

Certificate no.

17-SIL-0010063-07-TIC

WE HEREBY CERTIFY THAT

Product description FLOATING BALL VALVES

Models Series FL

RMT VALVOMECCANICA S.r.I.

Via dei Patrioti - 21058 Solbiate Olona VA

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-1119-SIL-TIC-PC-0010063-19-08

Expiry date 12.11.2022

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.



Ing Feridoon Sergizzarea

TÜV INTERCERT Certification Body

Page 1 of 2

Reggio Emilia, 13.11.2019

Note



ANNEX to Certificate no. 17-SIL-0010063-07-TIC

Type	A
HFT	0
Safety functions	 Close / Open upon the demand of the actuation system 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	3,28E-08	0,00E+00	0,00E+00	
Floating - With PST	1	2,95E-09	2,99E-08	0,00E+00	
Floating - No PST	2	4,03E-08	0,00E+00	0,00E+00	
Floating - With PST	2	1,04E-08	2,99E-08	0,00E+00	

Туре	A				
HFT	0				
Safety functions	Close upon	en upon the dema the demand of the sed position			ne tightnes
Mode of operation	Low Demand M	lode			
	D.	andom failure ra	toe		
Configuration	N.C.	Safety function	λ _{DU} [1/h]	λ _{DD} [1/h]	λ _s [1/h]
Floating - No PST		1	3,28E-08	0,00E+00	0,00E+00
Floating - With PST		1	2,95E-09	2,99E-08	0,00E+00
Floating - No PST		2	4,03E-08	0,00E+00	0,00E+00
Floating - With PST		2	1,04E-08	2,99E-08	0,00E+0
Systematic capability	3 (Route 1 _s a	pplied)			
Architectural constraints	single cha up to S up to S	Applied can be used in: annel configuration of the	rnal diagnostic external diagno	tests	ed
Remarks:	use, lifetin cause fac	r details, includin ne, failure rates t tors and systema to Safety Manua	raceability, me tic capability c	an repair time	s, common
		(,			
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17-SIL-0010063-04-TIC

WE HEREBY CERTIFY THAT

Product description

BOLTED SIDE ENTRY TRUNNION MOUNTED BALL

VALVES

Models

Series SE, V-CUT

Manufacturer

RMT VALVOMECCANICA S.r.I.

Via dei Patrioti – 21058 Solbiate Olona VA

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-1119-SIL-TIC-PC-0010063-17-02

Expiry date

12.11.2022

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.



eridoon Sergizzarea

Reggio Emilia, 13.11.2019

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		NTER CERT			
CER	T	l F	C	A	T E
ANNEX	to Certific	ate no. 17-S	IL-001006	3-04-TIC	
Type	A				
HFT	0				
122 500 S. 12U 500 1		n upon the dema the demand of th sed position			ine tightnes
Mode of operation	Low Demand M				
	Ra	ndom failure ra	tes		
Configuration		function	λ _{DU} [1/h]	λ _{DD} [1/h]	λ _S [1/h]
Self-relieving - No PST		1	2,86E-08	0,00E+00	0,00E+0
Self-relieving - With PST		1	2,57E-09	2,60E-08	0,00E+0
Self-relieving - No PST		2	4,05E-08	0,00E+00	0,00E+0
Self-relieving - With PST		2	1,45E-08	2,60E-08	0,00E+0
Double piston effect - No	PST	1	2,86E-08	0,00E+00	0,00E+0
Double piston effect - Wit	h PST	1	2,57E-09	2,60E-08	0,00E+0
Double piston effect - No		2	3,55E-08	0,00E+00	0,00E+0
Double piston effect - Wit	h PST	2	9,49E-09	2,60E-08	0,00E+0
Systematic capability	3 (Route 1 _S a	pplied)			
	Route 1 _H :	Applied	Route 2	H: Applie	ed
Architectural constraints Remarks:	single cha up to S up to S up to S double cha Self-relievir	an be used in: nnel configuratio IL 2 without exter IL 3 considering annel configuration g configuration: be ving type (i.e. single	rnal diagnostic external diagno on: up to SIL 3 oth upstream an e barrier in the f	d downstream low direction)	
	double pistFor further lifetime, fa	ton effect configured on effect type (i.e. details, including ilure rates traceal systematic capal-SE.	double barrier in environmental c bility, mean re	the flow direct conditions, limit pair times, co	ion) tations of us ommon cau
*	EN	D OF CERTIFICA	ATE		•
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17-SIL-0010063-05-TIC

