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检测  
TESTING  
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# 检测报告

## Test Report

报告编号:  
Report No. WFM201911041

|                           |                                                         |
|---------------------------|---------------------------------------------------------|
| 样品名称:<br>Name of products | <u>闸阀<br/>Gate Valve</u>                                |
| 委托单位:<br>Applicant entity | <u>上海阀门厂股份有限公司<br/>Shanghai Valve Factory Co., Ltd.</u> |
| 生产单位:<br>Manufacturer     | <u>上海阀门厂股份有限公司<br/>Shanghai Valve Factory Co., Ltd.</u> |
| 检测类别:<br>Test type        | <u>型式检验<br/>Type Test</u>                               |

浙江省泵阀产品质量检验中心

Quality Inspection Center of Pump and Valve Products of Zhejiang Province

国家阀门质量监督检验中心（浙江）

National Quality Supervision and Inspection Center of Valve Products (Zhejiang)

浙江省泵阀产品质量检验中心  
Quality Inspection Center of Pump and Valve Products of Zhejiang Province  
国家阀门质量监督检验中心(浙江)  
National Quality Supervision and Inspection Center of Valve Products (Zhejiang)

## 检 测 报 告

### Test Report

报告编号Report №: WFM201911041

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|                                |                                                                                                                                                                                                                                                               |                                      |                                                                   |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------|
| 样品名称<br>Sample Name            | 闸阀<br>Gate Valve                                                                                                                                                                                                                                              | 型号规格<br>Model                        | CL300 NPS12                                                       |
| 委托单位<br>Applicant              | 上海阀门厂股份有限公司<br>Shanghai Valve Factory Co., Ltd.                                                                                                                                                                                                               | 地址<br>Address                        | 上海市嘉定区众百路111号<br>No.111,Zhongbai Road, Jiading District, Shanghai |
| 生产单位<br>Manufacturer           | 上海阀门厂股份有限公司<br>Shanghai Valve Factory Co., Ltd.                                                                                                                                                                                                               | 地址<br>Address                        | 上海市嘉定区众百路111号<br>No.111,Zhongbai Road, Jiading District, Shanghai |
| 检测类别<br>Test Type              | 型式检验<br>Type Test                                                                                                                                                                                                                                             | 商标<br>Trademark                      | /                                                                 |
| 生产日期<br>Product Date           | /                                                                                                                                                                                                                                                             | 样品状况<br>Sample Condition             | 外观完好<br>Visual quality without defect                             |
| 阀体材料<br>Body Material          | WCB                                                                                                                                                                                                                                                           | 炉号/锻打批号<br>Heat No. or Forge Lot No. | E8583                                                             |
| 样品数量<br>Quantity of Sample     | 1台 pcs                                                                                                                                                                                                                                                        | 样品编号<br>Sample No.                   | WFM201911041-001                                                  |
| 送样单位<br>Sending Entity         | 上海阀门厂股份有限公司<br>Shanghai Valve Factory Co., Ltd.                                                                                                                                                                                                               | 到样日期<br>Delivery Date                | 2019年11月12日                                                       |
| 检测地点<br>Inspection Location    | 检测中心<br>Test center                                                                                                                                                                                                                                           | 检测日期<br>Inspection Date              | 2019年11月18日                                                       |
| 检测依据<br>Inspection Basis       | ISO 15848-1:2015/Amd 1-2017 《工业阀门逸散性介质泄漏的测量、试验和鉴定程序 第 1 部分 阀门型式试验的分类和鉴定程序》<br>Industrial valves — Measurement, test and qualification procedures for fugitive emissions —Part 1:Classification system and qualification procedures for type testing of valves |                                      |                                                                   |
| 检测项目<br>Inspection Items       | 逸散性(微泄漏)试验。<br>Fugitive emission test.                                                                                                                                                                                                                        |                                      |                                                                   |
| 检测结论<br>Inspection Conclusions | 该样品所检项目的检测结果见第 2~5 页。<br>The test result is shown in sheet 2~5.                                                                                                                                                                                               |                                      |                                                                   |
| 备注<br>Remarks                  | /                                                                                                                                                                                                                                                             |                                      |                                                                   |



