

# Efficient valve solutions for marine applications

Marine –  
Expertise in demanding environments





# Always reliable



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# Expect more

**1 Reliability**  
Our butterfly valves convince with their superior technical features. They guarantee a trouble-free operation and high lifetime.

**2 Availability**  
Flexible production sites in Switzerland, Spain and China enable short delivery times, even for large sizes.

## Bianca PTFE-lined butterfly valve

Centric butterfly valve for handling chemicals and corrosive media in ballast water treatment systems, exhaust gas cleaning systems, wastewater treatment, etc.

|                                 |  |
|---------------------------------|--|
| Body construction               | Lug, Wafer, U-Section  |
| Nominal diameter                | DN 32 – 900 (1 ¼" – 36")   |
| Max. working pressure           | Up to 16 bar   |
| Flange connection               | PN10, PN16, ANSI cl. 150, JIS 10K                                      |
| Temperature range               | –20°C to 200°C   |
| Body material                   | Ductile iron, Stainless steel  |
| Disc-shaft material (one piece) | Stainless steel, Duplex, Hastelloy, PFA and PFA antistatic overmoulded |
| Liner material                  | PTFE, PTFE antistatic, Ultraflon®                                      |

## Desponia® Elastomer-lined butterfly valve

Centric butterfly valve for demanding ship operations, including ballast, bilge, freshwater systems, and cargo handling.

|                       |  |
|-----------------------|--|
| Body construction     | Wafer, Lug, U-Section  |
| Nominal diameter      | DN 25 – 1600 (1" – 64 ")   |
| Max. working pressure | Up to 20 bar   |
| Flange connection     | PN6, PN10, PN16, ANSI cl. 150, JIS 5K, JIS 10K, JIS 16K  |
| Temperature range     | –20°C to 200°C   |
| Body material         | Ductile iron, Stainless steel  |
| Disc material         | Stainless Steel, Super Austenitic steel, Aluminium Bronze, Super Duplex, Halar® coated, Ultralene Coating™ |
| Liner material        | EPDM, NBR G, FPM and others  |

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**3 Product variety**  
Resistant bodies, robust liners and discs are available in different materials in order to create the best solution for your application.

**4 Certified products**  
Our products are DNV, RINA and BV approved. 2.2, 3.1 or 3.2 material certificates can be provided upon request.

