

CERTIFICATE

This certifies, that the company

Oswal Industries Ltd.

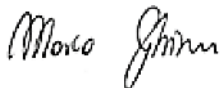
Block No. 258, Ahmedabad-Mehsana Highway, Village- Ola, Post- Isand, Taluka- Kalol, District- Gandhinagar-382740, Gujarat, INDIA

Is authorized to provide the product mentioned below

Description of product: **Trunnion Mounted Ball Valve, 2" ≤ NPS < 48" (Class 150 to 2500), Service Temp. -46 deg C to 370 deg C, Fluid Oil and Gas**

In accordance with: **EN 61508:2010 Parts 2, 4**

Registration No 22 22765 01
Test Report No PS-22765-22-L-01
File reference 22765-01



TÜV NORD Italia S.r.l. (TÜV NORD Group)
Via Turati, 70 20023 Cerro Maggiore (Mi) www.tuev-nord.it



Validity
from 2022-03-22
until 2025-03-22

Cerro Maggiore, 2022-03-22
prodotto@tuev-nord.it

Please also pay attention to the information stated overleaf

ANNEX

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To Certificate-Nr. 22 22765 01

Type	A
HFT	0
Safety functions	1. Correct switching on demand (open to closed) 2. Correct switching on demand (closed to open)
Mode of operation	Low Demand Mode

Random failure rates				
Configuration	Safety function	λ_{DU} [1/h]	λ_{DD} [1/h]	λ_S [1/h]
T1	1	2,04E-07	1,62E-07	0,00E+00
T1	2	1,10E-07	2,57E-07	0,00E+00

Systematic capability	3 (Route 2 _s applied)			
Architectural constraints	Route 1 _H :	N/A	Route 2 _H :	Applied
	<ul style="list-style-type: none"> See the relevant assessment report for the max SIL achievable. 			
Remarks:	<ul style="list-style-type: none"> 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. λ_{dd} is only accountable if partial valve stroke is implemented as external diagnostics. 			

