

TEST REPORT

1. Applicant

Name : I-TORK CONTROLS Ltd.
Address : 74-6. Chunui-dong, Wonmi-gu, Bucheon-si,
Gyeonggi-do, Korea

2. Products

Name : Electric Actuator
Model/Type : ITQ 0800
Manufacturer : I-TORK CONTROLS Ltd.
Remark : -

3. Test Standard/Method : IEC 60529:2001, KS C IEC 60529:2002

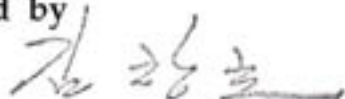
4. Test Results : IP68 (Refer to document)

5. Use of Report : For Quality Control.

6. Date of Application : 2010. 01. 06

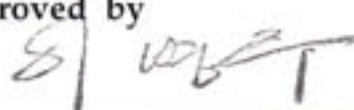
7. Date of Issue : 2010. 01. 13

Tested by



Machinery Components Center
Chang-ho Kim

Approved by



Machinery Components Center
Leader Byung-woo Lee

The above test report is the accredited test results by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

Korea Testing Laboratory

222-13, Guro3-Dong Guro-Gu Seoul, 152-718, Korea.
<http://www.ktl.re.kr>

Tel. : +82-2-860-1531
Fax. : +82-2-860-1549

TEST RESULTS

for Degree of protection provided by enclosures(IP Code)

1. Test Results

Code letters	IP	Test method and Record	Results
1st Characteristic numerals Against ingress of solid foreign objects	6	1. CONDITIONS 1.1 Talcum powder(mesh) : Wire diameter=50 μ m, width between wires=75 μ m 1.2 Amount of talcum powder of the test chamber : 2kg/m ³ 2. TEST 2.1 Volume of the enclosures : about 6,500 cm ³ 2.2 Reduction air pressure : -2.0 kPa (-200 mmH ₂ O) 2.3 Flow rate : 0.0 LPM 2.4 Extraction rate per hour : 0 volumes/h 2.5 Test duration : 8 hours	Pass
2nd Characteristic numerals Against ingress of water with harmful effects	8	1. CONDITIONS 1.1 The lowest point of enclosure : 450 mm 1.2 The highest point of enclosure : 137 mm 1.3 Differential temperature of water and enclosure (less than 5K) : about 1.0 K 1.4 Air Pressure test : 1.0 kg/cm ² 2. TEST 2.1 The duration of the test is : 100 hour	Pass

2. Reference Data

- (1) Test conditions : 19.0 $^{\circ}$ C, 34 %RH, 86~106 kPa
- (2) Size : 380 mm×287 mm×313 mm
- (3) Identical Model : ITQ 1100 (380 mm×287 mm×313 mm)

TEST REPORT

1. Applicant

Name : I-TORK CONTROLS Ltd.
Address : 74-6, Chunui-dong, Wonmi-gu, Bucheon-si,
Gyeonggi-do, Korea

2. Products

Name : Electric Actuator
Model/Type : ITQ 3000
Manufacturer : I-TORK CONTROLS Ltd.
Remark : -

3. Test Standard/Method : IEC 60529:2001, KS C IEC 60529:2002

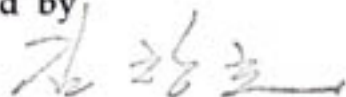
4. Test Results : IP68 (Refer to document)

5. Use of Report : For Quality Control.

6. Date of Application : 2010. 01. 06

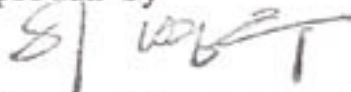
7. Date of Issue : 2010. 01. 13

Tested by



Machinery Components Center
Chang-ho Kim

Approved by



Machinery Components Center
Leader Byung-woo Lee

The above test report is the accredited test results by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

Korea Testing Laboratory

222-13, Guro3-Dong Guro-Gu Seoul, 152-718, Korea.
<http://www.ktl.re.kr>

Tel. : +82-2-860-1531
Fax. : +82-2-860-1549

TEST RESULTS

for Degree of protection provided by enclosures(IP Code)

1. Test Results

Code letters	IP	Test method and Record	Results
1st Characteristic numerals Against ingress of solid foreign objects	6	1. CONDITIONS 1.1 Talcum powder(mesh) : Wire diameter=50 μm, width between wires=75 μm 1.2 Amount of talcum powder of the test chamber : 2kg/m³ 2. TEST 2.1 Volume of the enclosures : about 11,000 cm³ 2.2 Reduction air pressure : -2.0 kPa (-200 mmH₂O) 2.3 Flow rate : 0.0 LPM 2.4 Extraction rate per hour : 0 volumes/h 2.5 Test duration : 8 hours	Pass
2nd Characteristic numerals Against ingress of water with harmful effects	8	1. CONDITIONS 1.1 The lowest point of enclosure : 450 mm 1.2 The highest point of enclosure : 65 mm 1.3 Differential temperature of water and enclosure (less than 5K) : about 1.0 K 1.4 Air Pressure test : 1.0 kg/cm² 2. TEST 2.1 The duration of the test is : 100 hour	Pass

2. Reference Data

- (1) Test conditions : 19.0 $^{\circ}$ C, 34 %RH, 86~106 kPa
- (2) Size : 440 mm×375 mm×385 mm
- (3) Identical Model : ITQ 2000 (440 mm×375 mm×385 mm)
ITQ 6000, ITQ 9000 (516 mm×417 mm×668 mm)