

# Type 550 – The New Sight Glass Based on DIN 11869 (formerly DIN 3237)

Reliable, Sturdy & TÜV-Certified.



 made  
 in  
 Germany

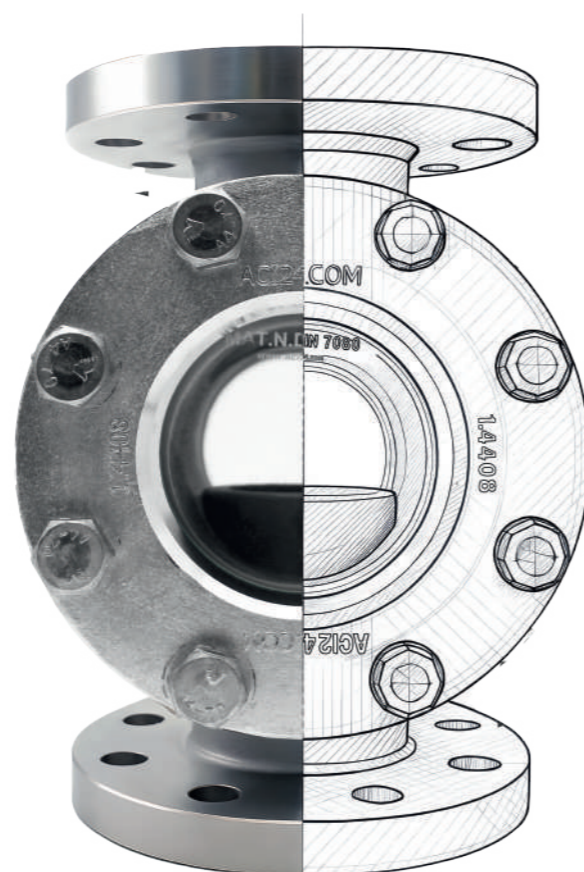




**The new **Type 550** sight glass – based on DIN 11869 and equipped with a flange connection – impresses with its high-quality manufacturing, extremely short delivery times, and TÜV-certified safety – made for industry.**

The ACI Type 550 sight glass, based on DIN 11869, is a premium flow indicator with flange connection, specifically developed to meet the highest demands in the chemical, pharmaceutical, petrochemical, and plant engineering industries. With its cast stainless steel body, wide availability, and short delivery time, the Type 550 clearly stands out in the market.

- Delivery time: approx. 3–5 working days
- Available nominal sizes: DN 15 to DN 200
- Design testing by TÜV SÜD Industrie Service GmbH
- Vacuum-tight up to 2 mbar absolute (–0.998 bar) in combination with novaflon® 500
- Temperature-resistant: –196 °C to +400 °C
- Designed in accordance with AD 2000



**A clear statement of quality: With the new Type 550, ACI is launching a high-performance sight glass in the market that sets new standards in terms of safety, manufacturing quality, and delivery time.**

**Type 550 sight glass based on DIN 11869 with flange connection & drip lip**

**At ACI, quality and safety are top priorities. The Type 550 sight glass meets the highest industry standards. Its design and engineering calculations were pre-approved by TÜV SÜD Industrie Service GmbH – thus ensuring maximum operational safety.**

