Full scale valve solutions

Desalination –
Expertise in desalination processes



InterApp



Reliable valves and comprehensive project support

When full scale solutions for desalination processes are required, InterApp's quality valves and application expertise play a decisive role. Whether for membrane based technologies such as reverse osmosis and electrodialysis or thermal based technologies such as distillation, we offer reliable, certified and process-specific valve solutions.

As a customer-focused valve manufacturer with a worldwide presence, we provide full service. Ranging from comprehensive project support to plant-specific valve configurations, we are your partner for desalination processes.

Versatility and performance



Expect more

1 Product variety

Thanks to a large range of body, liner and disc materials, our valve solutions meet all relevant plant and technology requirements.

2 Ensured quality

Our valves guarantee reliable operation and safe use for various desalination purposes. Furthermore, they are approved for drinking water.

Desponia®

Elastomer-lined butterfly valve

Centric butterfly valve for all kind of desalination applications and chemicals in general.

Body construction	Wafer, Lug, U-Section
Nominal diameter	DN 25 – 1600 (1" – 64")
Max. working pressure	Up to 16 bar
Flange connection	PN6, PN10, PN16, ANSI cl. 150, JIS, AS, AWWA, etc.
Temperature range	-20°C to 200°C
Body material	Ductile iron
Disc material	Super austenitic steel, Nickel aluminium bronze, Super Duplex, Halar® coated
Liner material	EPDM, NBR, FPM and others
Special executions	Executions for explosive atmospheres

Desponia® plus

Elastomer-lined butterfly valve

Centric butterfly valve for desalination applications at higher pressures.

Body construction	Wafer, Lug
Nominal diameter	DN 25 – 600 (2" – 24")
Max. working pressure	Up to 20 bar
Flange connection	PN6, PN10, PN16, PN25, ANSI cl. 150, JIS, AS, AWWA, etc.
Temperature range	-40°C to 200°C
Body material	Ductile iron, Carbon steel and Stainless steel
Disc material	Super austenitic steel, Nickel aluminium bronze, Super Duplex, Halar® coated
Liner material	EPDM, NBR, CSM, FPM
Special executions	Executions for explosive atmospheres and bonded liners