The right selection  
for your ship operation system

| Process                                 | Media                            | Pressure range | Temperature range | Abrasion | Corrosion | Valve  |
|---|----------------------------------|----------------|-------------------|----------|-----------|--|
| Ballast system                          |                                  |                |                   |          |           |  |
|   | Seawater                         | 2-4 bar        | Ambient           | Low      | High      | Desponia® with Alu-bz disc and NBR G liner                   |
| Ballast water treatment systems (BWTS)  |                                  |                |                   |          |           |  |
|   | Seawater                         | 2-4 bar        | Ambient           | Low      | High      | Desponia® with Alu-bz disc and NBR G liner                   |
|   | Chemicals                        | 1-3 bar        | Ambient           | Low      | High      | Bianca with PFA disc and PTFE liner                          |
|   | Treated water                    | 2-4 bar        | Ambient           | Low      | Moderate  | Desponia® with Alu-bz disc and EPDM liner                    |
| Bilge system                            |                                  |                |                   |          |           |  |
|   | Bilge water                      | 1-3 bar        | Ambient           | Moderate | High      | Desponia® with Alu-bz disc and NBR G liner                   |
| Exhaust gas cleaning system (Scrubbers) |                                  |                |                   |          |           |  |
|   | Exhaust gases                    | Ambient        | 200-400°C         | Low      | High      | Saturnia with SS body, disc and seat                         |
|   | Scrubbing liquid                 | 2-5 bar        | 2-35°C            | Low      | High      | Bianca with PFA disc and PTFE liner                          |
|   | Wash water                       | 2-5 bar        | 40-60°C           | Low      | High      | Desponia® with Halar® disc and EPDM liner                    |
| Inert gas system                        |                                  |                |                   |          |           |  |
|   | Inert gas (Flue gas or Nitrogen) | < 1 bar        | 5-80°C            | Low      | Low       | Saturnia with SS body, disc and seat                         |
| Compressed air system                   |                                  |                |                   |          |           |  |
|   | Compressed air                   | 6-12 bar       | Ambient           | Low      | Low       | Desponia® with SS disc and NBR G liner                       |
| Fuel and oil handling system            |                                  |                |                   |          |           |  |
|   | Heavy fuel oil (HFO)             | 5-16 bar       | 80-120°C          | Low      | Low       | Desponia® with SS disc and standard FPM or FPM VD liner      |
|   | Marine Diesel/Gas oil            | 5-16 bar       | Ambient           | Low      | Low       | Desponia® with SS disc and NBR G liner                       |
|   | Lubricating oil                  | 4-6 bar        | 40-60°C           | Low      | Low       | Desponia® with SS disc and NBR G liner                       |
|   | Hydraulic oil                    | 70-300 bar     | 30-80°C           | Low      | Low       | Ball valves  |
| Cooling water system                    |                                  |                |                   |          |           |  |
|   | Seawater                         | 2-6 bar        | 2-60°C            | Low      | High      | Desponia® with Alu-bz disc and NBR G liner                   |
|   | Clean water                      | 2-6 bar        | 70-90°C           | Low      | Low       | Desponia® with Alu-bz disc and EPDM liner                    |
| HVAC system                             |                                  |                |                   |          |           |  |
|   | Air                              | 1-3 bar        | 15-30°C           | Low      | Low       | Desponia® with SS disc and NBR G liner                       |
|   | Chilled water                    | 2-4 bar        | 4-7°C             | Low      | Low       | Desponia® with SS disc and EPDM liner                        |
|   | Hot water or steam               | 1-10 bar       | 60-80°C           | Low      | Moderate  | Desponia® with SS disc and EPDM HT liner                     |
| Freshwater systems                      |                                  |                |                   |          |           |  |
|   | Seawater                         | 2-4 bar        | Ambient           | Low      | High      | Desponia® with Alu-bz disc and NBR G liner                   |
|   | Freshwater                       | 2-4 bar        | 30-50°C           | Low      | Low       | Desponia® with Alu-bz disc and EPDM liner                    |
|   | Brine (concentrate)              | 2-4 bar        | Ambient           | Low      | High      | Desponia® with Halar® disc and EPDM liner                    |
| Fire protection system                  |                                  |                |                   |          |           |  |
|   | Seawater                         | 5-14 bar       | Ambient           | Low      | High      | Desponia® with Alu-bz disc and NBR G liner                   |
|   | Chemicals/foams                  | 3-12 bar       | Ambient           | Low      | High      | Bianca with PFA disc and PTFE liner                          |
|   | Gaseous agents                   | 25-60 bar      | Ambient           | Low      | Low       | Ball valves  |
|   | Dry chemical powders             | 10-14 bar      | Ambient           | Moderate | Low       | Desponia® with Ultralene Coating™ disc and Fluicast FP liner |
| Wastewater treatment                    |                                  |                |                   |          |           |  |
|   | Greywater                        | 1-3 bar        | Ambient           | Low      | Moderate  | Desponia® with Halar® disc and EPDM liner                    |
|   | Chemicals                        | 1 bar          | Ambient           | Low      | High      | Bianca with PFA disc and PTFE liner                          |
|   | Treated effluent                 | 1-3 bar        | Ambient           | Low      | Low       | Desponia® with SS disc and EPDM liner                        |
| Dredging operation                      |                                  |                |                   |          |           |  |
|   | Slurry                           | 6-20 bar       | Ambient           | High     | High      | Knife gate valves, Desponia® with Alu-bz disc and FN liner   |
|   | Seawater for jetting             | 10-15 bar      | Ambient           | Moderate | High      | Desponia® with Alu-bz disc and FN liner                      |
|   | Overflow water                   | Ambient        | Ambient           | Low      | High      | Desponia® with Alu-bz disc and FN liner                      |
| Cargo handling                          |                                  |                |                   |          |           |  |
|   | Crude oil                        | 2-10 bar       | 10-50°C           | Low      | Moderate  | Desponia® with SS disc and NBR G liner                       |
|   | Liquefied natural gas            | Ambient        | -162°C            | Low      | Low       | Elara (cryogenic version) with SS body, disc and seat        |
|   | Liquefied petroleum gas          | 5-20 bar       | -40-40°C          | Low      | Moderate  | Elara with SS body and disc and MPTFE seat                   |
|   | Chemicals                        | 2-8 bar        | 10-60°C           | Low      | High      | Bianca with PFA disc and PTFE liner                          |

Other products



Double eccentric butterfly valve Elara

With carbon steel or stainless steel body, designed for heavy duty applications up to 50 bar.



Stainless steel ball valves

2- way valves in stainless steel, available with 2- or 3-piece body.



Check valves

Dual, swing and disco check valves, available in various executions.



Actuators and accessories

Actuators and a large range of accessories are available to complete the system.

# Globally local

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As an international company with extensive product and project expertise, we support you with our sales partners and our technical support team in all parts of the world.

We are there for you.  
Anywhere, anytime.

## Facts & Figures

- / 1969 founded in Switzerland
- / 3 manufacturing sites in Switzerland, Spain and China
- / Over 20 sales and distribution companies and export sales partners
- / A dedicated member of the AVK Group since 2010



- InterApp Subsidiaries
- AVK Industrial Companies
- Export Sales Partners

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