

Test Report No.: 748204251902  
Dated 25-Aug-2015



China

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**SUBJECT** IP68 Test

**TESTED BY** TÜV SÜD Certification and Testing (China) Co., Ltd.  
Shanghai Branch Testing Center

**Environmental and Reliability Laboratory**  
No.1951, Building 16, Duhui Road, Minhang District  
Shanghai 201108, P. R. China

**TESTED FOR** NUTORK CORP.  
NO.158, LANE 1888, DAYE ROAD, FENGXIAN AREA, SHANGHAI, CHINA

**TEST PERIOD** 07-Apr-2015 and 19-Aug-2015.

**Prepared By**

25-Aug-2015  
Lv Songmao  
Test Engineer

**Authorized By**

25-Aug-2015  
Lai Chaozhong  
Manager

## 1 Description of Sample

Sample Name: NTQ Series Electric Actuator.

Sample Model: NTQ-XXXX+PCU+LCUX.

Sample Quantity: 2 pieces.

Sample Weight: 12KG.

Sample No: 1#, 2#.

Sample Picture:



2 IPX8 Test (Water Test)

**Equipment of Test:**

Equipment	Manufacturer	Serial No.	Cal. Due Date
IP7/8 tester	Xinghe (Guangzhou)	S0712369-YQ	17-May-2015

**Lab Environmental Conditions:**

Ambient Temperature: 23.1°C.  
Relative Humidity: 52.8%RH.

**Test Methods/Specification:**

Test methods: According to IEC 60529: 2013.  
Test conditions:  
- The distance of below the surface of water: 1.0 m.  
- Test pressure: 0.29MPa (Equal to 30m depth of water).  
- Immersion duration: 24 hours.

**Test Setup:**



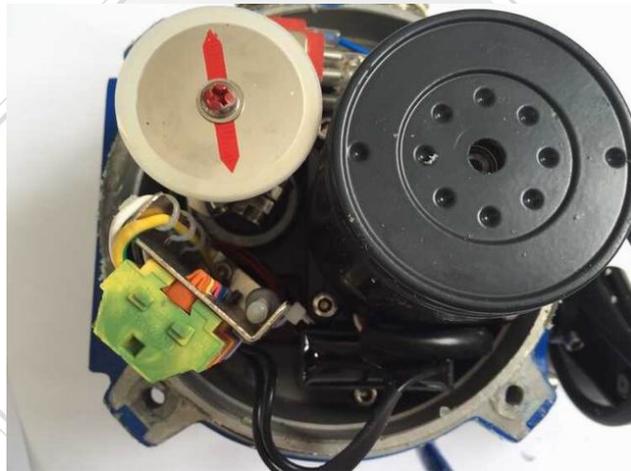
**Test Result:**

Sample No	Test Result
1#	- No water was found inside the enclosure after test.

**Appendix 1:** Sample pictures after test.



Detail 1



Detail 2



Detail 3

3 IP6X Test (Dust Test)

**Equipment of Test:**

Equipment	Manufacturer	Serial No.	Cal. Due Date
Dust tester	ENVAN	TC_SH_ENV_EQ_028	12-May-2015

**Lab Environmental Conditions:**

Ambient Temperature: 23.1°C.  
Relative Humidity: 52.8%RH.

**Test Methods/Specification:**

Test methods: According to IEC 60529: 2013.  
Test conditions:

Sample was tested in a dust chamber in which talcum powder is maintained in suspension by an air current. The chamber contains 2 kg of powder for every cubic metre of its volume. The talcum powder used was able to pass through a square meshed sieve whose nominal wire diameter is 50 µm and whose nominal free distance between wires is 75 µm. It shall not have been used for more than 20 tests.

The enclosure of sample is supported inside the test chamber and the pressure inside the enclosure is maintained below the surrounding atmospheric by a vacuum pump.

Test duration is 8 hours.

Pressure inside the enclosure of sample: < 2kPa

**Test Setup:**



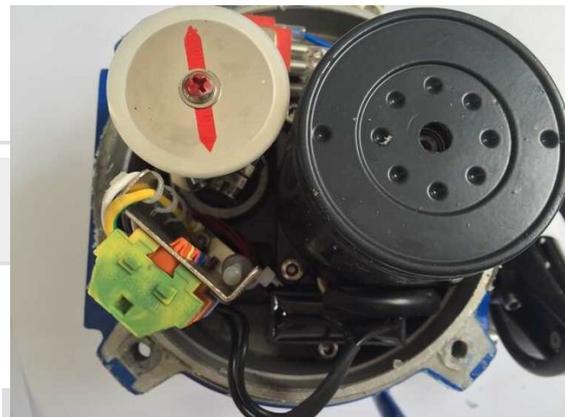
**Test Result:**

Sample No	Test Result
2#	- No dust was found inside the enclosure after test.

**Appendix 2:** Sample pictures after test.



Detail 1



Detail 2



Detail 3



Detail 4



Detail 5



China

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