

Safe and readily available valve solutions

Green hydrogen production –
Expertise in clean process applications





Process-specific valves for safe hydrogen production

As a globally positioned production and sales company, we create innovative solutions that contribute to a sustainable future. For the demanding processes in green hydrogen production, we offer highly reliable valves for water purification, electrolysis and oxygen handling processes. InterApp valves are manufactured in our own premises according to the highest production standards and high international approval regulations and ensure maximum safety.

To support you in realising the best process-specific solution, our experienced technical staff will be happy to assist you with its in depth application and product know-how.

Quality in every aspect



Bianca PTFE-lined butterfly valve

Centric butterfly valve with electrically isolating PFA overmoulded disc. Specially cleaned, assembled and packed in double sealed bags in our clean room US federal standard 209E class 10.000 and ISO class 7.

Body construction	Lug, Wafer, U-Section
Nominal diameter	DN 32 – 900 (1 ¼" – 36")
Max. working pressure	Up to 16 bar (232 psi)
Flange connection	PN10, PN16, ANSI cl. 150, JIS 10K
Temperature range	-20°C to 200°C (-4°F to 392°F)
Body material	Ductile iron, Stainless steel
Disc-shaft material (one piece)	PFA overmoulded*
Liner material	PTFE* with EPDM or FPM elastomeric energizer

**The PTFE Liner and PFA-overmoulded disc are tested by BAM (Bundesanstalt für Materialforschung und -prüfung, Berlin) against oxygen safety and listed in "List of non-metallic materials compatible with oxygen" (DGUV 213-075).*

Desponia® and Desponia® plus Elastomer-lined butterfly valve

Centric butterfly valve with stainless steel disc or with electrically isolating coated disc, such as Halar, PEKK, UHMWPE. Grease-free execution, assembled and packed in our clean room.

Body construction	Wafer, Lug, U-Section
Nominal diameter	DN 25 – 1600 (1" – 64 ")
Max. working pressure	Up to 16 bar (232 psi)
Flange connection	PN6, PN10, PN16, ANSI cl. 150, JIS 5K, JIS 10K, JIS 16K
Temperature range	-20°C to 200°C (-4°F to 392°F)
Body material	Ductile iron, Stainless steel
Disc material	Stainless steel, Stainless steel polished, Stainless steel coated with Halar or PEKK or Ultralene coating® (UHMWPE)
Liner material	EPDM, NBR, FPM and others

Expect more

1

Safety

To ensure absolute cleanliness, our superior and highly reliable valves are assembled in our state-of-the-art clean rooms to ensure failure-free and safe operation.

2

Availability

Readily available semi-finished components and a flexible production enable short delivery times both for valves and spare parts.

