



# Design Appraisal Document

**Lloyd's Register EMEA**  
**Rotterdam Technical Support Office**  
**Address: K.P. van der Mandelelaan 41a, 3062MB Rotterdam**  
**P.O. Box 701, 3000 AS Rotterdam**  
**Tel.: +31(0)10 414 50 88, Fax.: +31(0)10 201 84 51**  
**Email: Rot-planapp@lr.org www.lr.org**

Date  
**16 December 2016**

Please quote this reference number on all future communications  
**RTS/ENG/161516/VSZ**

## DESIGN REVIEW

**Client & Manufacturer** : Wouter Witzel Eurovalve  
**Subject** : Soft Seated High Performance Butterfly Valve  
**Type Approval Certificate No.** : 16/30025

**This Design Appraisal Document (D.A.D.) supersedes and cancels the previous D.A.D. No. RDS/ENG/4945330, Issue 1, 17 June 2011.**

The undernoted documents have been reviewed for compliance with the requirements of Lloyd's Register Type Approval System TA14, version June 2015

### Approval Documents :-

D-CAEA000-A, Butterfly Valve Dynaxe DN50-600  
D-CAAA000-A, Butterfly Valve Dynaxe WS DN50-600

### Test Reports:-

Valve Fire Test Butterfly Valve, SRI Test Report 6-995, dated 2/2/06  
Valve Fire Test Butterfly Valve, SRI Test Report 6-1012, dated 1/18/06  
Valve Fire Test Butterfly Valve, SRI Test Report 6-1013, dated 1/18/06  
Valve Fire Test Butterfly Valve, SRI Test Report 6-1024, dated 4/19/06

### Reference Documents:-

Lloyd's Register's Approval Services- Request for Quotation, dated 25 July 2016  
Application Checklist – Appendix to Form 2502TA/2502TA MR  
Report of Surveillance of Production Facilities, dated 14 March 26 September 2016

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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**Materials:-**

Body material :	Carbon Steel Casting	GP240GH (1.0619)
	Stainless Steel Casting	GX5CrNiMo 19-11-12 (1.4408)
	Nickel aluminium Bronze	CC333G
Disc material :	Carbon Steel	P250GH (1.0460)
	Carbon Steel	GP240GH (1.0619)
	Stainless Steel	Casting GX5CrNiMo 19-11-12 (1.4408)
	Stainless Steel	X5CrNiMo 17-12-2 (1.4401)
	Nickel aluminium Bronze	CC333G
Shaft material:	Stainless Steel	X20Cr13 (1.4021)
	Stainless Steel	X2 CrNiMnMoNb 21-16-5-3 (1.3964) NA 18 (monel K500)
	Nickel aluminium Bronze	CW370G
Seat Ring	PTFE -15-12-3 (Reinforced) RTFE with Stainless Steel Fire Safe Backing Ring	

- If the valve body, disc and shaft of the butterfly valves being made from stainless steel it should be explained that stainless steel may be prone to rapid deterioration when standing in polluted seawater.
- All used valve materials should be suitable for the products to be carried.
- This Design Appraisal does not include the consideration and acceptance of any operating gear for the control of these types of valves.



Vishal Shenoy  
Senior Specialist  
Machinery Department  
Rotterdam Technical Support Office

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