

## **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 EPS 24.0085X** Page 1 of 4 Certificate history:

Issue No: 0 Status: Current

Date of Issue: 2024-10-07

Applicant: Rotork Fluid SystemsS.r.l.

Via Padre Jacques Hamel 138 B

Porcari (LU) 55016

Italy

Equipment: Range of Pneumatic and Hydraulic Actuators (see Annex for details)

Optional accessory:

Type of Protection: Non-electrical "h"

Marking: Ex h IIC T5 Gb

Ex h IIIC T100°C Db

Ambient temperature range\*:

-20 °C ≤  $T_{amb}$  ≤ +100 °C

-30 °C ≤  $T_{amb}$  ≤ +100 °C

-40 °C ≤  $T_{amb}$  ≤ +100 °C

\*Note: The ambient range applied depends on the non-electrical installed parts.

Approved for issue on behalf of the IECEx **Ulrich Feike** 

Certification Body:

Position: **Head of Certification** 

Signature:

(for printed version)

(for printed version)

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  This certificate is not transferable and remains the property of the issuing body.
  The Status and authenticity of this certificate may be verified by visiting <a href="https://www.iecex.com">www.iecex.com</a> or use of this QR Code.



Certificate issued by:

**Bureau Veritas Consumer Products Services Germany GmbH Businesspark A96** 86842 Türkheim **Germany** 





## **IECEx Certificate** of Conformity

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Date of issue: 2024-10-07 Issue No: 0

Rotork Fluid SystemsS.r.l. Manufacturer:

Via Padre Jacques Hamel 138 B

Porcari (LU) 55016

Italy

Manufacturing Rotork Fluid SystemsS.r.l.

Via Padre Jacques Hamel 138 B locations:

Porcari (LU) 55016

Italy

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 Explosive atmospheres - Part 0: Equipment - General requirements

Edition:7.0

ISO 80079-36:2016 Edition:1.0

Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic methods and

requirements

ISO 80079-37:2016

Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres - Non electrical type of Edition:1.0

protection constructional safety "c", control of ignition source "b", liquid immersion "k"

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:

DE/EPS/ExTR24.0091/00

**Quality Assessment Report:** 

DE/EPS/QAR24.0009/00



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#### **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

Rotork Actuators for Quarter-Turn Valves models GP and GH, are based on the scotch yoke mechanism to transform the linear motion of the pneumatic/hydraulic cylinder piston or spring typically into a 90° rotary motion (quarter-turn). The actuators can be in double-acting or single-acting versions: the pneumatic/hydraulic cylinder and, for single-acting version, the spring can be connected to the two opposite side of the central body that houses the scotch yoke mechanism. On actuators can be installed manual and hydraulic override to allow motion in absence of fluid power.

#### SPECIFIC CONDITIONS OF USE: YES as shown below:

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.



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#### Additional information:

The ingress protection level of IP66 has been validated and certified in accordance with the requirements of IEC 60079-0. Additionally, the equipment has been independently tested in compliance with IEC 60529 and has been confirmed to meet the IP67 standard (unrelated to explosion protection type).

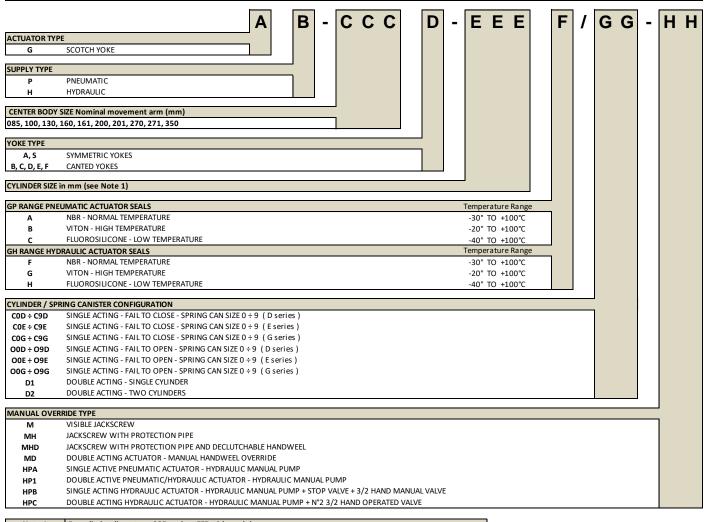
Annex:

BV\_annex to IECExEps24.0085X\_1.pdf

### Annex to Certificate IECEx EPS 24.0085X Issue No.: 0



The Product Key for ordering the Actuators provides the variants and types below.



ſ	Note 1	For cylinder diameter > 935 replace EEE with model																	
	EEE	937	938	940	942	945	960	962	965	970	972	975	980	982	987	990	992	995	997
	ø Cylinder	985	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800