



MILEHERTZ

# 蓄能器试验报告

## Accumulator Test Report

宁波市迈赫机械有限公司

Ningbo Milehertz Machinery Co., Ltd.





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# 常温耐压试验

## Normal Temperature Pressure Resistance Test

试验机构 (Lab.) : 宁波市迈赫机械有限公司,  
Ningbo Milehertz Machinery Co., Ltd.

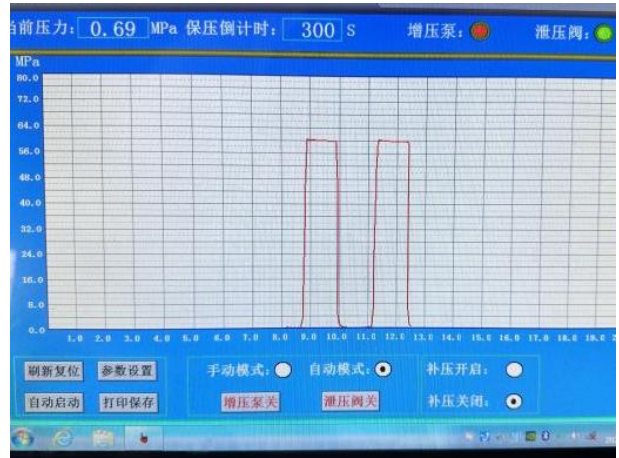
试验设备 (Equipment) : 耐压测试台, Pressure Resistance Test Machine

试验日期 (Test Date) : 2025-08-20

### 1. 试验条件 (Test conditions)

蓄能器编号 Accumulator SN	SN126656-SN126658		
蓄能器公称容积 Nominal Volume	0.75L	蓄能器隔膜材质 Membrane Material	NBR
试验介质 Test Medium	防锈水 Rust Preventive Solution		
压力上限 High Pressure Set	压力下限 Low Pressure Set	保压时间 Holding Time	试验比例 Cycle Ratio
60 MPa	0 MPa	1Min	100%

### 2. 试验图片 (Test Pictures)



### 3. 试验分析 (Test Analysis)

保压期间压力无下降, 蓄能器表面无水溢出, 证明蓄能器结构强度得到良好保证。试验后, 无渗漏, 无明显变形损伤, 试验合格。

During the pressure holding period, the pressure does not drop and no water overflows from the surface of the accumulator. It proves that the structural strength of the accumulator is well guaranteed. After the test, there is no leakage and no visible deformation damage. The test is qualified.

### 4. 试验结论 (Test Conclusion)

合格 Qualified

试验记录员: 检 1  
Recorded by:

审核  
Audited by:



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## 常温密封/动作性能测试

### Normal Temperature Sealing/Action Performance Test

试验机构 (Lab.) : 宁波市迈赫机械有限公司,

Ningbo Milehertz Machinery Co., Ltd.

试验设备 (Equipment) : 油压测试台, Oil Pressure Test Machine

试验日期 (Test Date) : 2025-08-20

#### 1. 试验条件 (Test conditions)

蓄能器编号 Accumulator SN	SN126656-SN126658		
蓄能器公称容积 Nominal Volume	0.75L	蓄能器隔膜材质 Membrane Material	NBR
试验介质 Test Medium	液压油 Hydraulic Oil		
压力上限 High Pressure Set	压力下限 Low Pressure Set	保压时间 Holding Time	试验比例 Cycle Ratio
36.3 MPa	0 MPa	1Min	100%

#### 2. 试验图片 (Test Pictures)



#### 3. 试验分析 (Test Analysis)

保压期间, 蓄能器压力无下降, 表面无漏油, 泄压后气端预充压力不变, 证明隔膜完好, 蓄能器性能良好。试验后, 无泄漏, 无明显变形损伤, 试验合格。  
 During the holding period, there is no drop of pressure and no oil spills from the surface of the accumulator. The pre-charged pressure at the gas port remains unchanged after oil pressure is relieved, proving that the diaphragm is intact and the accumulator is performing well. After the test, there is no leakage and no visible deformation damage. The test is qualified.

