IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx EUT 25.0004X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 1	Issue 0 (2025-10-15)
Date of Issue:	2026-02-10		
Applicant:	**Rotork Fluid SystemsS.r.l.** Via Padre Jacques Hamel 138 B Porcari (LU) 55016 **Italy**		
Equipment:	**SI3-SI4**		
Optional accessory:	N/A		
Type of Protection:	**IEC TS 60079-46**		
Marking:	Ex 60079-46 IIB T4 Gb or Ex 60079-46 IIC T4 Gb		

Approved for issue on behalf of the IECEx Certification Body: **Bucchieri Dionisio**

Position: **Head of IECEx Certification Body**

Signature:
(for printed version)

Date:
(for printed version)

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Certificate issued by:

Eurofins Product Testing Italy S.r.l.
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Italy

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Date of issue: 2026-02-10 Issue No: 1

Manufacturer: **Rotork Fluid SystemsS.r.l.**
Via Padre Jacques Hamel 138 B
Porcari (LU) 55016
Italy

Manufacturing locations:

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 equipment 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 60079-0:2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC TS 60079-46:2017 Edition:1.0	Explosive atmospheres - Part 46: Equipment assemblies
ISO 80079-36:2016 Edition:1.0	Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic methods and requirements

This Certificate **does not** indicate compliance with 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:

IT/EUT/ExTR25.0005/01

Quality Assessment Report:

DE/EPS/QAR24.0009/00

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

General product information:

SI3-SI4

The SI3-SI4 equipment are self-contained, electro-hydraulic, fail safe actuators assemblies and these are mainly composed by two parts:

the SI3-SI4 Electro-Hydraulic Control Modules and the hydraulic actuator model GH.

For more details see the attached document.

The following specific clauses have been evaluated according to IEC 60079-14:2013 : 4.1, 4.2, 4.3, 4.4, 4.5, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 5.10, 5.11, 5.12, 5.13, 5.14, 5.15, 5.16, 6.1, 6.2, 6.4, 6.5, 6.7, 6.8, 6.9, 9.1, 9.2, 9.3, 9.4, 9.6, 10.1, 10.2, 10.3, 10.4, 10.5, 10.6, 10.7, 10.8, 11, 12, 13, 14.1, 14.2, 14.3, 14.4, 15.1, 15.2, 15.3, 15.4, 16, 17, 18, 19, 20, 21, 22 and 23 and have been found satisfactory or N/A.

SPECIFIC CONDITIONS OF USE: YES as shown below:

"Specific Conditions of Use":
Rotork controller
This equipment shall be installed such that the risk of impact to the window is low.
This equipment includes some external non-metallic parts, including the outer protective coating. The user shall therefore ensure that the equipment is not installed in a location
where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment should be done only with a damp cloth.
The equipment utilises A4-80 fasteners, if these are changed they shall only be replaced by A4-80 fasteners.
With reference to clause 5.1 of IEC 60079-1:2014 - The flamepaths associated with this equipment are not to be repaired.
When covers are removed and replaced, all cover securing fasteners must be tightened to 20 to 22 Nm.
External motor Elnor BAAP80X DC Motor
Hexagon socket set screws shall only be replaced by those which are identical and have a quality grade of at least 12.9.
External motor CEMP model AC/AB
The flame paths are specified on the manufacturer's drawings. For information regarding the dimensions of the flameproof joints the manufacturer shall be contacted.
In special cases the suitable paint system is not in compliance to thickness limit indicated for gas group IIC. In order to minimize risk of hazards caused by electrostatic charges,clean motor only with a wet rag or by non-frictional means.
External motor CEMP model E***
The flame paths are specified on the manufacturer's drawings. For information regarding the dimensions of the flameproof joints the manufacturer shall be contacted.
For installation in places with presence of gas group IIC, when motors are painted with a maximum thickness of paint exceeding 0.2mm, shall be taken into account the risk of electrostatic charges, see manufacturer instructions.
Rotork actuator model GH
The end user shall check the temperature of the process fluid used and the conditions of irradiation, since the actuator has no internal heat source and its surface temperature is strictly dependent on the mentioned factors.
The end user shall follow IEC 60079-14 requirements for installing the actuator in combination with other equipment.
The end user shall establish and maintain the grounding connections on the actuator.
The end user shall avoid performing maintenance operations with acidic or basic solutions
The end user shall repair any damage to the paintwork according to Rotork's painting instructions.
The end user shall use only replacement parts specified by Rotork when replacement parts are required.
The end user shall not polish or rub non-conductive surfaces with a dry cloth and avoid from any charging mechanism stronger than manual rubbing of surfaces, to prevent
electrostatic charges in potentially explosive areas.
Bartec Fittings
The stopping plugs shall not be used with adaptors.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
The amendment of the present certificate has been done exclusively for the purpose of updating the item identification from "**SI3-SI4 GH Assembl**y" to "**SI3-SI4**". This modification does not entail any change to the design, constructional features.
All technical parameters, conformity assessments, and safety requirements previously verified remain fully unchanged from the previous issue of this certificate.

