



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx LCI 07.0015X issue No.: 8  
Status: **Current**  
Date of Issue: **2013-04-25** Page 1 of 5

Applicant: **ASCO JOUCOMATIC**  
53, rue de Beauce  
BP17  
28111 LUCE CEDEX  
France

Certificate history:  
Issue No. 8 (2013-4-25)  
Issue No. 7 (2013-3-8)  
Issue No. 6 (2011-12-27)  
Issue No. 5 (2010-10-12)  
Issue No. 4 (2010-3-10)  
Issue No. 3 (2010-2-22)  
Issue No. 2 (2009-3-18)  
Issue No. 1 (2008-3-27)  
Issue No. 0 (2007-11-29)

Electrical Apparatus: **Magnetic head**  
Optional accessory:

Type of Protection: **d (gas) and t (dust)**

Marking: Manufacturer  
Address: ...  
Type : NF-MXX or NF-M12-I or NF-M12-II (1)  
Year of construction : ... ; Serial number: ...  
Ex d IIC T\* Gb  
Ex tb IIIC T\*\* Db IP6X  
IECEx LCI 07.0015 X  
WARNING - DO NOT OPEN WHEN ENERGIZED  
WARNING -AFTER DE-ENERGIZING, DELAY 35 MINUTES BEFORE OPENING  
Near the cable entry :  
CAUTION: Cable temperature : ... °C (See temperature table for choosing cables)  
Ambient temperature : - 60 °C to + 100 °C  
(1) : 2 configurations of boxes : xxx NF-... with:  
xxx : without symbol, aluminium enclosure ; xxx : WS, stainless steel enclosure  
T\* or T\*\* : See temperature tables

Approved for issue on behalf of the IECEx  
Certification Body:

Julien GAUTHIER

Position:

Certification Officer

Signature:  
(for printed version)

  
2013-04-25

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**Laboratoire Central des Industries Electriques (LCIE)**  
33 Avenue du General Leclerc  
FR-92260 Fontenay-aux-Roses  
France

Documents relative to LCIE certification activities (Certificates, QARs, ExTRs) can be registered under the references "LCI" or "LCIE".





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Manufacturer: **ASCO JOUCOMATIC**  
53, rue de Beauce  
BP17  
28111 LUCE CEDEX 2  
France

Additional Manufacturing location  
(s):

**Manufacturing Locations  
detailed in page 5  
"additional information"**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

## STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2007-10</b> Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
<b>IEC 60079-1 : 2007-04</b> Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2008</b> Edition: 1	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure 't'

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

## TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

### Test Report:

FR/LCI/ExTR07.0021/00	FR/LCI/ExTR07.0021/01	FR/LCI/ExTR07.0021/02
FR/LCI/ExTR07.0021/03	FR/LCI/ExTR07.0021/04	FR/LCI/ExTR07.0021/05
FR/LCI/ExTR07.0021/06	FR/LCI/ExTR07.0021/07	

### Quality Assessment Report:

FR/LCI/QAR07.0006/01	FR/LCI/QAR07.0006/04	GB/SIR/QAR06.0056/01
GB/SIR/QAR06.0056/04	GB/SIR/QAR07.0041/00	GB/SIR/QAR07.0041/02
GB/SIR/QAR07.0041/04	NL/DEK/QAR11.0004/00	NL/DEK/QAR13.0005/00
NL/KEM/QAR07.0018/00	NL/KEM/QAR07.0018/03	NL/KEM/QAR07.0018/05
NL/KEM/QAR08.0001/03	NL/KEM/QAR08.0001/04	NO/DNV/QAR09.0007/00
NO/DNV/QAR09.0007/01		



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Electromagnetic control valve with 2, 3 or 4 channels.

Supply voltage : 6 to 250 V DC/ rectified or 6 to 380 V AC

For temperature tables, See attached document : IECEx LCI 07.0015X issue 08 - Attachment

### CONDITIONS OF CERTIFICATION: YES as shown below:

Feeder must be selected in accordance with maximum ambient temperature and power of coil as indicated in the temperature table for choosing cables given in attached document : IECEx LCI 07.0015X issue 08 - Attachment



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

**Issue 01:** Addition of manufacturing locations

**Issue 02:** Addition of a new manufacturing location : ASCO VALVE (Shanghai) Co. Limited

Address : No.8 Hua Min Road, Song Jiang, Shanghai 201612, P.R. China.

