



C E R T I F I C A T E

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

WE HEREBY CERTIFY THAT

Product description FLOATING BALL VALVES

Models Series FL

Manufacturer RMT VALVOMECCANICA S.r.l.
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

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, 13.11.2019

Dip. Ing. Feridoon Sergizzarea

TÜV INTERCERT Certification Body

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C E R T I F I C A T E

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

Type	A
HFT	0
Safety functions	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	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

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 testsup to SIL 3 considering external diagnostic testsdouble 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 SM-FL.

END OF CERTIFICATE

Reggio Emilia, 13.11.2019


Dipl. Ing. Feridoon Sergizzarea
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C E R T I F I C A T E

Certificate no. 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.l.**
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.

Reggio Emilia, 13.11.2019



Dipl. Ing. Feridoon Sergizzarea
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C E R T I F I C A T E

ANNEX to Certificate no. 17-SIL-0010063-04-TIC

Type	A
HFT	0
Safety functions	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	2,86E-08	0,00E+00	0,00E+00
Self-relieving - With PST	1	2,57E-09	2,60E-08	0,00E+00
Self-relieving - No PST	2	4,05E-08	0,00E+00	0,00E+00
Self-relieving - With PST	2	1,45E-08	2,60E-08	0,00E+00
Double piston effect - No PST	1	2,86E-08	0,00E+00	0,00E+00
Double piston effect - With PST	1	2,57E-09	2,60E-08	0,00E+00
Double piston effect - No PST	2	3,55E-08	0,00E+00	0,00E+00
Double piston effect - With PST	2	9,49E-09	2,60E-08	0,00E+00

Systematic capability	3 (Route 1 _s applied)			
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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:

- 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-SE.

END OF CERTIFICATE

Reggio Emilia, 13.11.2019


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C E R T I F I C A T E

Certificate no. 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.l.
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.



Reggio Emilia, 13.11.2019


Dipl. Ing. Feridoon Sergizzarea
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C E R T I F I C A T E

ANNEX to Certificate no. 17-SIL-0010063-05-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	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)			
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:

- 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


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C E R T I F I C A T E

Certificate no. 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.l.

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.



Reggio Emilia, 13.11.2019

Dipl. Ing. Feridoon Sergizzarea

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C E R T I F I C A T E

ANNEX to Certificate no. 17-SIL-0010063-06-TIC

Type	A
HFT	0
Safety functions	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	2,91E-08	0,00E+00	0,00E+00
Self-relieving - With PST	1	2,62E-09	2,65E-08	0,00E+00
Self-relieving - No PST	2	4,23E-08	0,00E+00	0,00E+00
Self-relieving - With PST	2	1,58E-08	2,65E-08	0,00E+00
Double piston effect - No PST	1	2,91E-08	0,00E+00	0,00E+00
Double piston effect - With PST	1	2,62E-09	2,65E-08	0,00E+00
Double piston effect - No PST	2	3,66E-08	0,00E+00	0,00E+00
Double piston effect - With PST	2	1,01E-08	2,65E-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:

- 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-FW.

END OF CERTIFICATE

Reggio Emilia, 13.11.2019


 Dipl. Ing. Feridoon Sergizzarea
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C E R T I F I C A T E

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

WE HEREBY CERTIFY THAT

Product description GLOBE CONTROL VALVES
Models Series 22, 23
Manufacturer RMT VALVOMECCANICA S.r.l.
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

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C E R T I F I C A T E

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

Type	A			
HFT	0			
Safety functions	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]
Series 22, 23 - No PST	1	4,19E-07	0,00E+00	0,00E+00
Series 22, 23 - With PST	1	3,81E-08	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 PST	2	3,75E-07	3,81E-07	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 testsup to SIL 3 considering external diagnostic testsdouble 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 SM- GLOBE.

END OF CERTIFICATE

Reggio Emilia, 20.04.2018

Dipl. Ing. Feridoon Sergizzarea

TÜV INTERCERT Certification Body



C E R T I F I C A T E

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

WE HEREBY CERTIFY THAT

Product description 3-WAY GLOBE VALVES

Models Series 70

**Manufacturer RMT VALVOMECCANICA S.r.l.
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

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C E R T I F I C A T E

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

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 SM- GLOBE.

END OF CERTIFICATE

Reggio Emilia, 07.05.2018


 Dipl. Ing. Feridoon Sergizzarea

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C E R T I F I C A T E

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.l.
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
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C E R T I F I C A T E

ANNEX to Certificate no. 17-SIL-0010063-03-TIC

Type	A
HFT	0
Safety functions	1. Stem extended upon the demand of the actuation system 2. Stem retracted upon the demand of the actuation system
Mode of operation	Low Demand Mode

Random failure rates				
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

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 SM- LPD.

END OF CERTIFICATE

Reggio Emilia, 08.05.2018


 Dipl. Ing. Feridoon Sergizzarea
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