

# NEWTORK KOREA

The world leader in actuation solution

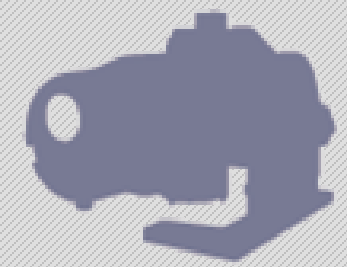
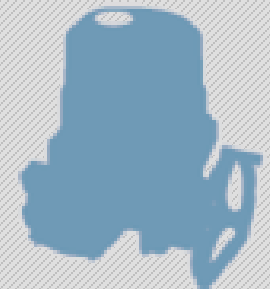
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INTELLIGENT ELECTRIC ACTUATOR  
MULTI-TURN / PART-TURN

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**COMPANY AND PRODUCT PROFILE**

[www.newtork.co.kr](http://www.newtork.co.kr)





**NEWTORK KOREA** was founded by engineers with more than 20years experience in the valve industry. For more than 10 years, we have manufactured and supplied electric actuators, functional control devices for plant fluid management and we are certified to ISO 9001, ISO14001, and OHSAS 18001 quality assurance standard.

# BUSINESS AREA

01

Power Plant

02

Water & Sewage

03

Gas & Oil

Petrochemical Plant

04

Nuclear Energy

05

Dam

06

Shipyard

07



**ELECTRIC ACTUATOR**



**MOTOR OPERATED VALVE**



**MOV CONSULTING**



**SITE SERVICES**

# HISTORY

## 2007 - 2008

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Founded a company

Assumed a representative director

Contracted BIFFI Italy sub-agent

Registered a plant

## 2012 - 2013

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Contracted Limitorque agent

Registered a trademark

Changed a representative director

## 2014

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Registered a patent

Contract Limitorque agent

## 2015

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Obtained certificates of ISO 9001:2004,  
ISO14001:2004

Registered a patent

Acquired for venture business

Acquired for process risk evaluation

## 2016

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Registered a patent

Received a certificate of merit

Acquired for clean and safe factory

## 2017

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Registered a research institute

Obtained certificates of OHSAS 18001:2007

Acquired for promising export firm

## 2018

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Acquired for innovation business

Obtained certificates of ISO 9001:2015,  
ISO14001:2015

Acquired for CE waterproof (IP68-15M,90Hr)

Acquired for Product-specific Approved Exporter

Attend to Work-life balance campaign

Received a prime minister citation for product  
development

Acquired for GGWP from Gyeonggi Province

## 2019

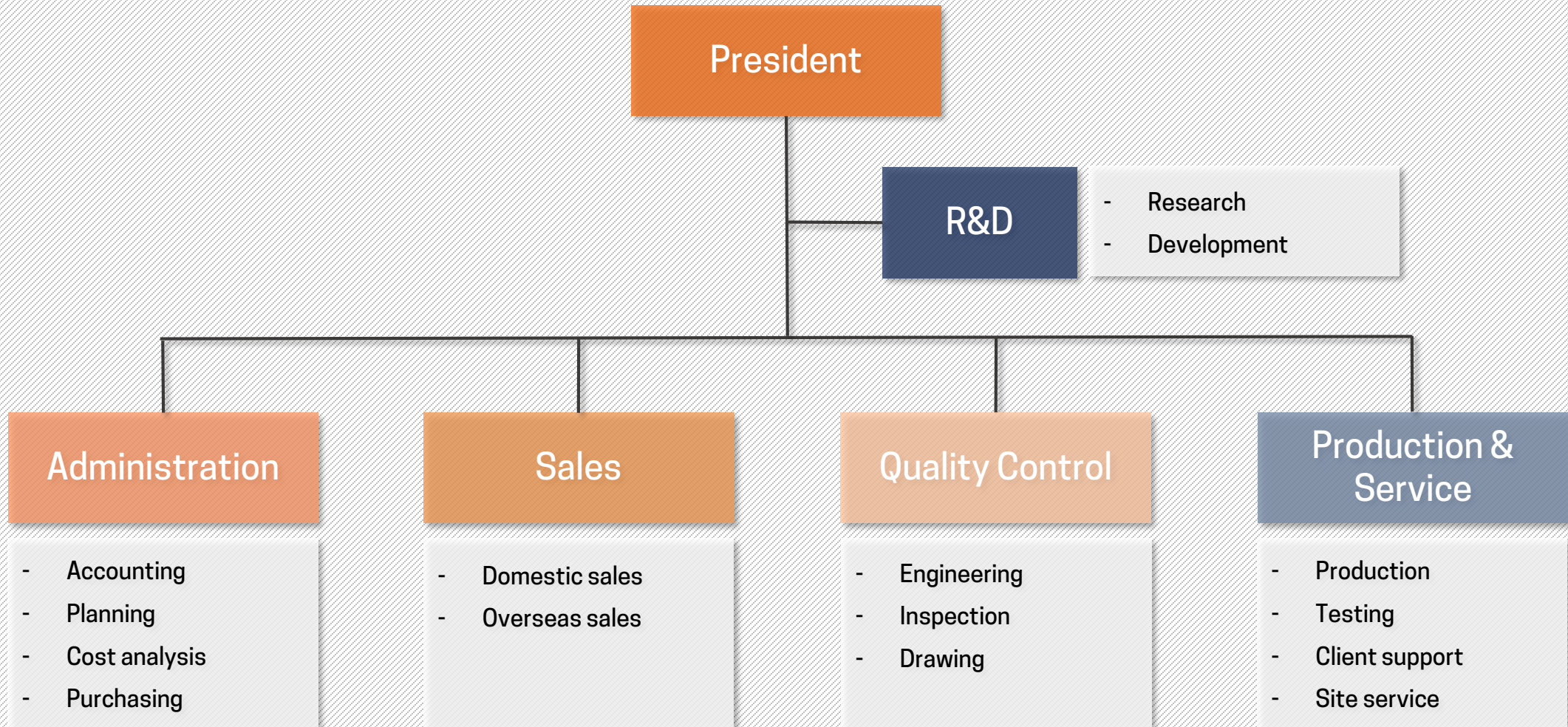
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Acquired Excellent Performance Certification

Acquired TRCU Certificate

Acquired approval certificate from Dubai  
Municipality

# ORGANIZATION



**환경미디어**  
Korea Environmental Media

가정13회  
2018년 한국 환경 미디어  
Korea Environmental Awards

환경미디어

환경정책 | 경영/산업 | 환경/생태 | 자원순환 | 친환경 기술/제품 | 보전/민원 | 교육/문화 | 온채니언 | 전시/행사 | 캠페인

HOME | 경영/산업 | CEO/경영

**[기업탐방] "스마트" 자동화 선도 '뉴욕코리아(주)**  
비건업디자인과 이후 방수구조 등 '최상의 솔루션 제공'

주요기사 | [Blog] | [News] | [2018-04-26 13:33:34]

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이동통신기사와 관련 기사

1. 65대일 일기로 시장 전체 2개월 만에 2분기 반등
2. '태풍도가 커라' (Korea)의 국내 대관 100일 100%
3. [한세] 포스트 일일상업 2018.03.22
4. 고속도로 영업권 수급제 도입... 2018년 1분기 실적 발표 4분기
5. LG화학, F-대선 이력도 4대 서비스 수급
6. [부지] 하안구(4000) 대대

**HOT 뉴스**

뉴스를 읽다! (Korea) 관련 기사

자신의 기술이 파괴되고 할당이 될지 모르며 경영자가 시장(종종)을 보는 눈을 잃게 되면 그 기업의 미래는 장담할 수 없다.  
경영태도 변화에 따른 제품개발의 지연과 시장 확대에서도 판매단계의 신기술 개발의 지연을 방지하고 유능한 인재를 확보하는 것만이 시장에서 경쟁력을 유지하는 길이다.

AVING GLOBAL NETWORK

Global News Network | KOREA

뉴스 | 산업 | 경제 | 포커스 | AVING TV | MADE IN KOREA | 포커스 | 카운터파트 | AVING ONE | VIP Award

주요 뉴스 | 포커스 | 포커스 | 포커스 | 포커스 | 포커스 | 포커스 | 포커스

**[마리놀은 ENTECH Vietnam] 뉴토크코리아, 전기액추에이터를 갖춘 새로운 구동 장치 'Electric Actuator' 소개 예정**

작성일 2017-04-27

AVING 뉴스센터 | 10000000

왕정현 (Wan Park)

이 기자의 최신 기사 (총 873건)

- \* [포커스] KINCO 2018 H20, H21, H22, H23, H24, H25, H26, H27, H28, H29, H30, H31, H32, H33, H34, H35, H36, H37, H38, H39, H40, H41, H42, H43, H44, H45, H46, H47, H48, H49, H50, H51, H52, H53, H54, H55, H56, H57, H58, H59, H60, H61, H62, H63, H64, H65, H66, H67, H68, H69, H70, H71, H72, H73, H74, H75, H76, H77, H78, H79, H80, H81, H82, H83, H84, H85, H86, H87, H88, H89, H90, H91, H92, H93, H94, H95, H96, H97, H98, H99, H100, H101, H102, H103, H104, H105, H106, H107, H108, H109, H110, H111, H112, H113, H114, H115, H116, H117, H118, H119, H120, H121, H122, H123, H124, H125, H126, H127, H128, H129, H130, H131, H132, H133, H134, H135, H136, H137, H138, H139, H140, H141, H142, H143, H144, H145, H146, H147, H148, H149, H150, H151, H152, H153, H154, H155, H156, H157, H158, H159, H160, H161, H162, H163, H164, H165, H166, H167, H168, H169, H170, H171, H172, H173, H174, H175, H176, H177, H178, H179, H180, H181, H182, H183, H184, H185, H186, H187, H188, H189, H190, H191, H192, H193, H194, H195, 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**NEWTORK KOREA** has in-depth experience in retrofit and the strength to deliver on-site service that even covers products of other makers. With the expertise to advise on national standard enactment of electric actuators, **NEWTORK KOREA** is developing next-generation products to reduce the burden on customers and increase convenience.

# **PRODUCT: Features**

- 01 It is made of Aluminum which is **lightweight, resistant to corrosion**.
- 02 As introduced **non-interfacial designs** are provided, can be set the product with a setting tool without opening the control room cover; to prevent ingress of dust or humidity from the site.
- 03 It is designed with a **double waterproof structure**, fully protecting internal electric operation parts despite a terminal cover open.
- 04 Waterproof structure offer highest grade **IP68 by enduring 90 hours under water 15m depth** and it is the best in the industry.
- 05 A precise encoder and pressure sensor is provided and it allows **accurate torque and position measurements** and shows the change amount in **1 %** units in LCD window.
- 06 It features a variety of **product protection functions** such as position transmit(4~20mA) function, and auto-synchrophase as a standard.
- 07 The handwheel design has been adapted for **efficient manual operation** and has a half wheel gap to facilitate manual operation using the Hammer Blow effect.
- 08 It is a smart and has the function which **automatically detects and removes foreign substance**.