WE HEREBY CERTIFY THAT

Product description

BOLTED TOP ENTRY TRUNNION MOUNTED BALL VALVES

Models

Series TE

Manufacturer

RMT VALVOMECCANICA S.r.I.

Via dei Patrioti - 21058 Solbiate Olona VA

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-1119-SIL-TIC-PC-0010063-19-04

Expiry date

12.11.2022

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.



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Reggio Emilia, 13.11.2019

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Page 1 of 2

ANNEX to Certificate no. 17-SIL-0010063-05-TIC

Туре	A
HFT	0
Safety functions	 Close / Open upon the demand of the actuation system 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	2,97E-08	0,00E+00	0,00E+00		
Self-relieving - With PST	1	2,67E-09	2,70E-08	0,00E+00		
Self-relieving - No PST	2	4,34E-08	0,00E+00	0,00E+00		
Self-relieving - With PST	2	1,63E-08	2,70E-08	0,00E+00		
Double piston effect - No PST	1	2,97E-08	0,00E+00	0,00E+00		
Double piston effect - With PST	1	2,67E-09	2,70E-08	0,00E+00		
Double piston effect - No PST	2	3,46E-08	0,00E+00	0,00E+00		
Double piston effect - With PST	2	7,53E-09	2,70E-08	0,00E+00		

Systematic capability	3 (Route 1 _S applied)					
	Route 1 _H :	Applied	Route 2 _H :	Applied		
Architectural constraints	single ch up to up to		ernal diagnostic test g external diagnostic			

Remarks:

CERTIFICATE = CERTIFICATO = ZERTIFIKAT = SERTIFIKA = CERTIFICADO = ما التلامة = التلامة = نكولات = نشهلات = التلامة = التلام

- 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 SM-TE.

END OF CERTIFICATE

Reggio Emilia, 13.11.2019

Dipl. Ing Feridoon Sergizzarea
TÜV INTERCERT Certification Body

Page 2 of 2



17-SIL-0010063-06-TIC

WE HEREBY CERTIFY THAT

Product description

FULLY WELDED SIDE ENTRY TRUNNION MOUNTED BALL

VALVES

Models

Series FW

Manufacturer

RMT VALVOMECCANICA S.r.I.

Via dei Patrioti - 21058 Solbiate Olona VA

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-1119-SIL-TIC-PC-0010063-19-06

Expiry date

12.11.2022

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.



eridoon Sergizzarea

TÜV INTERCERT Certification Body

Reggio Emilia, 13.11.2019



Type	A
HFT	0
Safety functions	 Close / Open upon the demand of the actuation system Close upon the demand of the actuation system, with inline tightness when in closed position
Mode of operation	Low Demand Mode

