

Certificate no.

18-SIL-0010037-02-TIC

WE HEREBY CERTIFY THAT

Product description BOLTED TOP ENTRY TRUNNION MOUNTED BALL VALVES

Models

Series TE

**ALTIFORT FCT** 

Manufacturer

2 rue Sabanel – 81160 Saint Juéry

France



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-0419-SIL-TIC-PC-0010037-18-04

Expiry date

25.04.2022

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, 26.04.2019

TÜ√INTERCERT Certification Body



## CERTIFICATE

## ANNEX to Certificate no. 18-SIL-0010037-02-TIC

Type	4	_				
HFT	0					
	<ol> <li>Close / Open upon the demand of the actuation system</li> <li>Close upon the demand of the actuation system, with inline tightness when in closed position</li> </ol>					
Mode of operation	Low Demand Mode					
Random failure rates						
Configuration		Safety function	λ <sub>DU</sub> [1/h]	λ <sub>DD</sub> [1/h]		λ <sub>S</sub> [1/h]
Self-relieving - No PST		1	7,98E-08	0,00E+00		0,00E+00
Self-relieving - With PST		1	7,18E-09	7,26E-08		0,00E+00
Self-relieving - No PST		2	9,52E-08	0,00E+00		0,00E+00
Self-relieving - With PST		2	2,26E-08	7,26E-08		0,00E+00
Double piston effect - No PST		1	7,98E-08	0,00E+00		0,00E+00
Double piston effect - With PST		1	7,18E-09	7,26E-08		0,00E+00
Double piston effect - No PST		2	8,49E-08	0,00E+00		0,00E+00
Double piston effect - With PST		2	1,23E-08	7,26E-08		0,00E+00
Systematic capability	3 (Route 1 <sub>S</sub> applied)					
	Route 1 <sub>H</sub> :	Applied	Route 2 <sub>H</sub> : Applie		ed	
Architectural constraints	The product can be used in: <ul> <li>single channel configuration:</li> <li>up to SIL 2 without external diagnostic tests</li> <li>up to SIL 3 considering external diagnostic tests</li> <li>double channel configuration: up to SIL 3</li> </ul>					

END OF CERTIFICATE

Manual R-DT-SIL-F.

Self-relieving configuration: both upstream and downstream seats shall be

Double piston effect configuration: at least downstream seat shall be of

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

of self-relieving type (i.e. single barrier in the flow direction)

double piston effect type (i.e. double barrier in the flow direction)

Reggio Emilia, 26.04.2019

Remarks:

Dipl Ing Peridoon Sergizzarea

TÜV INTERCERT Certification Body