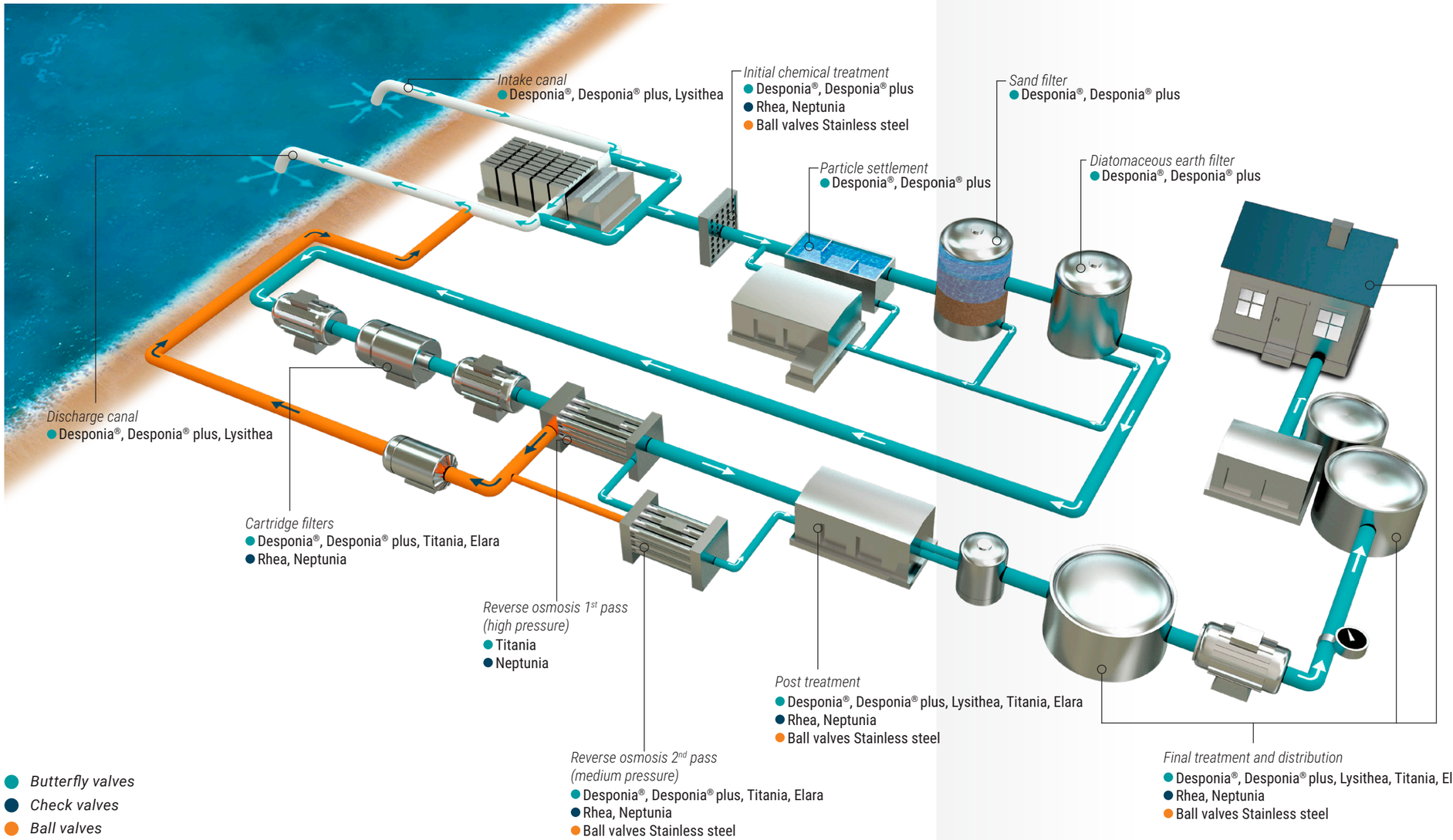
3 Complete package

A large product range combined with our expertise and comprehensive project support provide full service.

4 Long-term partnership

InterApp valves convince in desalination plants since many years. Customers all over the world rely on our proven products and know-how.

The right solution
for your desalination processes



- *Butterfly valves*
- *Check valves*
- *Ball valves*

Rhea



Swing check valve, DN 32 – 600 Stainless steel, Nickel aluminium bronze, Duplex and Super Duplex.



Neptunia

Dual plate check valve, DN 50 – 600 Stainless steel, Nickel aluminium bronze, Duplex and Super Duplex.



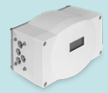
Ball valves

2 and 3 way valves in different materials Stainless steel, special alloys, PTFE lined and PVC.



Actuators

Depending on the specific requirements, InterApp valves can be operated manually or automatically.



Accessories

A large range of accessories is available to complete the system.

Certificates

Other products



Lysithea

Double eccentric butterfly valve, DN 150 – 2200 Ductile iron coated, Duplex and special alloys discs on request.



Titania

Triple offset metal to metal seat butterfly valve, DN 80 – 1400 Stainless steel, Duplex and Super Duplex.



Elara

Double eccentric butterfly valve, DN 50 – 800 Stainless steel, Duplex and Super Duplex.

Case study Water Treatment, Spain

Paving the way to success with regional resources

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With InterApp butterfly valves Desponia®



The Campo de Dalías sea water desalination plant in Spain was entering into production following a successful construction phase. The use of sea water through desalination counteracts the water shortage in the region and prevents the groundwater level from dropping.

The plant, based in the south-east of Almería, in the municipality of El Ejido, is designed for a net production capacity of 30 millions m^3 per year. The construction project was planned and developed under state control and was implemented by Aguas de las Cuencas Mediterráneas – a public company that belongs directly and acts under the supervision of the Ministry for the Ecological Transition of the Spanish Government.

From planning to implementation, the project criteria were modified multiple times, in order to align the plant to the highest international efficiency standards. The main goal was to reduce energy consumption, increase operational flexibility and optimise the lifecycle of both components and all system processes.

InterApp Valcom, part of the InterApp Group, made all the difference in the key construction phase thanks to its valuable specialist knowledge, flexibility and great understanding of the project. Two months after having placed the purchase order, the first of 350 butterfly valves rolled off the assembly line and were transported from the factory in Madrid to the desalination plant on a weekly basis. InterApp Valcom's proximity to the production facilities and logistics expertise were a major benefit for everyone involved. Preference was given to local production even during the material selection process: ACUAMED opted for valves with discs produced in Super Duplex, which were produced exclusively in Spanish foundries.

