



(1) **Supplementary EU - Type Examination Certificate No. 2**

(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 ÷ DN 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 EU - 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) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN ISO 16852:2016

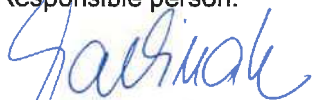
(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

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



(12) This certificate is valid till: **28.02.2027**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 14.02.2022

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Physical-Technical Testing Institute
Ostrava - Radvanice

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 2
to FTZÚ 16 ATEX 0050X**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Change of product marking.
- Extension of certificate validity.

This supplementary certificate prolongs the certificate validity for deflagration, bi-directional in-line flame arrester, type **KSFI-A** DN 25 ÷ DN 300 (flange size: 1 Inch (DN 25) to 12 Inch (DN 300)). In-line deflagration flame arresters, type KSFI-A are used to prevent a flame transmission of flammable gas and/or vapour/air-mixtures of the explosion group IIA with a maximum experimental safety gap (MESG) > 0.90 mm. The in-line deflagration flame arresters, type KSFI-A are designed as the bi-directional without burning time BC: c with the maximum operational pressure $p_0 = 1.1$ bar abs., the maximum operational temperature of the flame arrester $T_0: -20\text{ °C} \leq T_0 \leq +60\text{ °C}$ and ration $L_w/D = 50$.

The deflagration, bi-directional in-line flame arrester, type **KSFI-A** is consist from a housing and a flame arrester element. The housing is made from Carbon steel or Stainless steel. The flame arrester element is made from Stainless steel 316L. The flame arrester element consists of a quenching gaps (the high of crimped tape) ≤ 0.69 mm. Through these quenching gaps the flammable gas and/or vapour/air-mixtures can flow, however, a flame transmission is prevented.

The technical parameters, construction and used materials of the deflagration, bi-directional in-line flame arrester, type KSFI-A DN 25 ÷ DN 300 remain unchanged.

(16) Report Number: 16/0050/2

(17) Specific Conditions of Use:

None additional to those listed previously.

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) of this supplementary certificate.

(19) Drawings and Documents:

Number	Sheets	Date	Description
--	29	24.01.2022	Operating, installation and maintenance manual

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 14.02.2022

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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.