**Because special requirements need strong partners®.**

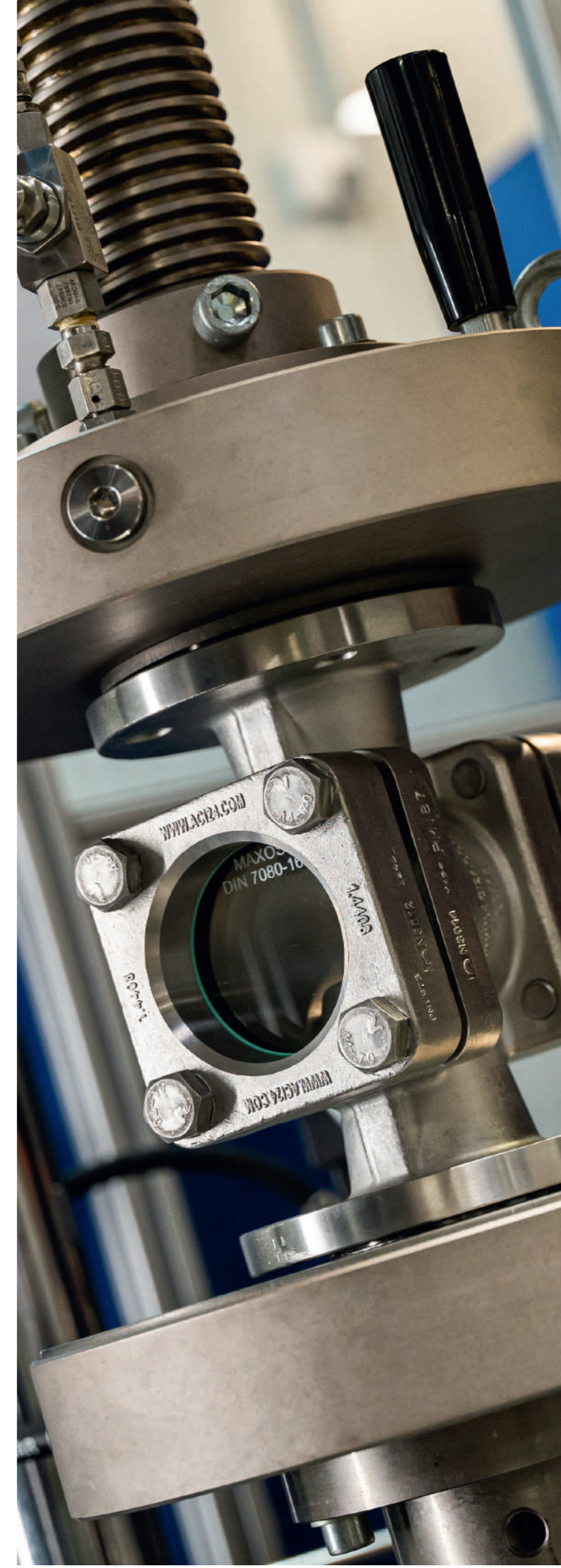
## Technical Testing and Certifications – **Safety is no coincidence.**

That's why the Type 550 has been thoroughly tested down to the last detail. Our design and engineering calculations were reviewed and approved as part of a design inspection by TÜV SÜD Industrie Service GmbH. This independent verification confirms full compliance with all relevant standards and safety regulations.

In addition, an extensive series of tests was carried out:

- X-ray inspection in accordance with DIN EN 12681-1 to the required extent of the AD 2000 W5 Code.
- 100% PT testing of all cast components in accordance with DIN EN ISO 3452-1.
- 100% leak test in accordance with DIN EN 12266-1.
- 100% resistance test against intracrystalline corrosion in accordance with DIN EN ISO 3651-2, Method A.
- 100% PMI (Positive Material Identification)
- Tensile testing at room temp & +400 °C in accordance with DIN EN ISO 6892-1/2.
- Impact testing at -196 °C in accordance with DIN EN ISO 148-1.

These tests make the Type 550 sight glass one of the most documented and reliable product in its class.