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ANNE	X to Certifica	ate no. 17-8	1L-001006	3-06-116	
Туре	Α				
HFT	0				
Safety functions		n upon the dema the demand of the ed position			ine tightnes
Mode of operation	Low Demand Mo	ode			
	Rai	ndom failure ra	tes		
Configuration		Safety function	λ _{DU} [1/h]	λ _{DD} [1/h]	λ _s [1/h]
Self-relieving - No PST	6	1	2,91E-08	0,00E+00	0,00E+0
Self-relieving - With PS	Т	1	2,62E-09	2,65E-08	0,00E+0
Self-relieving - No PST	a	2	4,23E-08	0,00E+00	0,00E+0
Self-relieving - With PS	Т	2	1,58E-08	2,65E-08	0,00E+0
Double piston effect - N	lo PST	1	2,91E-08	0,00E+00	0,00E+0
Double piston effect - V	Vith PST	1	2,62E-09	2,65E-08	0,00E+0
Double piston effect - N	lo PST	2	3,66E-08	0,00E+00	0,00E+0
Double piston effect - V	Contract of the Contract of th	2	1,01E-08	2,65E-08	0,00E+0
Systematic capability	3 (Route 1 _S ap	plied)		V	165
	Route 1 _H :	Applied	Route 2	H: Applie	ed
Architectural constraints	The product ca single char up to SI up to SI double cha	an be used in: nnel configuratio L 2 without exter L 3 considering nnel configuration	n: rnal diagnostic external diagno on: up to SIL 3	tests ostic tests	
Remarks:	of self-reliev Double pisto double pisto For further lifetime, fail	g configuration: being type (i.e. single on effect configurent effect type (i.e. details, including lure rates tracea systematic capa FW.	e barrier in the f ation: at least of double barrier in environmental of bility, mean re	low direction) downstream se the flow direct conditions, limit pair times, co	eat shall be ion) tations of us ommon caus
Reggio Emilia, 13.11.2019	ENL	O OF CERTIFICA		eridoon Se	n

Systematic capability	3 (Route 1 _S applied)					
	Route 1 _H :	Applied	Route 2 _H :	Applied		
Architectural constraints	single ch up to up to		ernal diagnostic tests g external diagnostic			



17-SIL-0010063-01-TIC

WE HEREBY CERTIFY THAT

Product description

GLOBE CONTROL VALVES

Models

Series 22, 23

Manufacturer

RMT VALVOMECCANICA S.r.I.

Via dei Patrioti – 21058 Solbiate Olona VA

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-0418-SIL-TIC-PC-0010063-17-02

Expiry date

19.04.2021

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, 20.04.2018



Dipl. Ing. Feridoon Sergizzarea

TÜV INTERCERT Certification Body



ANNEX to Certificate no. 17-SIL-0010063-01-TIC

Туре	Α							
HFT	0							
Safety functions	 Close / Open upon the demand of the actuation system Close upon the demand of the actuation system, with inline tightness when in closed position 							
Mode of operation	Low Demand N	Low Demand Mode						
	R	andom failure ra	tes					
Configuration		Safety function	λ _{DU} [1/h]	λ _{DD} [1/h]	λ _s [1/h]			
Series 22, 23 - No PST	eries 22, 23 - No PST			0,00E+00	0,00E+00			
Series 22, 23 - With PS	Series 22, 23 - With PST			3,81E-07	0,00E+00			
Series 22, 23 - No PST		2	7,56E-07	0,00E+00	0,00E+00			
Series 22, 23 - With PS	Т	2	3,75E-07	3,81E-07	0,00E+00			
Systematic capability	3 (Route 1 _s a	applied)						
	Route 1 _H :	Applied	Route 2	H: Appli	ed			
Architectural constraints	single ch up to s up to s	The product can be used in: single channel configuration:						

Remarks:

certificate = certificato = zertifikat = sertifika = certificado = هواهينامه = دواهينامه = نيال الله عن عند المادينامة المادة = دواهينامه المادة = نيهادة = نيهادة = تعدد المادة المادة = دواهينامه = نيال الله عند المادة = نيهادة = تعدد المادة = دواهينامه = تعدد المادة = نيال الله عند المادة = تعدد = تعدد المادة = تعدد الما

 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- GLOBE.

END OF CERTIFICATE

Reggio Emilia, 20.04.2018

Dipl. Ing. Feridoon Sergizzarea

TÜV INTERCERT Certification Body

RTIFIKAT . SERTIFIKA . CERTIFICADO . aplia & .



17-SIL-0010063-02-TIC

WE HEREBY CERTIFY THAT

Product description

3-WAY GLOBE VALVES

Models

Series 70

Manufacturer

RMT VALVOMECCANICA S.r.I.