Following a successful completion process, the plant's capacity is being increased to 40 millions m^3 per year. The water gained is used in agriculture, as well as being further processed into drinking water, too. All in all, it's a successful project for the region that was implemented using local resources thanks to InterApp.

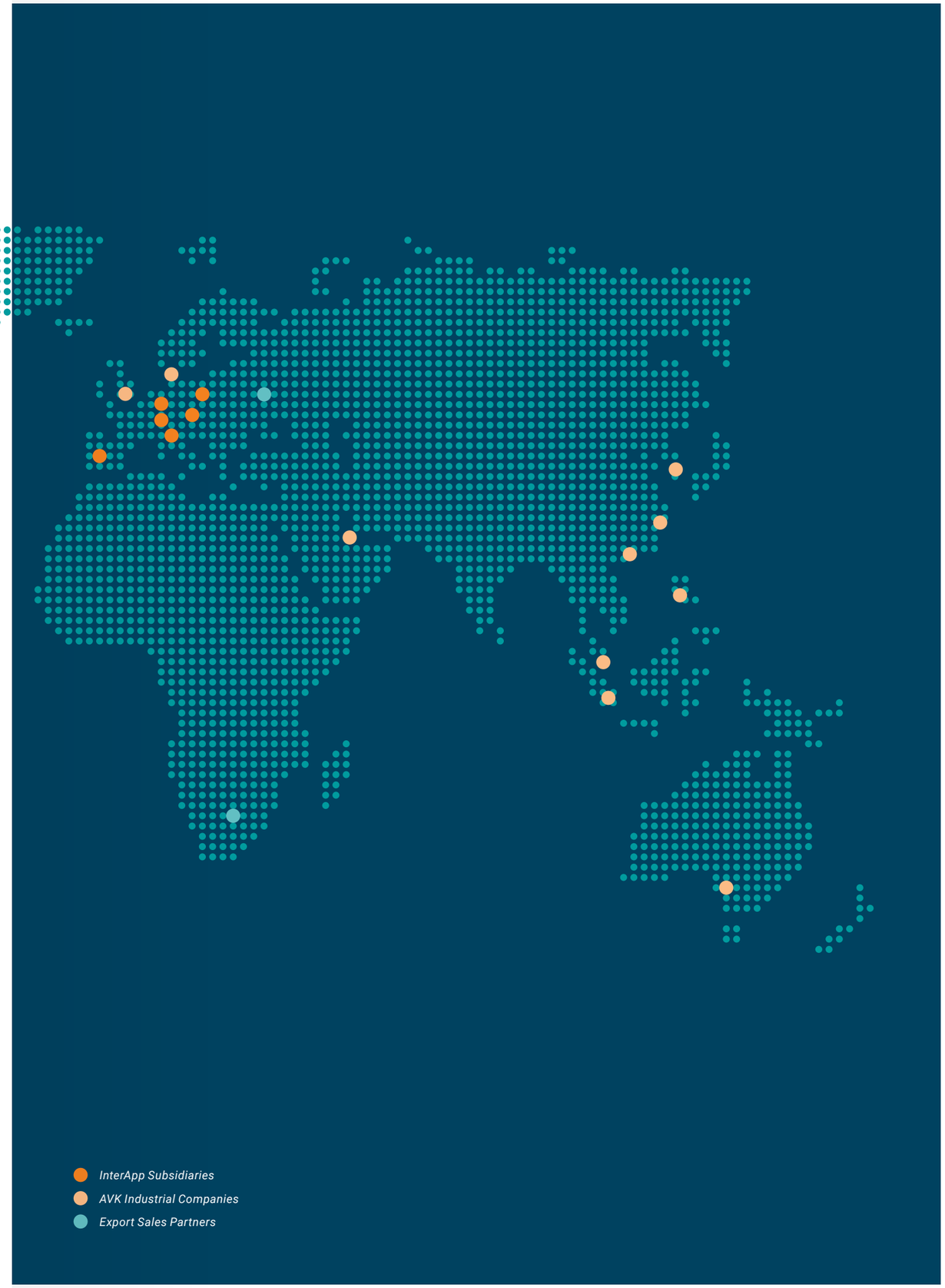
We are there for you. Anywhere, anytime.

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.

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





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InterApp AG

Grundstrasse 24
6343 Rotkreuz
Switzerland

info@ch.interapp.net
interapp.net

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