

TEST REPORT



Report No. : 18-024320-01-2

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1. Client

Name : TISSIN Co., Ltd.

Address : Rm202-801, 397, Seokcheon-ro, Bucheon-si, Gyeonggi-do, Korea

Date of Receipt : 2018. 04. 18

2. Use of Report : To verify IP grade to IEC 60529

3. Test Sample

Description : SMART POSITIONER

Manufacturer : TISSIN Co., Ltd.

Model Name : TS800

Serial Number : -

Remark : -



4. Date of Test : 2018. 05. 03. ~ 2018. 05. 04.

5. Test Standard/Method : IEC 60529: 2001

6. Testing Environment : Temperature : (20.7 ± 2.0) °C , Humidity : (35 ± 2) % R.H.

7. Test Results : Pass (IP66)

- Note : 1. This test results contained apply only to the test sample(s) supplied by the client, and it is prohibited to use for legal and other grounds of dispute
2. This test results is valid only for the original document, and arbitrary reprocessed copy and electronic prints are not valid.
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4. Items marked with an asterisk (*) are out of range of the KOLAS accreditation of KTL.

Affirmation	Tested by		Technical Manager
	Name : Chae Hui-dong	 (Signature)	Name : Min Yeong-seung  (Signature)

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

2018. 05. 14

Korea Testing Laboratory

Accredited by KOLAS, Republic of KOREA



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FP202-03-04 ·



※ 위 마크는 추후 전자확인증 대조 프로그램에서 원본대조시 사용되는 2D코드입니다.

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1. Summary of Test

1.1 Test Standard

This test was conducted in accordance with "IEC 60529: 2001".

1.2 Test Sample

- Description : SMART POSITIONER
- Model Name : TS800
- Dimensions : 214 mm × 111 mm × 129 mm



[Fig. 1: Front]



[Fig. 2: Side]

1.3 Test Environment

- Temperature : (20.7 ± 2.0) °C
- Humidity : (35 ± 2) % R.H.
- Atmospheric Pressure : (101.5 ± 2.0) kPa

1.4 Remark

N/A

2. Results

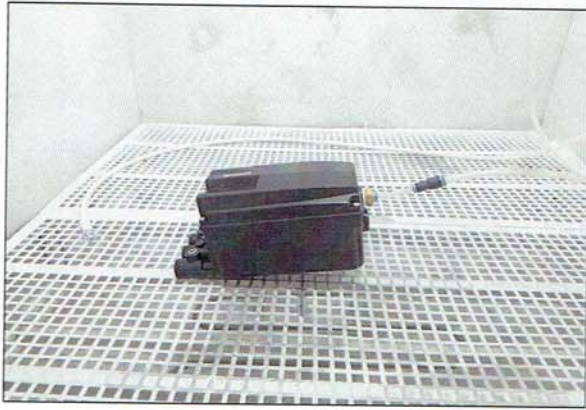
Code Letters	IP	Conditions	Results
1st Characteristic numerals Against ingress of solid foreign objects	6	2.1 Dust Test Conditions <ul style="list-style-type: none"> Talcum powder(mesh) wire diameter: 50 μm Talcum powder(mesh) wire width: 75 μm Amount of talcum powder of the test chamber: 2 kg/m^3 2.2 Dust Test Contents <ul style="list-style-type: none"> Volume of the enclosures: About 1242 cm^3 Reduction air pressure: -2.00 kPa (-200 mmH_2O) Flow rate: 0.01 L/min Extraction rate per hour: 0.48 volumes/h Test duration: 8 h 	Pass
2nd Characteristic numerals Against ingress of water with harmful effects	6	2.3 Water Test Conditions <ul style="list-style-type: none"> Internal diameter of the nozzle: 12.5 mm Delivery rate: (100 \pm 5) L/min Core of the substantial stream: Circle of 120 mm diameter at 2.5 m distance from the nozzle Distance from nozzle to enclosure surface: 2.8 m 2.4 Water Test Contents <ul style="list-style-type: none"> Test duration: 3 min 	Pass

3. List of Testing Equipments

Equipment	Manufacture	Model	ICP No.	Date of Calibration	Calibration Laboratory
Thermo-hygrometer	TESTO	Testo 622	ICP20140892	2017. 05. 23	KTL
Vernia Caliper	MITUTOYO	CD-20APX	ICP20160207	2017. 05. 18	KTL
Stopwatch	CASIO	HS-30W	ICP20142326	2017. 09. 27	KTL
Flow Meter (Nozzle)	KOMETER	GA-101	ICP20150325	2017. 05. 31	DDHT
Flow Meter (Dust Chamber)	DWYER	RMA-13-SSV	ICP20150476	2017. 05. 25	KTL

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4. Test Figures



[Fig. 3: IP 6X]



[Fig. 4: IP X6]

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