# PRODUCT: Specification

| CONTENTS                 | DESCRIPTION   |   | REMARK               |
|--------------------------|---|---|----------------------|
| Main Power Supply        | Find the nameplate attached on the product  |   |                      |
| Motor                    | 3 Phase AC motor  | Single Phase AC motor                   |                      |
| Motor Control            | Magnetic Contactor  |   |                      |
| Motor Protection         | Thermostat: Enable at 132°C (270°F) motor surface temperature   |   |                      |
| Location Sensor          | Saves the number of turns through Counting PCB method   |   |                      |
| Torque Sensor            | Torque Transducer method through Strain Gauge which detects the slight amount of torque value in units of % |   |                      |
| Input Command Signal     | Standard: 24DCVD  | Option: 110VAC                          |                      |
| ESD Control              | Enable by setting (Full Open or Full Close)   |   |                      |
| Location Display Unit    | Directly connected to the output shaft to indicate position on the display window                           |   |                      |
| Relay                    | Standard: Monitor Relay and 4 contacts  | Option: 8 contacts (Total)              |                      |
| Analog Output            | Position actual value, 4-20mA or 20-4mA   |   |                      |
| Local Control            | REMOTE/STOP/LOCAL Switch (or Button)  | 3 color LED lamp, infra-rad receive lam |                      |
|                          | OPEN/CLOSE Switch (or Button)   | LCD display window                      |                      |
| Manual / Motor Operation | Manual->Motor : Convert to Motor operation when motor is driven   |   |                      |
|                          | Motor->Manual : Convert to Manual operation when clutch is engaged by pressing hand auto lever              |   |                      |
| Structure                | NTI, NTIT Series : Waterproof IP68 (15m depths, 90hours), NTIR Series: Waterproof IP67                      |   | EN60529:1991/A2:2013 |



# PRODUCT: Specification

| CONTENTS                   | DESCRIPTION   | REMARK |
|----------------------------|---|--------|
| Material                   | Aluminum/stainless alloy fastner, Cast iron thrust base                             |        |
| Operating Temperature      | -30℃ ~ +70℃ (-22°F ~ +158°F)  |        |
| Operating Under Load Cycle | On-Off rating: S2-15min: 60 operation per hour                                      |        |
|                            | Modulating rating: S4-30min: 1200 operation per hour                                |        |
| Life Cycle                 | 100,000 cycles with Open-Close-Open   |        |
| Noise                      | Under 61dB(A) within 1m distance  |        |
| Vibration                  | The cumulative vibration value in the 10~1,000MHz frequency range is less than 1gms |        |
| Impact                     | The maximum acceleration is 5g  |        |
| Paint                      | Polyester powder coating (Body : RAL 9006, Handwheel and Hand auto lever : RAL9005) |        |



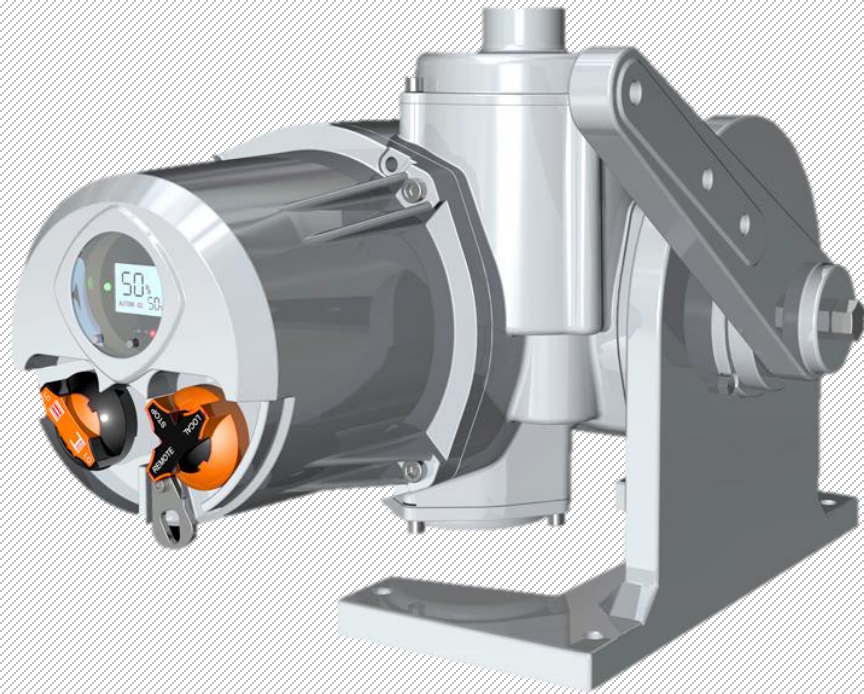
# NTI Series

## Multi-turn Actuator

NTI Series are multi-turn actuators for globe valves, gate valves, floodgate and extra. It is also for quarter-turn valves such as dampers, ball valves, and butterfly valves when combined with gear boxes.

\*\* MAIN POWER SUPPLY: 380V/3Ph

| MODEL        | TORQUE (Nm) | SPEED (RPM)  | ALLOABLE STEM DIA (mm)      | VALVE ATTACHMENT | RATED CURRENT (A) | RATED POWER(KW) | WIGHT (KG) |
|--------------|-------------|--------------|-----------------------------|------------------|-------------------|-----------------|------------|
| NTI-01 ~ 03  | 30 to 110   | 50Hz: 18~144 | Rising: 32 / Non-rising: 26 | F10              | 1.47 ~ 1.92       | 0.47 ~ 0.65     | 32         |
| NTI-04 ~ 05  | 100 to 450  |              | Rising: 51 / Non-rising: 38 | F14              | 3.90 ~ 6.60       | 1.75 ~ 3.00     | 52         |
| NTI-06       | 270 to 650  | 60Hz: 21~173 | Rising: 54 / Non-rising: 45 | F16              | 7.20 ~ 14.50      | 3.00 ~ 5.11     | 75         |
| NTI-07       | 550 to 1100 |              | Rising: 70 / Non-rising: 60 | F25              | 11.00 ~ 18.20     | 5.20 ~ 9.10     | 200        |
| NTI-08 ~ 10G | 745 to 3500 |              | Rising: 83 / Non-rising: 73 | F30              | 10.50 ~ 35.00     | 5.70 ~ 18.00    | 230        |



# NTIT Series

## Part-turn Actuator

NTIT Series are quarter-turn electric actuators in order to operate applications such as ball valves, butterfly valves and dampers.

\*\* MAIN POWER SUPPLY: 380V/3Ph

| MODEL   | TORQUE (Nm) | OPERATING TIME (Sec)      | ALLOABLE STEM DIA (mm) |                | VALVE ATTACHMENT | RATED CURRENT (A)       | RATED POWER(KW)         | WIGHT (KG) |
|---------|-------------|---------------------------|------------------------|----------------|------------------|-------------------------|-------------------------|------------|
| NTIT-01 | 125         | 50Hz: 18~20 / 60Hz: 15~17 | Key 28                 | Square 19      | F07              | 50Hz: 0.47 / 60Hz: 0.07 | 50Hz: 0.13 / 60Hz: 0.17 | 24         |
| NTIT-02 | 250         | 50Hz: 18~20 / 60Hz: 15~17 | Key 28 / 42            | Square 19 / 27 | F07 or F10       | 50Hz: 0.49 / 60Hz: 0.56 | 50Hz: 0.13 / 60Hz: 0.17 | 24         |
| NTIT-03 | 500         | 50Hz: 26~30 / 60Hz: 22~25 | Key 42                 | Square 27      | F10              | 50Hz: 0.53 / 60Hz: 0.59 | 50Hz: 0.14 / 60Hz: 0.18 | 24         |
| NTIT-04 | 1000        | 50Hz: 38~40 / 60Hz: 32~34 | Key 50 / 60            | Square 32 / 36 | F12 or F14       | 50Hz: 0.56 / 60Hz: 0.62 | 50Hz: 0.14 / 60Hz: 0.18 | 35         |
| NTIT-05 | 1500        | 50Hz: 46~50 / 60Hz: 38~42 | Key 50 / 60            | Square 36      | F12 or F14       | 50Hz: 0.60 / 60Hz: 0.65 | 50Hz: 0.15 / 60Hz: 0.19 | 35         |
| NTIT-06 | 2000        | 50Hz: 58~60 / 60Hz: 48~50 | Key 60                 | Square 45      | F14              | 50Hz: 0.62 / 60Hz: 0.69 | 50Hz: 0.15 / 60Hz: 0.19 | 35         |



# NTIR Series

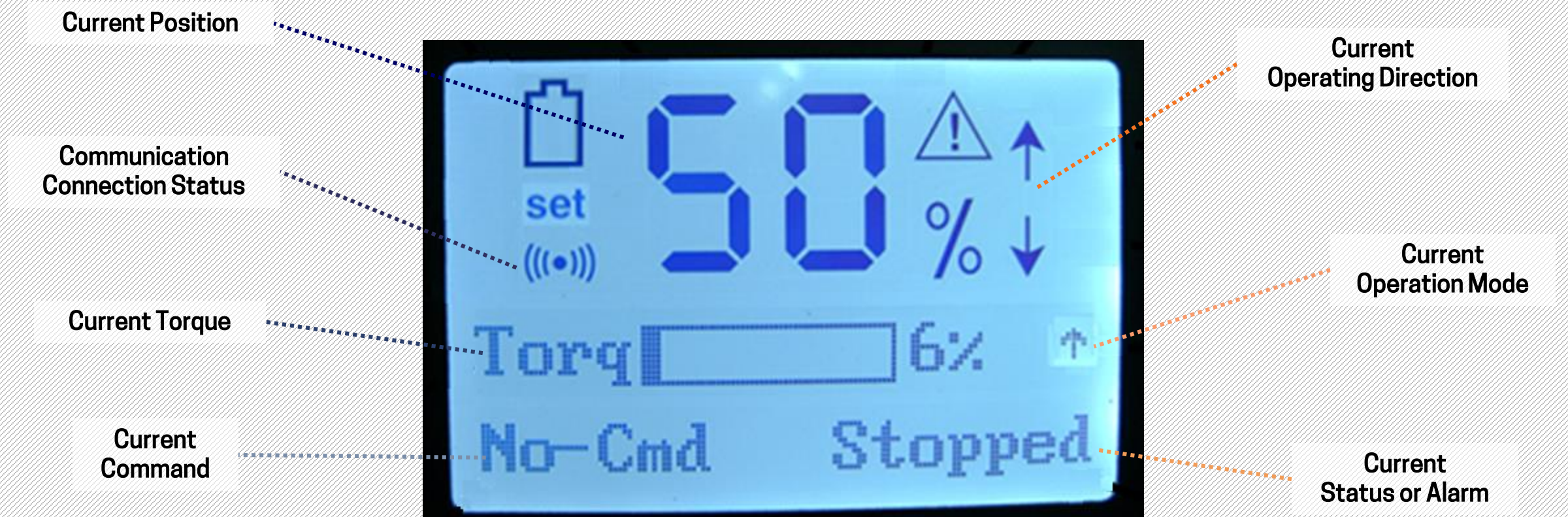
## Part-turn Actuator

NTIR Series are specially designed for small quarter-turn valves and dampers.

