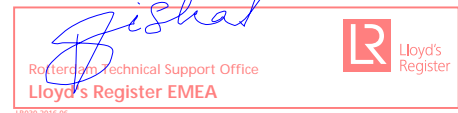


Type Approval Certificate

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

This certificate is issued to:

PRODUCER	Wouter Witzel Eurovalve B.V. Industrieterrein de Pol 12 7581 CZ Losser The Netherlands
PRODUCT DESCRIPTION	Soft Seated High Performance Butterfly Valve
PRODUCT TYPE	DYNAXE Flanged-, Wafer- and Tapped Lug Type
RATINGS	Size Range : DN50-600 Pressure Rating : 150 lbs, 300 lbs, PN10, PN16, PN25 & PN40 Pressure : 16 bar Temperature : -60 to 230°C
STANDARDS	LR Rules and Regulations for Classification of Ships, July 2016 EN 558-1 & 558-2 API 609 Cat. B Table 2 150# only ISO 5211 ISO 10497-5:2004 API 607, 5th edition, June 2005
Certificate No.	16/30025
Issue Date	16 December 2016
Expiry Date	15 December 2021
Sheet	1 of 3



Vishal Shenoy
Rotterdam Technical Support Office

Lloyd's Register EMEA
K.P. Van der Mandelelaan 41a, 3062MB Rotterdam

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APPLICATION

Use in essential- and non-essential piping systems on ships, classed or intended for classification with Lloyd's Register, for the following services and subject to the limitations below:-

- Sea inlets, overboard discharges and sea chest connection
- Bilge system
- Salt and Fresh Cooling Water Systems
- Domestic Fresh and Salt Water Service
- Water Ballast and Freshwater Transfer Systems
- Sanitary Supply Service
- Fuel Oil Systems
- Cargo Oil Lines (on Oil Tankers)
- Inert gas

LIMITATIONS

1. For ship-side valves, the disc is not to extend outside the hull plating when the valve is in open position.
2. Butterfly valves are not allowed to be fitted on collision bulkhead
3. Application in bilge system of passenger ships is not allowed.
4. Application in bilge system is restricted as follows:-
 - in machinery space is only allowed when valve is located in the immediate vicinity of the pump and in series with a metal seated non-return valve. The non-return valve is to be fitted on the bilge main side of the resiliently seated valve;
 - only allowed as bilge suction in holds of cargo ships, when fitted in a pipe tunnel.
5. Cargo lines on oil tankers and as "in-line" valve on chemical tankers and liquefied gas tankers. Except for Carbon Steel valves which may not be use for the liquefied gas tankers.

Certificate No.	16/30025
Issue Date	16 December 2016
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LR030-2016-06

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6. For Fire Safe Valves fitted with an RTFE seating ring with Stainless Steel Fire Safe Backing Ring the following services could also be accepted:-
 - Lubricating oil, hydraulic oil and fuel oil piping systems as in-line and as suction valves on lubricating oil, hydraulic oil and fuel oil double bottom tanks in- or outside machinery spaces;
 - In-line valves in compressed air systems having a working pressure not greater than 7 bar; and
 - Fire Main Isolating Valve.
7. In all cases, the materials of valve body, disc, seat and seals are to be suitable for the proposed service and media.
8. Valves are to be installed to Manufacturer's instruction and the satisfaction of the attending Surveyor.

NOTE:

This certificate replaces and cancels the previously issued certificate number 03/30005 (E4)

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations

A periodical assessment of the Product Quality Assurance will be required to maintain the validity of the Type Approval of the product. This assessment by LR Surveyor is required 30 months after the date of issue of this Certificate.

Certificate No.	16/30025
Issue Date	16 December 2016
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