3

Product variety

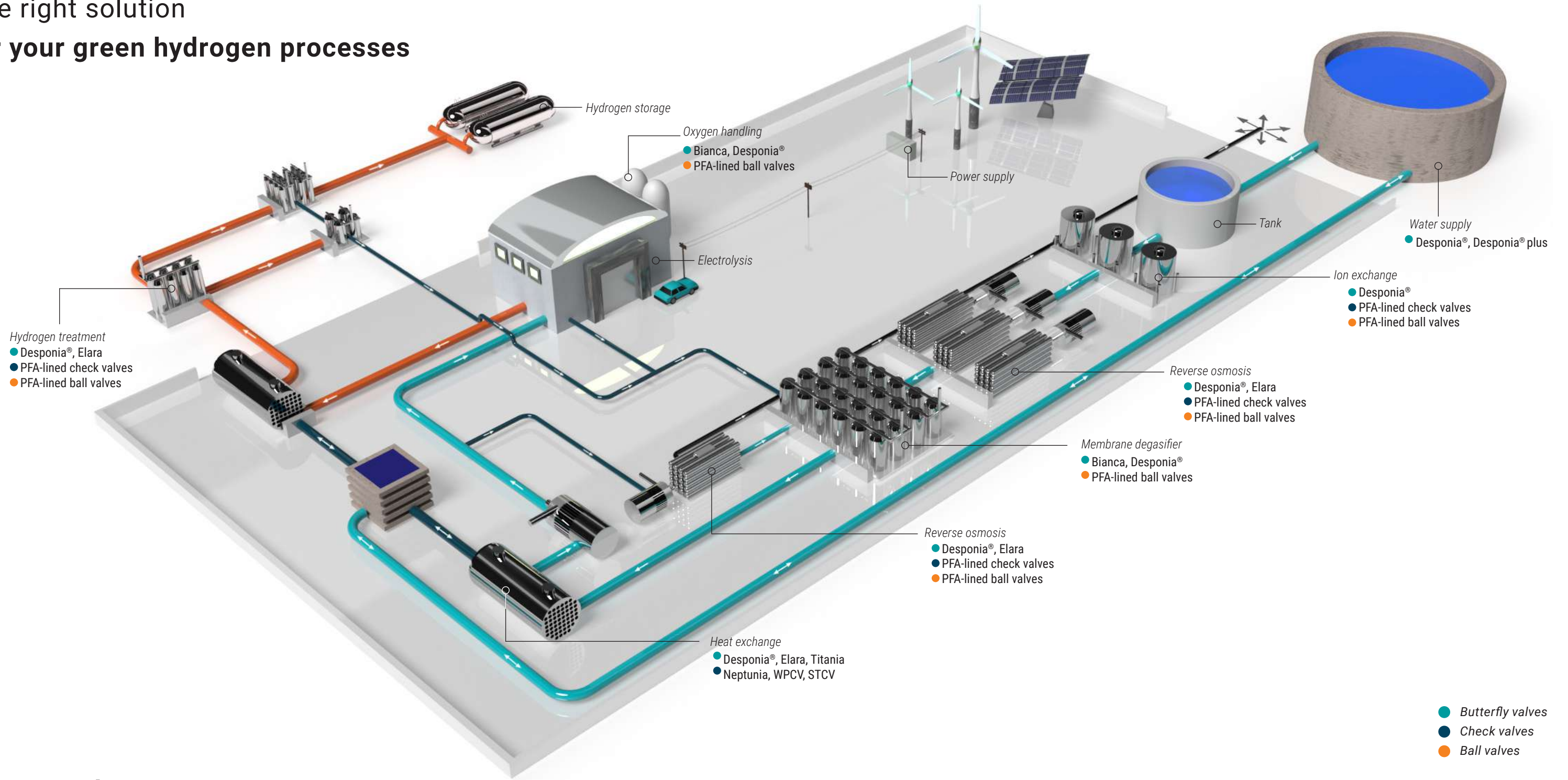
Process-specific executions can be created thanks to a large range of body, liner and disc materials.

4

Oxygen certified

Our butterfly valves for oxygen processes are listed for oxygen applications and ensure safe operation.

The right solution for your green hydrogen processes



6

7

Other products



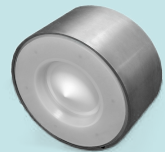
Ball valves

A large product range of 2- and 3-way PFA lined valves. Stainless steel body, grease-free execution.



STCV

PFA-lined swing check valve, Sizes 6"-12". Cast steel body, grease-free execution.



WPCV

PFA-lined wafer poppet check valve, Sizes 1/2"-4". Stainless steel body, grease-free execution.



Neptunia

Dual plate check valve, Sizes 2"-24", Stainless steel body and grease-free execution.



Elara

Double eccentric butterfly valve, DN 50 – 600. Carbon steel and Stainless steel.



Actuators

Our valves can be operated manually or automatically by pneumatic actuators as on/off- or regulating services.

Safe oxygen handling and metal ion-free water

With InterApp butterfly valves
Bianca and Desponia®



Courtesy by Linde GmbH, Munich

- Butterfly valves Bianca
- Butterfly valves Desponia®
- Check valves PFA-lined
- Ball valves PFA-lined
- Actuators IA motion

To ensure a failure-free operation and the manufacture of contamination-free products, none of the media used in hydrogen production should contain metal ions, which make them electrically conductive and the electrolyzing process less effective.

Leuna Green Hydrogen facility is a 24 MW green hydrogen factory and so far the biggest water electrolysis site worldwide (2022). It is part of Chemiepark Leuna, next to Leipzig, Germany.

InterApp valves are used in the water purification, electrolysis, hydrogen and oxygen treatment systems.

The entire PEM electrolyser process is equipped with Bianca butterfly valves with PFA-overmoulded disc, Desponia® butterfly valves with Halar coated disc, PFA-lined ball valves TLBVH and PFA-lined check valves STCV from Sizes 1" up to 20".

By providing electrical isolation and avoiding metal ions penetration into the media, InterApp valves contribute to a reliable plant operation and ensure maximum safety.



Courtesy by Linde GmbH, Munich

Globally local






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

InterApp AG reserves the right to change or remove products or services from its range at any time and without prior notification or obligation. InterApp AG does not assume any liability for consequences resulting from the use of this document. There is no guarantee that the information provided here is complete, accurate or up to date.

© 2023 InterApp AG. All rights reserved.

The duplication of this document or a part thereof is only permitted with prior written consent from the owner of the copyrighted material.

info@ch.interapp.net
www.interapp.net