\*\* MAIN POWER SUPPLY: 380V/3Ph

| MODEL    |                               | TORQUE (Nm) | OPERATING TIME (Sec) | ALLOABLE STEM DIA (mm) |           | VALVE ATTACHMENT | RATED CURRENT (A)                      | RATED POWER(KW)                        | WIGHT (KG) |
|----------|-------------------------------|-------------|----------------------|------------------------|-----------|------------------|--|--|------------|
| NTIR-200 | NTIR-05                       | 50          | 50Hz: 20             | Key 22                 | Square 15 | F05 or F07       | 50Hz: 0.50 ~ 0.62<br>60Hz: 0.51 ~ 0.63 | 50Hz: 0.16 ~ 0.17<br>60Hz: 0.16 ~ 0.17 | 14         |
|          | NTIR-10<br>NTRI-15<br>NTIR-20 | 100<br>200  | 60Hz: 17             |                        |           |                  |  |  |            |
| NTIR-500 | NTIR-30                       | 300         | 50Hz: 30             | Key 33                 | Square 23 | F07 or F10       | 50Hz: 1.03 ~ 1.12<br>60Hz: 0.95 ~ 1.12 | 50Hz: 0.30 ~ 0.31<br>60Hz: 0.29 ~ 0.29 | 17         |
|          | NTIR-40<br>NTIR-50            | 400<br>500  | 60Hz: 25             |                        |           |                  |  |  |            |

# STANDARD FEATURE: Display Window



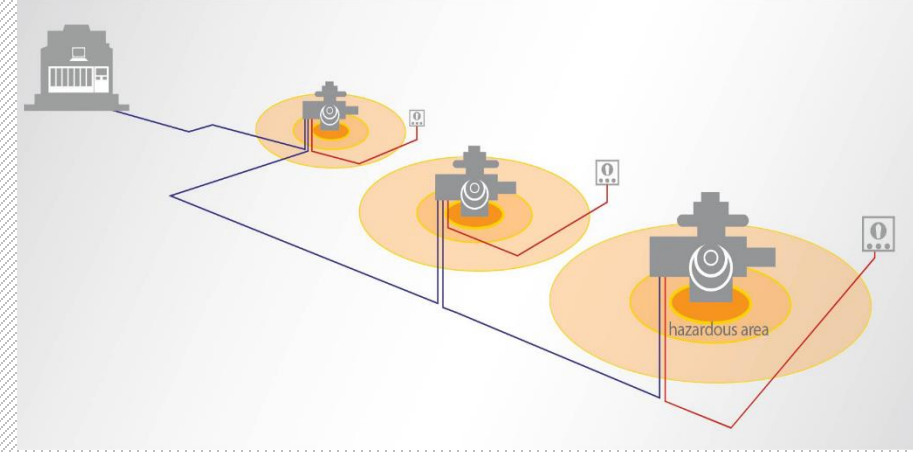
INDICATE ALL THE **CONDITION** OF PRODUCT

# STANDARD FEATURE: Product protection function



## AUTO-SYNCHROPHASE

The rotor operates correct direction even when the supply power R, S, T phase is miss-connected to the product.



## POSITION TRANSMITTER

Transmits a signal by varying the current value as the valve changes its position.

# STANDARD FEATURE: Fault Diagnosis



Battery is disconnected

PhaseLst

Phase is lost

TempErr

Motor temperature  
:132°C ↑

TorqTrip

Excessive torque valve is detected

LockRotor

Fault with rotor  
(more than 5 seconds)

24vErr

Fault with internal power

NoOpenIL

Open signal on close interlock enabled

SensorErr

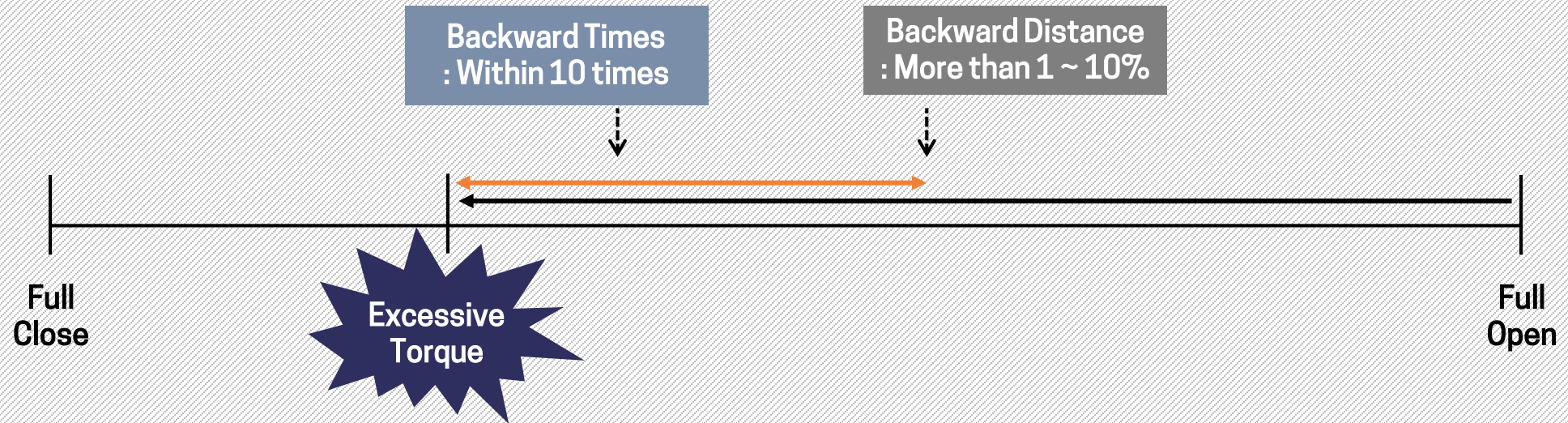
Fault with torque sensing device

**SELF-DIAGNOSIS FOR PROBLEM WITH THE PRODUCT**

**INDICATE ON THE DISPLAY WINDOW**

**FOR REDUCING TIME AND INCREASE CONVENIENCE**

# STANDARD FUNCTION: Intelligent Mode



**REDUCE RESOURCES AND PREVENT POTENTIAL PROBLEMS**  
MANPOWER, TIME, COST, PROCEDURES      OVERLOAD, SUPPLY DELAY, WATER HAMMERING

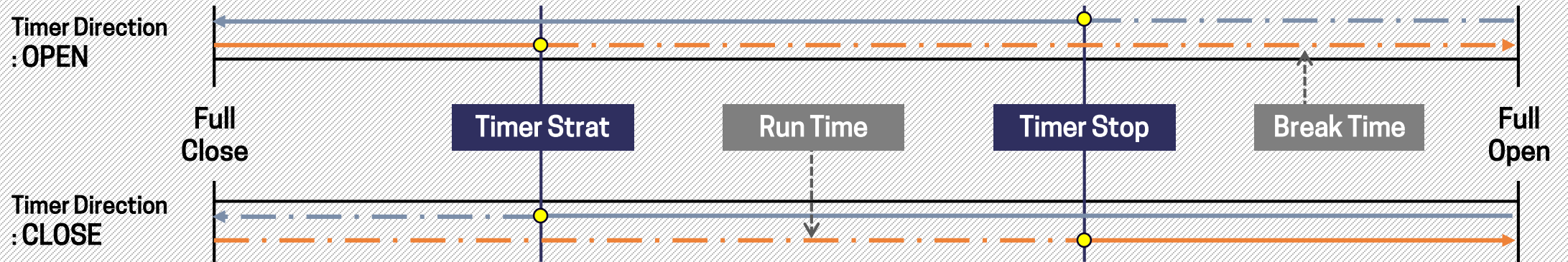
\*\* Intelligent Mode: The function to repeat reverse/forward rotation when the excessive torque value is detected.

\*\* ① Backward Distance ② Backward Times ③ Position Tolerance can be set according to customer needs.

## ALLOW SELECTION OF **VARIOUS PRODUCT STATES** THROUGH ON/OFF SIGNAL FEEDBACK

- |                                     |                           |                            |
|-------------------------------------|---------------------------|----------------------------|
| 01 Valve closing limit position     | 11 Stall                  | 21 Local State             |
| 02 Valve opening limit position     | 12 Low battery            | 22 Remote State            |
| 03 Middle position                  | 13 Manual operation       | 23 Inspecting              |
| 04 Torque trip when valve closing   | 14 Running blink          | 24 24V Error               |
| 05 Torque trip when valve opening   | 15 Stop state             | 25 Motor Running           |
| 06 Torque trip                      | 16 Open interlock signal  | 26 Motor Temperature Error |
| 07 Torque Trip when at any position | 17 Close interlock signal | 27 Sensor Error            |
| 08 Valve opening                    | 18 Interlock signal       | 28 CPU Temperature Error   |
| 09 Valve closing                    | 19 ESD Signal             | 29 Integrated Error        |
| 10 Running                          | 20 Losing phase power     |                            |

# STANDARD FUNCTION: Interrupt Timer

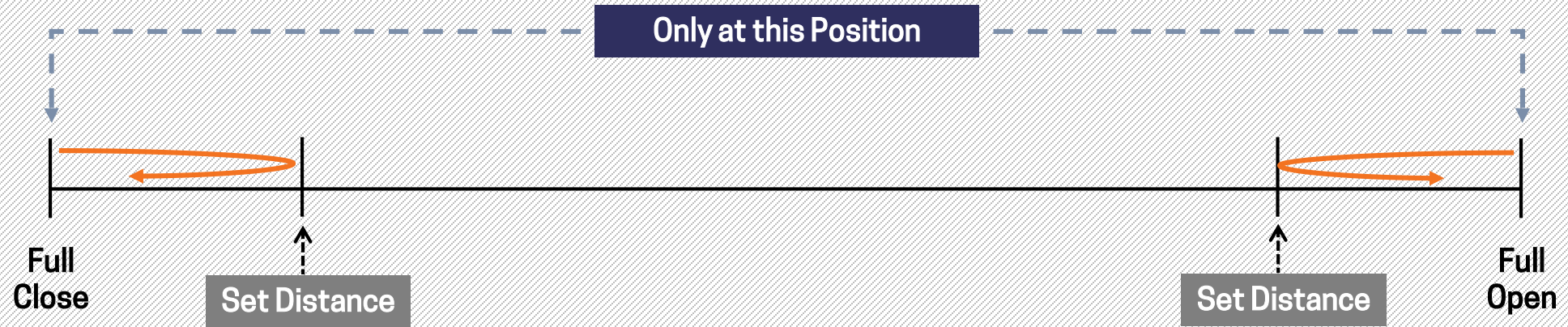


## ADJUST OPERATING TIME AND PREVENT WATER HAMMERING

\*\* Interrupt Timer: The function to repeat 'operation - stop -operation'.

\*\* ① Direction ② Start point ③ Stop point ④ Motor run time ⑤ Motor break time can be set according to customer needs.

# STANDARD FUNCTION: Auto Inspection



## **AVOID VALVE JAMMING AND PROTECT ALL THE DEVICE**

\*\* Auto Inspection: The function to automatically move a little distance in the open or close direction.

\*\* ① Interval(Unit: Day) ② Distance can be set according to customer needs.

## TEN RECENT **COMMANDS**

SAMPLES:

2018/11/16 17 : 13

Close Limit Stop

2018/11/16 14 : 25

Local Stop

•  
•  
•

## TEN RECENT **ERRORS**

SAMPLES:

2018/11/16 17 : 13

Torque Trip Off

2018/09/27 03 : 47

Low Battery On

•  
•  
•

# CUSTOMER SUPPORT AND SITE SERVICES



## INSPECTION MAINTENANCE

A fully experienced manager and skilled engineers are dispatched to provide inspection and maintenance services of all electric actuators installed at the plant considering the project and field schedule.

