

# Safe oxygen handling and metal ion-free water for the green hydrogen production



Courtesy of Linde GmbH, Munich



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**Bianca butterfly valves**

*PTFE-lined, high purity design for oxygen service*

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**Desponia® butterfly valves**

*Elastomer-lined, grease-free design*

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**STCV check valves**

*PFA-lined, stainless steel, grease-free design*

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**TLBVH ball valves**

*PFA-lined, stainless steel, grease-free design*

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**IA Motion actuator**

*pneumatic*

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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, close to Leipzig, Germany.

InterApp valves are used in the water purification, electrolysis, hydrogen and oxygen treatment systems. The entire PEM (polymer electrolyte membrane) 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 DN 25 up to DN 500.

Desponia® butterfly valve with Halar coated disc  
Bianca butterfly valve with PFA-overmoulded disc

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



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