

[1]

# TYPE EXAMINATION CERTIFICATE

[2] Product Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

[3] Type Examination Certificate Number: **DNV 21 ATEX 94178X** **Issue 0**

[4] Product: **RC Pnuematic & Hydraulic Actuators**

[5] Manufacturer: **Rotork Sweden AB**

[6] Address: **Kontrollvägen 15  
Falun SE-791 45  
Sweden**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] DNV Product Assurance AS certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential reports listed in item 16.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN IEC 60079-0:2018, ISO 80079-36:2016 and ISO 80079-37:2016**

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

[11] This TYPE EXAMINATION CERTIFICATE relates only to the design of the specified equipment and not to specific items of equipment subsequently manufactured

[12] The marking of the product shall include the following:



**II 2 G**

**Ex h IIC T6-T3 Gb**

**II 2 D**

**Ex h IIIC T85°C- T175°C Db (See page 2 for Tambinet)**

Date of issue:  
2022-02-11

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Bjørn Spongsveen  
For DNV Product Assurance AS  
The Certificate has been digitally signed.  
See [www.dnv.com/digitalsignatures](http://www.dnv.com/digitalsignatures) for info



[13] **Schedule**

[14] **Type Examination Certificate No:** DNV 21 ATEX 94178X Issue 0

[15] **Description of Product**

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				

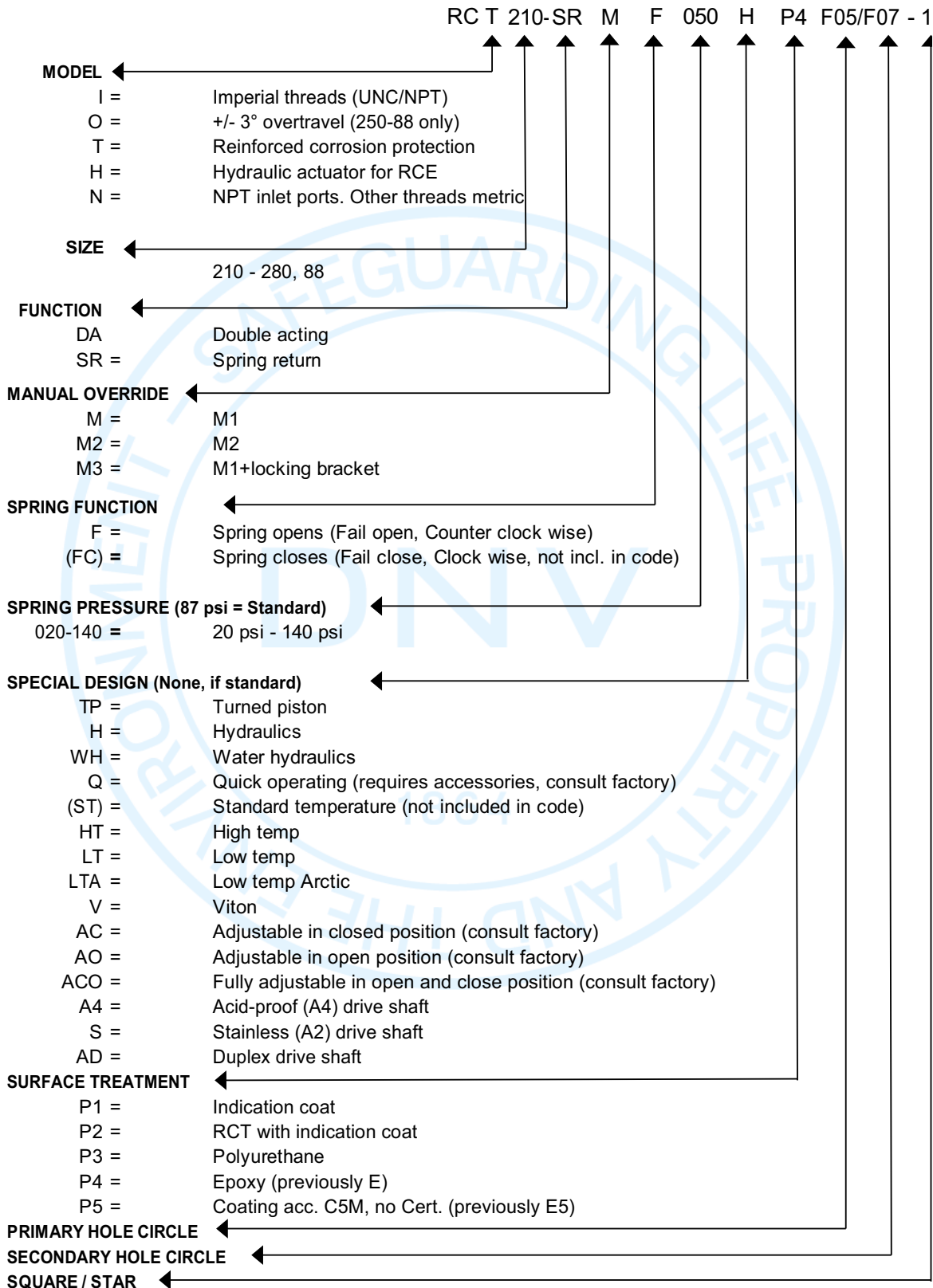
**Routine tests**

None.

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

## For RC Actuators

Example: **RCT210-SRMF050HP4 F05/F07-14**



[16] **Report No.:** 256381

[17] **Specific Conditions of Use**

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.

[18] **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

[19] **Drawings and documents**

Number	Title	Sheets	Rev.	Date
021186	Actuator Label	1	A	2022-02-03
021228	RC210-240 General drawing with technical information	5	A	2022-02-08
021237	RC250-280 General drawing with technical information	5	A	2022-02-08
021238	RC265 General drawing with technical information	5	A	2022-02-08
021246	RC88 General drawing with technical information	4	A	2022-02-08
Dok-000152	Product key for RC Actuators	1	A	2022-01-28
Dok-000156	Piston/ cylinder clearances	2	A	2022-02-04

[20] **Certificate History**

Issue	Description	Issue date	Report no.
0	Original issue	2022-02-11	256381

END OF CERTIFICATE