

제2022-003486-01-1호(1/2)



# 안전인증서

파워제넥스(주)

인천광역시 남동구 은봉로 99 (논현동)

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제84조 및 같은 법 시행규칙 제110조제1항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

## 품 목

Smart Valve Positioner

## 형식·모델(용량·등급) / 인증번호

ASD-7 Series (Ex db IIC T6/T5 Gb) / 22-KA2BO-0095X

## 인증기준

고용노동부고시 제2021-22호

## 인증조건

- 1. 제조공장:** 본 인증서는 '인천광역시 남동구 은봉로 99 (논현동)'에서 생산하는 제품에 한함.
- 2. 제품개요**
  - 제품용도: 당 제품은 알루미늄 합금 또는 스테인리스 강으로 제조된 내압방폭형 스마트 포지셔너임.
  - 제품정격: 입력 - DC (4~20) mA and 6.8 V@20 mA, 피드백 신호 - DC (4~20) mA and (12~30) V
  - 사용주위온도:  $-40\text{ }^{\circ}\text{C} \leq T_a \leq +70\text{ }^{\circ}\text{C}$ (T6) /  $+80\text{ }^{\circ}\text{C}$ (T5)
  - 당 제품은 IEC60529에 따른 보호 등급 IP66 을 만족함.
- 3. 인증범위:** 본 인증서는 [별첨]의 형식번호에 한하여 유효함.
- 4. 안전한 사용을 위한 조건**
  - 커버를 고정하는 나사의 등급은 A2-70 이상일 것.
  - 화염접합면의 치수는 제조자에게 문의할 것.
  - 90 °C 이상에서 사용가능한 케이블 및 케이블 글랜드를 사용 할 것.
- 5. 인증(변경)사항:** 없음.
- 6. 그 밖의 사항**
  - 사용자 매뉴얼 참조
  - 안전인증품의 품질관리, 확인심사 수검, 변경사항 신고 등 인증 받은 자의 의무 준수
  - 일상시험 대상 제품: Main 외함은 3325 kPa에서 강도시험을 실시하여야 함.
  - 본 안전인증서는 반드시 관련 IECEx 인증서(IECEx KTL 21.0029X Issue No.0)와 함께 사용

2022 년 01 월 28 일

한국산업기술시험원장





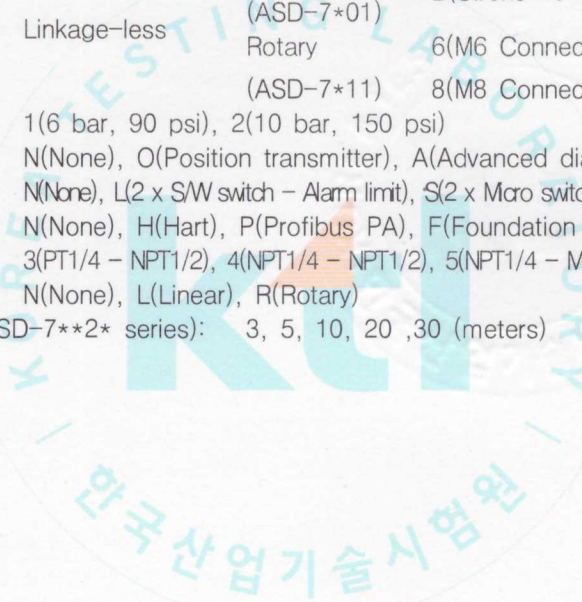
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## 인 증 조 건

### [별첨] 제품형식 인증범위

ASD-7(a)(b)(c)-F(d)(e)(f)(g)(h)(i)(j)(k)

- (a, Body material): 0(Aluminium), 1(SUS316)
- (b, Actuator type): 0(Linear), 1(Rotary)
- (c, Feedback type): 0(Linkage), 1(Linkage-less), 2(Remote)
  - Linear B(Stroke 10-60 mm)
  - Linkage (ASD-7\*00) C(Stroke 10-120 mm)
  - Rotary F(Fork lever)
  - (ASD-7\*10) N(NAMUR shaft)
  - Linear B(Stroke 10-120 mm)
  - Linkage-less (ASD-7\*01) 6(M6 Connector)
  - Rotary 8(M8 Connector)
  - (ASD-7\*11) 8(M8 Connector)
- (d, Feedback size):
- (e, Guage): 1(6 bar, 90 psi), 2(10 bar, 150 psi)
- (f, Options): N(None), O(Position transmitter), A(Advanced diagnostics)
- (g, Limit switches): N(None), L(2 x S/W switch - Alarm limit), S(2 x Micro switches - SPDT), P(2 x P&F sensors)
- (h, Communication): N(None), H(Hart), P(Profibus PA), F(FOUNDATION Fieldbus)
- (i, Connetion Threads): 3(PT1/4 - NPT1/2), 4(NPT1/4 - NPT1/2), 5(NPT1/4 - M20xP1.5), 6(PT1/4 - M20xP1.5)
- (j, Mounting Bracket): N(None), L(Linear), R(Rotary)
- (k, Remote cable for ASD-7\*\*2\* series): 3, 5, 10, 20, 30 (meters)





