



Lloyd's
Register

Type Approval Certificate

This is to certify that the undernoted product(s) has/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	COMPLEMENTO Y VÁVULAS DE MARIPOSA S.L. (COVALMA)
PLACE OF PRODUCTION	Avda. de Las Canteras, Nave 11-12, N° 90-92, Pol. Ond. Valmor 28340 Valdemoro Madrid Spain
DESCRIPTION	Butterfly Valves
TYPE	Wafer, Flange & Lug with seat lining
APPLICATION	Marine, Offshore and Industrial
SPECIFIED STANDARDS	LR Rules and Regulations for the Classification of Ships, API 609 EN 593
RESTRICTIONS:	May not be used in; <ol style="list-style-type: none">1. Cargo and venting lines on chemical and gas tankers.2. Valves for cryogenic temperature services.3. Where fire tested valves are required.

RATINGS

Type	DN	Pressures
Wafer	DN 50 to 1200	PN 10 - PN 16
Flanged	DN 150 to 1200	PN 10 - PN 16
Lug	DN 50 to 400	PN 10 - PN 16

Temperature range depending on the seat material

Certificate No.	18/ 00026
Issue Date	28 March 2018
Expiry Date	27 March 2023
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M.H.M.Rila
Southampton Technical Support Office
Marine & Offshore Lloyd's Register

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS

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MATERIAL

Body & Disc	ASTM A395 (2014) EN 1563/ 1998	Nodular Cast Iron
	ASTM A216 (2014)	Carbon Steel
	ASTM A351 CF8M (2015)	Stainless steel
	ASTM B148 GR9D-C95500 (2014)	Bronze - Aluminium
	ASTM B62-C83600 (2015)	Bronze Rg5
	ASTM B584-C90500 (2014)	Bronze Rg10
	ASTM A494 CW12MW (2015)	Hastelloy C276
	ASTM A890 Gr.4A (2013)	Duplex
	ASTM A890 Gr.5A (2013)	Super duplex
	ASTM A494 CW6MC (2015)	Inconel 625
	ASTM B625 Gr.N08904 (2014)	Uranus B6 (904L)
	ASTM B625 Gr.N08031(2014)	Alloy 31
Shaft	Stainless steel A276-420 or A276-316	
Seat	EPDM, EPDM HT, BUNA-N, VITON, SILICONE, HYPALON, EPICLORIDRINA	
Seat lining	Design temperature related to elastomers (°C)	
EPDM	-20 to +95	
EPDM HT	-20 to +120	
NITRILE	-10 to +100	
VITON	-15 to +180	
SILICONE	-60 to +160	
HYPALON	-20 to +125	
EPICLORIDRINA	-40 to +90	
FLUCAST	-10 to +130	
PFTE	-20 to +250	

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 Rila Mohamed
 Southampton GFC Office
 Lloyd's Register EMEA
L8031.1.2016.06

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OTHER CONDITIONS

1. Valves are to be selected, tested and installed in accordance with the manufacturer's recommendations and LR's Rules and Regulations for the Classification of Ships, Part 5, Chapter 12, Section 1 & 6.
2. The valves can be used on board sea water, fresh water, sanitary and bilge systems (outside machinery spaces) conjunction with a metal non-return valve.
3. Metallic materials for Class I and II valves are to be manufactured and tested in accordance with the appropriate requirements of the LR Rules for Materials.
4. Austenitic and duplex stainless steel valves are not permitted for use for seawater systems.
5. EPDM, SILICONE, FLUCAST and HYPALON shall not be used for hydrocarbon services.
6. The valves are to be marked with the following information:
 - Manufacturer's name or trademark.
 - Pressure rating
 - Temperature range
 - Size

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The Design Appraisal Document No. 18/00026 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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