



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 08ATEX9048** Issue: **2**

4 Equipment: **Type 61SO 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 61SO Tank Overfill Prevention Valve is designed to be fitted to Class I or Class II liquid fuel storage tanks. The valve bolts to the top of the tank and connects to the fill pipe via a 4"/DN100 (nominal) connection.

The valve, which is actuated by an external float and actuating arm, comprises a tubular body and contains a two-stage, valve arrangement. A vertical drop tube is fitted above the valve. The device is defined as:

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

Device designation	Vapour tight	Comments
61-SO 490A 61-SO 495A	Yes	Long & short drop tube variants. Increased velocity, narrow drop tube.
61-SO 400A 61-SO 410A	No	Long & short drop tube variants. Standard crimp type drop tube.
61-SO BYTA	No	Short tube deflector plate type.

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 E00312 was added to this certificate. This drawing is identical to and replaces drawing 202252.
- iii. Drawing 61SO-4004 was revised to remove all models.
- iv. Drawing C03741 was added to this certificate, this drawing depicts the sub-assembly of the float mechanism.
- v. Drawing C03583 was added to this certificate, this drawing depicts the sub-assembly of the main poppet. This drawing replaces C04051.
- vi. 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	R59M17904A	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.

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

None

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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 08ATEX9048
 Equipment: Type 61SO 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
61SO-400A	1 of 1	A	19 Jun 08	61-SO- 4000 overfill prevention valve – general arrangement
61SO-410A	1 of 1	A	19 Jun 08	61-SO- 4010 overfill prevention valve – general arrangement
61SO-490A	1 of 1	A	19 Jun 08	61-SO- 490C overfill prevention valve – general arrangement
61SO-495A	1 of 1	A	19 Jun 08	61-SO- 495C overfill prevention valve – general arrangement.
61SO-BYTA	1 of 1	A	19 Jun 08	61SO- 4BYTA overfill prevention valve – general arrangement
202252	1 of 1	A	19 Jun 08	Modular valve arrangement
202271	1 of 1	A	19 Jun 08	Vapour tight body arrangement
C05159	1 of 1	REL	19 Jun 08	Float
C04051	1 of 1	C	19 Jun 08	Valve assembly
C04877	1 of 1	-	19 Jun 08	Valve bracket arrangement
C03582	1 of 1	A	19 Jun 08	Secondary valve details
C04875	1 of 1	REL	19 Jun 08	Link arm assembly
C03549	1 of 1	F	19 Jun 08	Valve sealing detail
D01865M	1 of 1	D	19 Jun 08	Example of drop tube 'crimp'
PMR 004	1 to 5	0.04	07 Aug 08	Marking details

Issue 1

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
61SO-XXXX Marking	1 to 5	1.1	06 Oct 10	Product Marking Requirements 61SO Overfill Prevention Device
61-SO-4004	1 of 1	J	10 Aug 10	61-SO-4004 Overfill Prevention Drop Tube Valve With Inlet Tube
61SO-4BYE	1 of 1	B	10 Aug 10	Overfill Valve (Supply Your Own Tubes)

Issue 2

The following drawings were introduced.

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
61SO-4004	1 of 1	K	24 Feb 14	Over fill prevention drop tube valve with inlet tube.
E00312	1 of 1	J	24 Feb 14	Modular Valve
C03583	1 of 1	D	24 Feb 14	S/A Main Poppet & Link
C03741	1 of 1	B	24 Feb 14	S/A Float Mechanism

The following drawings are no longer required.

Drawing	Sheet	Rev.	Date (Sira stamp)	Description
61SO-400A	1 of 1	A	19 Jun 08	61-SO- 4000 overfill prevention valve – general arrangement
61SO-410A	1 of 1	A	19 Jun 08	61-SO- 4010 overfill prevention valve – general arrangement
61SO-490A	1 of 1	A	19 Jun 08	61-SO- 490C overfill prevention valve – general arrangement
61SO-495A	1 of 1	A	19 Jun 08	61-SO- 495C overfill prevention valve – general arrangement.
61SO-BYTA	1 of 1	A	19 Jun 08	61SO- 4BYTA overfill prevention valve – general arrangement
202252	1 of 1	A	19 Jun 08	Modular valve arrangement
202271	1 of 1	A	19 Jun 08	Vapour tight body arrangement
C05159	1 of 1	REL	19 Jun 08	Float

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Sira Certification Service

Rake Lane, Eccleston, Chester, CH4 9JN, England

Tel: +44 (0) 1244 670900
 Fax: +44 (0) 1244 681330
 Email: info@siracertification.com
 Web: www.siracertification.com

Certificate Annexe

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Equipment: Type 61SO Fuel Tank Overfill Prevention Valve
Applicant: Dover CR spol s.r.o.
(OPW Fueling Components Europe)



Drawing	Sheet	Rev.	Date (Sira stamp)	Description
C04051	1 of 1	C	19 Jun 08	Valve assembly
C04877	1 of 1	-	19 Jun 08	Valve bracket arrangement
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