



C E R T I F I C A T E

Certificate no. 17-SIL-0010015-07-TIC

WE HEREBY CERTIFY THAT

Product description HIGH PRESSURE AUTOMATED FLOATING BALL VALVES

Models SERIES HERCULES

Manufacturer OMAL S.p.A.
Via Ponte Nuovo 11 – 25050 Rodengo Saiano BS

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-0618-SIL-TIC-PC-0010015-17-02

Expiry date 04.07.2021

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, 05.07.2018



Dipl. Ing. Feridoon Sergizzarea

TÜV INTERCERT Certification Body



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ANNEX to Certificate no. 17-SIL-0010015-07-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]
Floating - No PST	1	5,68E-08	0,00E+00	0,00E+00
Floating - With PST	1	5,11E-09	5,17E-08	0,00E+00
Floating - No PST	2	6,52E-08	0,00E+00	0,00E+00
Floating - With PST	2	1,35E-08	5,17E-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:**
- 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 SMA201801.

END OF CERTIFICATE

Reggio Emilia, 05.07.2018


 Dipl. Ing. Feridoon Sergizzarea
 TÜV INTERCERT Certification Body