# FLOW SIGHT GLASS

TECHNICAL SPECIFICATIONS

## TYPE 550



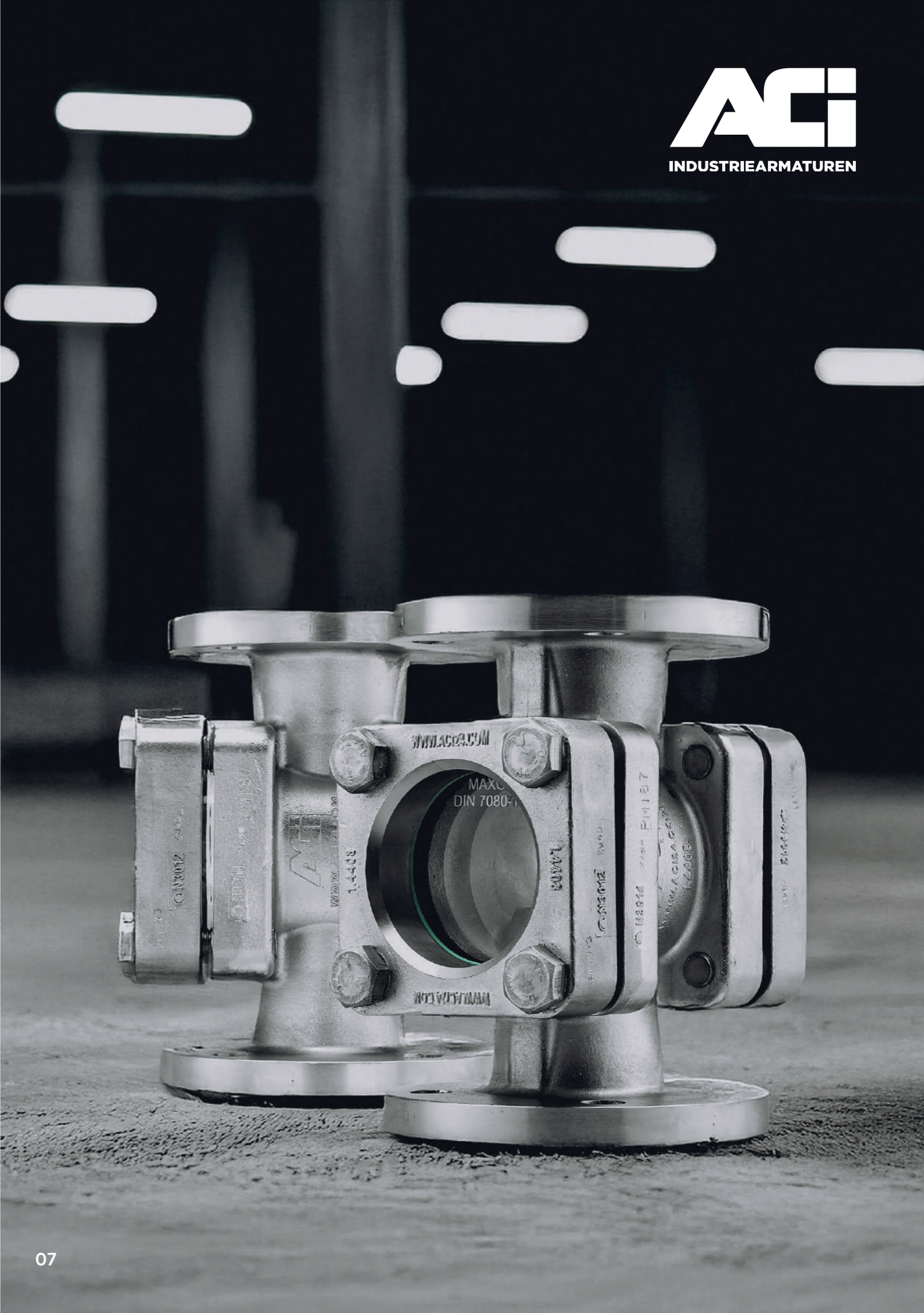
- All fastening bolts are made of stainless steel A2-70 or A4-70.
- Stainless steel nameplates with serial number, year of manufacture, and operating limits ensure clear traceability and a high level of operational safety.

