

## CERTIFICATE

This certifies, that the company

**Sferova S.r.l.**

**Via delle Industrie 30/32**

**20884 Sulbiate (MB)**

**Italy**

Is authorized to provide the product mentioned below

Description of product: **2-ways bolted side entry trunnion mounted ball valve series TM2, TM3, IGI-T**

In accordance with: **EN 61508:2010 Parts 1, 2, 4, 5, 6, 7**  
The product meets also the requirements of standard **EN 17955:2024**



Registration No 20 20257 01  
Test Report No PS-28679-26-M-01  
File reference 28679-01

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Validity  
from 2026-06-10  
until 2029-06-10

Cerro Maggiore, 2026-06-10  
[prodotto@tuev-nord.it](mailto:prodotto@tuev-nord.it)

<b>Type</b>	A
<b>HFT</b>	0
<b>Safety functions</b>	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
<b>Mode of operation</b>	Low Demand Mode

Random failure rates				
Configuration	Safety function	$\lambda_{DU}$ [1/h]	$\lambda_{DD}$ [1/h]	$\lambda_s$ [1/h]
Self-relieving / Double piston effect - No PST	1	9,99E-08	0,00E+00	0,00E+00
Self-relieving / Double piston effect - With PST	1	8,99E-09	9,09E-08	0,00E+00
Self-relieving - No PST	2	1,02E-07	0,00E+00	0,00E+00
Self-relieving - With PST	2	1,07E-08	9,09E-08	0,00E+00
Double piston effect - No PST	2	1,02E-07	0,00E+00	0,00E+00
Double piston effect - With PST	2	1,07E-08	9,09E-08	0,00E+00

<b>Systematic capability</b>	3 (Route 1s applied)			
<b>Architectural constraints</b>	<b>Route 1<sub>H</sub>:</b>	Applied	<b>Route 2<sub>H</sub>:</b>	Applied
	The product can be used in: <ul style="list-style-type: none"> <li>single channel configuration:                             <ul style="list-style-type: none"> <li>up to SIL 2 without external diagnostic tests</li> <li>up to SIL 3 considering external diagnostic tests (only for Safety Function 1)</li> </ul> </li> <li>double channel configuration: up to SIL 3</li> </ul>			
<b>Remarks:</b>	<ul style="list-style-type: none"> <li>Self-relieving configuration: both upstream and downstream seats shall be of self-relieving type (i.e. single barrier in the flow direction)</li> <li>Double piston effect configuration: at least downstream seat shall be of double piston effect type (i.e. double barrier in the flow direction)</li> <li>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 6.09-SIL-SAFETYMANUAL</li> </ul>			