#### 4. 试验结论 (Test Conclusion)

合格 Qualified

试验记录员:

检 1

Recorded by:

审核:

Audited by:





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## 常温疲劳循环试验

## Normal Temperature Fatigue Cycle Test

试验机构 (Lab.) : 宁波市迈赫机械有限公司,  
Ningbo Milehertz Machinery Co., Ltd.

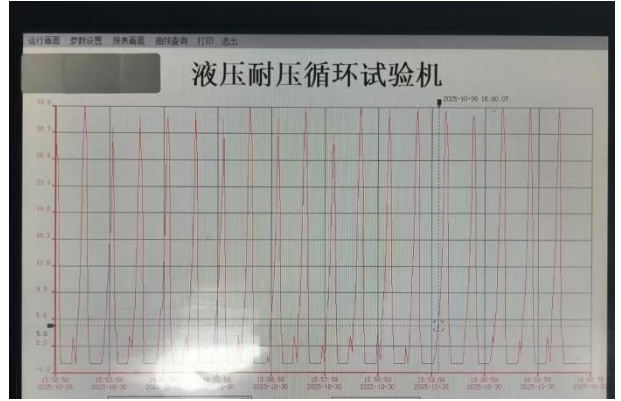
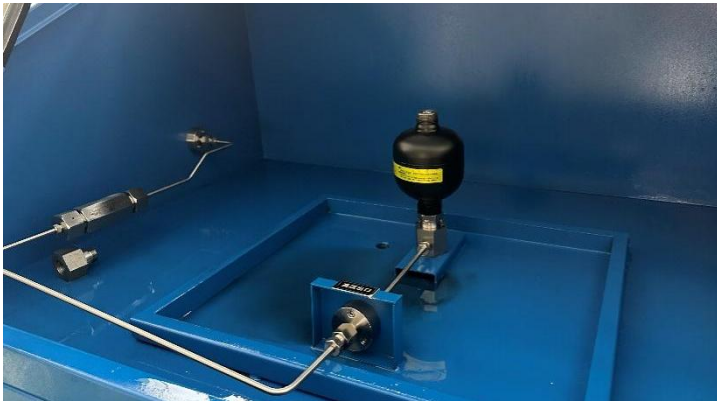
试验设备 (Equipment) : 疲劳试验台, Fatigue Test Machine

试验日期 (Test Date) : 2025-03-30~2025-08-15

### 1. 试验条件 (Test Conditions)

蓄能器编号 Accumulator SN	SN103351		
蓄能器公称容积 Nominal Volume	0.75L	蓄能器隔膜材质 Membrane Material	NBR
试验介质 Test Medium	液压油 Hydraulic Oil		
压力循环上限 High Pressure Set	压力循环下限 Low Pressure Set	预充气压 Pre-Charged Pressure	循环频率 Cycle Frequency
33 MPa	0 MPa	16.5 MPa	6/ Min

### 2. 试验图片 (Test Pictures)



### 3. 试验分析 (Test Analysis)

该蓄能器试验次数为 1 200 000 次, 试验后, 壳体表面及焊缝处无泄漏, 无可见变形损伤, 预充压力与试验前一致, 蓄能器寿命满足要求。

The number of tests for the accumulator is 1 200 000. After testing, there is no leakage on the surface of the shell and the welding, no visible deformation damage. The pre-charged pressure is consistent with that before the test, and the lifetime of the accumulator meets the requirements.

