



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE

Certificate No. TA21042M

This is to certify that the undernoted product(s)/manufacturing process has/have been approved /type tested in accordance with the requirements Chapt.12.3.1-3, Part D of “Guidance for the Survey and Construction of Steel Ships” and Chapt.2, Part 6, “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use”

This certificate is issued to

Manufacturer:	Wouter Witzel EuroValve B.V., Netherlands
Place of Manufacturer	De Pol 12, 7581 CZ, Losser, Netherlands
Product description:	Rubber Seat Type Butterfly Valves and Butterfly-Check Valve
Type designation(s):	EVS, EVBS, EVBLS, EVCS, EVML, EVMS, EVFS, EVFL, EVTLS, EVUS, ECV, EVS-i EVTLS-i, and EVFS-i
Approval No.:	95 FV 601 B
Valid until:	31 January 2025

This certificate is subject to the conditions specified in the attached sheets.

Issued at Tokyo on 8 February 2021

T. Shimada
General Manager
Machinery Department

Particulars and Conditions :

1-1. Article: Butterfly Valves

1-2. Type : EVS (50~1400A), EVBS (50~300A), EVBLS (50~200A), EVCS(50~300A),
 EVML (80~800A), EVMS (350~1000A), EVFS (40~2000A), EVFL (50~1500A),
 EVTLS (50~1200A), EVUS (700~2200A), EVS-i (400~600A),
 EVTLS-i (400~600A), EVFS-i (400~600A)

	Nominal Dia.(A)	Design (MPa)	Design (°C)	Material			Kind of Fluid
				Body	Seat	Disc	
EVS EVBS EVBLS EVCS EVML EVMS EVFS EVFL EVTLS	40~1600	1.60	0~70 (NBR)	EN JL1040 (FC250) JS1030 (FCD400)	NBR EPDM* FPM**	EN 1.4408 1.4057 1.4462 (SUS) JS1030 (FCD400) CC333G	Cargo Oil Fresh Water Sea Water (Including Bilge Water)
EVUS	1800~2000 (EVFS)	1.00	0~120 (EPDM)	CC333G			
	700~2200	1.00	0~90 (FPM)	ASTM WCB (SCPH)			
EVS-i EVTLS-i EVFS-i	400~600	1.60	-20~200 °C	EN 5.3106 (JS1030) 5.3103 (JS1049) 1.0619 2.1096.01 DIN 1705 (CC491K, EN 1982) 2.1086.01, DIN 1705 (CC482K, EN 1982) CC493K, EN 1982		EN 1.4408, 1.4517, 1.4470, 1.4469, 5.3106(JS10 30) CC333G, EN 1982 2.0835, DIN 17658 2.1096.01, DIN 1705 (CC491K, EN 1982) 2.1086.01, DIN 1705 (CC482K, EN 1982)	

2-1. Article: Butterfly-check valves

2-2. Type: ECV (50~600A)

	Nominal Dia. (A)	Design (MPa)	Design (°C)	Material			Kind of Fluid
				Body	Seat	Discs	
ECV	50~600	1.60	0~70 (NBR) 0~120 (EPDM)	EN JS1030 (FCD400) CC333G	NBR EPDM	EN CC333G	Fresh Water Sea Water (Including Bilge Water)

Applications / Limitations:

1. The materials are specified in accordance with the technical documentation.
2. (*): To be used for only sea water and fresh water line.
3. (**): To be used for only Cargo oil line.
4. The valves used as ship side valves are to be of the EVFS/EVFL/EVFS-i type.
5. The valves used as ship side valves are to be connected with separated bolts (not with penetration bolts through both flanges) on each flange.
6. The valves may not be used for outlet valves fitted to the tank carrying flammable or combustible liquid and subjected to the liquid head, installed in the engine rooms or areas susceptible to fire.
However, they may be used as those installed within the cargo oil tankers or outlet valves leading to the pump room of oil tankers.
7. The valves of JL1040 products are not to be used for the following valves:
 - (a) Mounted on the ship side valves.
 - (b) Directly mounted on the collision bulkhead.
 - (c) Boiler water blow-off piping system.
 - (d) Piping systems which are liable to have large deflection or vibration.
 - (e) Clean ballast piping system which penetrate cargo oil tanks and reach the forepeak tank.
 - (f) Provided at the ship/shore connection of the flammable liquid cargo line.
 - (g) Pipes of Grope II
8. The valves of JS1030 products are not to be used for listed in above (b).

Test

The valves used for piping belonging to Group I & II defined by the requirements 12.1.3, Chapt.12, Part D of the Rules are to be subjected to hydraulic test in the presence of the Society's surveyor in accordance with the requirements 12.6.1, Chapt.12, Part D of the Rules.

Notice

Any significant changes in design or construction of the above items may render this certificate invalid.

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