



TYPE APPROVAL CERTIFICATE
No. MAC309614CS

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

<i>Description</i>	BUTTERFLY VALVES
<i>Type</i>	DESPONIA
<i>Applicant</i>	INTERAPP VALCOM S.A. CALDERON DE LA BARCA 12-14 POLIGONO INDUSTRIAL 28860 PARACUELLOS MADRID SPAIN
<i>Manufacturer</i>	INTERAPP VALCOM S.A.
<i>Place of manufacture</i>	CALDERON DE LA BARCA 12-14 POLIGONO INDUSTRIAL 28860 PARACUELLOS MADRID SPAIN
<i>Reference standards</i>	Part C, Chapter 1, Section 10 of RINA Rules
<i>Reference documents</i>	RINA TYPE APPROVAL SYSTEM

Issued in **Genoa** on **January 20, 2015**. *This Certificate is valid until* **January 19, 2020**



RINA Services S.p.A.
Francesco Sciacca

This certificate consists of this page and 1 enclosure



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DESPONIA

Reference documents

VALCOM drawings:

D1032S2000-01-rev1, D1040S2001-E, D1050S2001-E, D1065S2001-E, D1080S2001-E,
D1100S2001-E, D1125S2001-E, D1150S2001-E, D1200S2001-E, D1250S2001-E/rev1,
D1300S2001-E/rev3, D1350S02001-E/rev1, D10400-E, EVK-00234-3/rev1, EVK-00153-3/rev1,
EVK-00265-3/rev1, EVK-00171-3/rev1, B0-B0750-10, EVK-00269-3/rev1, EVK-00078-3/rev1,
B1000-10-3/rev1, EVK-00298-03/rev1, 6241-R01, 6244-R01, 6263-R01, 6268-R00, 6270-R01,
6271-R00, 6292-R01, 6325-R00, 6351-R01, 6354-R00, 6449-R00, 6450-R00, 4525-001, D10800-001,
D10900-002, D11000-003, D30450-002, D30500-002, D30600-002, D41400-004, CHK-4069-005,
4790-001, 5001-001, 4515-005, 4080-020.

Catalogue InterApp "Desponia" 1443

Structural analysis of bodies of butterfly valves

DNV test report MAD 03-004 dated 14/02/2003

Materials/Components

Body:

Cast iron EN-GJL-250

Nodular cast iron EN-GJS-400

Disc:

Nodular cast iron EN-GJS-400

Stainless steel W.No. 1.4408, or ASTM A351 CF8M

Stainless steel W.No. 1.4588

Carbon steel W.No. 1.0552 / GS52.3

AlBronze ASTM B148 C95800 / G-CuAl10Ni

Special steel HASTELLOY ASTM A494 CW-12MW

Lining/Seat:

EPDM (ord., White and EW), Nitrile (ord. and White), Silicone, Hypalon, Viton



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Technical characteristics

Butterfly valves:

Wafer, Lug and Flanged type (elastomer lined, soft seated)

Type	Valve type	Valve size
D1	Wafer	DN 25/32 to 700 mm
D3	Lug (threaded holes)	DN 25 to 600 mm
D4	Flanged	DN 150 to 1600 mm

Pressure range:

2.5 / 6 / 10 / 16 bar (as per InterApp "Desponia" 1443 catalogue)

Temperature range: dependant on seat material, see certificate.

Fields of application

These valves may be used in systems for:

Sea and Fresh Water Cooling, Water Ballast, Bilge (see certificate) and Sanitary.

Acceptance conditions / Limitation of use

The use of grey cast iron and nodular cast iron valves is to comply with the conditions as stated in Table 4 of the Part C Chapter 1 Section 10 of the RINA Rules.

Maximum working temperatures dependant on material in lining and seat:

-EPDM	95°C
-EPDM White	95°C
-EPDM EW	120°C
-Nitrile (ord.and White)	100°C
-Silicone	150°C
-Hyapalon	125°C
-Viton	170°C

Valves having EPDM (ord.,White and EW) lining are not to be used for bilge service.



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It is intended that the max output torque from actuators must not exceed the limit at which the spindle or disc can be damaged if the disc is restrained in any position.

The present type approval does not include neither any operating gear for remote control of the valves nor any verification of fire resistance capability.

The acceptance of each valve on board ships and other units classed with RINA is subject to outcome of testing as per RINA Rules, which is to be referred to the piping classes (II or III) and where the valve itself will be installed (e.g. ship side).

The body of each valve is to be hydrostatically tested to 1.5 times the design pressure. For valves intended to be fitted on sea chests and on the ship's side below the load waterline are to be tested to a pressure not less than 5 bar.

These valves can be used in bilge suction line when fitted in connection with a non-return valve. Special consideration will be given to the use of butterfly valves in the bilge systems of passenger ships.

For shipside services, the valve is to be bolted to the shipside connection in such a way that the section of pipe immediately inboard of the valve can be removed, should this be necessary and it should be prevented that the disc could project outside the shell plating when the valve is in open position.

Each valve is to be also in compliance with the applicable requirements in Para. 2.7 and 2.8 of Part C Chapter 1 Section 10 of RINA Rules.

Remarks

For traceability to this Type Approval each valve is at least to be marked with:

- Manufacturer's name or trade mark
- Type designation
- Size
- Max.design pressure

The valve installation on board is to be made in accordance with the Manufacturer instructions and to the satisfaction of the RINA Surveyor.

This certificate cancels and replaces the previous one No. MA460709CS dated 06 November 2009.

Genoa January 20, 2015

