



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Protective system intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 05ATEX9050X** Issue: **4**

4 Equipment: **Type 523 P/V Vents - End-of-Line Deflagration Flame Arresters**

5 Applicant: **Dover C R Spol s.r.o (OPW Fueling Components Europe)**

6 Address: **Prumyslova 4
431 51 Klasterec nad ohri
Czech Republic**

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

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

ISO 16852:2010 EN 13463-1:2001

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified protective system. If applicable, further requirements of this Directive apply to the manufacture and supply of this protective system.

12 The marking of the protective system shall include the following:



IIA
ISO 16852:2010

Project Number 70011120

C Ellaby
Deputy Certification Manager

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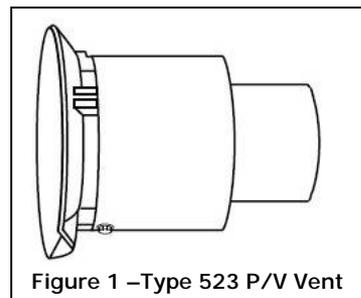
SCHEDULE

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13 DESCRIPTION OF PROTECTIVE SYSTEM

The device, as detailed in Figure 1, has a two-piece, aluminium alloy body that is threaded at one end thus enabling it to be fitted onto the process pipework. The body houses two 'poppet' type valves retained by means of individual springs. The flame-arresting element is double stainless steel gauze mounted within the body. A weather hood is mounted at the top of the body and retains both the valves and arrester element. The definition of the type of protection is:



End-of-line, deflagration, uni-directional, group IIA.

Variation 1: This variation introduced the following changes:

- i. An alternative poppet spring.
- ii. The introduction of additional drawings for the labels.

Variation 2: This variation introduced the following change:

- i. The introduction of a new label drawing that clarifies the year of construction and QAN provider.

Variation 3: This variation introduced the following changes:

- i. The label marking was approved to be laser etched and applied directly to the products.
- ii. Drawing No. 523(UK) marking, was superseded by Drawing No. 523 METAL UK.
- iii. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, the standard previously listed in section 9, EN 12874:2001, was replaced by ISO 16852:2010, the markings in section 12 were updated accordingly.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	8 March 2006	R51M12756A	The release of the prime certificate.
1	15 June 2007	R59V16717A	This Issue covers the following changes: <ul style="list-style-type: none"> • All previously issued certification was rationalised into a single certificate, Issue 1. Issue 0 referenced above is only intended to reflect the history of the previous certification and has not been issued as a document in this format. • The introduction of Variation 1.
2	04 October 2007	R51M15187A	Clarification of the company name and address
3	26 November 2010	R12756A/01	The introduction of Variation 2.
4	28 October 2014	R70011120A	The introduction of Variation 3.

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Sira Certification Service

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- 15 **SPECIAL CONDITIONS FOR SAFE USE** (denoted by X after the certificate number)
- 15.1 The devices will not be used where there is a risk of stabilised burning.
- 15.2 The devices will be mounted in accordance with the manufacturer's instructions such that they will not be subjected to damage caused by impact.
- 16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)**
- The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.
- 17 **CONDITIONS OF CERTIFICATION**
- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

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Certificate Annexe

Certificate Number: Sira 05ATEX9050X
Equipment: Type 523 P/V Vents - End-of-Line
Deflagration Flame Arresters
Applicant: Dover C R Spol s.r.o
(OPW Fueling Components Europe)



Issue 0

Number	Sheet	Rev.	Date	Description
CC-523-2	1 of 1		14 Nov 05	523 P/V vents - general arrangement
HN-040906-1	1 of 1	-	06 Sep 04	Arrester mesh
CN-040903-1	1 of 1	-	03 Sep 04	Arrester body
HN-040901-2	1 of 1	-	02 Sep 04	Mesh guide
HN-040901-1	1 of 1	-	02 Sep 04	Top cover
HN-960405-1	1 of 1	A	31 Aug 04	Base
HN-051114-1	1 of 1	-	22 Feb 06	Marking details

Issue 1

Number	Sheet	Rev.	Date	Description
CC-523-2	1 of 1	B	15 May 07	523 P/V vents general arrangement
HN-051114-2	1 of 1	RDW	14 May 07	Label details (14mbar spring)
HN-051114-3	1 of 1	RDW	14 May 07	Label details (33 mbar spring)
HN-051114-4	1 of 1	RDW	14 May 07	Identification label

Issue 2 (No drawings applicable)

Issue 3

Number	Sheet	Rev.	Date (Sira stamp)	Description
523(UK) Marking	1 to 5	2.0	26 Nov 10	Product Marking Requirements 523 METALUK(DI) Vents

* This drawing was superseded at Issue 4.

Issue 4

Drawing	Sheets	Rev	Date (Sira stamp)	Title
523 METAL UK	1 to 3	3	23 Oct 14	Marking Requirements

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