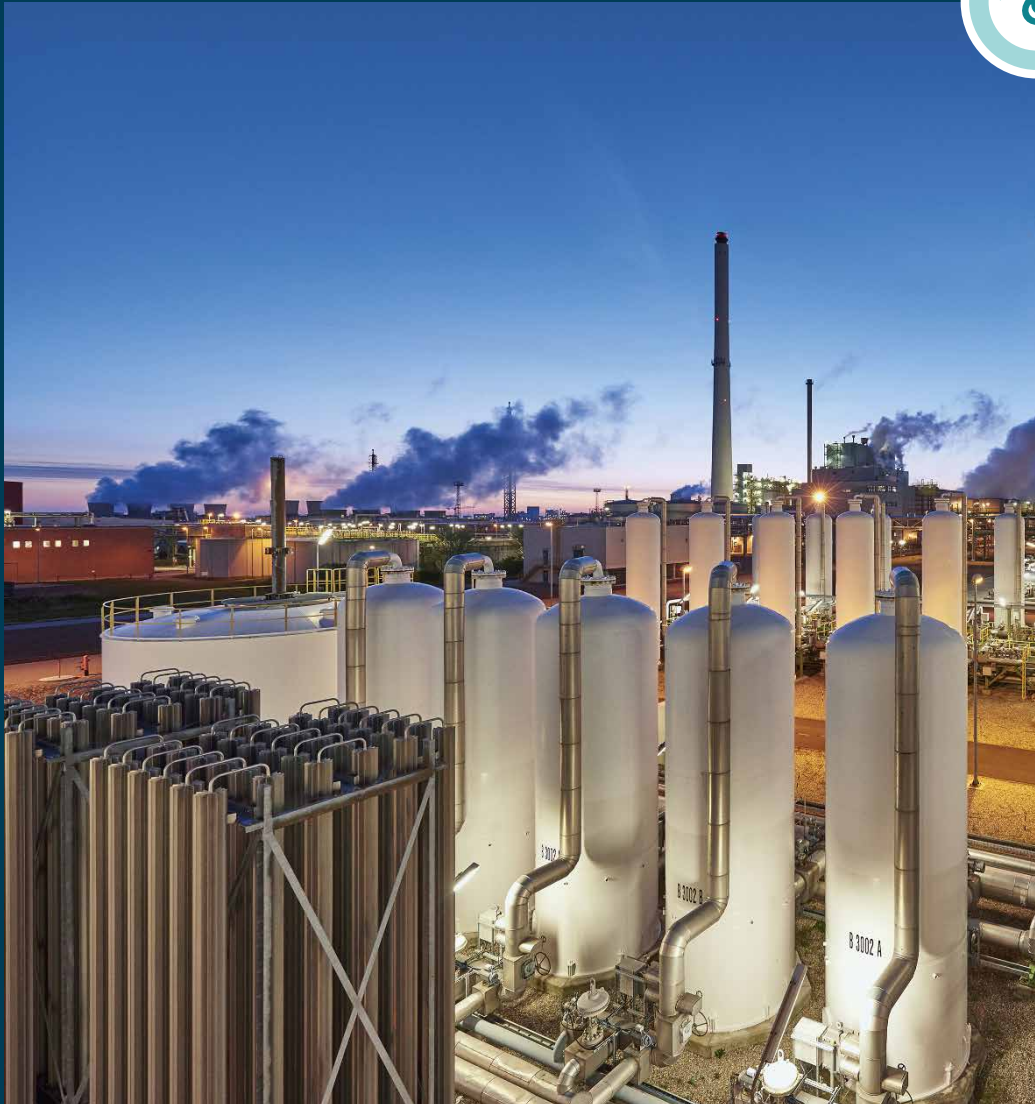


Safe oxygen handling and metal ion-free water for the green hydrogen production

Green hydrogen production –
Case Study Water Treatment



Courtesy of Linde GmbH, Munich



Courtesy of Linde GmbH, Munich

Bianca butterfly valves

PTFE-lined, high purity design for oxygen service

Desponia® butterfly valves

Elastomer-lined, grease-free design

STCV check valves

PFA-lined, stainless steel, grease-free design

TLBVH ball valves

PFA-lined, stainless steel, grease-free design

IA Motion actuator

pneumatic

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.



We are there for you. With our global expertise in industrial applications, we understand your requirements and offer expert advice at every stage of your project. At the same time, you can benefit from our international product standards thanks to our global know-how. Our highly skilled technical team, coupled with the quality and durability of our products, makes us a reliable partner for industrial valve solutions.