



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 08ATEX9047** Issue: **2**

4 Equipment: **Type 71SO Fuel Tank Overfill Prevention Valve**

5 Applicant: **Dover CR spol s.r.o. (OPW Fueling Components Europe)**

6 Address: **Prumyslav 4
431 51 Klasterec nad Ohri
Czech Republic**

7 This equipment 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 equipment 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:

EN 13616:2004 Incorporating Corrigendum No. 1 EN 13463-1:2001

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment 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 equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 1 G
EN 13616
Type A1

Project Number 33102

C Ellaby
Deputy Certification Manager

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SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The Type 71SO Tank Overfill Prevention Valve is designed to be fitted to a class I or Class II liquid fuel storage tanks. The Valve bolts onto the top of the tank and connects to the fill pipe via a 4"/DN100 (nominal) connection.

The Valve comprises a tubular body and contains a two-stage valve arrangement. The Valve is actuated by an external float and actuating arm. A drop tube is fitted above the valve with a 'crimp' to direct flow.

Fill method	Type as defined in EN 13616	Normal operating pressure	Maximum static pressure after closure	Valves
Gravity	A1	0.4 bar	2 bar	Two stage (L ₁ & L ₂)

Design options

The drop tube may be cut to the required height and is finished with a sealed cap. The Valve is designated according to the drop tube height:

Designation	Vapour tight	Upper drop tube height (inches)	Lower drop tube height (inches)
71SO-400A	Yes	60	83
71SO-410A	Yes	120	102

Variation 1 - This variation introduced the following change:

- i. The part numbers were revised.

Variation 2 - This variation introduced the following changes:

- i. The drawing list was reviewed and several obsolete drawings were removed.
- ii. Drawing C05158 was added to this certificate, this drawing depicts the latch sub-assembly of the Fuel Tank Overfill Prevention Valve.
- iii. Drawing C05159 was added to this certificate, this drawing depicts the float mechanism sub-assembly of the Fuel Tank Overfill Prevention Valve.
- iv. Drawing D01865M was added to this certificate, this drawing depicts the upper tube of the Fuel Tank Overfill Prevention Valve.
- v. Drawing 71SO-400C was revised to recognise change to parts list adding packaging details.
- vi. Drawing 71SO-410C was revised to recognise change to parts list adding packaging details'
- vii. Additional marking required by the standards was added to the certificate.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	7 August 2008	R59M15853A	The release of the prime certificate.
1	25 October 2010	R23046A/00	The introduction of Variation 1.
2	18 March 2014	R33102A/00	The introduction of Variation 2.

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Issue 2

- 15 **SPECIAL CONDITIONS FOR SAFE USE** (denoted by X after the certificate number)
None
- 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.
- 17.3 Where required, the devices shall be checked and tested in accordance with clause 5.5.5 of EN 13616:2004. Functional tests may be simulated.

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Certificate Annexe

Certificate Number: Sira 08ATEX9047
Equipment: Type 71SO Fuel Tank Overfill Prevention Valve
Applicant: Dover CR spol s.r.o.
(OPW Fueling Components Europe)



Issue 0

Drawing	Sheet	Rev.	Date (Sira stamp)	Description
71SO-400A	1 of 1	A	04 Jul 08	71SO-400 overfill prevention valve - general arrangement
71SO-410A	1 of 1	A	04 Jul 08	71SO-410 overfill prevention valve - general arrangement
202247	1 of 1	A	04 Jul 08	71SO overfill prevention valve – valve body
C05159	1 of 1	REL	04 Jul 08	Float
202250	1 of 1	A	04 Jul 08	Valve bracket arrangement
C03582	1 of 1	A/RDRWN	04 Jul 08	Secondary valve details
C04875	1 of 1	REL	04 Jul 08	Link arm assembly
C03549	1 of 1	F/RDRWN	04 Jul 08	Valve sealing detail
PMR005	1 to 5	0.02	07 Aug 08	Marking details

Issue 1

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
71SO-XXXX Marking	1 to 5	4.0	10 Aug 10	Product Marking Requirements 71SO Overfill Prevention Device
71SO-400C	1 of 1	C	10 Aug 10	Vapour Tight Overfill Prevention Valve
71SO-410C	1 of 1	C	10 Aug 10	Vapour Tight Overfill Prevention Valve

Issue 2

The following drawings were introduced.

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
C05158	1 of 1	REL	20 Feb 14	Bracket S/A
D01865M	1 of 1	E	20 Feb 14	Upper Tube
E00707	1 of 1	REL	20 Feb 14	Carb Body S/A
71SO-400C	1 of 1	E	24 Feb 14	Vapor tight overfill prev. valve
71SO-410C	1 of 1	E	24 Feb 14	Vapor tight overfill prev. valve

The following drawings are no longer required.

Drawing	Sheet	Rev.	Date (Sira stamp)	Description
71SO-400A	1 of 1	A	04 Jul 08	71SO-400 overfill prevention valve - general arrangement
71SO-410A	1 of 1	A	04 Jul 08	71SO-410 overfill prevention valve - general arrangement
202247	1 of 1	A	04 Jul 08	71SO overfill prevention valve – valve body
202250	1 of 1	A	04 Jul 08	Valve bracket arrangement
PMR005	1 to 5	0.02	07 Aug 08	Marking details

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