



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

Certificate No.: IECEx LCIE 19.0008X

Issue No: 0

Certificate history:

Issue No. 0 (2019-07-05)

Status: **Current**

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Date of Issue: **2019-07-05**

Applicant: **Parker Hannifin Motion & Control (WuXi) Co., Ltd.**
No. 200 Fu Rong Zhong Si Road,
Xi Shan Economic Development Zone
Wuxi 214192, Jiangsu
China

Equipment: **Valve Ex coil assy**

Optional accessory:

Type of Protection: **Ex db ; Ex tb**

Marking:

Ex db IIC T6...T4 Gb,

Ex tb IIIC T80°C...T130°C Db

Refer to the annex of the certificate for full marking

Approved for issue on behalf of the IECEx
Certification Body:

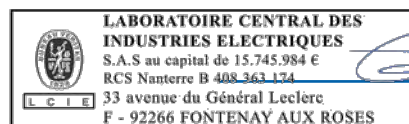
Julien Gauthier

Position:

Certification Officer

Signature:
(for printed version)

Date:



2019-07-05

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





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Manufacturer: **Parker Hannifin Motion & Control (WuXi) Co., Ltd.**
No. 200 Fu Rong Zhong Si Road,
Xi Shan Economic Development Zone
Wuxi 214192, Jiangsu,
China

Additional Manufacturing location(s):

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 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:

IEC 60079-0 : 2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	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/LCIE/ExTR19.0018/00](#)

Quality Assessment Report:

[FR/LCIE/QAR15.0001/03](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The enclosure of Ex coil is protected by type "db" and "tb". The material of enclosure can be stainless steel or aluminium. The coil is installed inside the enclosure. There is an threaded entry hole with thread form 1/2NPT or M20×1.5 for cable gland installation.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- a) Only the suitably certified cable glands can be used for fixing cables.
- b) The flameproof joints are not intended to be repaired.
- c) The special fasteners of the cover on the body are composed of 4 screws CHC stainless steel 6H M6x20. The minimum property class of screws must be A4-70. The screws must be only replaced with identical ones.
- d) Fluid temperature should be less than the corresponding ambient temperature.

Annex:

[Annex 1.pdf](#)



Annex 01 to Certificate IECEX LCIE 19.0008X issue 00



FULL EQUIPMENT DESCRIPTION

The enclosure of Ex coil is protected by type “db” and “tb”. The material of enclosure can be stainless steel or aluminium. The coil is installed inside the enclosure. There is a threaded entry hole with thread form 1/2NPT or M20×1.5 for cable gland installation.

MARKING

Parker Hannifin Motion & Control (WuXi) Co., Ltd.

Address : ...

Type : A03- X- Y- Z

Serial number : ...

Year of construction : ...

Ex db IIC T6 ...T4 Gb

Ex tb IIIC T80°C... T 130°C Db

IECEX LCIE 19.0008X

T amb : See range details in the tables

WARNINGS:

DO NOT OPEN WHEN ENERGIZED

DELAY OPENING FOR 20 MIN

RANGE DETAILS

A03 – X (item 1) - Y (item 2) – Z (item 3)

A03: flameproof enclosure

X (item 1) Type	Z (item 3) Letter code for power supply	VOLTS (V/ Hz)	TOL (± %)	R (Ω) 20°C	WATTS (W) HOT/COLD	WIRE SIZE (mm)	TURNS 4 %	AMBIENT TEMPERATURE
H	C1	12/=	10	11,08	9,0/11,2	0,47	1200	- 60 to + 55/70/90 °C
	C2	24/=	10	46		0,33	2600	
	C4	48/=	10	180		0,24	5200	
	C5	110/=	10	950		0,16	12000	
	3N	125/=	10	1200		0,15	14200	
	B1	24/50	10	11,08		0,47	1200	
	B2	24/60	10	10,5		0,47	1100	
	E6	24/60	10	180		0,24	5200	
	OA	100/50	10	200		0,24	5400	
	F2	110- 120/50	10	920		0,16	11000	
	3D	200/50	10	950		0,16	12000	
	K7	220- 230/50	10	180		0,24	5200	
	3K	110- 120/60	10	180		0,24	5200	
	J2	200/60	10	900		0,16	10000	
7J	220- 230/60	10	920	0,16	11000			
B	C1	12/=	10	24	5,2/5,7	0,42	1800	- 60 to + 65/80/110 °C
	C2	24/=	10	96		0,28	3800	
	C4	48/=	10	384		0,20	7500	
	C5	110/=	10	2000		0,13	17000	
	3N	125/=	10	2600		0,13	20500	
	B1	24/50	10	24		0,33	20500	
	B2	24/60	10	22		0,33	2600	
	E6	24/60	10	384		0,33	2600	
	OA	100/50	10	400		0,33	2600	
	F2	110- 120/50	10	1800		0,14	17000	
	3D	200/50	10	2000		0,13	17000	
	K7	220- 230/50	10	384		0,33	2600	
	3K	110- 120/60	10	384		0,33	2600	
	J2	200/60	10	1700		0,14	16000	
7J	220- 230/60	10	1800	0,14	17000			

X (item 1) Type	Z (item 3) Letter code for power supply	VOLTS (V/ Hz)	TOL (± %)	R (Ω) 20°C	WATTS (W) HOT/COLD	WIRE SIZE (mm)	TURNS 4 %	AMBIENT TEMPERATURE
R	C1	12/=	10	36	3,2/3,6	0,36	2200	- 60 to + 65/80/110 °C
	C2	24/=	10	144		0,26	4800	
	C4	48/=	10	576		0,18	9000	
	C5	110/=	10	3000		0,12	21000	
	3N	125/=	10	3900		0,11	25000	
	B1	24/50	10	40		0,36	2300	
	B2	24/60	10	35		0,36	2200	
	E6	24/60	10	576		0,18	9000	
	OA	100/50	10	600		0,12	9200	
	F2	110- 120/50	10	2850		0,12	20000	
	3D	200/50	10	3000		0,18	21000	
	K7	220- 230/50	10	576		0,18	9000	
	3K	110- 120/60	10	576		0,12	9000	
	J2	200/60	10	2750		0,12	19000	
7J	220- 230/60	10	2850	0,12	20000			
L	C1	12/=	10	75	1,5/1,8	0,31	3400	- 60 to + 65/80/110 °C
	C2	24/=	10	290		0,22	7000	
	C4	48/=	10	1200		0,15	14200	
	C5	110/=	10	6350		0,10	30000	

Y (item 2) Cable entry thread	Entry thread	Flameproof enclosure material
AND	1/2 NPT	Aluminum
ADM	M20×1.5	
RDN	1/2 NPT	SS 316L
RDM	20×1.5	

**Temperature class:
series H(11.2W)**

Ambient temperature	Temperature class
-60°C ≤ Ta ≤ +55°C	T6/T80°C
-60°C ≤ Ta ≤ +70°C	T5/T95°C
-60°C ≤ Ta ≤ +90°C	T4/T130°C

series B(5.7W), R(3.6W), L(1.2W)

Ambient temperature	Temperature class
-60°C ≤ Ta ≤ +65°C	T6/T80°C
-60°C ≤ Ta ≤ +80°C	T5/T95°C
-60°C ≤ Ta ≤ +110°C	T4/T130°C

RATINGS

Depends on model (see description of product on tables above).

ROUTINE TESTS

According to § 16.3 of the standard IEC 60079-1 (Ed 7.0) each product shall succeed an overpressure test under 1181 kPa