



Certificate no. TAI-FS-C-20-0036

WE HEREBY CERTIFY THAT

Product description PNEUMATIC QUICK EXHAUST VALVE

Models SERIES QEVX

Manufacturer ROTORK FLUID SYSTEMS S.r.l.
Via Padre Jacques Hamel 138/B
I-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. TAI-FS-R-20-0069

Expiry date 03.11.2023

Issue date 04.11.2020

04.11.2020, Monte Roberto (AN)

Ing. Crescenzo Di Fratta

Annex to certificate no. TAI-FS-C-20-0036

Type	A
HFT	0
Safety functions	1. De-energize-to-trip operation: to discharge a chamber of a pneumatic actuator
Mode of operation	Low Demand Mode

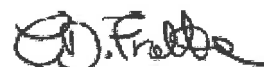
Random failure rates				
Configuration	Safety function	λ_{DU} [1/h]	λ_{DD} [1/h]	λ_S [1/h]
QEXV size ½", 1" - No PST	1	1,22E-08	0,00E+00	2,34E-07
QEXV size ½", 1" - With PST	1	1,22E-10	1,20E-08	2,34E-07
QEXV size 2" - No PST	1	1,93E-08	0,00E+00	2,71E-07
QEXV size 2" - With PST	1	1,93E-10	1,91E-08	2,71E-07

Systematic capability	3 (Route 1s applied)			
Architectural constraints	Route 1_H:	Applied	Route 2_H:	Applied
The product can be used in single 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-QEV-A-00-E.

END OF CERTIFICATE



Ing. Crescenzo Di Fratta

04.11.2020, Monte Roberto (AN)