

CERTIFICATE

This certifies, that the company

Omal S.p.A.
Via Ponte Nuovo, 11
25050 Rodengo Saiano (BS)
Italy

Is authorized to provide the product mentioned below

Description of product: **2-ways split body trunnion mounted ball valve series Supreme**

In accordance with: **EN 61508:2010 Parts 1, 2, 3, 4, 5, 6, 7**

Registration No 20 20534 01
Test Report No PS-20534-20-L-01
File reference 20534-01



TÜV NORD Italia S.r.l. (TÜV NORD Group)
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Validity
from 2020-07-29
until 2023-07-29

Cerro Maggiore, 2020-07-29
prodotto@tuev-nord.it

Please also pay attention to the information stated overleaf

ANNEX

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To Certificate-Nr. 20 20534 01

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 / Double piston effect - No PST	1	5,45E-08	0,00E+00	0,00E+00
Self-relieving / Double piston effect - With PST	1	4,90E-09	4,96E-08	0,00E+00
Self-relieving - No PST	2	7,49E-08	0,00E+00	0,00E+00
Self-relieving - With PST	2	2,53E-08	4,96E-08	0,00E+00
Double piston effect - No PST	2	7,46E-08	0,00E+00	0,00E+00
Double piston effect - With PST	2	2,50E-08	4,96E-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:	<ul style="list-style-type: none"> 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 SMA201703. 			