Nominal sizes	DN15–DN200
Pressure ratings	PN10–PN40
Materials	Stainless steel 1.4408 / Special materials on request
Glass plates	Borosilicate glass (DIN 7080) Soda-lime glass (DIN 8902) Metaglas® (DIN 7079)
Connection	Flange in accordance with DIN EN 1092-1
Structural length	in accordance with EN 558 – Basic Series 1
Manufactured according to	PED 2014/68/EU AD 2000 A4 Code
Temperature range	–196 °C to +400 °C (depending on seal and type)
Vacuum capability	–0.998 bar, tested at 2 mbar absolute with novaflon® 500

### ACI sight glasses have the following quality features:

- Strength testing by TÜV SÜD Industrie Service GmbH in accordance with AD 2000.
- In-house manufacturing approved according to ISO 9001:2015 and PED 2014/68/EU (Module H)
- All cast components produced via precision casting, by foundries certified in accordance with ISO 9001:2015, AD 2000 W0, and PED 2014/68/EU.
- All cast parts meet certified casting quality standards as per AD 2000 W5 Code.

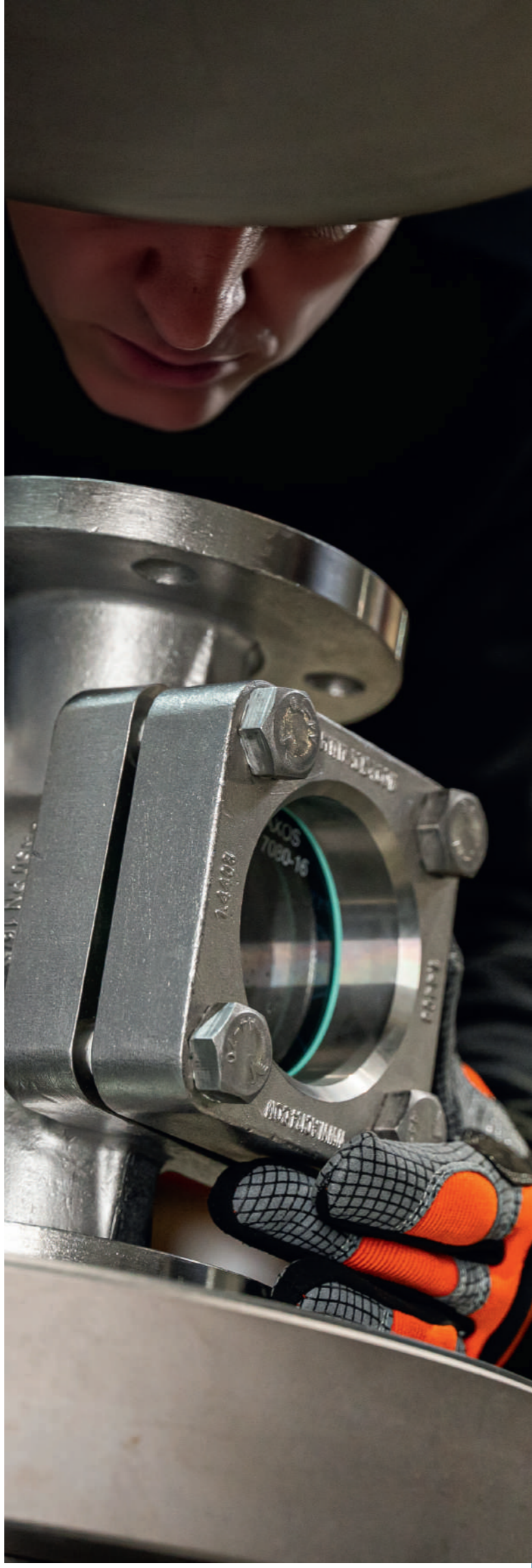
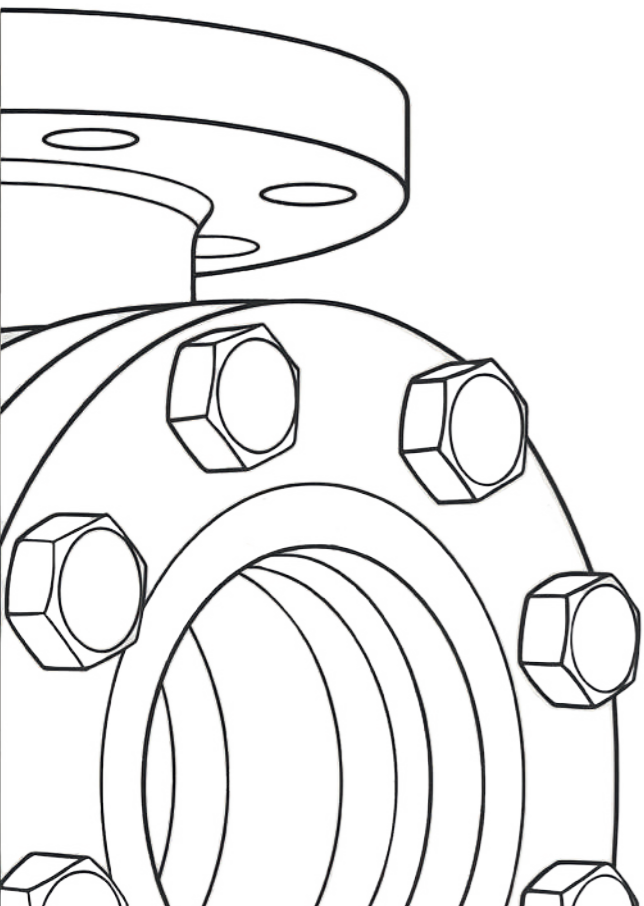
 made  
 in  
 Germany



