尺	寸:	详 见 以下	图 纸
SPI	ECIFI	CAT	ION:	ACCORDING TO	APPROVAL DRAWING
材			质:	Q345B	MATERIAL: Q345B
数			量:	4件	QUANTITY:4PCS
表	面	处	理:	热镀锌	SURFACE FINISHED: HOP DIP GALVANIZED
是	否	合	格:	是	APPEARANCE: CHECK OUT

所有尺寸均按照图纸进行生产 ALL SIZES MADE ACCORDING TO THE DRAWING



2、货物: G210 卸扣 7/8" PRODUCT: G210 SHACKLE 7/8" 卸扣名义尺寸 NOMINAL SIZE OF SHACKLE

 直径: __22 __MM
 额定载荷: __6.5 __T
 数量: __28 __件

 DIAMETER: __22 __MM
 WLL: __6.5 __T
 QUANTITY: __28 __PCS

 拉力负荷: __130 __KN
 PROOF TEST LOAD: __130 __KN

破断负荷: 390 KN BREAKING LOAD: 390 KN

表面处理: 热镀锌≥85 UM SURFACE FINISHED: H.D.G.≥85 UM

第 1 页 共 3 页

卸扣名义尺寸 NOMINAL SIZE OF SHACKLE QUANTITY: 28 PCS 表面处理: <u>热镀锌≥85 UM</u> SURFACE FINISHED: <u>H.D.G.≥85 UM</u> 4、货物: ______ G2130 卸扣 1-1/2" PRODUCT: G2130 SHACKLE 1-1/2" 卸扣名义尺寸 NOMINAL SIZE OF SHACKLE 5、货物: ______ G402 旋转环 1-1/2" G402 SWIVEL 1-1/2" PRODUCT: 卸扣名义尺寸 NOMINAL SIZE OF SHACKLE

 直径: __38 _MM
 额定载荷: __20 _T
 数量: __4 __件

 DIAMETER: __38 _MM
 WLL: __20 __T
 QUANTITY: __4 _ PCS

 表面处理: 热镀锌≥85 UM SURFACE FINISHED:H.D.G.≥85 UM PRODUCT: HAMMER LOCK 13MM 卸扣名义尺寸 NOMINAL SIZE OF SHACKLE 链环名义尺寸 NOMINAL SIZE OF CHAIN LINKS

链环名义尺寸 NOMINAL SIZE OF CHAIN LINKS

直径: <u>16 MM</u> 外长: <u>96 MM</u> 外宽: <u>57.6 MM</u>

DIAMETER: 16 MM OUTSIDE LENGTH: 96 MM OUTSIDE WIDTH: 57.6 MM

合同/定单编号(CONTRACT NO.): 4500030431 / T1906295

兹证明上述产品经本厂检验和试验,符合本厂规范和批准图纸要求,可以使用。

THIS IS TO CERTIFY THAT THE ABOVE-MENTIONED GOODS HAVE BEEN INSPECTED AND TESTED BY OUR FACTORY AND FOUND TO BE IN COMPLIANCE WITH STANDARD OF OUR FACTORY AND THAT IT IS FIT FOR USE.

检验员: <u>宋修君</u> 批准: <u>蓝孝柱</u> 发证日期: <u>2019 年 07 月 18 日</u>

INSPECTOR: XIUJUN SONG APPROVER: XIAOZHU LAN DATE OF ISSUE: 2019-07-18