



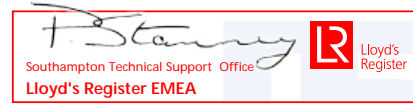
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Mutual Recognition Type Approval Certificate

This is to certify that the undernoted product has been tested with satisfactory results in accordance with the relevant requirements of the European Union Recognised Organisations Mutual Recognised procedure for Type Approval

This certificate is issued to:	Winel BV	
PLACE OF PRODUCTION	Winel BV Dr. Philipsweg 55 9403 AD Assen The Netherlands	Winel Vietnam Ltd Landplot A2 An Hong Industrial Park An Hong Commune, An Duong District Haiphong, Vietnam
NAME OF PRODUCT	Tank Vent Check Valve	
TYPE DESIGNATION	Type CMO Aluminium or hot dipped galvanised steel Size DN 40 - 400 mm	
APPLICATION	Applicable for ships as defined in Mutual Recognition provisions Article 10, Regulation on Common Rules and Standards for Ship Inspection and Survey Organisations	
LIMITATIONS	Exceptions as per Article 5 of The International Convention on Load Lines (ICLL)	
STANDARD	EU RO MR Technical Requirements Tier2, Air Pipe Automatic Closing Devices v 0.3 / 01.04.2016.	

Certificate No.	18/00019
Issue Date	7 th March 2018
Expiry Date	6 th March 2023
Sheet	1 of 2



P A Stanney
Marine Technology & Engineering Services, Southampton
Lloyd's Register EMEA

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Test results of vacuum capability (Discharge/reverse flow test)

DN mm	50	65	80	100	125	150	175	200	250
Max. velocity (m/s)	25.6	26.2	25.6	21	20.5	18.7	20.3	18.4	16.3
80% vol. reverse flow rate (m ³ /min)	145	250	371	475	725	952	1406	1665	2304
DN mm	300	350	400						
Max. velocity (m/s)	16.8	13.3	13						
80% vol. reverse flow rate (m ³ /min)	3420	3685	4705						

This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the Product certified herein. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate.

The Design Appraisal Document no 18/00019 and its supplementary Type Approval Terms and conditions forms part of this Certificate.

Certificate No. 18/00019

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Sheet 2 of 2



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