### 4. 试验结论 (Test Conclusion)

合格 Qualified

试验记录员: 检 1

Recorded by:

审核:

Audited by:





## 爆破测试 Burst Test

试验机构 (Lab.) : 宁波市特种设备检验研究院

Ningbo Special Equipment Inspection and Research Institute

试验设备 (Equipment) : 压力测试机, Pressure Machine

试验日期 (Test Date) : 2023-5-15

### 1. 试验条件 (Test conditions)

蓄能器编号 Accumulator SN	SN016638		
蓄能器公称容积 Nominal Volume	0.75L	试验介质 Test Medium	水 Water
最大测试压力 Maximum test pressure	1320 Bar	试验环境温度 Test Environment Temperature	26°C
升压速度 Boost rate	5 Bar/s	试验水温 Test water temperature	18°C

### 2. 试验分析 (Test Analysis)

该蓄能器在压力升至 1320bar 时, 产品并未爆破, 蓄能器的爆破压力符合要求。

The accumulator did not burst when the pressure rose to 1320 bar, and the burst pressure of the accumulator met the requirements.

### 3. 试验结论 (Test Conclusion)

合格 Qualified

试验记录员:

检 1

Recorded by:

审核:

Audited by:





## X 射线检测 X-Ray Test

试验机构 (Lab.) : 上海中谱检测技术有限公司

Shanghai Zhongpu Testing Technology Co., Ltd

试验设备 (Equipment) : X 射线探伤机,X-ray Flaw Detector

试验日期 (Test Date) : 2025-8-21

### 1. 试验条件 (Test conditions)

蓄能器编号 Accumulator SN	SN123580		
蓄能器公称容积 Nominal Volume	0.75L	射线源种类 Types of radiation sources	X 射线 X-Ray
壳体材质 Shell Material	Q355ME	验收标准 Acceptance Standard	Classes AB
焊接深度 Welding Depth	10.1mm	检测比例 Detection Rate	100%
透照技术 Transillumination technology	Single-chip X-ray	透照方式 Transillumination method	双壁双影 Double Wall Double Shadow
透照参数 F/f/b Illumination Parameters F/f/b	600mm/592mm/8mm	管电压 Control Voltage	140KV
管电流 Tube Current	5mA	曝光时间 Exposure Time	1.0min

### 2. 试验分析 (Test Analysis)

该产品焊接处无缺陷, 焊接质量等级符合 AB 类要求。

The welds of this product are free of defects, and the welding quality meets the requirements of class AB.

### 3. 试验结论 (Test Conclusion)

合格 Qualified

试验记录员:

检 1

Recorded by:

审核:

Audited by:





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# 盐雾测试

## Salt Spray Test

试验机构 (Lab.) : 宁波中普检测技术服务有限公司

Product Technology Service (Ningbo) Co., Ltd

试验设备 (Equipment) : 盐雾测试箱, Salt Spray Test Chamber

试验日期 (Test Date) : 2025-10-15~2025-10-24

### 1. 试验条件 (Test conditions)

蓄能器编号 Accumulator SN	SN137081		
蓄能器公称容积 Nominal Volume	0.75L	壳体材质 Shell Material	Q355ME
测试标准 Test Standard	ISO 9227	验收标准 Evaluation criteria	DIN EN ISO4628: 2016
试验用盐和水 Salt and water for experimentation	分析纯 NaCl 试剂、纯离子水 Analytical reagent NaCl, deionized water	浓度 Concentration	5%NaCl 溶液 5% NaCl solution
pH	6.5~7.2	饱和箱温度 Saturated box temperature	47°C
试验温度 Test temperature	35±2°C	测试时间 Test Time	240H

### 2. 试验要求 (Test Requirement)

Adhesion by cross cutting test 通过横切试验进行附着力	Corrosion Creep 腐蚀蠕变	Rust grade 锈蚀等级	Blister 气泡
Max, Gt1	<2mm	Ri1	m0/g0

### 3. 试验结果 (Test Result)

Adhesion by cross cutting test 通过横切试验进行附着力	Corrosion Creep 腐蚀蠕变	Rust grade 锈蚀等级	Blister 气泡
Gt0	0.5~0.8mm	Ri0	m0/g0

合格 Qualified

试验记录员:

Recorded by:

检 1

审核:

Audited by:

