



# Notifica della Garanzia di Qualità dei Prodotti

*Notification of the Product Quality Assurance*

**n. 1S190130.K0C59**

Rilasciato ai sensi della direttiva 2014/34/UE – Allegato VII – Modulo E

*Issued according to 2014/34/EU directive – Annex VII – Module E*

## Richiedente

### Applicant

Ragione Sociale <i>Company Name</i>	Korea Steel Power Corporation (KSPC)
Indirizzo <i>Address</i>	488-1, Wolha-ro, Tongin-eup, Gimpo-si, 10010
Località <i>Place</i>	KOREA
Sito produttivo <i>Place of production</i>	488-1, Wolha-ro, Tongin-eup, Gimpo-si, 10010, KOREA
Apparecchiatura <i>Equipment</i>	FLAME ARRESTER (KSFE-S TYPE (IIA) / KSFE-S TYPE (IIB3) / KSFD-A TYPE (IIA) / KSFI-A TYPE (IIA) / KSFE-A TYPE (IIA))
Modo di protezione <i>Type of protection</i>	G IIA, G IIB3

L'ECM, Organismo Notificato n° 1282 in conformità all'art. 17 della Direttiva 2014/34/UE del Parlamento europeo e del Consiglio del 26 febbraio 2014, notifica al richiedente che il costruttore ha un sistema di qualità della produzione conforme a quanto previsto dall'allegato VII, Modulo E, della Direttiva.

Nell'allegato aggiornato sono elencati tutti gli apparecchi ed i sistemi di protezione con i numeri dei certificati.

Questo certificato è basato sul rapporto di verifica ispettiva n. PRD-2019-KSPC-01 emesso il 11/01/2019.

I risultati delle verifiche periodiche del sistema qualità sono parte integrante di questa notifica.

Questo Certificato di Notifica della garanzia di qualità della produzione è valido fino al 29/01/2022 e può essere ritirato se dalle verifiche ispettive di sorveglianza risulta che il sistema di qualità della produzione non è più conforme a quanto previsto dall'allegato VII.

In accordo con l'articolo 16 paragrafo 3 della Direttiva 2014/34/UE la marcatura CE sul prodotto deve essere seguita dal n. 1282 che identifica ECM come l'Organismo Notificato incaricato della sorveglianza della produzione.

ECM, Notified Body No. 1282 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, notifies to the applicant that the manufacturer has a product quality system complies with Annex VII, Module E, of the Directive.

Updated Annex lists all equipment and protective systems with the numbers of certificates.

This certificate is based on the audit report no. PRD-2019-KSPC-01 issued on 11/01/2019.

The results of periodic audits of the quality system is an integral part of this notification.

This Certificate of Notification of product quality assurance is valid until 29/01/2022 and can be withdrawn if surveillance audits show that the quality system of product no longer complies with the provisions in Annex VII.

In accordance with Article 16 paragraph 3 of Directive 2014/34/EU the CE marking must be followed by n. 1282 that identifies ECM as Notified Body responsible for supervising the production.

## Esempio di marcatura

### Marking example

CE 1282

Data di prima emissione  
*Date of first issue*

30/01/2019

Estensione - Extension

Rinnovo - Renewal

Valsamoggia (BO)

Data - Date 30/01/2019

Timbro



Scadenza- Expiry date 29/01/2022

Firma autorizzata

Authorized signature

(Amanda Payne (Deputy Manager))

Questo certificato, compreso l'allegato, può essere riprodotto solo integralmente e senza alcuna variazione.

This certificate, annex included, may only be reproduced in its entirety and without any change.

Ente Certificazione Macchine srl

Via Ca' Bella 243 – Loc. Castello di Serravalle – 40053 Valsamoggia (BO)

+39 0516705141 +39 0516705156 ecm@entecerma.it www.entecerma.it



**Allegato alla Notifica Garanzia di Qualità Prodotto**  
*Annex to Notification of the Product Quality Assurance*  
**n. 1S190130.KOC59**

**Richiedente**

**Applicant**

Ragione Sociale  
*Company Name* Korea Steel Power Corporation (KSPC)  
Indirizzo  
*Address* 488-1, Wolha-ro, Tongin-eup, Gimpo-si, 10010  
Località  
*Place* KOREA  
Sito produttivo  
*Place of production* 488-1, Wolha-ro, Tongin-eup, Gimpo-si, 10010, KOREA

**Apparecchio soggetto a sorveglianza**  
*Equipment subjected to surveillance*

**Certificato di esame UE del tipo**  
*EU-type examination certificate*

Deflagration proof and short time burning proof	
End-of-line flame arrester (KSFE-S DN15 to DN300)	IBExU18ATEX2127 X
End-of-line flame arrester (KSFE-A DN15 to DN100)	IBExU17ATEX2142 X
End-of-line flame arrester (KSFE-S DN15 to DN300)	IBExU18ATEX2003 X
In-line detonation flame arrester (KSFD-A DN50 to DN300)	IBExU18ATEX2147 X
Deflagration, bi-directional in-line flame arrester (KSFI-A DN25 to DN300)	FTZÙ 16 ATEX 0050X

Valsamoggia (BO)  
Data - *Date* 30/01/2019

Timbro

Scadenza- *Expiry date* 29/01/2022



Firma autorizzata  
*Authorized signature*

(Amanda Payne (Deputy Manager))

Questo allegato può essere riprodotto solo integralmente e senza alcuna variazione, assieme al certificato a cui si riferisce.  
*This Annex may only be reproduced in its entirety and without any change, together with the certificate to which it refers*

**Ente Certificazione Macchine srl**

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☎ +39 0516705141 ☎ +39 0516705156 ✉ ecm@entecerma.it www.entecerma.it



# Avviso di Ricezione

Acknowledge receipt

n. **1S190627.KSPTD83**



Rilasciato ai sensi della direttiva 2014/34/UE - Art. 13 comma 1 lettera b ii)  
Issued according to 2014/34/EU directive - Article 13 paragraph 1, letter b ii)

**Richiedente**

**Applicant**

Ragione Sociale **KOREA STEEL POWER CORP.**  
Company Name  
Indirizzo **488-1, Wolhwa-ro, Tongin-eup, Gimpo-si, Gyeonggi-do, KOREA**  
Address  
Luogo di produzione **488-1, Wolhwa-ro, Tongin-eup, Gimpo-si, Gyeonggi-do, KOREA**  
Place of production

Con la presente Ricevuta si dichiara che **Ente Certificazione Macchine srl** ha ricevuto copia del seguente fascicolo tecnico in forma sigillata:  
With this receipt stating that **Ente Certificazione Macchine srl** has received a copy of the following technical documentation in sealed form:

Fascicolo tecnico n° **TCF for KSBB, KSBG**  
Technical file no.  
Tipo di componente o prodotto **Pressure Vacuum Relief Valves**  
Type of component or product **Model/Type Name: KSBB-TYPE, KSBG-TYPE**  
Norme applicate: **EN ISO 80079-36:2016, EN ISO 80079-37:2016**  
Standard:  
Contrassegni: **Ex II 2 G c T6**  
Symbols: **Ambient temperature range  
-20°C to 90°C**

Ente Certificazione Macchine srl conserva il Fascicolo Tecnico per 5 anni dalla produzione dell'ultimo esemplare cui esso si riferisce o dalla richiesta di revoca della custodia.

A 5 anni dalla richiesta Ente Certificazione Macchine srl provvederà alla notifica di conferma della custodia.

Ente Certificazione Macchine srl will hold the technical file for 5 years from the production of the last unit to which it relates or by the request for waiver of the case.

At 5 years of the request Ente Certificazione Macchine srl will notify the confirmation of the custody.

Valsamoggia (BO)  
Data - Date **27/06/2019**

Timbro



Firma autorizzata  
Authorized signature

**Amanda Payne**  
(Deputy Manager)

Validità **26/06/2024**  
Expiry date

**Ente Certificazione Macchine srl**

Via Ca' Bella 243 - Loc. Castello di Serravalle - 40053 Valsamoggia (BO)

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# Avviso di Ricezione

*Acknowledge receipt*

**n. 1S200116.KSP0T54**

Rilasciato ai sensi della direttiva 2014/34/UE - Art. 13 comma 1 lettera b ii)  
*Issued according to 2014/34/EU directive – Article 13 paragraph 1, letter b ii)*



## **Richiedente**

### **Applicant**

Ragione Sociale / Company Name: KOREA STEEL POWER CORP.  
Indirizzo / Address: 488-1, Wolhwa-ro, Tongin-eup, Gimpo-si, Gyeonggi-do, Korea  
Luogo di produzione / Place of production: 488-1, Wolhwa-ro, Tongin-eup, Gimpo-si, Gyeonggi-do, Korea

Con la presente Ricevuta si dichiara che **Ente Certificazione Macchine srl** ha ricevuto copia del seguente fascicolo tecnico in forma sigillata:  
*With this receipt stating that Ente Certificazione Macchine srl has received a copy of the following technical documentation in sealed form:*

Fascicolo tecnico n° / Technical file no.: TCF for KSBS  
Tipo di componente o prodotto / Type of component or product: Pressure Vacuum Relief Valve  
Model/Type Name: KSBS-TYPE  
Norme applicate: / Standard: EN ISO 80079-36:2016, EN ISO 80079-37:2016  
Contrassegni: / Symbols: II 2 G c T6  
Ambient temperature range: -20°C to 90°C

Ente Certificazione Macchine srl conserva il Fascicolo Tecnico per 5 anni dalla produzione dell'ultimo esemplare cui esso si riferisce o dalla richiesta di revoca della custodia.

A 5 anni dalla richiesta Ente Certificazione Macchine srl provvederà alla notifica di conferma della custodia.

*Ente Certificazione Macchine srl will hold the technical file for 5 years from the production of the last unit to which it relates or by the request for waiver of the case.*

*At 5 years of the request Ente Certificazione Macchine srl will notify the confirmation of the custody.*

Valsamoggia (BO)  
Data - Date: 16/01/2020

Timbro



Firma autorizzata  
Authorized signature

Amanda Payne  
(Deputy Manager)

Validità / Expiry date: 15/01/2025

**Ente Certificazione Macchine srl**

Via Ca' Bella 243 – Loc. Castello di Serravalle – 40053 Valsamoggia (BO)

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# Avviso di Ricezione

Acknowledge receipt

n. **1S190627.KSPTD84**



Rilasciato ai sensi della direttiva 2014/34/UE - Art. 13 comma 1 lettera b ii)  
Issued according to 2014/34/EU directive – Article 13 paragraph 1, letter b ii)

## Richiedente

### Applicant

Ragione Sociale / Company Name: KOREA STEEL POWER CORP.  
Indirizzo / Address: 488-1, Wolhwa-ro, Tongin-eup, Gimpo-si, Gyeonggi-do, KOREA  
Luogo di produzione / Place of production: 488-1, Wolhwa-ro, Tongin-eup, Gimpo-si, Gyeonggi-do, KOREA

Con la presente Ricevuta si dichiara che Ente Certificazione Macchine srl ha ricevuto copia del seguente fascicolo tecnico in forma sigillata:  
With this receipt stating that Ente Certificazione Macchine srl has received a copy of the following technical documentation in sealed form:

Fascicolo tecnico n° / Technical file no.: TCF for KSEPK  
Tipo di componente o prodotto / Type of component or product: Emergency Relief Valve  
Model/Type Name: KSEPK-TYPE  
Norme applicate: / Standard: EN ISO 80079-36:2016, EN ISO 80079-37:2016  
Contrassegni: / Symbols: II 2 G c T6  
Ambient temperature range  
-20°C to 90°C

Ente Certificazione Macchine srl conserva il Fascicolo Tecnico per 5 anni dalla produzione dell'ultimo esemplare cui esso si riferisce o dalla richiesta di revoca della custodia.

A 5 anni dalla richiesta Ente Certificazione Macchine srl provvederà alla notifica di conferma della custodia.

Ente Certificazione Macchine srl will hold the technical file for 5 years from the production of the last unit to which it relates or by the request for waiver of the case.

At 5 years of the request Ente Certificazione Macchine srl will notify the confirmation of the custody.

Valsamoggia (BO)

Data - Date: 27/06/2019

Timbro



Firma autorizzata

Authorized signature

Amanda Payne  
(Deputy Manager)

Validità / Expiry date: 26/06/2024

Ente Certificazione Macchine srl

Via Ca' Bella 243 – Loc. Castello di Serravalle – 40053 Valsamoggia (BO)

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(1) **Supplementary EU - Type Examination Certificate No.1**

(2) **Equipment or Protective Systems Intended for Use  
in Potentially Explosive Atmospheres  
(Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

**FTZÚ 16 ATEX 0050X**

(4) Product: **Deflagration, bi-directional in-line flame arrester type KSFI-A DN 25+300**

(5) Manufacturer: **Korea steel Power Corporation**

(6) Address: **488-1 Wolha-ro, Tongjin-eup, Gimpo-si, Gyeonggi-do 10010, Korea**

(7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 16 ATEX 0050X to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

(8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

(9) In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.

(10) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 16852:2016**

(11) The marking of the product shall include the following:

 **II G IIA**

(12) This certificate is valid till: **30.01.2022**

Responsible person:

  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 30.06.2017

Page: 1/3

This certificate is granted subject to the general conditions of the FTZÚ, s.p.  
This certificate may only be reproduced in its entirety and without any change, schedule included.



Physical-Technical Testing Institute  
Ostrava - Radvanice

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 1  
to FTZÚ 16 ATEX 0050X**

(15) Description of the variation to the Product:

The supplement extends the sizes range for full product line from DN 25 (1") to DN 300 (12").

The in-line, bi-directional, deflagration flame arresters type KSFI-A is used to prevent a flame transmission in case of deflagration of flammable gas – and/or vapour/air mixtures of the explosion group IIA.

**Technical parameters:**

Maximum operational temperature  $T_0=+60$  °C.

Maximum operational pressure  $p_0=0,11$ MPa

$L_v/D=50$

BC:c

(16) Report Number.: 16/0050/1

(17) Specific Conditions of Use:

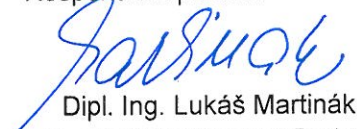
17.1 The flame arresters were not verified for application where the burning can occur.

17.2 For safe application of flame arresters must be fulfill requirements according to EN ISO 16852 for installation, limits for use and supplementary protective measures.

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate.

Responsible person:

  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 30.06.2017

Page: 2/3

This certificate is granted subject to the general conditions of the FTZÚ, s.p.  
This certificate may only be reproduced in its entirety and without any change, schedule included.

Physical-Technical Testing Institute, s.p., Pikartská 1337/7, 716 07 Ostrava - Radvanice, The Czech Republic,  
tel +420 595 223 111, fax +420 596 232 672, ftzu@ftzu.cz, www.ftzu.cz

# IBExU Institut für Sicherheitstechnik GmbH

An-Institut der TU Bergakademie Freiberg

## [1] EU-TYPE EXAMINATION CERTIFICATE - Translation



[2] Equipment or protective systems intended for use in potentially explosive atmospheres, Directive 2014/34/EU

[3] EU-type examination certificate number **IBExU18ATEX2147 X** | Issue 0

[4] Product: **In-line detonation flame arrester**  
KSFD-A-DN

Connection size DN (mm)	Connection size DN (inch)
50	2"
65	2½"
80	3"
100	4"
150	6"
200	8"
250	10"
300	12"

[5] Manufacturer: Korea Steel Power Corporation (KSPC)

[6] Address: 488-1, Wolha-ro, Tongin-eup, Gimpo-si,  
Zip-Code: 10010  
KOREA

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] IBExU Institut für Sicherheitstechnik GmbH, Notified Body number 0637 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential test report IB-18-2-0057 of 1 December 2018.

[9] Compliance with the essential health and safety requirements has been assured by compliance with: EN ISO 16852:2016 and EN 1127-1:2011 except in respect of those requirements listed at item [18] of the schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the specific conditions of use specified in the schedule to this certificate.

[11] This EU-type examination certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

G IIA

IBExU Institut für Sicherheitstechnik GmbH  
Fuchsmühlenweg 7  
09599 Freiberg, GERMANY

Tel: + 49 (0) 37 31 / 38 05 0  
Fax: + 49 (0) 37 31 / 38 05 10

By order

Dipl.-Ing. Willamowski



Certificates without signature and seal are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.

Freiberg, 2018-12-06





## EU - Type Examination Certificate

- (1) **EU - Type Examination Certificate**
- (2) **Equipment or Protective Systems Intended for Use  
in Potentially Explosive Atmospheres  
(Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

**FTZÚ 16 ATEX 0049X**

- (4) Product: **Detonation, bi-directional in-line flame arrester, type: KSFD-B-2 (DN50)**
- (5) Manufacturer: **Korea Steel Power Corporation**
- (6) Address: **488-1 Wolha-ro, Tongjin-eup, Gimpo-si, Gyeonggi-do 10010, Korea**
- (7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- The examination and test results are recorded in confidential Report number:
- 16/0049 dated 25.01.2017**
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN ISO 16852:2010**
- (10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.
- (11) This certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- (12) The marking of the product shall include the following:



This certificate is valid till: **30.01.2022**

Responsible person:

Dipl. Ing. Lukáš Martinák  
Head of Certification Body

Date of issue: 30.01.2017

Page: 1/2

**IBExU Institut für Sicherheitstechnik GmbH**  
An-Institut der TU Bergakademie Freiberg

[1] **EU-TYPE EXAMINATION CERTIFICATE - Translation**



[2] Equipment or protective systems intended for use in potentially explosive atmospheres, Directive 2014/34/EU

[3] EU-type examination certificate number **IBExU17ATEX2142 X** | Issue 0

[4] Product: **End-of-line flame arrester**  
Type KSFE-A DN15 to DN100

[5] Manufacturer: Korea Steel Power Corporation

[6] Address: 488-1, Wolha-ro,  
Tongin-eup, Gimpo-si, (Zip Code: 10010)  
KOREA

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] IBExU Institut für Sicherheitstechnik GmbH, Notified Body number 0637 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential test report IB-17-2-0100/1.

[9] Compliance with the essential health and safety requirements has been assured by compliance with: EN ISO 16852:2016 except in respect of those requirements listed at item [18] of the schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the specific conditions of use specified in the schedule to this certificate.

[11] This EU-type examination certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

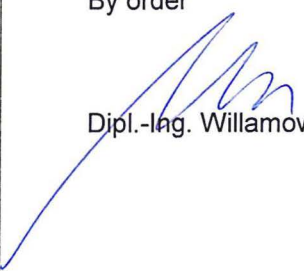
[12] The marking of the product shall include the following:

 **G IIA**  
-20 °C < T<sub>a</sub> < +60 °C

IBExU Institut für Sicherheitstechnik GmbH  
Fuchsmühlenweg 7  
09599 Freiberg, GERMANY

Tel: + 49 (0) 37 31 / 38 05 0  
Fax: + 49 (0) 37 31 / 38 05 10

By order

  
Dipl.-Ing. Willamowski



Certificates without signature and seal are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.

Freiberg, 2018-01-30

# IBExU Institut für Sicherheitstechnik GmbH

An-Institut der TU Bergakademie Freiberg

## [1] EU-TYPE EXAMINATION CERTIFICATE - Translation



[2] Equipment or protective systems intended for use in potentially explosive atmospheres, Directive 2014/34/EU

[3] EU-type examination certificate number **IBExU18ATEX2003 X** | Issue 0

[4] Product: **End-of-line flame arrester**  
Type KSFE-S DN15 to DN300

[5] Manufacturer: Korea Steel Power Corporation

[6] Address: 488-1, Wolha-ro,  
Tongin-eup, Gimpo-si, (Zip Code: 10010)  
KOREA

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] IBExU Institut für Sicherheitstechnik GmbH, Notified Body number 0637 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential test report IB-17-2-0100.