Why is the ACI Type 550 made by ACI Industriearmaturen GmbH the smarter choice?

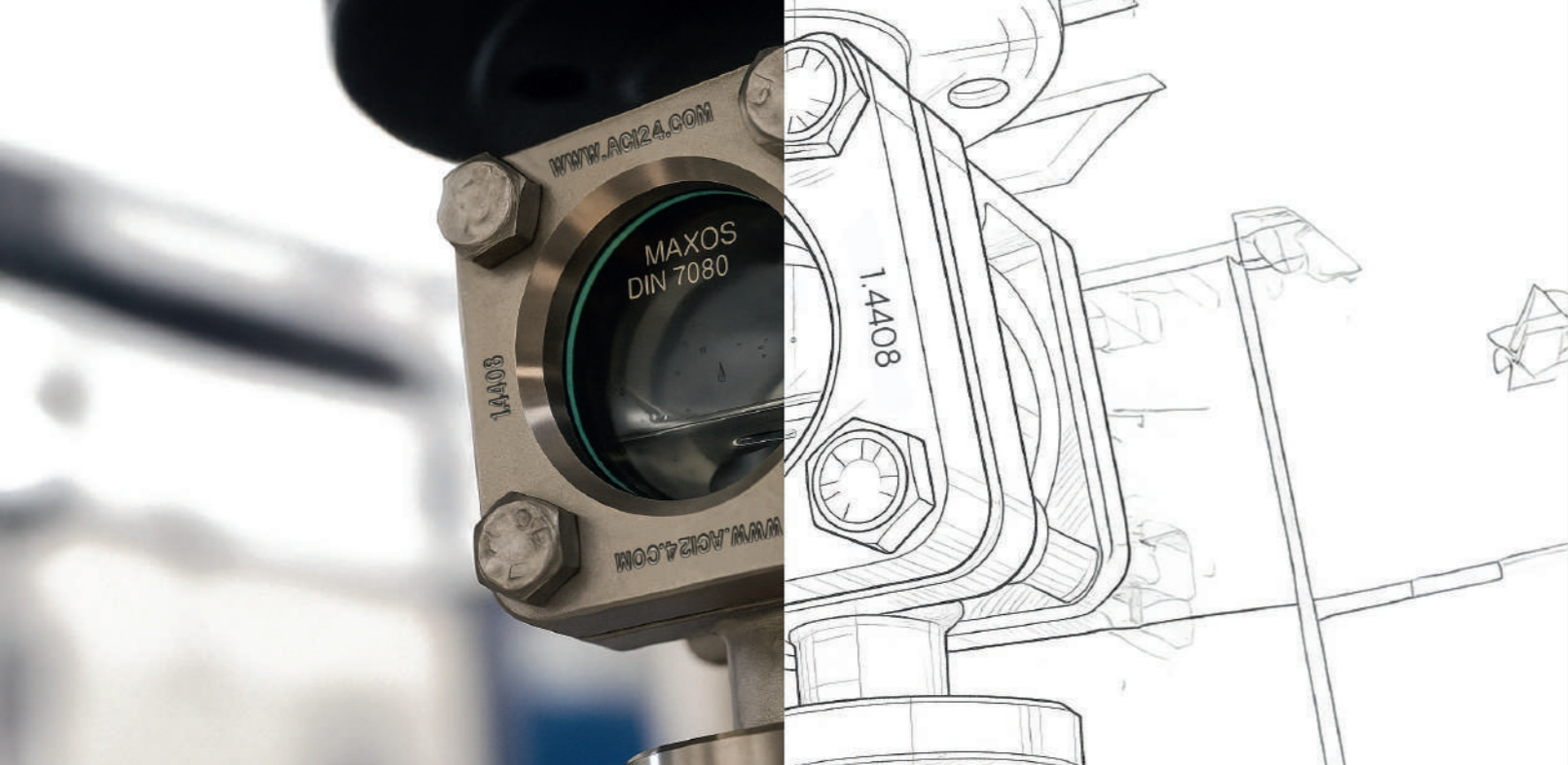
Whether you're dealing with high pressures, extreme temperatures, or aggressive media – the Type 550 ensures precise process monitoring and reliable operational safety. Robust. Versatile. Immediately available – because every detail matters.

