

# CERTIFICATE

Registered No.:  
**CER-IND 1102822307005001**

Date of expired  
21 November 2026

Assessment report No.  
CR-IND 1102822307005001

Date of issue  
22 November 2023

Revision:  
0

This is to certify that the following company comply with the relevant requirements of mentioned safety standards:

- Applicant:** **Vtork Technology (Wuxi) Co., Ltd.**  
No. 55 Lianhe Road, Hudai Industrial Part, Binhu District,  
Wuxi, Jiangsu Province, P.R. China
- Product:** VTS01, VTS02, VTS03, VTS04, VTS1, VTS2, VTS3, VTS4, VTS5, VTS6, VTS7 &  
VTS8 Series **Scotch Yoke type Spring Return Acting Actuators**
- Scope:** IEC 61508: 2010, (Part 1~7)  
SIL 2 (with HFT=0) , SIL3 (with HFT≥1)  
Open or Close on demand
- Remark:** PFD<sub>avg</sub> and Architecture Constraints must be verified for each application.  
The unit must be properly integrated into a Safety instrumented function per the requirements in Safety Manual.

  
Mr. Jeffery Fan  
Name and Signature

  
Issued at Shanghai  
Place, Stamp



# APPENDIX

## of certificate No.: CER-IND 1102822307005001

Page 1 of 1

Date of expired  
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<b>Product:</b>	VTS01, VTS02, VTS03, VTS04, VTS1, VTS2, VTS3, VTS4, VTS5, VTS6, VTS7 & VTS8 Series <b>Scotch Yoke type Spring Return Acting Actuators</b>	
<b>Specific of product:</b>	Type:	Type A Element
	Route:	2H
	DC: (Diagnostic Coverage)	0 %
	$\lambda_d$ (Dangerous Failure Rate)	9.91E-08
	$\lambda_{du}$ (Dangerous Undetected Failure Rate)	9.91E-08
	$\lambda_{dd}$ (Dangerous Detected Failure Rate)	0.00E+00
	Proof test intervals:	8760 Hours (12 Months)
	MTTR: (Mean Time to Repair)	24 Hours
	$\beta$ : (Fraction of Common Cause)	10%
	PFD <sub>avg</sub> @ 1oo1: (Probability of Failure)	4.37E-04
	PFD <sub>avg</sub> @ 1oo2: (Probability of Failure)	4.41E-05

# CERTIFICATE

Registered No.:  
**CER-IND 1102822307005002**

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Assessment report No.  
CR-IND 1102822307005001

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22 November 2023

Revision:  
0

This is to certify that the following company comply with the relevant requirements of mentioned safety standards:

- Applicant:** **Vtork Technology (Wuxi) Co., Ltd.**  
No. 55 Lianhe Road, Hudai Industrial Part, Binhu District,  
Wuxi, Jiangsu Province, P.R. China
- Product:** VTS01, VTS02, VTS03, VTS04, VTS1, VTS2, VTS3, VTS4, VTS5, VTS6, VTS7  
& VTS8 Series **Scotch Yoke type Double Acting Actuators**
- Scope:** IEC 61508: 2010, (Part 1~7)  
SIL 2 (with HFT=0) , SIL3 (with HFT≥1)  
Open or Close on demand
- Remark:** PFD<sub>avg</sub> and Architecture Constraints must be verified for each application.  
The unit must be properly integrated into a Safety instrumented function per the requirements in Safety Manual.

  
Mr. Jeffery Fan  
Name and Signature

  
Issued at Shanghai  
Place, Stamp



# APPENDIX

## of certificate No.: CER-IND 1102822307005002

Page 1 of 1

Date of expired  
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CR-IND 1102822307005001

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22 November 2023

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<b>Product:</b>	VTS01, VTS02, VTS03, VTS04, VTS1, VTS2, VTS3, VTS4, VTS5, VTS6, VTS7 & VTS8 Series <b>Scotch Yoke type Double Acting Actuators</b>	
<b>Specific of product:</b>	Type:	Type A Element
	Route:	2H
	DC: (Diagnostic Coverage)	0 %
	$\lambda_d$ (Dangerous Failure Rate)	6.77E-08
	$\lambda_{du}$ (Dangerous Undetected Failure Rate)	6.77E-08
	$\lambda_{dd}$ (Dangerous Detected Failure Rate)	0.00E+00
	Proof test intervals:	8760 Hours (12 Months)
	MTTR: (Mean Time to Repair)	24 Hours
	$\beta$ : (Fraction of Common Cause)	10%
	PFD <sub>avg</sub> @ 1oo1: (Probability of Failure)	2.98E-04
PFD <sub>avg</sub> @ 1oo2: (Probability of Failure)	3.00E-05	