



**Certificate no. TAI-FS-C-24-0062**

WE HEREBY CERTIFY THAT

**Product description** PNEUMATIC COMPACT SCOTCH-YOKE SPRING RETURN AND DOUBLE ACTING ACTUATOR

**Models** SERIES CP/S, CP/D

**Manufacturer** ROTORK CONTROLS (INDIA) PVT., LTD.  
RFS DIVISION  
23/3, Thiruvallur High Road  
Thirumazhisai, Chennai, Tamil Nadu 600124  
India

IS IN COMPLIANCE WITH THE REQUIREMENTS OF THE STANDARDS

**IEC 61508 Parts 1–7:2010**

AS RESULT OF THE ASSESSMENT ACCORDING TO THE PROVISION SET OUT IN THE ABOVE-MENTIONED STANDARDS

**Summary Report no. TAI-FS-R-24-0123**

**Expiry date** 13.06.2027

**Issue date** 10.07.2024

TUV AUSTRIA ITALIA  
10.07.2024, Monte Roberto (AN)

Ing. Crescenzo Di Fratta

**TUV AUSTRIA ITALIA S.p.A.**  
Via del Commercio, 6/A 60030 Monte Roberto (AN)  
+39 0731 22781 - info@tuvaustraliaitalia.com - tuvaustraliaitalia@pec.it  
C.F./P. IVA IT01055750333 - Cap. Soc. i.v. € 400.000,00 - REA AN n. 211030  
Società a socio unico, soggetta a controllo e coordinamento di:  
TÜV AUSTRIA HOLDING AG Deutschstrasse 10, A-1230, Vienna, Austria  
www.tuvaustraliaitalia.com

## Annex to certificate no. TAI-FS-C-24-0062

<b>Type</b>	A
<b>HFT</b>	0
<b>Safety functions</b>	<p><u>Spring return actuators:</u></p> <p>1. Delivery of a full stroke (<math>90^\circ \pm</math> tolerance) driven by the spring, with power fluid exhausted from the cylinder through the control system</p> <p><u>Double acting actuators:</u></p> <p>1. Delivery of a full stroke (<math>90^\circ \pm</math> tolerance) driven by the piston of cylinder, powered by the specified medium working pressure</p>
<b>Mode of operation</b>	Low Demand Mode

Random failure rates				
Configuration	Safety function	$\lambda_{DU}$ [1/h]	$\lambda_{DD}$ [1/h]	$\lambda_S$ [1/h]
Series CP/S - No PST	1	2,48E-08	0,00E+00	0,00E+00
Series CP/S - With PST	1	2,23E-09	2,25E-08	0,00E+00
Series CP/D - No PST	1	2,30E-08	0,00E+00	0,00E+00
Series CP/D - With PST	1	2,07E-09	2,10E-08	0,00E+00


<b>Systematic capability</b>	3 (Route 1s applied)			
<b>Architectural constraints</b>	<b>Route 1<sub>H</sub>:</b>	Applied	<b>Route 2<sub>H</sub>:</b>	Applied
	<p>The product can be used in:</p> <ul style="list-style-type: none"> <li>• single channel configuration: <ul style="list-style-type: none"> <li>○ up to SIL 2 without external diagnostic tests</li> <li>○ up to SIL 3 considering external diagnostic tests</li> </ul> </li> <li>• double channel configuration: up to SIL 3</li> </ul>			

**Remarks:**

- For further details, including environmental conditions, limitations of use, lifetime, failure rates traceability, mean repair times, common cause factors and systematic capability constraints, make reference to Safety Manual SM-CP-A-02-E

END OF CERTIFICATE

TUV AUSTRIA ITALIA  
10.07.2024, Monte Roberto (AN)

  
 Ing. Crescenzo Di Fratta

**TUV AUSTRIA ITALIA S.p.A.**  
 Via del Commercio, 6/A 60030 Monte Roberto (AN)  
 +39 0731 22781 - info@tuvaustraiitalia.com - tuvaustraiitalia@pec.it  
 C.F./P. IVA IT01055750333 - Cap. Soc. i.v. € 400.000,00 - REA AN n. 211030  
 Società a socio unico, soggetta a controllo e coordinamento di:  
 TÜV AUSTRIA HOLDING AG Deutschstrasse 10, A-1230, Vienna, Austria  
 www.tuvaustraiitalia.com