EU-Type Examination 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: ITS07ATEX15746 Issue 4**

4. **Product:** Redundant Control System RCS 5RC

5. **Manufacturer:** ASCO VALVE, INC.

6. **Address:** 160 Park Ave.
Florham Park
New Jersey 07932
USA

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

8. Intertek Testing and Certification Limited, Notified Body number 0359 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the 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 Intertek Reports 3112950CRT-001C dated January 2008, revised July 7th, 2008, 3180364CRT-001 dated June 18, 2009, 100933409CRT-003a – i dated July 30, 2015. 102704276CRT-002A and 102704276CRT-002B dated September 26, 2016

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012+A11:2013, EN 60079-1: 2007, EN 60079-7: 2007, and EN 60079-18: 2009 except in respect of those requirements referred to at item 16 of the Schedule.

10. If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Safe 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 d e mb IIC Gb
    Refer to Schedule for Temperature Class
    and Ambient Temperature range.

Brad Bombardier

Brad Bombardier, P.E.
Certification Officer
03 October 2016

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This certificate may only be reproduced in its entirety and without any change, schedule included and is subject to Intertek Testing and Certification's Conditions for Granting Certification.

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS07ATEX15746 Issue 4

13. Description of Equipment or Protective System

The RCS 5RC (Redundant Control System) is a two–out–of–two (2oo2) or one–out–of–one hot standby (1oo1) HS voting solenoid – operated valve system designed for use as a component in safety instrumented systems. It functions as a redundant pneumatic tripping device to control the pilot air signal to a process valve actuator. The RCS uses 2oo2 or 1oo1 HS voting solenoids to enhance the reliability of the circuit. The RCS consists of two electrically actuated solenoid valves (SOV1, SOV2) and a pneumatically actuated (Manually key controlled) bypass valve, and three pressure switches. The pressure switches provide solenoid state feedback and are used during on-line testing of the RCS unit. The bypass valve allows for maintenance of the solenoid valves without having to shut down the process valve.

-40°C ≤ Ta ≤ 60°C (Units without Lights or Lighted Pushbuttons);;
-30°C ≤ Ta ≤ 60°C (Units with Lighted Pushbuttons)
-25°C ≤ Ta ≤ 60°C (Units with Lights)

Temperature Class T6 for DC powered units.
Maximum Surface Temperature 180°C for AC powered units.

14. Report Number

Intertek Reports 3112950CRT-001C dated January 2008, revised July 7th, 2008, 3180364CRT-001 dated June 18, 2009, 100933409CRT-003a – i dated July 30, 2015. 102704276CRT-002A and 102704276CRT-002B dated September 26, 2016

15. Special Conditions of Certification

(a). Specific Conditions of Safe Use
- None

(b). Conditions of Manufacture - Routine Tests
- None

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SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS07ATEX15746 Issue 4

16. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Reports 3112950CRT-001C dated January 2008, revised July 7th, 2008, 3180364CRT-001 dated June 18, 2009, 100933409CRT-003a – i dated July 30, 2015. 102704276CRT-002A and 102704276CRT-002B dated September 26, 2016

17. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Coil RH MXX CL:F Watts:11.6 FT DC, 22.6 FB DC, 1.4 LP DC 1.8 LP2 DC, 0.55 LP3 DC, 0.7 LP4 LEADED EXPLOSION PROOF	238714	BJ	06-16
Coil RH MXX CL:H WATTS: 10.1 HT AC, 17.1 HB AC LEADED EXPLOSION PROOF	238814	AT	06-16
Yoke Assy Rh Mxx ½ Npt, Explosion Proof	254084	N	2013-10-22
Coil Assy, Rh Mxx/M12 ½ Npt Explosion Proof/Intrinsically Safe	262273	L	2015-02-13
Nameplate Rcs	292202	J	2016-08-16
Rcs Atex Certification	293343	F	2015-06-16
Enclosure Assembly, Nc Rcs (Redundant Control System) With Pushbutton Sov Test	295130	C	09-13
Enclosure Assembly, Nc Rcs (Redundant Control System) With Pushbutton Sov Test	297458	A	09-13
Operation and Maintenance Guide	V9512	R9	16 Sep 2015

18. Details of Certificate Changes Issue 4

Original Issue: **17th January 2008 (07023682)**
Variation 1: **Variation 1: 9th July 2008 (08034397)**
Issue 2: **19th June 2009 (09040724)**
Issue 3: **31st July 2015**
Issue 4: **23rd September 2016**
Update to standard EN 60079-2012 to EN 60079-0:2012+A11:2013
This certificate replaces all previous issues and supplementary certificates.

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