



C E R T I F I C A T E

Certificate no. 16-SIL-0010018-30-TIC

WE HEREBY CERTIFY THAT

Product description

HYDRAULIC RACK AND PINION DOUBLE ACTING ACTUATORS

Models

SERIES RH/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-0010018-16-26

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. Feridoon Sergizzarea

TÜV INTERCERT Certification Body



C E R T I F I C A T E

ANNEX to Certificate no. 16-SIL-0010018-30-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 | λ_{DU} [1/h] | λ_{DD} [1/h] | λ_S [1/h] |
| RH/D - No PST | 1 | 5,60E-08 | 0,00E+00 | 0,00E+00 |
| RH/D - With PST | 1 | 5,04E-09 | 5,10E-08 | 0,00E+00 |

| | | | | |
|---------------------------|--|---------|------------------------|---------|
| Systematic capability | 3 (Route 1 _S applied) | | | |
| Architectural constraints | Route 1 _H : | Applied | Route 2 _H : | Applied |
| | The product can be used in: <ul style="list-style-type: none">single channel configuration:<ul style="list-style-type: none">up to SIL 2 without external diagnostic testsup to SIL 3 considering external diagnostic testsdouble channel configuration: up to SIL 3 | | | |

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-RH-A-01-E.

END OF CERTIFICATE

Reggio Emilia, 21.05.2019


Dipl. Ing. Feridoon Sergizzarea
TÜV INTERCERT Certification Body