



# 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](http://www.iecex.com)

Certificate No.: **IECEX DNV 21.0039X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2022-02-10

Applicant: **Rotork Sweden AB**  
Kontrollvägen 15  
Falun SE-791 45  
Sweden

Equipment: **RC Pneumatic & Hydraulic Actuator**

Optional accessory:

Type of Protection: **Ex h (Constructional safety protection)**

Marking: Ex h IIC T6-T3 Gb  
Ex h IIIC T85°C-T175°C Db  
For various T ambinet see page 3.

Approved for issue on behalf of the IECEx  
Certification Body:

**Bjørn Spongsveen**

Position:

**Certification Manager**

Signature:  
(for printed version)

2022-02-11

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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**DNV Product Assurance AS**  
Veritasveien 3  
1363 Hovik .  
Norway





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Date of issue: 2022-02-10

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Manufacturer: **Rotork Sweden AB**  
Kontrollvägen 15  
Falun SE-791 45  
Sweden

Additional  
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](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[ISO 80079-36:2016](#) Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic methods and requirements  
Edition:1.0

[ISO 80079-37:2016](#) Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres - Non electrical type of protection constructional safety "c", control of ignition source "b", liquid immersion "k"  
Edition:1.0

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:

[NO/DNV/ExTR21.0035/00](#)

Quality Assessment Report:

[NO/NEM/QAR16.0001/04](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Rotork Fluid Systems RC200 pneumatic actuator features a modern scotch-yoke mechanism that provides high start- and end-torque output in a very compact package for operation of all types of valves. It is available in both double-acting and spring-return configurations with an optional integral manual override. Spring-return actuators feature springs that are safely contained within an epoxy-coated cartridge. Pistons are guided in two places by high-performance bearings which ensure proper alignment and long seal life.

RC actuators are permanently lubricated, and additional lubrication is normally not required. However, during frequent operation and heavy load it's recommended to use oil mist lubrication or regrease once every year / or 100 000 cycles whatever appears first. For oil mist lubrication, mineral oil type ISO VG32 according to DIN 51524HLP recommended.

Hydraulic RC actuators construction are same as Pneumatic actuators construction with same components but equipped with venting nipples on the actuator. The venting nipples may be placed in different positions depending on actuator mounting orientation.

## Type designation

RC 200 series (210 – 280) & RC 88

## Ambient temperature & Tclass:

The Ex marking and Tclass varies with respect to different ambient temperature as specified under the below tabulation.

Standard Temperature -20°C to +75°C		Standard Temperature Viton -15°C to +75°C		High Temperature 0°C to +150°C		Low Temperature -40°C to +55°C		Low Temperature Arctic -47°C to +55°C	
T amb (°C)	T class	T amb (°C)	T class	T amb (°C)	T class	T amb (°C)	T class	T amb (°C)	T class
55	T6	55	T6	55	T6	55	T6	55	T6
75	T5	75	T5	70	T5				
				105	T4				
				150	T3				

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

1. The actuator can be equipped with Filter plug with IP 6X screwed to the actuator.
2. The actuator shall not have any dust layers during its normal operation and expected malfunction.
3. Avoid impact or Friction in the equipment parts containing light metals.
4. Prevent electrostatic charges in potentially explosive areas – do not polish/rub nonconductive surfaces with a dry cloth
5. The operating medium is air for the pneumatic actuator which shall be dust and oil-free
6. Equipment temperature class depends upon the various ambient temperature specified in this certificate.

## Annex:

[ANNEX TO IECEX DNV 21.0039X.pdf](#)



## ANNEX TO IECEx DNV 21.0039X

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

### For RC Actuators

Example: **RCT210-SRMF050HP4 F05/F07 - 1**