**Issue 03:**

- Addition of a new manufacturing site in India: ASCO NUMATICS (India) Pvt.Ltd.
- Introduction of new version of technical file, 293584 revision D.
- Introduction of new version of assembly drawing, reference 139449 revision J.
- The new certification file introduces an Installation and Maintenance Instruction document

**Issue 04:**

- Addition of 3 production sites : ASCO Valve Inc (New Jersey, USA), ASCO Valve, Inc (Aiken, USA), ASCOTECH, SA de C.V (Mexique)
- Change revision of plan 139449 to revision K : adding of the marking WS (NF) for the stainless steel version, NF version being in aluminium.
- Updating of stainless steel type to type 316
- Modification of the ambient temperature -60°C to +100°C (mistake on the previous issue)

**Issue 05:**

- Standards update
- Update of temperature tables

**Issue 06:** Normative update according to standard IEC 60079-31 Ed.1

**Issue 07:** Change the address of the manufacturer "Asco Valve (Shanghai) Co. Limited":

No.8 Hua Min Road, Xin Qiao, Song Jiang District, Shanghai, 201612, China.

becomes, No.480, Xin Miao No.3 Road, Xiao Qiao Town, Song Jiang District, Shanghai 201612, P.R China.

**Issue 08:** Addition of a new manufacturing location : ASCO Japan Co.,Ltd.

Address : 1-20 Takahata-cho, Nishinomiya, Hyogo 663-8202, Japan.



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## Additional information:

### Additional Manufacturing locations

**ASCO JOUCOMATIC**  
53 rue de Beauce BP 17  
28111 Luce Cedex France

**ASCO JOUCOMATIC Ltd**  
2 Pit Hey Place  
West Pimbo  
SKELMERSDALE LANCASHIRE WN8 9PG United Kingdom

**ASCO CONTROLS B.V**  
Industrielaan 21  
P.O. Box 3  
NL 3925 ZG SCHERPENZEEL The Netherlands

**ASCO JOUCOMATIC SP.ZOO**  
Kurczaki 130  
93331 Lodz Poland

**ASCO VALVES (Shanghai) Co. Limited**  
No.480, Xin Miao No.3 Road, Xiao Qiao Town,  
Song Jiang District,  
Shanghai 201612, P.R China

**ASCO NUMATICS (India) Pvt. Ltd.**  
57, Kundrathur Main Road,  
Gerugambakkam, Porur  
Chennai - 602101, India

**ASCO Valve Inc**  
50 Hanover Road, Florham Park  
New Jersey 07932 USA

**ASCO Valve Inc**  
1561 Columbia HIGHWAY  
Aiken, South Carolina 29801, USA

**ASCOTECH, SA de C.V**  
Citcuito des progreso, Mexicali  
Baja Carolina 21190 Mexico

**ASCO Japan Co.,Ltd.**  
1-20 Takahata-cho, Nishinomiya, Hyogo  
663-8202, Japan

## Temperature tables

**For a fluid temperature lower than ambient temperature**

Température de surface Surface temperature (°C)	Classement en T T Class	Température ambiante Max Max. Amb. Temp. (°C)	Puissance maximale / Maximum power	
			Courant alternatif Alternating current (W)	Courant continu ou rectifié Direct current or rectified (W)
T85	T6	25	17	31,5
		40	11,5	20
		60	5,5	8,5
		75	1	2,5
T100	T5	25	21	40,5
		40	15	32,5
		60	10,5	18
		75	6	10
T135	T4	25	28,5	40,5
		40	22,5	37,5
		60	19,5	32,5
		75	16,5	31
		80	15,4	25
		100	10,5	20

**For a fluid temperature higher than ambient temperature**

Température ambiante Max Max. Amb. Temp. (°C)	Puissance maximale / Maximum power		Température maximale du fluide Maximum fluid temperature (°C)			
	Courant alternatif Alternating current (W)	Courant continu ou rectifié Direct current or rectified (W)				
25	17	31,5	40	75	140	
40	11,5	20	55	90	155	
60	5,5	8,5	75	110	175	
75	1	2,5	90	125	180	
25	21	40,5		60	125	
40	15	32,5		75	140	
60	10,5	18		95	160	
75	6	10		110	175	
25	28,5	40,5			90	
40	22,5	37,5			105	
60	19,5	32,5			125	
75	16,5	31			140	
80	15,4	25			145	160
100	10,5	20			165	
Classe de température / Temperature class (G)			T5	T4	T3	220°C
Température de surface / Surface temperature (D)			T100°C	T125°C	T200°C	T220°C

**Temperature table for choosing cables**

Température ambiante Max Max. Amb. Temp. (°C)	Température du câble Cable temperature (°C)	Puissance maximale / Maximum power	
		Courant alternatif Alternating current (W)	Courant continu ou rectifié Direct current or rectified (W)
25	70	26	40,5
	80	30	
40	70	16	23
	80	22,5	37,5
60	70	4	6
	80	10	14
	90	17	27
	100	25	40,5
75	80	1,5	4
	90	7,5	13
	100	14	24
	105	18	32
80	120	15,4	25
100	105	3	5
	110	6,5	10
	120	13,5	23,5