批准: 吴建东  
Approver: 吴建东

审核: 陈克强  
Reviewer: 陈克强

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Producer: 吴超俊

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| <div>浙江省泵阀产品质量检验中心</div> <div>Quality Inspection Center of Pump and Valve Products of Zhejiang Province</div> <div>国家阀门质量监督检验中心（浙江）</div> <div>National Quality Supervision and Inspection Center of Valve Products (Zhejiang)</div> <div>检 测 报 告</div> <div>Test Report</div>                                                                                                                                                                                                                                                                                                                                                                                       | <div>报告编号： WFM201911041</div> <div>Report №.</div> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <div>共 5 页 第 2 页</div> <div>(sheet 2 of 5)</div>   |
| <div>样品外观Photo of Test Sample</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    |
| <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |
| <div>样品主要参数Data of Test Sample</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                    |
| <div>a) 公称压力PN（或压力级Class）：<u>Class 300</u></div> <div>b) 公称尺寸DN（或公称管径NPS）：<u>NPS 12</u></div> <div>c) 阀杆（轴）密封说明Stem or Shaft seal descriptions:<div><div>1) 密封结构Sealing system: <u>填料与压盖 Packing With Gland</u></div><div>2) 阀杆直径Diameter of Stem or shaft (mm): <u>Φ42</u></div><div>3) 阀杆密封材料Stem or Shaft Seal Material: <u>柔性石墨 Flexible Graphite</u></div></div></div> <div>d) 阀体密封说明Body Seal Descriptions:<div><div>1) 密封结构Sealing system: <u>法兰与垫片 Flange With Gasket</u></div><div>2) 阀体密封材料Body Seal Material: <u>304+柔性石墨 304+ Flexible Graphite</u></div></div></div> <div>e) 驱动装置描述Description of the Actuator if Applicable: <u>蜗轮 Worm Gear</u></div> |                                                    |

|                                                                                                                                                                                                                                                                                                                                                                                   |                                          |                                             |                                                    |                                                                              |
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|                                                                                                                                                                                                                                                                                                                                                                                   |                                          |                                             | <div>共 5 页 第 3 页</div> <div>(sheet 3 of 5)</div>   |                                                                              |
| 检验项目<br>Test Items                                                                                                                                                                                                                                                                                                                                                                | 技术要求<br>Specifications                   |                                             | 检测数据<br>Test Data                                  | 判定<br>Evaluation                                                             |
| 逸散性<br>(微泄漏)<br>试验<br>Fugitive<br>Emission<br>Test                                                                                                                                                                                                                                                                                                                                | 试验压力<br>Test Pressure                    | 51.1 bar                                    | 51.1 bar                                           | 符合<br>Conform to<br>ISO FE<br>BH-CO1-SS<br>A0-t(RT)-CL<br>300-ISO<br>15848-1 |
|                                                                                                                                                                                                                                                                                                                                                                                   | 试验温度<br>Test Temperature                 | RT                                          | RT                                                 |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                   | 机械循环<br>Mechanical Cycles                | 205 次 Cycles                                | 205次Cycles                                         |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                   | 阀杆密封泄漏率<br>Stem or Shaft Seal<br>Leakage | $\leq 1.78 \times 10^{-6}$<br>mbar.L/(s.mm) | 见附件1<br>See Annex 1                                |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                   | 阀体密封泄漏率<br>Body Seal Leakage             | $\leq 50$ ppmv                              | 见附件1<br>See Annex 1                                |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                   | 阀杆密封调整次数<br>Stem Seal Adjustments        | $\leq 1$                                    | 0                                                  |                                                                              |
| <div>注Note 1：检测方法Test Method: 阀杆密封泄漏率Stem or Shaft Seal Leakage <u>真空法 Vacuum Method</u>，阀体密封泄漏率Body Seal Leakage <u>吸气法 Sniffing Method</u></div> <div>注Note 2：a) 环境条件Environment Conditions: <u>温度（Temperature）16℃，相对湿度（Relative Humidity）48%RH</u>；<br/>b) 试验介质Test Fluid: <u>氦气Helium，纯度Purity99.999%</u>；c) 机械循环频次Frequency of Mechanic Cycles: <u>2 Cycles / min</u>；</div> |                                          |                                             |                                                    |                                                                              |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|------------------------------------------|--------------------------|------------------------------------------|------------------------------|
| 检 测 报 告<br>Test Report                                                                                                                                                                            |             |                       |                                          |                          | 共 5 页 第 4 页<br>(sheet 4 of 5)            |                              |
| 附件Annex_1                                                                                                                                                                                         |             |                       |                                          |                          |                                          |                              |
| 机械循环<br>Mechanical Cycle                                                                                                                                                                          |             | 试验压力<br>Test Pressure | 阀杆密封<br>调整说明<br>Stem Seal<br>Adjustments | 试验温度<br>Test Temperature | 阀杆密封泄漏率<br>Stem or Shaft Seal<br>Leakage | 阀体密封泄漏率<br>Body Seal Leakage |
| 50次<br>cycles                                                                                                                                                                                     | 0次 cycles   | 51.1 bar              | /                                        | RT                       | $3.1 \times 10^{-8}$<br>mbar.L/(s.mm)    | 11.2 ppmv                    |
|                                                                                                                                                                                                   | 50次 cycles  | 51.1 bar              | /                                        | RT                       | $1.9 \times 10^{-7}$<br>mbar.L/(s.mm)    | /                            |
| 100次<br>cycles                                                                                                                                                                                    | 51次 cycles  | 51.1 bar              | /                                        | RT                       | $1.9 \times 10^{-7}$<br>mbar.L/(s.mm)    | /                            |
|                                                                                                                                                                                                   | 100次 cycles | 51.1 bar              | /                                        | RT                       | $3.9 \times 10^{-7}$<br>mbar.L/(s.mm)    | /                            |
| 150次<br>cycles                                                                                                                                                                                    | 101次 cycles | 51.1 bar              | /                                        | RT                       | $3.9 \times 10^{-7}$<br>mbar.L/(s.mm)    | /                            |
|                                                                                                                                                                                                   | 150次 cycles | 51.1 bar              | /                                        | RT                       | $5.4 \times 10^{-7}$<br>mbar.L/(s.mm)    | /                            |
| 205次<br>cycles                                                                                                                                                                                    | 151次 cycles | 102.1 bar             | /                                        | RT                       | $5.4 \times 10^{-7}$<br>mbar.L/(s.mm)    | /                            |
|                                                                                                                                                                                                   | 200次 cycles | 51.1 bar              | /                                        | RT                       | $1.4 \times 10^{-6}$<br>mbar.L/(s.mm)    | /                            |
|                                                                                                                                                                                                   | 205次 cycles | 51.1 bar              | /                                        | RT                       | $1.6 \times 10^{-6}$<br>mbar.L/(s.mm)    | 17.7 ppmv                    |

