

TYPE APPROVAL CERTIFICATE No. MAC183220XG

This is to certify that the product identified below is in compliance with the regulations herewith specified.

Description BUTTERFLY VALVES

Type EVS-i; EVFS-i; EVTLS-i

Applicant WOUTER WITZEL EUROVALVE B.V.

P.O. BOX 54 7580 AB LOSSER NETHERLANDS

Manufacturer WOUTER WITZEL EUROVALVE B.V.

Place of manufacture INDUSTRIETERREIN DE POL 12

7581 CZ LOSSER NETHERLANDS

Reference standards Part C, Chapter 1, Section 10 of RINA Rules

Issued in Hamburg on July 6, 2020. This Certificate is valid until July 5, 2025

RINA Services S.p.A. Giuseppe Russo

This certificate consists of this page and 1 enclosure







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Reference documents

Wouter Witzel Product data sheet 01.61.001 for EVS-i butterfly valves.

Wouter Witzel Product data sheet 01.62.001 for EVFS-i butterfly valves.

Wouter Witzel Product data sheet 01.63.001 for EVTLS-i butterfly valves.

Approved Drw. No. HMMC-17390 Dispatched with letter HMMC/2020/00677/AVE01

Technical characteristics

Type designation	Туре	Size DN [mm]	Maximum working pressure [bar]
EVS-i	Flangeless Wafer	400 - 600	16
EVFS-i	Double Flanged	400 - 600	16
EVTLS-i	Lugged Wafer	400 - 600	16





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Fields of application

- Ship's side or bottom and sea chest;
- Salt and fresh cooling water systems;
- Ballast water and fresh water transfer systems;
- Bilge suctions in association with a non return valve;
- Cargo oil lines (oil tanker);
- Fuel oil transfer systems;
- Fire main isolating valve.

Grey cast iron valves are not permitted to be installed on:

- piping system of first class;
- piping system of second class when the design pressure exceeds 13 bar;
- fuel oil lines with design pressure above 7 bar or design temperature above 60°C;
- ship's side or bottom sea chest and fittings;
- the collision bulkhead;
- bilge lines in tanks;
- the external wall of fuel oil and lubricating oil tanks, when under static head;
- piping subject to hydraulic hammering, excessive strains and vibrations.

According to RINA RULES Pt. C Ch. 1 Sec 10:

type EVS valves is not permitted to be installed on:

- ship's side or bottom and sea chest;
- the collision bulkhead:
- the external wall of fuel oil and lubricating oil tanks, when under static head.

The lining material is to be suitable for the medium conveyed in the piping.

Hamburg July 06, 2020





