Certificate No: LR21426464TA
Issue Date: 07/11/2021
Expiry Date: 02/08/2023

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**OKM VALVE (Jiangsu) Co.,Ltd**
Address	No.38 Xinggang Road, Bixi Subdistrict, Changshu, 215500, China
Place of Production	OKM VALVE (Jiangsu) Co.,Ltd No.38 Xinggang Road, Bixi Subdistrict, Changshu, 215500, China
Type	Butterfly Valves
Description	Flanged Type Butterfly Valve
Trade Name	Model 606F & Model 606K
Application	Marine Piping Systems
Specified Standard	LR Rules and Regulations for the Classification of Ships, July 2020 Lloyd's Register Type Approval System Test Specification Number 2, December 2020, Chapter 8, Appendix 7 - Valves JIS F 7480 (1996)
Ratings	Nominal Pipe Diameters (mm): DN350~DN600 (Model 606F) DN50~DN300 (Model 606K) Maximum Working Pressure (MPa): 0.5 & 1.0 Working Temperature Range (˚C): 0~+70 (NBR seat)

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Qing Dong

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A member of the Lloyd's Register group

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	0~+120 (EPDM seat)
Specified Pipe Flange Design:	JIS 5k & 10k
Material:	
Valve Body	SCPH2
Valve Disc	SCS13/SCS14
Valve Seat	NBR/EPDM
Valve Stem	SUS420J2

Other Conditions

1. The valves are to be made, installed and tested in accordance with Part 5, Chapter 12 of LR Rules and Regulations for the Classification of Ships.
2. In all cases the materials are to be suitable for their intended service conditions.
3. The valves of Wafer Type are not used for ship-side applications including scupper or similar fittings.
4. The valves are not to be used in spaces where leakage of failure caused by fire could result in fire spread, flooding or the loss of an essential service.
5. The valves are not to be used as stop valves in fire man and water spray systems on the deck in the cargo area in oil tankers, chemical tankers and liquefied gas carrier.
6. The valves are not to be used for the services in which they are required to be capable of being remotely in the event of fire.
7. The valves will not be permitted to be used for bilge services for passenger ships, but for cargo ships, may be accepted as i) bilge suctions for holds in dry cargo ships when fitted in a pipe tunnel in association with a non-return valve and similar low fire risk spaces and ii) as pump suction valves from main bilge line where the valve is located in the immediate vicinity of the pump and fitted in conjunction with a metal non-return valve on the bilge main side of the butterfly valve.
8. The valves may be used as "in-line" valves (not outlet valves on deep

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tanks) in lubricating or fuel oil piping systems and suction valves on double bottom lubricating oil or fuel oil tanks in machinery spaces provided the design is such that failure of non-metallic seal would not result in external leakage and fire spread, and a suitable gasket joint may be fitted between the pipe flange and the Valve Body.

9. The valves are not to be used for the service that is the transfer of oil fuel to the setting or service tanks as required in the event of fire or damage in passenger ships.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Classification Society (China) Co Ltd of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 18/80052

The Design Appraisal Document LR21426464TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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