❖ COMPREHENSIVE CONSULTING

❖ FIELD SUPPORT

❖ COMMISSIONING AND SETTING

❖ WORKSHOP OVERHAUL

❖ REPLACEMENT

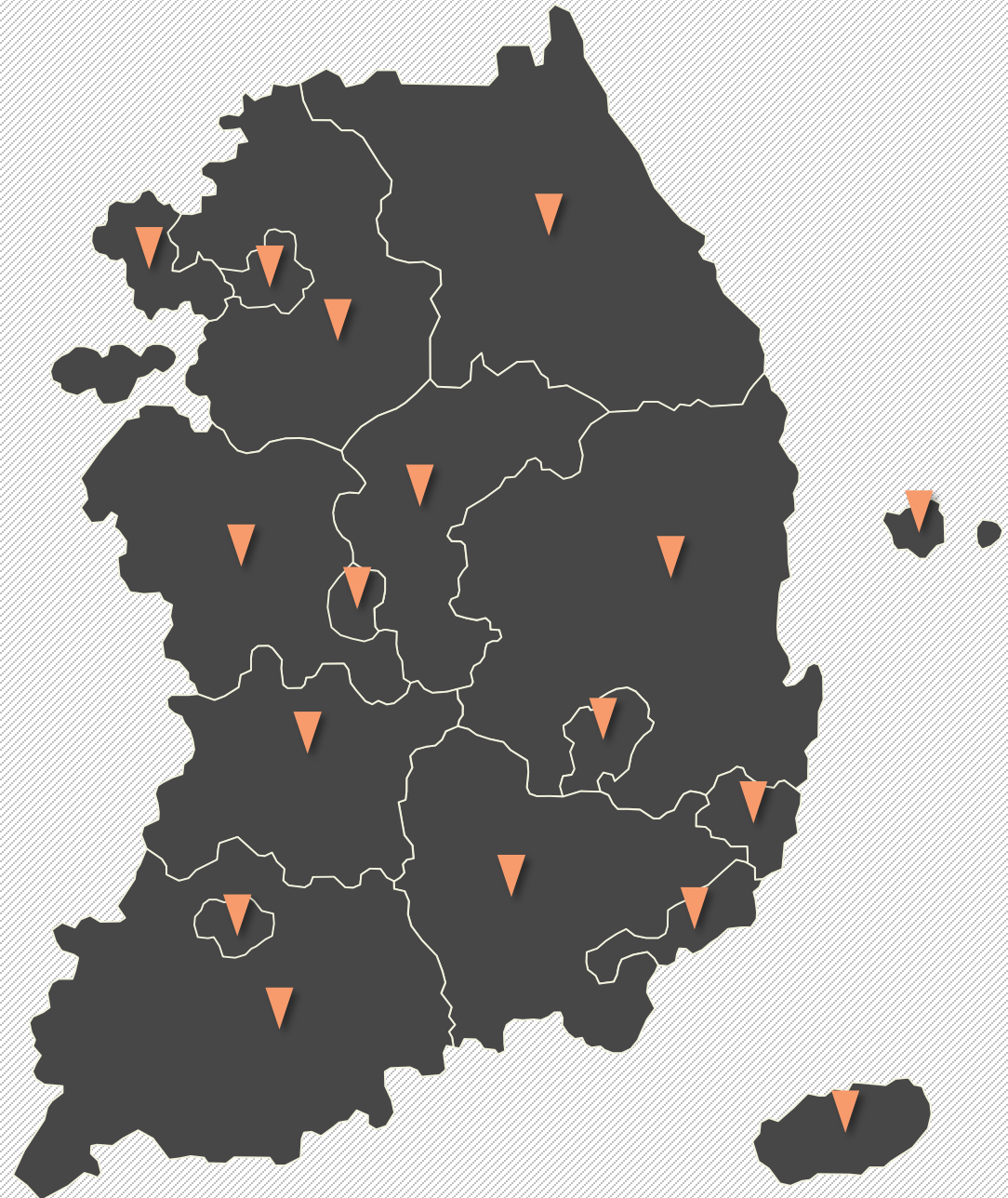
❖ VALVE RETROFIT

As a leader in actuation solutions, **NEWTORK KOREA**'s prime goal is to provide efficient and economical solutions to customers through continuous efforts, excellent technology, and long-term expertise, ultimately to advance as a business partner that helps drive customer growth.

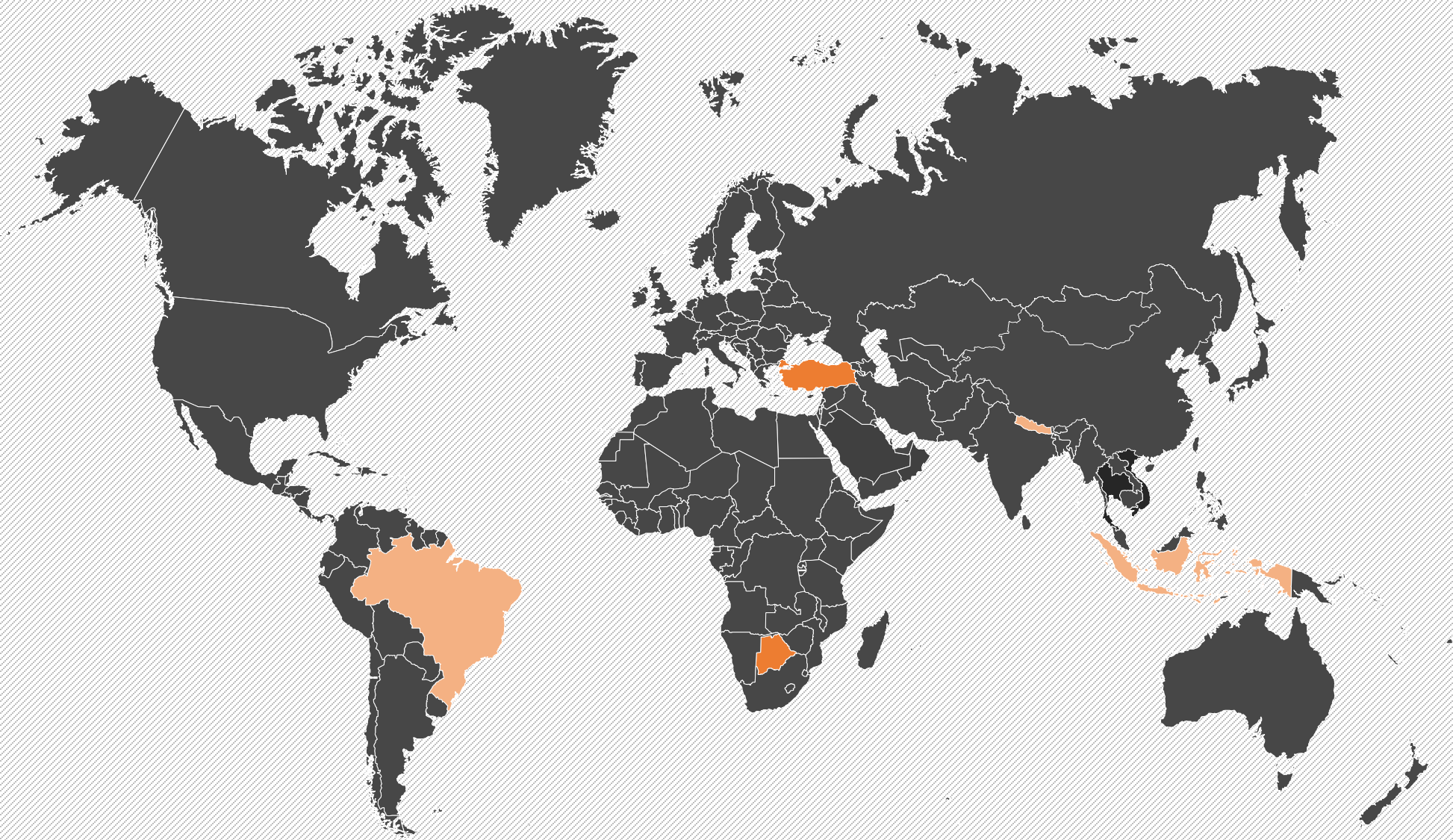


# DOMESTIC PERFORMANCE

- Korea Gas Corporation
- Korea National Oil Corporation
- Seoul Water Treatment
- Korea Rural Community Corporation
- Korea Water Resources Corporation
- Hyundai Oil Bank for MOV Maintenance Service
- Etc.



# OVERSEAS PERFORMANCE




- Indonesia
- Nepal
- Turkey
- Brazil
- Botswana


 Product       Service




| LINE | CUSTOMER                                    | PROJECT  | LOCATION                                     | YEAR      | INDUSTRY       |
|------|---|--|--|-----------|----------------|
| 01   | Korea Gas corporation                       | MOV replace and extra                                  | Busan, Daegu, etc. / Republic of Korea       | '14 ~ '19 | Oil & Gas      |
| 02   | Korea Water Resource Corporation            | A lot of water and waste water plants                  | Wonju, Ilsan, Seoul, etc / Republic of Korea | '07 ~ '19 | Water & Sewage |
| 03   | Doosan Heavy Industries & Construction      | Morupule power plant Inspection                        | Falafel / Botswana                           | '16       | Power Plant    |
| 04   | POSCO                                       | CSP Thermal Power Plant                                | Ceara / Brazil                               | '16       | Power Plant    |
| 05   | Hyundai Oilbank                             | Overhaul plant Inspection                              | Jeacheon / Republic of Korea                 | '12 ~ '19 | Petrochemical  |
| 06   | Gunjang Energy                              | GE-3, GE-4, Asia Cement and extra                      | Gunsan / Republic of Korea                   | '16 ~ '19 | Power Plant    |
| 07   | PT Krakatau POSCO                           | Cilegon Steel Mill                                     | Cilegon / Indonesia                          | '15 ~ '17 | Power Plant    |
| 08   | Dubai Municipality                          | Sewage treatment Pumping station X                     | Dubai / United Arab Emirates                 | '19       | Sewage         |
| 09   | KOMIPO (PT.PLN)                             | Tanjung Jati B Termo electric Power Plant              | Kembang / Indonesia                          | '18       | Power Plant    |
| 10   | Gwangju City                                | Public wastewater treatment plant                      | Gwangju/ Republic of Korea                   | '12 ~ '19 | Sewage         |
| 11   | Pyeongtaek water supply and sewerage office | Jian distributing reservoir, Booster station, and etc. | Pyeongtaek / Republic of Korea               | '17 ~ '19 | Water          |
| 12   | DSME  | 3033 Vessel  | Geoje Island / Republic of Korea             | '14 ~ '18 | Shipard        |


# REFERENCE DETAILS

| TITLE              | CONTANTS  |
|--------------------|---|
| DATE               | 2016  |
| CUSTOMER           | Gunjang Energy  |
| PROJECT            | GE-4 Project  |
| PLANT PROCESS LINE |  |

| TITLE       | CONTANTS   |
|-------------|--|
| DATE        | 2017   |
| CUSTOMER    | Korea Gas Corporation  |
| PROJECT     | 2017 Integrated order of MOV Actuator  |
| GAS STATION |  |


# REFERENCE DETAILS

| TITLE       | CONTANTS  |
|-------------|---|
| DATE        | 2018  |
| CUSTOMER    | KOMIPO (PT.PLN)   |
| PROJECT     | Indonesia Tanjung Jati B Thermo electric Power Plant (1320MW)                       |
| POWER PLANT |  |


| TITLE            | CONTANTS   |
|------------------|--|
| DATE             | 2019   |
| CUSTOMER         | Dubai Municipality   |
| PROJECT          | Sewage treatment Pumping station X   |
| SEWAGE TREATMENT |  |


