

CERTIFICATE ■ CERTIFICATO ■ ZERTIFIKAT ■ SERTIFIKA ■ CERTIFICADO ■ گواهینامه ■ ΠΙΣΤΟΠΟΙΗΤΙΚΟ ■ شهادة ■ 証明書 ■ 인증서



# C E R T I F I C A T E

**Certificate no. 16-SIL-0010018-28-TIC**

WE HEREBY CERTIFY THAT

**Product description**

**PNEUMATIC RACK AND PINION DOUBLE ACTING ACTUATORS**

**Models**

**SERIES RP/D**

**Manufacturer**

**ROTORK FLUID SYSTEMS S.r.l.**

**Via Padre Jacques Hamel 138/B - 55016 Porcari LU**

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. RC-0519-527-SIL-TIC-PC-0010018-16-22**

**Expiry date**

**20.05.2022**

**Note**

This certificate is issued upon the request of the manufacturer as voluntary certification; it does not include the production surveillance.

This certificate does not allow the manufacturer to use the safety mark of TÜV INTERCERT.

Reggio Emilia, 21.05.2019



  
Dipl. Ing. Ferdinando Sergizzarea  
TÜV INTERCERT Certification Body

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# C E R T I F I C A T E

## ANNEX to Certificate no. 16-SIL-0010018-28-TIC

Type	A
HFT	0
Safety functions	1. Delivery of a full stroke ( $\pm$ tolerance) driven by the piston of cylinder, powered by the specified medium working pressure
Mode of operation	Low Demand Mode

Random failure rates				
Configuration	Safety function	$\lambda_{DU}$ [1/h]	$\lambda_{DD}$ [1/h]	$\lambda_S$ [1/h]
RP/D - No PST	1	5,58E-08	0,00E+00	0,00E+00
RP/D - With PST	1	5,02E-09	5,08E-08	0,00E+00

Systematic capability	3 (Route 1 <sub>s</sub> applied)			
Architectural constraints	Route 1 <sub>H</sub> :	Applied	Route 2 <sub>H</sub> :	Applied
	The product can be used in: <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-RP-A-01-E.

END OF CERTIFICATE

Reggio Emilia, 21.05.2019

  
Dipl. Ing. Feridoon Sergizzarea  
TÜV INTERCERT Certification Body