Via dei Patrioti - 21058 Solbiate Olona VA

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-0518-SIL-TIC-PC-0010063-17-04

Expiry date

06.05.2021

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, 07.05.2018



Dipl. Ing. Feridoon Sergizzarea

ANNEX to Certificate no. 17-SIL-0010063-02-TIC

Туре	A	
HFT	0 .	
Safety functions	 Close / Open upon the demand of the actuation system Close upon the demand of the actuation system, with inline tightnes when in closed position 	ss
Mode of operation	Low Demand Mode	

	Random failure ra	tes		
Configuration	Safety function	λ _{DU} [1/h]	λ _{DD} [1/h]	λ _S [1/h]
Series 70 - No PST	1	6,30E-07	0,00E+00	0,00E+00
Series 70 - With PST	1	5,73E-08	5,72E-07	0,00E+00
Series 70 - No PST	2	9,34E-07	0,00E+00	0,00E+00
Series 70 - With PST	2	3,62E-07	5,72E-07	0,00E+00

Applied	
sti	ests stic tests

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use, lifetime, failure rates traceability, mean repair times, common cause factors and systematic capability constraints, make reference to Safety Manual SM- GLOBE.

END OF CERTIFICATE

TÜV INTERCERT S.r.I. - Group of TÜV Saarland - Via Cecati I/I - 42123 Reggio Emilia ITALY

Reggio Emilia, 07.05.2018

Dipl. Ing. Feridoon Sergizzarea

TÜV INTERCERT Certification Body



Certificate no.

17-SIL-0010063-03-TIC

WE HEREBY CERTIFY THAT

Product description

PNEUMATIC DIAPHRAGM LINEAR SINGLE SPRING

ACTUATORS

Models

SERIES LPD 100

Manufacturer

RMT VALVOMECCANICA S.r.I.

Via dei Patrioti - 21058 Solbiate Olona VA

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-0518-SIL-TIC-PC-0010063-17-06

Expiry date

07.05.2021

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, 08.05.2018



Dipl. Ing. Feridoon Sergizzarea

TÜV INTERCERT Certification Body

Page 1 of 2



Туре	A
HFT	0
Safety functions	 Stem extended upon the demand of the actuation system Stem retracted upon the demand of the actuation system
Mode of operation	Low Demand Mode

	Random failure ra	tes		
Configuration	Safety function	λ _{DU} [1/h]	λ _{DD} [1/h]	λ _S [1/h]
LPD 100 - No PST	1	3,57E-08	0,00E+00	0,00E+00
LPD 100 - With PST	1	3,21E-09	3,25E-08	0,00E+00
LPD 100 - No PST	2	3,07E-08	0,00E+00	0,00E+00
LPD 100 - With PST	2	2,76E-09	2,79E-08	0,00E+00

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ANNE	X to Certifica	te no. 17-S	IL-001006	3-03-TIC		
Туре	A					
HFT	0 Stom ovtonde	ad upon the de-	and of the and	untion system		
Safety functions		ed upon the den ed upon the dem				
Mode of operation	Low Demand Mo	de				
	Ran	dom failure ra	tes			
Configuration		Safety function	λ _{DU} [1/h]	λ _{DD} [1/h]	λ _S [1/h]	
LPD 100 - No PST		1	3,57E-08	0,00E+00	0,00E+00	
LPD 100 - With PST		1	3,21E-09	3,25E-08	0,00E+00	
LPD 100 - No PST LPD 100 - With PST		2	3,07E-08 2,76E-09	0,00E+00 2,79E-08	0,00E+00	
			2,102-09	2,791-00	_ 0,00E+00	
Systematic capability	3 (Route 1 _s ap	plied)				
		Applied	Route 2	H: Applie	ed	
constraints o up to o up to double of Remarks: • For furth use, lifet cause		channel configuration: o SIL 2 without external diagnostic tests o SIL 3 considering external diagnostic tests channel configuration: up to SIL 3 ther details, including environmental conditions, limitations of etime, failure rates traceability, mean repair times, common factors and systematic capability constraints, make ice to Safety Manual SM- LPD.				
	END	OF CERTIFICA	A <i>TE</i>			
Reggio Emilia, 08.05.2018			Dipl. lı	ng. Feridoon Se	ergizzarea	