# REFERENCE DETAILS

| TITLE           | CONTANTS  |
|-----------------|---|
| DATE            | 2015  |
| CUSTOMER        | Korea Water Resources Corporation   |
| PROJECT         | Hwaseong purification plant   |
| WATER TREATMENT |  |


| TITLE        | CONTANTS   |
|--------------|--|
| DATE         | 2017   |
| CUSTOMER     | Korea Environment Corporation  |
| PROJECT      | Okcheon sewage treatment facilities  |
| PUMP STATION |  |


# REFERENCE DETAILS

| TITLE    | CONTANTS  |
|----------|---|
| DATE     | 2016  |
| CUSTOMER | Korea Water Resources Corporation   |
| PROJECT  | Tongyeong-si water supply office  |
| MANHOLE  |  |


| TITLE          | CONTANTS   |
|----------------|--|
| DATE           | 2015   |
| CUSTOMER       | Hankook Seghers Co., Ltd.  |
| PROJECT        | Incinerator  |
| DUST CONTITION |  |


# REFERENCE DETAILS

| TITLE                           | CONTANTS  |
|---------------------------------|---|
| DATE                            | 2015 ~ 2016   |
| CUSTOMER                        | Gunjang Energy  |
| PROJECT                         | GE-3 Project  |
| WATER SPREAD CONDITION (DAMPER) |  |

| TITLE                              | CONTANTS   |
|------------------------------------|--|
| DATE                               | 2016   |
| CUSTOMER                           | Doosan Heavy Industries & Construction   |
| PROJECT                            | Botswana Power Plant   |
| COMSSIONING INSPECTION MAINTENANCE |  |

# REFERENCE DETAILS

| TITLE    | CONTANTS   |
|----------|--|
| DATE     | 2016 ~ 2017  |
| CUSTOMER | Korea Water Resources Corporation  |
| PROJECT  | Ilsan purification plant   |
| REPLACE  |  |

| TITLE    | CONTANTS   |
|----------|--|
| DATE     | 2016   |
| CUSTOMER | Gunjang Energy   |
| PROJECT  | Asia cement plant  |
| RETROFIT |  |



Over the past years, **NEWTORK KOREA** has developed close relationships with our clients and the client's satisfaction has been always our number one priority. Most of our customers are well-known large companies and public offices as listed earlier and we believe and have high confidence this fact proves the reliability and quality of our products.



Certificate No. 20170113857


## Certificate of Venture Business

Company : NEWTORK KOREA CO., LTD.  
 Representative : HUH EUNG MOO  
 Company Address : #602, 31, GALMACH-RO244BEON-GIL, JUNGWON-GU, SEONGNAM-SI, GYEONGGI-DO, REPUBLIC OF KOREA 13212  
 Type of Venture : Technology-Guarantee Approved Company  
 Appraiser : Korea Technology Finance Corporation  
 Valid Date : Dec. 15, 2017 ~ Dec. 14, 2019

This is to certify that the above-mentioned company is a Venture business in accordance with Article 25 of the Act on Special Measures for the Promotion of Venture Businesses.

Dec. 15 2017

**KIBO** Chairman and President  
 Korea Technology Finance Corporation  
 The Republic of Korea



**Venture Business**  
20170113857



Certificate No : 180601 - 00095

## CERTIFICATE OF Inno-Biz

Company : NEWTORK KOREA CO., LTD.  
 CEO : HUH EUNG MOO  
 Address : 31, GALMACH-RO 244BEON-GIL, JUNGWON-GU, SEONGNAM-SI, GYEONGGI-DO, REPUBLIC OF KOREA  
 Validity of Certificate : 2018. 02. 08 ~ 2021. 02. 07

This is to certify that the above mentioned company is a Technology Innovation-Oriented Small and Medium Enterprise(Inno-Biz) selected by the Ministry of SMEs and Startups in accordance with the Act on the Promotion of Technology Innovation of Small and Medium Enterprises.

FEB 8, 2018

minister

**Ministry of SMEs and Startups**  
Republic of Korea

**Innovation Business**  
180601-00095

[문서번호: fmqI-gYmv-GY0t-Mxaa] [발급일자: 2017년 03월 27일]

제 2017111587 호

## 기업부설연구소 인정서

1. 연 구 소 명: 뉴토크코리아(주) R&D CENTER  
 [소속기업명: 뉴토크코리아(주)]  
 2. 소 재 지: 경기도 성남시 중원구 갈마치로244번길 31 602호(상대원동, 성남현대밸리6층)  
 3. 신고 연월일: 2017년 03월 21일  
 ※ 유효기간: 벤치기업 만료일(2017년 12월 14일까지)

### 미래창조과학부

「기초연구진흥 및 기술개발지원에 관한 법률」 제14조, 같은 법 시행령 제16조제1항 및 제27조제1항에 따라 위와 같이 기업부설연구소로 인정합니다.

2017년 3월 24일



**한국산업기술진흥협회**

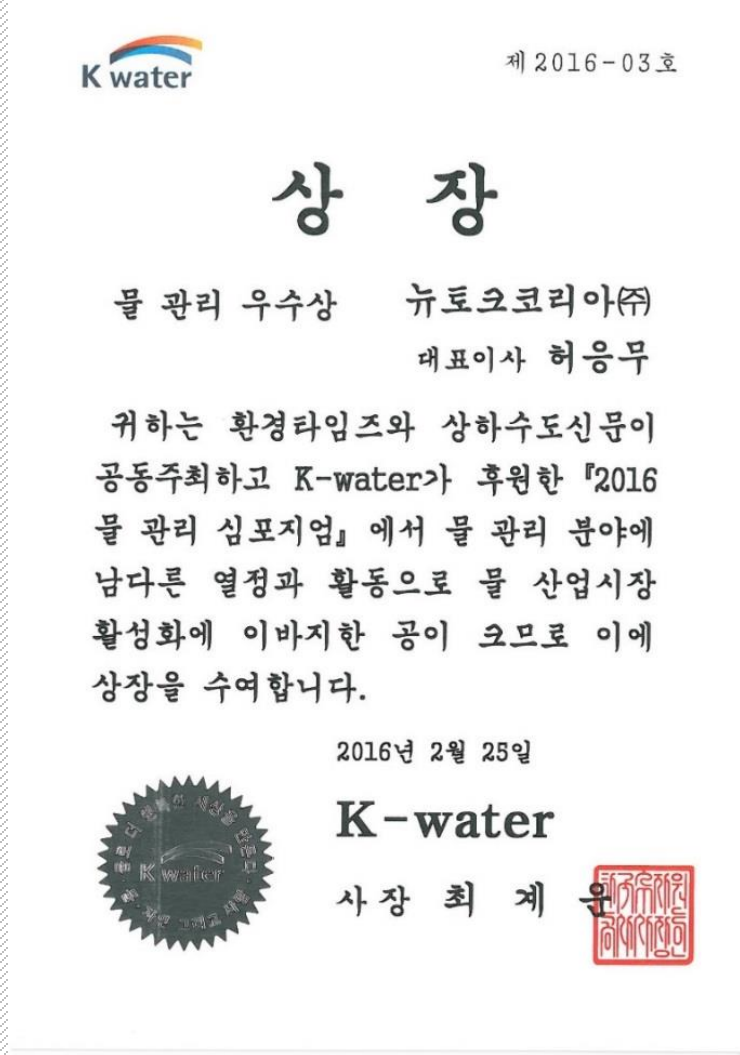


\* 한국산업기술진흥협회에서 발급하였으며 'http://www.rnd.or.kr'에서 '연구인정'을 검색하면 해당코드 및 유효성을 확인할 수 있습니다.

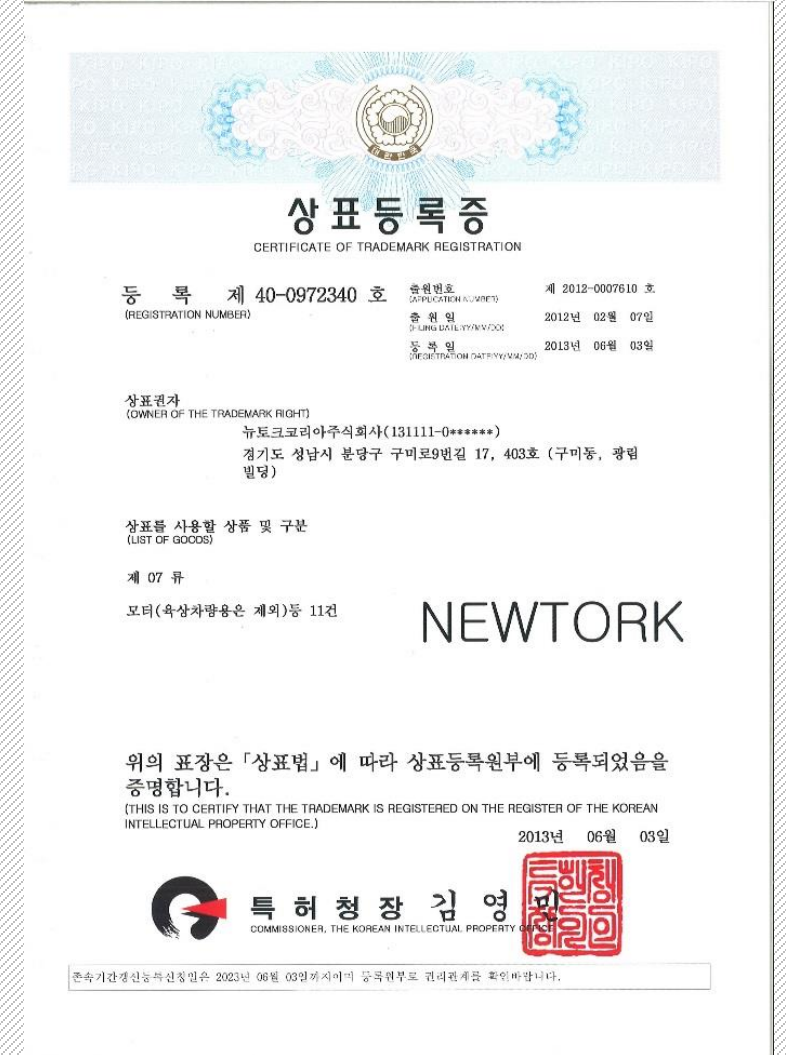
**Research Institute**  
2017111587



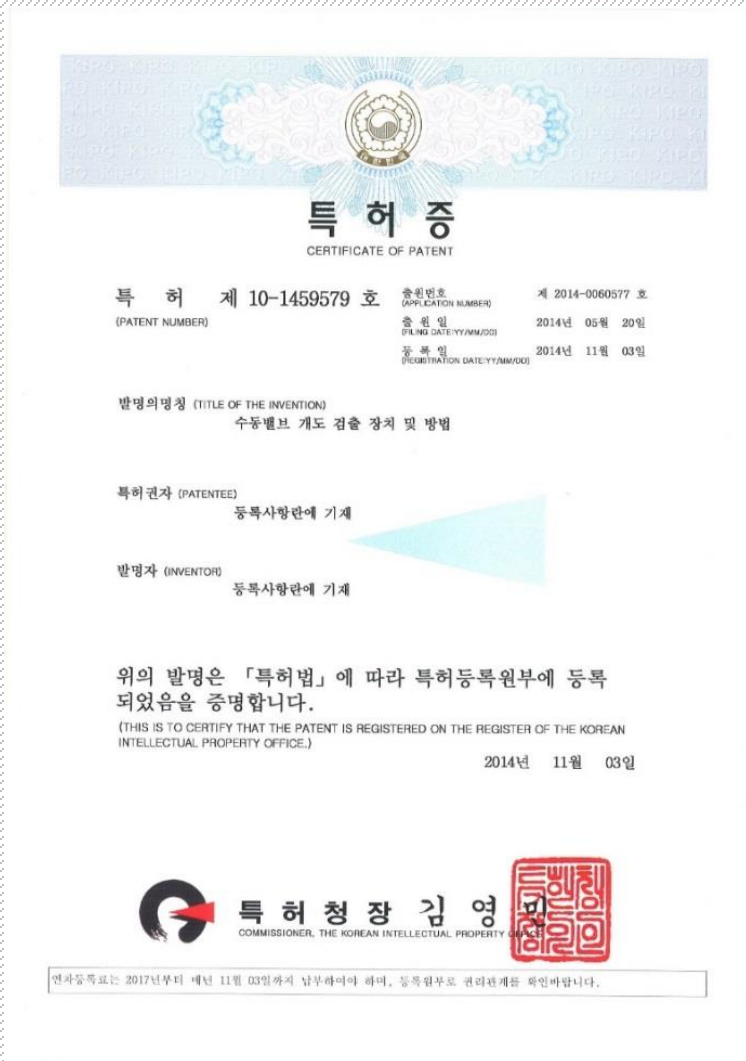
Prime minister citation for product development 199136