Annex:

EPT_26 REL 02-2613022.pdf

SI3-SI4 Assembly description:

The Electro-hydraulic systems assembly are mainly composed of:

- **The SI3 and SI4,** range of Electro-Hydraulic Control Modules for use with either an optional Power Module or a suitably approved third party motor and hydraulic pump.
When the optional Power Module is mounted locally the electrical and motor enclosures are separated by a potted line bush, already included in the certificate of control modules, that forms a cylindrical flameproof joint with the motor pump housing. When the Power Module is remotely mounted, or a third-party motor and pump is used the connection is via additional cable entries in the blanking covers fitted with suitably approved cable entry devices.
The pump can be instantaneously switched to increase or decrease the hydraulic pressure to a suitable spring return or double acting, linear or quarter-turn actuator. The Control Module consists of an electrical unit, terminal enclosure and hydraulic manifold used to control and regulated the hydraulic actuator. This module has also the scope to stop the pump action as automatic fault response procedure.

- **Power unit**: motor, pump and tank connected and integrate in a single unit. The optional Power Module consists of a motor enclosure and hydraulic fluid reservoir which also contains the hydraulic pump, the motor enclosure and reservoir are connected by the motor/pump housing. The motor enclosure contains a motor fitted with thermal protection devices and connects to the motor/pump housing by means of a flameproof cylindrical spigot joint. The motor shaft forms a cylindrical flameproof. Joint through the motor pump housing and connects to the hydraulic pump in the reservoir via an Oldham coupling.
- **GH range**: Hydraulic actuator
- **Accumulators** (optional) to provide multiple back-up strokes on loss of power supply, along with increasing the hydraulic stroke speed on spring-return actuators with relative pressure relief valve.

List of already certified device:

Item type	Part number	Description (certificate)	Type of protection	Temperature class	EPL	Ambient temperature range	Ratings	Specific Conditions of Use	Manufacturer	CoC number	Issue	Standards
1	SI3 and SI4	Skilmatic Range of Electro-Hydraulic Control Modules	Ex db (1) IIB or IIC (1) eb" added on versions with increased safety terminal enclosure	T4	Gb	-20°C or-50°C +70°C Depends on the configurations	See table below	YES	Rotork UK Limited	IECEx SIR 15.0046X	9	IEC 60079-0 2017 IEC 60079-1:2014 IEC 60079-7 :2017
2	BAAP80X DC MOTOR	ELNOR MOTORS	Ex db IIB	T4	Gb	-20°C …+60°C	See table below	YES	Elnor Motors	IECEx BAS 15.0068X	2	IEC 60079-0:2017 IEC 60079-1:2014
3	E* Model	Three-phase asynchronous motors, brake motors and terminal boxes	Ex db I Mb or Ex db eb I Mb Ex db IIB/IIC Ex tb IIIB/IIIC T85°C…T150°C Db	T6…T3	Gb	-60° to +60°C -60°C to +80°C (Only for Group IIB)	See table below	YES	CEMP S.r.l	IECEx FIDI 20.0001X	4	IEC 60079-0:2011 IEC 60079-1:2014 IEC 60079-31:2013 IEC 60079-7:2015
4	PRO BYSY v1.1	Actuator setting tool	Ex ia IIC	T4	Ga	-30°C to +50°C		N/A	Rotork Controls Ltd	IECEx CML 20.0054	2	IEC 60079-0:2017 IEC 60079-11:2011
5	GP and GH	Rotork Actuators for Quarter-Turn Valves	Ex h IIC Ex h IIIC	T5	Gb Db	-20°C to +100°C -30°C to +100°C -40°C to +100°C		YES	Rotork Fluid Systems	IECEx EPS 24.0085X	0	IEC 60079-0:2017 ISO 80079-36:2016 ISO 80079-37:2016