Feature	ACI Type 550
Delivery time	3–5 days
Vacuum tested	✓
Temperature range	–196 °C to +400 °C
Optional accessories	Wide range
PED design (Module H)	✓



Our experienced team in Jülich is available during business hours to provide you with free expert advice. Benefit from our technical know-how and receive personalized consultation tailored to your needs. Contact us by phone, email, or via our online contact form.

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## For specific applications, ACI offers a **wide range of accessories** for the Type 550 sight glass:

The Type 550 is available with various accessories and can be individually configured to meet your requirements:

- **Halar® coating:** Provides additional protection against chemical attack.
- **FEP coating:** Offers resistance to chemical exposure, features anti-adhesive properties, and provides electrical insulation.
- **Mica shields:** Protect the glass at high temperatures and in aggressive media.
- **Lighting units:** Ensure clear visibility of the process, even under poor lighting conditions.
- **Wipers:** Ideal for applications involving particle buildup, ensuring an unobstructed view.
- **PTFE rotor:** Visualizes the flow, especially in transparent or turbid media.

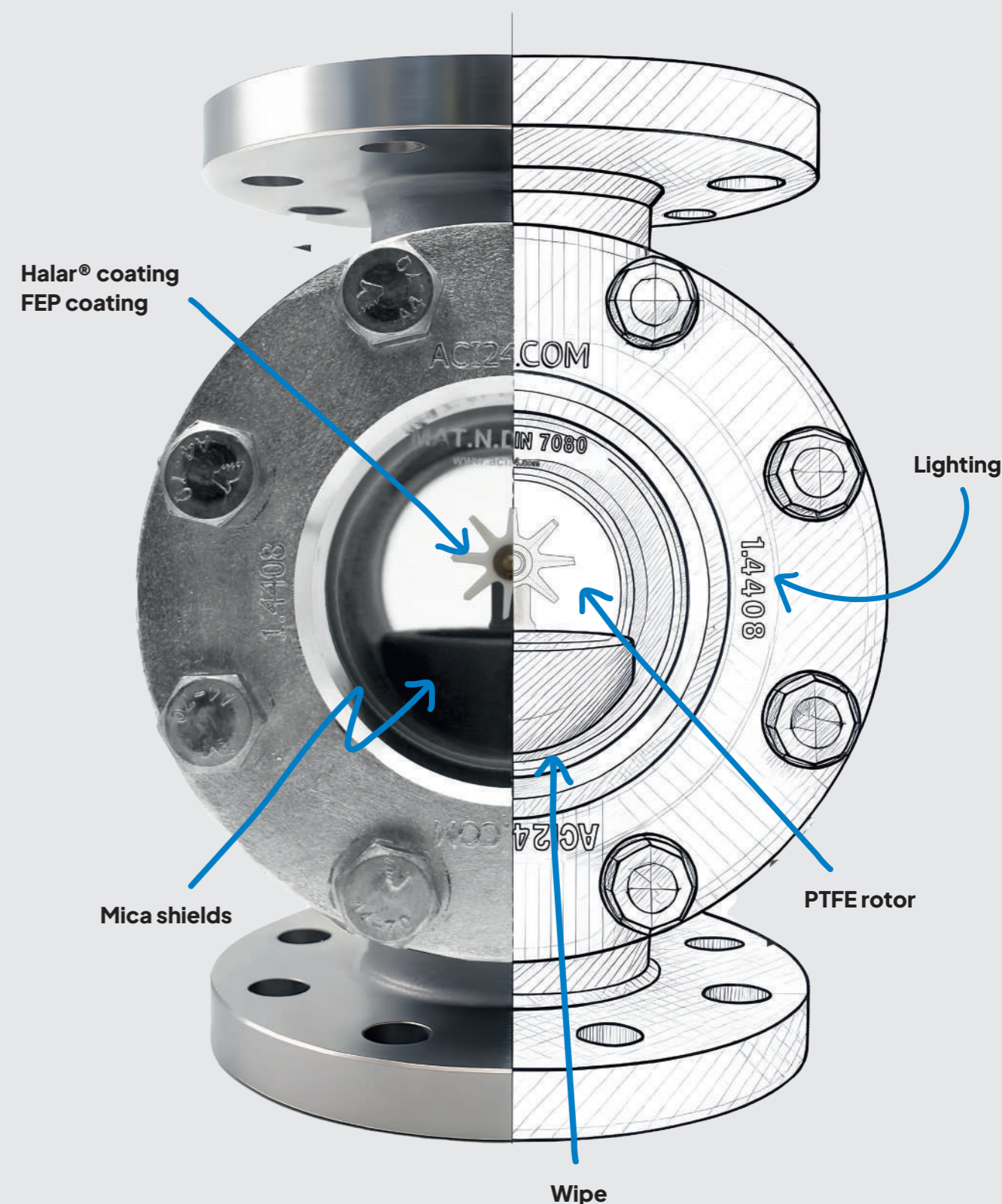
## Where is the **Type 550** used?

The Type 550 is essential wherever flows or media need to be reliably monitored – particularly in the following industries:

- Chemical and petrochemical