A certificate of Merit 2016-03



Trademark Registration 40-9072340



A patent for manual valve opening degree detecting apparatus and method thereof  
10-1459579



A patent for actuator having detecting and removing function for foreign substance  
10-1547817



A patent for check valve opening and closing characteristic monitoring and diagnosing devices  
10-1589127

INSTITUTE OF GLOBAL CERTIFICATION

  
 Institute of Global Certification  
 Management System Certification Body No. MSCB-105

## CERTIFICATE

No. 18-AC-0076

This is to certify that the Quality & Environmental Management System of

**NEW TORK KOREA CO., LTD.**

of

(#602, Hyeondae I Valley) 31, Galmachi-ro 244beon-gil, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea

Company Reg. No.: 129-86-07195

has implemented and documented a quality and environmental management system in compliance with the requirements of the standard

### ISO 9001:2015 & ISO 14001:2015

for

Design, Development, Production and Servicing of Actuator

The certificate is issued on the basis of the results mentioned in the pertinent audit report. Validity of the certificate is conditionally limited by positive results of surveillance audits, which the certified company committed to undergo.

This certificate can be invalid if the certificate holder does not fulfill the conditions set out in the certification agreement.

|                     |               |
|---------------------|---------------|
| Initial issue date: | Feb. 17, 2015 |
| Re-issue date:      | Feb. 07, 2018 |
| Expire date:        | Feb. 16, 2021 |




  
 Betty Kim  
 Head of Certification Body

No. 1005, Byacksan Digital Valley 3rd, Digital-Ro 271, Guro-Gu, Seoul, Korea  
www.igiccert.org

**ISO 9001:2015 and ISO 14001:2015**  
18-AC-0076

OHS Management System

## CERTIFICATE OF REGISTRATION

### OHS Management System

**NEW TORK KOREA CO., LTD.**

(6F, Hyundai I Valley) Rm.602 #31, Galmachi-ro 244beon-gil, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea

KIC hereby certifies that the management system of the above organization conforms with the requirement of the following standard :

### OHSAS 18001:2007

This certificate is valid for the following product or service ranges :

### Design, Development, Production and Service of Automatic Valve Operators

Certificate NO. : OSC0052  
 Valid Until Date : 22-October-2020  
 Certificate Issue Date : 23-October-2017  
 Original Certificate Date : 23-October-2017




  
 Dong Chul Won, President

KIC Co., Ltd. (Cheonan-dong 2F, 18, Gukhoe-dong 26-gil, Yeongju-si, Gyeongsangbuk-do, Korea) TEL: 02-798-0706 FAX: 02-798-0708

**OHSAS 18001:2007**  
OSC0052

ZERTIFIKAT CERTIFICATE CERTIFICADO CERTIFICAT

CE

  
 TÜV SÜD  
 Product Service

## Attestation of Compliance

No. N5A 003211 0001 Rev. 00

**Holder of Certificate:** NEWTORK KOREA CO., LTD.  
 #602 Hyungdae I Valley  
 31, Galmachi-ro, 244beon-gil, Jungwon-gu, Seongnam-si, Gyeonggi-do 13212  
 REPUBLIC OF KOREA

**Product:** Actuators  
 (Electric Actuator)


**Model(s):** NT101, NT102, NT103, NT104, NT1-04Z, NT105, NT1-05Z, NT106, NT1-06Z, NT107, NT108, NT109, NT109.1, NT110, NT110G, NT1M-01, NT1M-02, NT1M-03, NT1M-04, NT1M-04Z, NT1M-05, NT1M-05Z, NT1M-06, NT1M-06Z, NT1M-07, NT1M-08, NT1M-09, NT1M-09.1, NT1M-10, NT1M-10G

|                    |                       |                   |
|--------------------|-----------------------|-------------------|
| <b>Parameters:</b> | Width:                | Max. 1003 mm      |
|                    | Height:               | Max. 494 mm       |
|                    | Depth:                | Max. 680 mm       |
|                    | Material:             | Aluminium         |
|                    | Degree of protection: | IP68 (15 m, 90 h) |

**Tested according to:** EN 60529:1991/A2:2013

This Attestation of Compliance is issued on a voluntary basis for electrical equipment below the voltage limits of Low Voltage Directive 2014/35/EU. The essential requirements are fulfilled accordingly based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for testing and certification. See also notes overleaf.

**Test report no.:** 077-1270018-000

**Date,** 2018-07-17   
 (Young-Chul Yu)

Page 1 of 1  
 Other relevant European directives have to be observed. If they require CE marking, it may be affixed on the product after preparation of the necessary technical documentation as well as the EU declaration of conformity.

TUV SUD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

**CE - IP68 (15M, 90Hr)**  
N5A 003211 0001

산업재해예방  
안전보건공단

인증번호 : 제 18-26-C-204 호

## 위험성평가 인정서

사업장명 : 뉴토코리아(주)  
대표자 : 허응무  
소재지 : 경기도 성남시 중원구 갈매치로244번길 31 6층 602호 (현대아이밸리)  
유효기간 : 2018.12.19 ~ 2021.12.18

귀 사업장에 대한 위험성평가 수준을 확인한 결과 위험성평가 인정 기준에 적합하므로 위험성평가 우수사업장으로 인정합니다.

2018년 12월 19일

한국산업안전보건공단 경기동부지사

Process risk evaluation  
18-26-C-204

인증번호 : 제 83719 호

고  
영  
노동  
부  
지  
사  
장

한국산업안전보건공단 이사장

발급사유 : 최초인정 최초인정일 : 2016년 6월 8일



## CLEAN 사업장 인정서

사업장명 : 뉴토코리아(주)  
대표자 : 허응무  
소재지 : 경기도 성남시 중원구 갈매치로244번길 316층 602호 (현대아이밸리)  
인정일자 : 2016년 6월 8일 (유효기간 : 인정일로부터 3년)

귀 사업장을 안전하고 쾌적한 'CLEAN 사업장'으로 인정합니다.  
2016년 6월 8일

Clean and Safe Factory  
83719

Certificate No. : 19-AAI0189

## Certificate of Quality (Excellent Performance Certification)

Company : NEWTORK KOREA CO. , LTD.  
President : HUH, Eung-Moo  
Address : #602 Hyeondae I Valley, 31, Galmachi-ro 244 beon-gil ,Jungwon-gu, Seongnam-si, Gyeonggi-do, KOREA, 13212  
Product : Electric actuators with the function to repeat open and close operation when over torque is detected [NTI-01/NTI-02/NTI-03/NTI-04/NTI-05/NTI-06]  
Valid Thru : March 15, 2019 - March 14, 2022

This certification is in accordance with Article 15 of Act on Facilitation of Purchase of Small and Medium Enterprise-Manufactured Products and Support for Development of Their Markets.

Administrator Hong, Jong-haak

Ministry of SMEs and Startups  
Republic of Korea



Certificate of Quality (Excellent Performance)  
19-AAI0189

**품목별 원산지인증수출자 인증서**  
CERTIFICATE OF PRODUCT-SPECIFIC APPROVED EXPORTER

○ 상 호 : 뉴토코리아(주)  
(Name of Company) (NEWTORK KOREA CO., LTD.)  
○ 주 소 : 13212 경기도 성남시 중원구 갈매치로244번길 31 (상대원동)  
(Address)  
(31, Galmachi-ro 244beon-gil, Jungwon-gu, Seongnam-si, Gyeonggi-do, Republic of Korea)

○ 대 표 자 : 허응무  
(Representative) (HUR EUNG MOO)  
○ 인 준 번 호 (Customs Authorisation No.) : 010-18-200043

**원산지인증 품목내역(List of Certified Products)**

| 품목번호(4단위)<br>[HS No. (4-digit)] | 자유무역협정 명<br>(Name of FTA) | 인증유효기간<br>(Validity Period) |
|---------------------------------|---------------------------|-----------------------------|
| 8481                            | 한-아세안                     | 18-01-31-23-01-30           |

위 업체를 「자유무역협정의 이행을 위한 관세법의 특례에 관한 법률」 제12조1항에 따라 품목별 원산지인증수출자로 인증합니다.  
We hereby certify that the above company is authorised as "Product-specific approved exporter" in accordance with Article 12.1 of 'The Act on Special Cases of the Customs Act for the Implementation of Free Trade Agreements'.

2018년 01월 31일  
(2018 / 01 / 31)

서울세관장  
Head of SEOUL Customs

**Product-specific Approved Exporter**  
010-18-200043

**ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ**  
**ДЕКЛАРАЦИЯ О СООТВЕТСТВИИ**

**EAC**

**Заявитель:** Общество с ограниченной ответственностью «ТС-СЕРВИС» – уполномоченное изготовителем лицо  
**Место нахождения:** 117246, Российская Федерация, город Москва, проезд Научный, дом 10, этаж 1, офис 590, основной государственный регистрационный номер: 1187746867109, телефон: +79652397636, адрес электронной почты: ts-servis@rambler.ru  
**в лице** Генерального директора Курдюковой Светланы Николаевны

**заявляет, что** Электроприводы, модели: NTI-01, NTI-02, NTI-03, NTI-04, NTI-05, NTI-06, NTI-07, NTI-08, NTI-09, NTI-09.1, NTI-10, NTI-10G, NTIM-01, NTIM-02, NTIM-03, NTIM-04, NTIM-05, NTIM-06, NTIM-07, NTIM-08, NTIM-09, NTIM-09.1, NTIM-10, NTIM-10G, NTIT-01, NTIT-02, NTIT-03, NTIT-04, NTIT-05, NTIT-06, NTITM-01, NTITM-02, NTITM-03, NTITM-04, NTITM-05, NTITM-06, NTIR-05, NTIR-10, NTIR-15, NTIR-20, NTIR-30, NTIR-40, NTIR-50, NTIRM-05, NTIRM-10, NTIRM-15, NTIRM-20, NTIRM-30, NTIRM-40, NTIRM-50 **изготовитель** «NEWTORK KOREA CO., LTD.»  
**Место нахождения:** (#602, Hyeondae 1 Valley) 31, Galmachi-ro 244beon-gil, Jungwon-gu, Seongnam-si, Gyeonggi-do, Республика Корея.

