



C E R T I F I C A T E

Certificate no. 18-SIL-0010037-01-TIC

WE HEREBY CERTIFY THAT

Product description

BOLTED SIDE ENTRY TRUNNION MOUNTED BALL VALVES

Models

Series DB, HPA, HRA

Manufacturer

ALTIFORT FCT

**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-0010037-18-02**

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

Dipl. Ing. Feridoon Sergizzarea
TÜV INTERCERT Certification Body



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ANNEX to Certificate no. 18-SIL-0010037-01-TIC

Type	A			
HFT	0			
Safety functions	<ol style="list-style-type: none"> 1. Close / Open upon the demand of the actuation system 2. Close upon the demand of the actuation system, with inline tightness when in closed position 			
Mode of operation	Low Demand Mode			
Random failure rates				
Configuration	Safety function	λ_{DU} [1/h]	λ_{DD} [1/h]	λ_S [1/h]
Self-relieving - No PST	1	7,43E-08	0,00E+00	0,00E+00
Self-relieving - With PST	1	6,69E-09	6,77E-08	0,00E+00
Self-relieving - No PST	2	9,53E-08	0,00E+00	0,00E+00
Self-relieving - With PST	2	2,76E-08	6,77E-08	0,00E+00
Double piston effect - No PST	1	7,43E-08	0,00E+00	0,00E+00
Double piston effect - With PST	1	6,69E-09	6,77E-08	0,00E+00
Double piston effect - No PST	2	8,55E-08	0,00E+00	0,00E+00
Double piston effect - With PST	2	1,78E-08	6,77E-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 tests ○ up to SIL 3 considering external diagnostic tests • double channel configuration: up to SIL 3 			
Remarks:	<ul style="list-style-type: none"> • Self-relieving configuration: both upstream and downstream seats shall be of self-relieving type (i.e. single barrier in the flow direction) • Double piston effect configuration: at least downstream seat shall be of double piston effect type (i.e. double barrier in the flow direction) • 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 R-DT-SIL-F. 			

END OF CERTIFICATE

Reggio Emilia, 26.04.2019


 Dipl. Ing. Ferdoun Sergizzarea
 TÜV INTERCERT Certification Body

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