Certificate

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1 EU – Type Examination Certificate

2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU

3 EU – Type Examination Certificate Number: **KIWA 17ATEX0019 X Issue: 1**

4 Product: **Plugs and Ignition Lances models M22D and M30D and Sockets models M30D**

5 Manufacturer: **Smitsvonk Holland B.V.**
6 Address: **Goudstraat 6, 2718 RC Zoetermeer, The Netherlands**

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

8 Kiwa Nederland B.V., notified body number 0620 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 confidential ATEX Assessment Report No. 150301193.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 : 2012 + A11 : 2013 **EN 60079-1 : 2014**

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:

II 2 G Ex db IIC T6...T4 Gb (plugs and sockets)
II 2/- G Ex db IIC T6...T4 Gb/- (ignition lances)

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Kiwa Nederland B.V.

Pieter van Breugel
Certification Officer

Issue date: 23 October 2017

First issue: ---

This certificate shall, as far as applicable, be revised before the date of cessation of presumption of conformity of (one of) the included standards above as communicated in the Official Journal of the European Union.

PRODUCTIE RvA C 007

ExVision Form 81
Version 3.0 (2016-06)

13 SCHEDULE

14 EU – Type Examination Certificate KIWA 17ATEX0019 X Issue No. 1

15.1 Description of Product

The Plugs, Sockets and Ignition Lances models M22D and M30D are used to transfer ignition, thermocouple and ionisation signals between pilot/ignition burners, ignition lances and spark plugs to and from ignition and control units. The plug or socket parts can be closed with a protection cap, models M22D or M30D.

The model code is as follows:

Plug, model PLUG-a-b-c-d
a: electrical circuit: IGN, ION, TC or DTC
b: thread size: M30DS, M30DA, M22DS, M22DA
c: cable gland: NPRNC, BCG, NPCG, SSTCG, SSTRNC, M20M
d: options: LP, Z

Socket, model SOCKET-a-b-c-d
a electrical circuit: IGN, ION, TC or DTC
b: thread size: M30DS, M30DA
c: cable gland: NPRNC, BCG, NPCG, SSTCG, SSTRNC, M20M
d: options: LP, Z

Ignition lance, model a-b-c-d-e
a: lance diameter (mm): 17.2, 22, 26.7
b: connection: M22D, M30D
c: length (mm): max. 6500
d: spark plug: TP1412N, TP17, TK1818, TP181435
e: connection: ½"NPT, ½"BSP, ½"ANSI 150, ¾" ANSI 150, ½"ANSI 300, ¾" ANSI 300, DN20PN16, DN25PN16, AH, Z

Protection cap, model CAP-a-b
a: shape: PLUG, SOCKET
b: connection M20D, M30D

The plugs, sockets and ignition lances provide a degree of protection of IP66 in accordance with EN 60529.

15.2 Electrical Data

Ignition energy	2-18 J per spark Continuously for max. 9 Joule and up to 2 sparks per second 3 minutes on/3 minutes off for 9 – 18 Joule and more than 2 sparks per second
Ignition voltage	1500, 2000 or 3000 V
Ignition frequency	max. 20 sparks per second for 1500 and 2000 V max. 2 sparks per second for 3000 V
Ignition signal, max. peak current	1000 A for less than 15 µs
Ignition signal average current	< 1 A
Ionisation signal	U < 1500 Vac; I < 0,1 A
Thermocouple signal	U < 5 Vdc; I < 0,1 A

13 **SCHEDULE**

14 **EU – Type Examination Certificate KIWA 17ATEX0019 X Issue No. 1**

15.3 **Thermal Data**

Temperature class	Ambient temperature range
T6	-40 °C to +65 °C
T5	-40 °C to +80 °C
T4	-40 °C to +115 °C

15.4 **Instructions**

The instructions provided with the product shall be followed in detail to assure safe operation.

16 **ATEX Assessment Report Number**

150301193.

17 **Specific Conditions of Use**

The flameproof joints are not intended to be repaired.

18 **Essential Health and Safety Requirements**

All relevant Essential Health and Safety Requirements are covered by the standards listed at section 9.

19 **Drawings and Documents**

As listed in ATEX Assessment Report No. 150301193.

SMITSVONK | a member of DURAG GROUP

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EU DECLARATION OF CONFORMITY

We: SMITSVONK HOLLAND B.V.
Goudstraat 6
2718 RC ZOETERMEER
The Netherlands

Hereby declare in our sole responsibility that the products:
M22 and M30 connector plugs, lances and caps and M30 sockets models:
Plug-...-M30D.-...-.. and Plug-...-M22D.-...-..
Socket-...-M30D.-...-..
CAP-...-M22D and CAP-...-M30D
Lance-...-M22D and Lance-...-M30D

According to the requirements of the Directive
ATEX Directive 2014/34/EU
Equipment and protective systems intended for use in potentially explosive atmospheres

Which is the subject of this declaration, is in conformity with the following standards or normative documents.
KIWA 17ATEX0019 X
EN 60079-0 : 2012 + A11 : 2013
EN 60079-1 : 2014

ATEX Notified Bodies for EC Type Examination Certificate
Kiwa Nederland B.V. (Notified Body Number 0620)
Wilmersdorf 50
7300 AC Apeldoorn
The Netherlands

ATEX Notified Body for Quality Assurance
DEKRA Certification B.V. (Notified Body Number 0344)
Meander 1051
6825 MJ Arnhem
The Netherlands

Zoetermeer, 23 October 2017

Hans Gon
(Managing Director)