[9] Compliance with the essential health and safety requirements has been assured by compliance with: EN ISO 16852:2016 except in respect of those requirements listed at item [18] of the schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the specific conditions of use specified in the schedule to this certificate.

[11] This EU-type examination certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

 **G IIA**  
-20 °C < T<sub>a</sub> < +60 °C

IBExU Institut für Sicherheitstechnik GmbH  
Fuchsmühlenweg 7  
09599 Freiberg, GERMANY

Tel: + 49 (0) 37 31 / 38 05 0  
Fax: + 49 (0) 37 31 / 38 05 10

By order

Dipl.-Ing. Willamowski



Certificates without signature and seal are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.

Freiberg, 2018-01-30



[1] **EU-TYPE EXAMINATION CERTIFICATE - Translation**

[2] Equipment or protective systems intended for use in potentially explosive atmospheres, Directive 2014/34/EU

[3] EU-type examination certificate number **IBExU18ATEX2127 X** | Issue 0

[4] Product: **Deflagration proof and short time burning proof  
End-of-line flame arrester  
KSFE-S-DN**

Connection size DN (mm)	Connection size DN (inch)
15	1/2"
20	3/4"
25	1"
40	1 1/2"
50	2"
65	2 1/2"
80	3"
100	4"
150	6"
200	8"
250	10"
300	12"

[5] Manufacturer: Korea Steel Power Corporation (KSPC)

[6] Address: 488-1, Wolha-ro, Tongin-eup, Gimpo-si  
Zip-Code: 10010  
KOREA

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] IBExU Institut für Sicherheitstechnik GmbH, Notified Body number 0637 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential test report IB-18-2-0102 dated 27 October 2018.

[9] Compliance with the essential health and safety requirements has been assured by compliance with: EN ISO 16852:2016 and EN 1127-1:2011 except in respect of those requirements listed at item [18] of the schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the specific conditions of use specified in the schedule to this certificate.

[11] This EU-type examination certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[1] **EU-TYPE EXAMINATION CERTIFICATE - Translation**



[2] Equipment or protective systems intended for use in potentially explosive atmospheres, Directive 2014/34/EU

[3] EU-type examination certificate number **IBExU19ATEX2212 X** | Issue 0

[4] Product: **In-line flame arrester**  
KSFI-A-DN

Connection size DN (mm)	Connection size DN (inch)
25	1"
50	2"
65	1 1/2"
80	3"
100	4"
150	6"
200	8"
250	10"
300	12"

[5] Manufacturer: Korea Steel Power Corporation (KSPC)

[6] Address: 488-1, Wolha-ro, Tongin-eup, Gimpo-si  
Zip-Code: 10010  
KOREA

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] IBExU Institut für Sicherheitstechnik GmbH, Notified Body number 0637 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential test report IB-19-0-0000 dated 11 september 2019.

[9] Compliance with the essential health and safety requirements has been assured by compliance with: EN ISO 16852:2016 and EN 1127-1:2011 except in respect of those requirements listed at item [18] of the schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the specific conditions of use specified in the schedule to this certificate.

[11] This EU-type examination certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

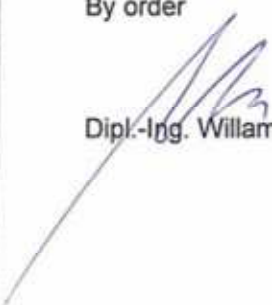
[12] The marking of the product shall include the following:



IBExU Institut für Sicherheitstechnik GmbH  
Fuchsmühlenweg 7  
09599 Freiberg, Germany

Tel: + 49 (0) 37 31 / 38 05 0  
Fax: +49 (0) 37 31 /38 05 10

By order

  
Dipl.-Ing. Willamowski



Certificates without signature and seal are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.

Freiberg, 2019-09-25