Продукция изготовлена в соответствии с Директивами: 2014/35/EU «Низковольтное оборудование», 2014/30/EU «Электромагнитная совместимость»  
Код ТН ВЭД ЕАЭС 8501 51 000 1, 8501 52 200 1, 8481 90 000 0  
Серийный выпуск

**соответствует требованиям**  
ТР ТС 020/2011 «Электромагнитная совместимость технических средств»  
ТР ТС 004/2011 «О безопасности низковольтного оборудования»

**Декларация о соответствии принята на основании**  
Протокола испытаний № 0289/ДС/19 от 30.09.2019 года, выданных Испытательной лабораторией ООО «Русский проект». Аттестат аккредитации № РОСС RU.31218.ИЛ.00004, Паспорта ЭП-27.11.23-2019 ПС, Руководства по эксплуатации ЭП-27.11.23-2019 РЭ  
Схема декларирования 1д  
**Дополнительная информация**  
Перечень стандартов, в результате применения, которых, на добровольной основе обеспечивается соблюдение требований ТР ТС 004/2011, ТР ТС 020/2011: ГОСТ 12.2.007.0-75 «Система стандартов безопасности труда. Издания электротехнические. Общие требования безопасности», раздел 8 ГОСТ 30804.6.2-2013 (IEC 61000-6-2:2005) «Совместимость технических средств электромагнитная. Устойчивость к электромагнитным помехам технических средств, применяемых в промышленных зонах. Требования и методы испытаний», раздел 7 ГОСТ 30804.6.4-2013 (IEC 61000-6-4:2006) «Совместимость технических средств электромагнитная. Электромагнитные помехи от технических средств, применяемых в промышленных зонах. Нормы и методы испытаний». Условия хранения: хранить в закрытом, чистом, сухом и хорошо проветриваемом помещении. Не хранить в пыльных, песчаных, влажных или соленых местах, а также в местах подверженных воздействию высоких температур, прямых солнечных лучей и вблизи опасных газов или огня. Срок хранения - 15 лет. Срок службы - минимальный жизненный цикл при включении, с номинальным крутящим моментом составляет - 30000 раз при одном цикле.

**Декларация о соответствии действительна с даты регистрации по 30.09.2024 включительно**

\_\_\_\_\_ М. П. \_\_\_\_\_ Курдюкова Светлана Николаевна  
(подпись) (Ф.И.О. заявителя)

Регистрационный номер декларации о соответствии: Д-КР.АЖ49.В.01771/19  
Дата регистрации декларации о соответствии: 01.10.2019

**TRCU Certificate**

**Global Inspiration**  
**세계속의 경기도**

제2018-0018호


**경기가족친화 일하기 좋은기업 인증서**

**경기가족친화 일하기 좋은기업**  
GYEONGGI GOOD WORKS PLACE

회 사 명 : 뉴토코리아(주)  
소 재 지 : 성남시  
대 표 자 : 허응무  
인증기간 : 2018. 12. 14. ~ 2021. 12. 13.

귀 기업은 일·가정 양립 지원 및 가족친화제도를 모범적으로 운영하여 일하는 재미가 넘치는 훌륭한 일터 구현에 귀감이 되는 기업으로 선정되었기에 경기가족친화 일하기 좋은 기업으로 인증합니다.

2018년 12월 14일

경기도지 

**GGWP Certificate**  
2018-0018

With over 30 years experience in the valve and actuator industries, **NEWTORK KOREA** has expertise and specialist knowledge of every aspect of electric actuators. Also, we understand the value of prompt and punctual customer site services. That is why we aim to supply our customers with superior actuation solutions by developing functions designed for convenience of users and providing high quality innovative products and exceptional technical skill on time, every time.





# COMPARISON

|                          | NEWTORK (NTI)   | AUMA (SA)  | ROTORK (IQ)   |
|--------------------------|---|--|---|
| <b>Housing</b>           | - Aluminum die casting (Light and resistant to corrosion)   | - Aluminum die casting + Plastic (Risk of breakage)  | - Aluminum die casting (Light and resistant to corrosion)   |
| <b>Design</b>            | - Compact   | - Compact  | - Compact   |
| <b>Enclosure</b>         | - WT / IP68 (15M, 90Hr: prime grade)<br>- Double O-ring sealing method  | - Standard: WT / IP65<br>- Option: WT / IP67, IP68   | - IP68(7M, 72Hr)<br>- Double O-ring sealing method  |
| <b>Damp-proof heater</b> | - Sealed type: don't need to open the cover when set the product<br>- Self-heating: generated from electronic components          | - Need to open the cover when set the product.<br>- Must need the damp-proof heater because of permeated humidity inside | - Sealed type: don't need to open the cover when set the product<br>- Self-heating: generated from electronic components          |
| <b>Lubricating type</b>  | - Oil, semi-permanent   | - Grease   | - Oil, semi-permanent   |
| <b>Motor</b>             | - Class F insulation<br>- High starting torque  | - Class F insulation   | - Class F insulation<br>- High starting torque  |
| <b>Gearing</b>           | - Phosphor bronze worm wheel : long life time<br>- Efficient manual operation :motor shaft and worm wheel are connected directly. | - It is not efficient because super gear and worm are connected as multistep.  | - Phosphor bronze worm wheel : long life time<br>- Efficient manual operation :motor shaft and worm wheel are connected directly. |
| <b>Temperature</b>       | - 30°C ~ 70°C (-22°F ~ 158°F)   | - 25°C ~ 80°C (-13°F ~ 176°F)  | - 30°C ~ 70°C (-22°F ~ 158°F)   |
| <b>Handwheel</b>         | - Top<br>- Side(Optional)   | - Side   | - Top<br>- Side(Optional)   |



# COMPARISON

|                         | NEWTORK (NTI)   | AUMA (SA)  | ROTORK (IQ)   |
|-------------------------|---|--|---|
| <b>Manual Operating</b> | <ul style="list-style-type: none"> <li>- 1:1 connection: takes less time due to small number of turns</li> </ul>  | <ul style="list-style-type: none"> <li>- Multiplex gear: easy to control, takes longer time due to a lot of number of turns</li> </ul>   | <ul style="list-style-type: none"> <li>- 1:1 connection: takes less time due to small number of turns</li> </ul>  |
| <b>Local positioner</b> | <ul style="list-style-type: none"> <li>- Digital type</li> <li>- Easy to check the exact valve position, torque value in unit %.</li> <li>- Displayed the condition of product such as current command, status, and errors in real time.</li> </ul> | <ul style="list-style-type: none"> <li>- Analog type: It is hard to check exact valve position.</li> <li>- (Only 3 position –Close / Mid / Open)</li> </ul>  | <ul style="list-style-type: none"> <li>- Digital type</li> <li>- Easy to check the exact valve position, torque value in unit %.</li> <li>- Displayed the condition of product such as current command, status, and errors on a separate screen.</li> </ul> |
| <b>Power input</b>      | <ul style="list-style-type: none"> <li>- Terminal block type</li> <li>- Easy to connect wiring</li> </ul>   | <ul style="list-style-type: none"> <li>- Terminal block type (Small)</li> <li>- Hard to connect</li> <li>- Confined inside of terminal block</li> <li>- Pin type: vulnerable to vibration</li> </ul>   | <ul style="list-style-type: none"> <li>- Terminal block type</li> <li>- Easy to connect wiring</li> </ul>   |
| <b>Switch contact</b>   | <ul style="list-style-type: none"> <li>- Electronic switch</li> <li>- "A", "B" contact changeable</li> <li>- Changeable contact function: 25 different type</li> <li>- Set by remote controller</li> </ul>  | <ul style="list-style-type: none"> <li>- Rotary switch: less accuracy</li> <li>- Should change gear in accordance with the number of turns due to the limited valve turns</li> <li>- Snap-on operation</li> <li>- Unchangeable "A", "B" contact</li> </ul> | <ul style="list-style-type: none"> <li>- Electronic switch</li> <li>- "A", "B" contact changeable</li> <li>- Changeable contact function: 25 different type</li> <li>- Set by remote controller</li> </ul>  |
| <b>Operation system</b> | <ul style="list-style-type: none"> <li>- Enable changeover OPEN and CLOSE without STOP</li> <li>- Self-diagnostic: Easy to figure out the problem</li> </ul>  | <ul style="list-style-type: none"> <li>- Need to STOP for changeover OPEN and CLOSE</li> <li>- Hard to figure out the</li> </ul>   | <ul style="list-style-type: none"> <li>- Enable changeover OPEN and CLOSE without STOP</li> <li>- Self-diagnostic: Easy to figure out the problem</li> </ul>  |



# COMPARISON

|  | NEWTORK (NTI)   | AUMA (SA)   | ROTORK (IQ)   |
|--|---|---|---|
| <b>Positive and negative phase syncrophase</b> | <ul style="list-style-type: none"> <li>- A built in an auto-syncrophase: the rotor operates correct direction even when the supply power R, S, T phase is miss-connected.</li> </ul>  | <ul style="list-style-type: none"> <li>- In case that one of R, S, T phase is incorrectly connected, motor doesn't rotate.</li> </ul>   | <ul style="list-style-type: none"> <li>- A built in an auto-syncrophase: the rotor operates correct direction even when the supply power R, S, T phase is miss-connected to the product.</li> </ul>                                       |
| <b>Motor protective function</b>               | <ul style="list-style-type: none"> <li>- A built in thermostat (To prevent overheating of motor)</li> <li>- A built in an auto-syncrophase</li> <li>- To prevent overvoltage and thunderstroke</li> <li>- To prevent valve jam</li> </ul> | <ul style="list-style-type: none"> <li>- A built in thermostat</li> <li>- To prevent valve jam</li> </ul>   | <ul style="list-style-type: none"> <li>- A built in thermostat (To prevent overheating of motor)</li> <li>- A built in an auto-syncrophase</li> <li>- To prevent overvoltage and thunderstroke</li> <li>- To prevent valve jam</li> </ul> |
| <b>Position transmitter (4-20mA)</b>           | <ul style="list-style-type: none"> <li>- Included in standard item (No charge)</li> <li>- All in one with main card</li> <li>- Easy to control</li> </ul>   | <ul style="list-style-type: none"> <li>- Optional item</li> <li>- Resistive type or converter</li> <li>- Required to repeat full open and close for control precisely</li> <li>- Expensive</li> </ul> | <ul style="list-style-type: none"> <li>- Optional item</li> <li>- Easy to control</li> <li>- Expensive</li> </ul>   |
| <b>Control for position and torque switch</b>  | <ul style="list-style-type: none"> <li>- A sensor detects the number of turns precisely and enables detailed position.</li> <li>- Enable to control the torque value as the unit % from 40%(Min) to 100%(Max).</li> </ul>                 | <ul style="list-style-type: none"> <li>- Counter gear method: mechanical control is not precise</li> </ul>  | <ul style="list-style-type: none"> <li>- A sensor detects the number of turns precisely and enables detailed position.</li> <li>- Enable to control the torque value as the unit % from 40%(Min) to 100%(Max).</li> </ul>                 |

