



C E R T I F I C A T E

Certificate no. 17-SIL-0010005-01-TIC

WE HEREBY CERTIFY THAT

Product description GATE VALVES
Code 45, 45P, 45SO, 45AL, P5, P5P (ASME design)
Models Code 11/12, 11P/12P, 11SO/12SO, 11AL/12AL, P2, P2P
(EN/DIN design)
Manufacturer VALVOSIDER S.r.l.
Via San Rocco 2 – 13011 Borgosesia VC

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-1019-SIL-TIC-PC-0010005-17-02

Expiry date 20.10.2022

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, 21.10.2019


Dipl. Ing. Feridoon Sergizzarea

TÜV INTERCERT Certification Body

CERTIFICATE ■ CERTIFICATO ■ ZERTIFIKAT ■ SERTIFIKA ■ CERTIFICADO ■ گواهینامه ■ ΠΙΣΤΟΠΟΙΗΤΙΚΟ ■ 証明書 ■ 証明 ■ شهادة



C E R T I F I C A T E

ANNEX to Certificate no. 17-SIL-0010005-01-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]
Gate valves - No PST	1	4,39E-08	0,00E+00	0,00E+00
Gate valves - With PST	1	3,95E-09	3,99E-08	0,00E+00
Gate valves - No PST	2	6,11E-08	0,00E+00	0,00E+00
Gate valves - With PST	2	2,12E-08	3,99E-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 SFM-SIL-SR.

END OF CERTIFICATE

Reggio Emilia, 21.10.2019


Dipl. Ing. Feridoon Sergizzarea
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