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| 逸散性(微泄漏)试验设备描述<br>Descriptions of Fugitive Emission Equipment                                                                                                                                                                                   |                                                                                                                                                                                                                                                                           |                                                                                                  |                                 |
| 设备名称Test Equipment: SFJ-261氦质谱检漏仪 Helium Mass Spectrometer<br>漏率指示范围Range of Leakage Detection: (1×10 <sup>-2</sup> ~1×10 <sup>-13</sup> ) Pa.m <sup>3</sup> /s或(10 <sup>-1</sup> ~10 <sup>6</sup> ) ppm                                        |                                                                                                                                                                                                                                                                           |                                                                                                  |                                 |
| 试验设备自校<br>Test Equipment Automatic Calibration                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                           |                                                                                                  |                                 |
| 校准方法<br>Calibration method                                                                                                                                                                                                                      | 校准工具Calibration Tools                                                                                                                                                                                                                                                     | 结果<br>Result                                                                                     | 结论<br>Conclusion                |
| 目标点校准<br>Setting Point Calibration                                                                                                                                                                                                              | 工具名称：真空检测标准混合气体<br>Tool Name：Standard gas mixture for vacuum inspection<br>工具编号、标准漏率/浓度：<br>Tool No., Standard Leakage /Concentration:<br>AF05104 (50 ppm)                                                                                                                | 仪器标漏值<br>Equipment Calibration Leakage Rate:<br><u>49.6</u> ppm                                  | 符合要求<br>Conform to requirements |
|                                                                                                                                                                                                                                                 | 工具名称：渗氦型真空校准漏孔<br>Tool Name：Permeability Helium Type Vacuum Standard Leak Hole<br>型号规格 Model and Specification: VCL-2<br>工具编号 Appliance No.: M11A-8-100<br>标准漏率/浓度 Standard Leakage /Concentration:<br>(1.4×10 <sup>-8</sup> ~1.7×10 <sup>-8</sup> ) Pa.m <sup>3</sup> /s | 仪器标漏值<br>Equipment Calibration Leakage Rate:<br><u>1.68×10<sup>-8</sup></u> Pa.m <sup>3</sup> /s |                                 |
| (以下空白Blank)                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                           |                                                                                                  |                                 |

## 注 意 事 项

### REMARKS

- 1、报告无编制、审核、批准人签字无效。  
Report is invalid without signatures by concerning persons of issuing, auditing and approvement.
- 2、报告由计算机打印输出，涂改无效。  
Report is output by the computer, and alteration is invalid.
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Report or copy is invalid without the red special test seal.
- 4、委托方若对报告有异议，应及时向本单位提出。  
Any dissent of inspection report should be proposed by applicant timely.
- 5、一般情况下，委托检测的结果仅对本次受检验样品有效。  
Generally, the report takes responsibility only for the tested samples tested.
- 6、中文与英文解释有差异的，以中文为准。  
If discrepancy exists between the Chinese and English explanations of the report, the Chinese version shall prevail.
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