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# 안전인증서

## Certificate of Safety

**Power-Genex Ltd.**

99 Eunbong-ro, Namdong-gu, Inchoen, 21639, Rep. of Korea

The following product manufactured by the above company has been authorized for the use of safety certification mark as the product has satisfied the safety and health requirements under Article 84 of OCCUPATIONAL SAFETY AND HEALTH ACT and paragraph 1 of Article 110 of ENFORCEMENT ORDINANCE OF the same ACT.

### Electrical Equipment

Smart Valve Positioner

### Model(Marking) / Certificate No.

ASD-7 Series (Ex db IIC T6/T5 Gb) / 22-KA2BO-0095X

### Applied standards

Announcement No. 2021-22 of Ministry of Employment and Labor

### Conditions of Certification

- 1. Manufacturing location(s):** This certificate is valid only for the specified products produced at '99 Eunbon-ro, Namdong-gu, Incheon, 21639, Rep. of Korea'.
- 2. Description of equipment**
  - This equipment is a flameproof type smart positioner made of aluminum alloy or stainless steel.
  - Rating: Input - (4~20) mA, 6.8 V@20 mA, Feedback - DC (4~20) mA and (12~30) V
  - Ambient Temperature:  $-40\text{ }^{\circ}\text{C} \leq T_a \leq +70\text{ }^{\circ}\text{C}(T_6)$  /  $+80\text{ }^{\circ}\text{C}(T_5)$
  - IP66 degree of protection according to IEC 60529.
- 3. Scope of certification:** This certificate is only valid for the models in the [Annex].
- 4. Special conditions for safe use**
  - Fasteners with property class A2-70 shall be used.
  - For information on the dimensions of the flameproof joints, the manufacturer shall be contacted.
  - Cable and cable glands suitable for at least 90 °C shall be used.
- 5. Details of certificate changes:** None.
- 6. Details of the others**
  - Refer to the user manual.
  - Routine Test: Each product shall be submitted successfully to a static overpressure test of 3325 kPa (Main enclosure).
  - This certificate shall be used with the related IECEx certificate (IECEx KTL 21.0029X issue No.0).
  - Manufacturer shall take the responsibility including maintaining quality requirements for the certified products, receiving factory surveillance and informing any changes to the certified products.

Date of Issue: 2022-01-28

한국산업기술시험원  
KOREA TESTING LABORATORY





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## Conditions of Certification

### [Annex] Scope of certification

ASD-7(a)(b)(c)-F(d)(e)(f)(g)(h)(i)(j)(k)

- (a, Body material): 0(Aluminium), 1(SUS316)
- (b, Actuator type): 0(Linear), 1(Rotary)
- (c, Feedback type): 0(Linkage), 1(Linkage-less), 2(Remote)
- |                     |            |                     |
|---------------------|------------|---------------------|
|                     | Linear     | B(Stroke 10-60 mm)  |
|                     | (ASD-7*00) | C(Stroke 10-120 mm) |
| Linkage             | Rotary     | F(Fork lever)       |
|                     | (ASD-7*10) | N(NAMUR shaft)      |
| (d, Feedback size): | Linear     | B(Stroke 10-120 mm) |
|                     | (ASD-7*01) |                     |
| Linkage-less        | Rotary     | 6(M6 Connector)     |
|                     | (ASD-7*11) | 8(M8 Connector)     |
- (e, Guage): 1(6 bar, 90 psi), 2(10 bar, 150 psi)
- (f, Options): N(None), O(Position transmitter), A(Advanced diagnostics)
- (g, Limit switches): N(None), L(2 x S/W switch - Alarm limit), S(2 x Micro switches - SPDT), P(2 x P&F sensors)
- (h, Communication): N(None), H(Hart), P(Profibus PA), F(FOUNDATION Fieldbus)
- (i, Connetion Threads): 3(PT1/4 - NPT1/2), 4(NPT1/4 - NPT1/2), 5(NPT1/4 - M20xP1.5), 6(PT1/4 - M20xP1.5)
- (j, Mounting Bracket): N(None), L(Linear), R(Rotary)
- (k, Remote cable for ASD-7\*\*2\* series): 3, 5, 10, 20, 30 (meters)