

# CROATIAN REGISTER OF SHIPPING



Certificate No.

02-004573/026307

## TYPE APPROVAL CERTIFICATE

This is to certify that this product complies with the Rules for the classification of ships, Part 1 - General requirements, Chapter 3 - Type approval of products.

TYPE AND DESCRIPTION OF PRODUCT:

### BUTTERFLY VALVE

EVS, EVCS, EVL, EVBS, EVBLS, EVTLS, EVUS, EVMS, EVML wafer type

EVFS, EVFL double flanged type

MANUFACTURER:

### WOUTER WITZEL EUROVALVE B.V.

Industrieterrein De Pol 12

7581 CZ LOSSER

NETHERLANDS

THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

CRS: Rules for the classification of ships, Part 8. – Piping.


Rules for the classification of ships, Part 17. – Fire protection.

FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.

APPROVAL IS VALID UNTIL: **2028-09-27**

Place and date: **Split, 2024-08-09**



  
Marinko Popović, dipl.ing.

NOTE: This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Croatian Register of Shipping of any modification or changes to the product in order to obtain a valid certificate.

**DETAILED PRODUCT DESCRIPTION:**

Concentric butterfly valve with bonded vulcanised rubber lining.

**APPLICATION / LIMITATIONS:**

Butterfly valves may be used for the following systems: fire main, fresh and seawater, sanitary water, bilge and ballast, cargo oil, fuel and lubricating oil; as shipside valves.

**TYPE APPROVAL DOCUMENTATION:**

**EVS 100**

1.401004 d  
1.403018 i  
1.600278 c  
TM0400- C  
VB1605-D  
1.302910 a  
1.055001 e  
1.351296 b

**EVFS 400**

1.401390 j  
1.403271 g  
1.600295 c  
TM1601-D  
VB4005-B b  
1.302950 c  
1.351475 b  
1.661405 b  
1.050940 b

**Material specification:**

M03D, M20C, M50F, M52D, M80D, M85E

**Technical documentation:**

TD/E/1998/2

See letter No. 020963/TS/847-VB of 25<sup>th</sup> September 2000.

**Operational limits:**

size	max.working press.
EVS DN 50-1400 mm	10/16/25 bar
EVL DN 50-300 mm	10/16 bar
EVBS DN 50-300 mm	10/16/25 bar
EVBLS DN 50-200 mm	16 bar
EVTLS DN 50-1200 mm	10/16 bar
EVUS DN 600-2400 mm	16 bar
EVMS DN 350-1000 mm	16 bar
EVML DN 80-800 mm	10/16/25 bar
EVFS DN 50-2000 mm	10/16/25 bar
EVFL DN 50-1500 mm	10/16 bar
EVCS DN 50-300 mm	10/16/25 bar

**Max. working temperature dependent on material in seat:**

NBR 90°C  
EPDM 120°C  
FPM 170°C

**MARKING OF PRODUCT:**

Type  
Nominal size  
Nominal pressure  
Material  
Manufacturer's name  
Year of manufacture  
Inspector's identification

**CONDITIONS FOR CERTIFICATION:**