Item type	Part number	Description (certificate)	Type of protection	Temperature class	EPL	Ambient temperature range	Ratings	Specific Conditions of Use	Manufacturer	CoC number	Issue	Standards
6	EXIOS and EXIOS MZ	Cable gland series type	Ex db eb IIC Ex ta IIIC		Gb Da	-60°C up to +105°C		YES	Hummel AG	IECEx BVS 10.0078X	2	IEC 60079-0:2017 IEC 60079-1:2014 IEC 60079-31:2013 IEC 60079-7:2017
7	P**or P**N or P**NR or P**B or P**NB	Cable glands	Ex db IIC Ex eb IIC Ex ia IIC Ex nR IIC Ex tb IIIC Ex tc IIIC		Gb Gc Db Dc	-40°C to +90°C For EPDM -60°C to 180°C For SILICONE60		YES	BARTEC F.N S.r.l.	IECEx INE 11.0017X	6	IEC 60079-0:2017 IEC 60079-1:2014 IEC 60079-11:2011 IEC 60079-15:2017 IEC 60079-31:2013 IEC 60079-7:2017
8	PX**	Type Cable Glands	Ex eb I Mb Ex db I Mb* Ex eb IIC Ex db IIC		Gb	-60°C to +85°C		YES	CMP Products Limited	IECEx CML 18.0182X	1	IEC 60079-0:2017 IEC 60079-1:2014 IEC 60079-15:2017 IEC 60079-31:2013 IEC 60079-7:2017
9	RE-REB-REM-REN-LBH-LBY-NP-EM-PLG-ELF-ELM-ELMF	Fittings and accessories for enclosure	Ex db IIC Ex be IIC Ex tb IIIC		Gb Db	-60°C To 130°C		YES	BARTEC F.N S.r.l.	IECEx INE 16.0014X	2	IEC 60079-0:2011 IEC 60079-1.2014 IEC 60079-1:2007 IEC 60079-31:2013 IEC 60079-7:2015
10	AC/AB…r… DC/HC…R…	Three-phase and single phase motors, brake motors supplied by mains or inverter	Ex db IIC/IIB T6…T3 or Ex db eb IIC/IIB T6…T3 or Ex tb/tc IIIC/IIIB T85°C…T150°C Ex db I Mb or Ex db eb I Mb (only for size 315L)	T6…T3	Gb Db	-50°C to +40°C/+50°C/+60°C Only for sizes 63-315 group IIB, IIC or IIIC. -55°C to +40°C/+50°C/+60°C only for size 315L group IIC or IIIC -55°C to +40°C/+50°C/+60°C IIC or IIIC only for size 315L group I -50°C to +80°C only for gas group IIC or IIB. -35°C to +60°C only for single phase motor group IIB, IIC or IIIC. -50°C to +40°C/+50°C/+60°C group IIC or IIB	See table below	YES	CEMP srl	IECEx EXA 16.0006X	2	IEC 60079-0:2017 IEC 60079-1:2014 IEC 60079-31.2022 IEC 60079-7:2017