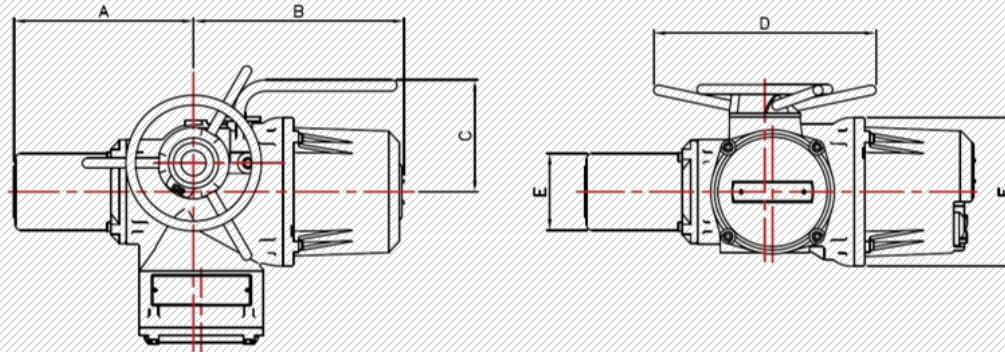


# MANUFACTURING PROCESS FLOW CHART

|   | PROCESS                    | EQUIPMENT REQUIRED  | DESCRIPTION   | QUALITY CONTROL CHECK  |
|---|----------------------------|---|---|--|
| 1 | Design                     | Computer  | Custom-made Design  | - Checking the validity of the specifications required by the customer   |
| 2 | Warehousing and Inspection | Forklift  | Warehousing of raw material   | - Practicing FIFP Method<br>- Checking of raw material handing / storage condition<br>- Preparation of acceptance test report<br>- Tagging the identification mark on the raw material |
| 3 | Machining                  | Slotter, Drill, Taping Machine, Marking Machine, Compressor           | Bush Key and Nameplate machining  | - Checking that the customer's requirements are well reflected<br>- Inspection that the machining is finished neatly   |
| 4 | Assembling                 | Jig, Hammer, Compressor, Tools  | Bearing, Oil Seal, Center Column, Gears, Terminal, Cables, Motor, Boards, Base, Handwheel, and Nameplate Assembling | - Manufacturing in compliance with the procedures<br>- Using a tool that fits each part of the component size  |
| 5 | Test and commissioning     | Test Bench, Voltage Regulator, AC/DC and Insulation Resistance Tester | Main Power Supply, Contact, Current Position Transmitter, Torque and Opening Test                                   | - Inspection and checking the difference between Actual dimension and Design value<br>- Determining the inspection product whether acceptable or failed                                |
| 6 | Packing                    | Forklift, Wrapping Machine  | Products packing and shipping mark tagging  | - Inspection the shipping mark and packing condition<br>- Complying with the prescribed packing procedure  |
| 7 | Dispatching                | Forklift  | Products dispatching  | - Checking the impacts of the package<br>- Preparation of the factory book   |

# INSPECTION AND TEST PLAN

| LINE   | TEST ITEM                          | TEST REQUIREMENTS   | TEST RESULT               |
|--------|------------------------------------|---|---------------------------|
| 1      | Appearance                         | No harmful defect in structure, assembly condition, painting, and extra   | Qualified / Not qualified |
| 2      | Dimension                          | Within $\pm 1\%$ of difference between approval drawing   | Qualified / Not qualified |
|        |                                    | A   | mm                        |
|        |                                    | B   | mm                        |
|        |                                    | C   | mm                        |
|        |                                    | D   | mm                        |
|        |                                    | F   | mm                        |
| 3      | Power Type                         | The power accordance with required specification  | 220V 380V 440V            |
| 4      | Internal Power Output              | Within 20 ~ 32VDC   | VDC                       |
| 5      | Insulated Resistance               | Insulated Resistance between power board contactor and inside of Body $\geq 100M\Omega$                           | $M\Omega$                 |
| 6      | Local control of valve open/close  | Local control test of valve open/close $\geq 5$ times   | Qualified / Not qualified |
| 7      | Remote control of valve open/close | Remote control test of valve open/close $\geq 5$ times  | Qualified / Not qualified |
| 8      | Torque of closed valve             | Within $\pm 10\%$ of difference with standard (100% and 40% of rated torque is loaded with corresponding voltage) | 40% : Nm<br>100% : Nm     |
| REMARK |                                    |   |                           |





# INSPECTION AND TEST PLAN

| LINE   | TEST ITEM                | TEST REQUIREMENTS   | TEST RESULT                       |
|--------|--------------------------|---|-----------------------------------|
| 9      | Torque of open valve     | Within $\pm 10\%$ of difference with standard (100% and 40% of rated torque is loaded with corresponding voltage) | 40% : Nm<br>100% : Nm             |
| 10     | RPM                      | Within $\pm 15\%$ of difference with standard   | RPM                               |
| 11     | Indicated light color    | Full Open - Red, Full Close - Green, Operating - Yellow   | Qualified / Not qualified         |
| 12     | Local / Remote Switch    | Local / Remote switch test $\geq 5$ times   | Qualified / Not qualified         |
| 13     | Shaft rotation direction | Open - CCW, Close - CW  | Qualified / Not qualified         |
| 14     | Manual / Electric Clutch | Manual / Electric Clutch test $\geq 5$ times  | Qualified / Not qualified         |
| 15     | Contact                  | Full Close: S1 closed   | Qualified / Not qualified         |
|        |                          | Full Open: S2 closed  | Qualified / Not qualified         |
|        |                          | Torque Trip: S3 closed  | Qualified / Not qualified         |
|        |                          | Except for Full Open: S4 closed   | Qualified / Not qualified         |
| 16     | Remote interlock control | When remote interlock signal is input, stop and reverse operation   | Qualified / Not qualified         |
| 17     | Analogue Output          | Within $\pm 2\%$ of difference with Pull Open - 20mA, Pull Close - 4mA  | Full Open : mA<br>Full Close : mA |
| REMARK |                          |   |                                   |

# OPERATING TEST REPORT



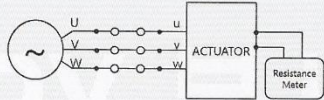
## 시험 결과

성적서 번호 : T2016-01781

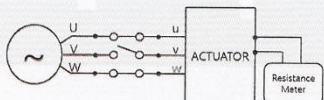
1-1. 시험결과 : Alarm terminal 저항

| 시험 항목             | 단위 | 시험 결과               |         |
|-------------------|----|---------------------|---------|
| Alarm terminal 저항 | Ω  | U-v, V-v, W-w Close | 9.99 MΩ |
|                   |    | U-v, W-w Close      | 0.3 Ω   |
|                   |    | V-v Open            |         |

- 시험방법 : 1. 시료를 삼상(U, V, W) 380 V 전원 연결.  
 2. 모든 단자가 연결된 상태(Close)의 Alarm terminal 저항을 측정.  
 3. 임의의 단자(V-v)를 Open하여 Alarm terminal의 저항을 측정.



<그림 1> U-v, V-v, W-w Close



<그림 2> U-v, W-w Close, V-v Open

**Alarm terminal resistance Test**



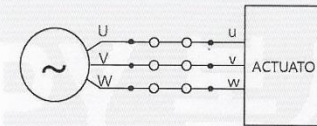
## 시험 결과

성적서 번호 : T2016-01781

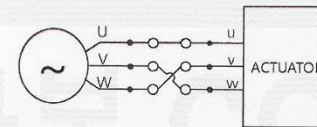
1-2. 시험결과 : 자동 시험-1

| 시험 항목             | 단위 | 시험 결과         |    |
|-------------------|----|---------------|----|
| 공급 전원 상에 따른 밸브 닫힘 | -  | U-u, V-v, W-w | 닫힘 |
|                   |    | U-u, W-w, V-v | 닫힘 |
|                   |    | W-u, U-v, V-w | 닫힘 |

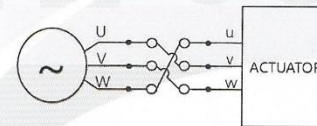
- 시험방법 : 1. 삼상(U, V, W) 380 V 공급 전원을 시료의 단자(u, v, w)를 변경하여 연결.  
 2. 밸브 닫힘(Close)여부를 Actuator의 지시부를 통해 확인.



<그림 3> U-u, V-v, W-w



<그림 4> U-u, W-w, V-v



<그림 5> W-u, U-v, V-w

**Auto-Syncrophase Test**



# OPERATING TEST REPORT

KTC Korea Testing Certification Global Reliable Partner



## 시험 결과

성적서 번호 : T2016-01781

1-3. 시험결과 : 작동 시험-2

| 시험 항목                           | 지시부 설정값   | 단위 | 시험 결과 |
|---------------------------------|---|----|-------|
| 설정된 Close Torque 값에서 역진행(밸브 열림) | Close Torque 40 %<br>Backward Times 4<br>Backward Distance 10 %<br>PosTolerance 1 % | -  | 이상없음  |
| 역진행(밸브 열림) 횟수                   |   | -  | 4회    |
| 역진행(밸브 열림) 비율                   |   | %  | 11    |
| Torque Stop 작동                  |   | -  | 이상없음  |
| 지시부 표시                          |   | -  | 이상없음  |

- 시험방법 : 시료의 지시부(LCD 창)을 통해 설정값을 설정하고, 밸브 내 이물질(길이 300 mm, 지름 30 mm)을 삽입하여 시험함.
- 비 고 : 1. 밸브의 역진행이라 함은 밸브 닫힘(Close) 동작에서 밸브 내 이물질 감지 시, 밸브가 열림(Open) 동작을 말함.  
2. 역진행 횟수는 밸브 열림 동작하는 횟수임.  
3. 역진행 비율은 밸브 열림 동작으로 인해 변화된 개도를 값임.  
4. Torque Stop은 설정된 횟수와 비율만큼 역진행 동작 이후, 밸브 작동이 멈추는 동작임.  
5. 지시부 표시는 밸브 작동이 정지된 후 지시부(LCD 창)의 상태 표시(Toratrip)를 나타냄.  
6. 설정값, 역진행, 밸브 동작, 개도를 등은 Actuator의 지시부(LCD 창)으로 확인함.

### Intelligent Mode Test

서식 P510-06 (Rev.2)

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## 시험 결과

성적서 번호 : T2016-01781

2. 시료사진



3. 사용장비

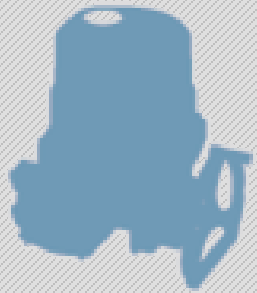
| 사용장비명<br>Description | 제조회사 및 형식<br>Manufacturer & Model | 기기번호<br>Serial Number | 차기교정일자<br>Date of next Cal. | 교정기관<br>Cal. Institute |
|----------------------|-----------------------------------|-----------------------|-----------------------------|------------------------|
| 교류 전력계, 클램프형 전류계/전압계 | HIOKI / 3169-20                   | 110820775             | 2016. 07. 01                | 한국캘립(주)                |
| DIGITAL MULTIMETER   | FLUKE / 87 V                      | 26730010              | 2016. 05. 29                | 한국캘립(주)                |

끝.

서식 P510-06 (Rev.2)

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**Thank you for your time.**