- Water and wastewater treatment
- Food and beverage industry
- Biotechnology and pharmaceuticals
- Plant and mechanical engineering

Its certified sealing performance, thermal resilience, and configurability make it ideal for high-demand environments.

**made for  
industry**



**YOUR CERTIFIED PARTNER FOR  
SAFE AND PRECISE PROCESS  
OBSERVATION. DEVELOPED  
TO THE HIGHEST STANDARDS  
SINCE 2008 – WHEN MAXIMUM  
QUALITY AND RELIABILITY  
MATTER MOST.**

Since 2008, ACI Industriearmaturen GmbH has stood for German engineering excellence in process observation. As a certified manufacturer under PED 2014/68/EU and DIN EN ISO 9001:2015, we specialize in the design and production of vessel and flow sight glasses.

From the chemical industry to the energy supply sector – our custom-engineered solutions ensure top quality and safety for your demanding applications. Take advantage of our technical expertise and comprehensive service.

For us, quality is not an option – it is our standard. All components are manufactured exclusively from certified premium materials specifically developed for pressure-bearing systems.

This uncompromising quality strategy, combined with our certifications according to PED 2014/68/EU and DIN EN ISO 9001:2015, ensures maximum operational safety – even under the most challenging conditions.

**ACI is  
ISO 9001:2015  
certified.**



**ACI Industriearmaturen GmbH**

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