Item type	Part number	Description (certificate)	Type of protection	Temperature class	EPL	Ambient temperature range	Ratings	Specific Conditions of Use	Manufacturer	CoC number	Issue	Standards
11	T3** and TE*	Cable glands	Ex db I Mb Ex eb I Mb Ex db IIC Gb Ex eb IIC Gb Ex nR IIC Gc Ex ta IIIC Da		Gb Gc Da	Ta= -60°C to +130°C (standard seal) / -20°C to +200°C (high temperature seal)		YES	Ta= -60°C to +130°C (standard seal) / -20°C to +200°C (high temperature seal)	IECEx CML 18.0183X	1	IEC 60079-0:2017 IEC 60079-1:2014 IEC 60079-15:2017 IEC 60079-31:2013 IEC 60079-7:2017 (Ed.5.1) IEC 60079-7:2015 (Ed.5.0)

T.amb and Gas group Assembly configurations:

SI3/SI4 Manifold configuration 1 (Tamb range)				
Tmin [°C]	**Tmax [°C]**	**GAS GROUP**	**BTST**	**MOTOR BRAND, CERT. N°**
-40	+70	IIB/IIC	NOT PRESENT	NOT PRESENT
-30	+50	IIB/IIC	PRESENT	NOT PRESENT
-20	+60	IIB	NOT PRESENT	ELNOR, IECEx BAS 15.0068X
-20	+50	IIB	PRESENT	ELNOR, IECEx BAS 15.0068X
-40	+70	IIB/IIC	NOT PRESENT	CEMP, IECEx_EXA_16.0006X, IECEx FIDI 20.0001X
-30	+50	IIB/IIC	PRESENT	CEMP, IECEx_EXA_16.0006X, IECEx FIDI 20.0001X

SI4 Manifold configuration 2 (Tamb range)				
Tmin [°C]	**Tmax [°C]**	**GAS GROUP**	**BTST**	**MOTOR BRAND, CERT. N°**
-40	+70	IIB	NOT PRESENT	NOT PRESENT
-20	+70	IIC	NOT PRESENT	NOT PRESENT
-30	+50	IIB	PRESENT	NOT PRESENT
-20	+50	IIC	PRESENT	NOT PRESENT
-20	+60	IIB	NOT PRESENT	ELNOR, IECEx BAS 15.0068X
-20	+50	IIB	PRESENT	ELNOR, IECEx BAS 15.0068X

-40	+70	IIB	NOT PRESENT	CEMP, IECEx_EXA_16.0006X, IECEx FIDI 20.0001X
-20	+70	IIC	NOT PRESENT	CEMP, IECEx_EXA_16.0006X, IECEx FIDI 20.0001X
-30	+50	IIB	PRESENT	CEMP, IECEx_EXA_16.0006X, IECEx FIDI 20.0001X
-20	+50	IIC	PRESENT	CEMP, IECEx_EXA_16.0006X, IECEx FIDI 20.0001X

Assembly Electrical data:

SI3/SI4 with integrated motor (electrical supply rating)			
SUPP. TYPE [V]	**PHASE**	**FREQ. [Hz]**	**MAX POWER [kW]**
24 DC	-	-	0,29
110-120 AC	SINGLE	60	1,34
230 AC	SINGLE	50	0,97
230 AC	SINGLE	60	1,25
380-440 AC	THREE	50/60	1,66
480-575 AC	THREE	60	1,66

SI3/SI4 with optional third party motor (electrical supply rating)					
SUPP. TYPE [V]	**PHASE**	**FREQ. [Hz]**	**MAX POWER [kW]**	**BRAND**	**IECEx CERT. N°**
24 DC	-	-	0,4	ELNOR	IECEx BAS 15.0068X
110 AC	SINGLE	60	1,5	CEMP	IECEx_EXA_16.0006X
120 AC					
230 AC	SINGLE	50-60	3		
380 AC	THREE	50-60	4	CEMP	IECEx_EXA_16.0006X, IECEx FIDI 20.0001X
400 AC					
415 AC					
440 AC					
480 AC	THREE	60			
575 AC			3		