

## Product Information

May 2022

Effects of the new TA-Luft on valves in chemical plants:

### All requirements met

**Nordheim (Germany) - May 01, 2022 - In order to be able to comply with the limit values for pollutant emissions specified in the TA-Luft amendment, both plant builders and plant operators are required to check the installed components. In the case of replacement or new plants, it makes sense to take the requirements of the new TA-Luft into account even before the end of the transition period in 2025. INEOS has therefore installed TA-Luft-compliant valves in accordance with the 2021 amendment from AS-Schneider in its new chemical plant.**

The amended Technical Instructions on Air Quality Control (TA-Luft) came into force on December 1, 2021. It sets stricter limits for pollutant emissions from plants subject to approval. The most important change in valve specifications is the adoption of the ISO 15848-1 standard, which specifies how a valve is to be tested and gives the parameters for classification. After the transition period expires in 2025, the requirements must generally meet the state of the art and thus the emission level of new plants. For plants in the planning or installation phase, care must be taken to ensure that valves, pumps, compressors or even flange connections directly comply with the specifications of TA-Luft.

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### **Chemical plant seeks valve solution**

INEOS Phenol is building a new plant for the production of cumene at the Marl Chemical Park in the Ruhr region. This is an aromatic hydrocarbon that serves as a starting product for acetone and phenol. The state-of-the-art production facility is expected to consume less energy while providing higher yields and a more environmentally friendly process. It covers an area of 16,000 square meters, produces more than 2,000 tons of cumene per day and 750,000 tons per year. Commissioning is scheduled for the end of May 2022. INEOS' cumene project must comply with the requirements of the amended TA-Luft 2021 and ISO 15848-1 for the control of fugitive emissions from valves throughout its scope.

In order to find a safe and efficient valve solution, INEOS contacted the specialist AS-Schneider as early as 2020. At the time, it was not yet common practice to manufacture valves that met the specifications of the unpublished TA-Luft amendment. The plant design required the installation of compliant closed valves with block and bleed or double block and bleed function at each pressure measurement point. The valve pressure requirements were not a problem, but a major challenge for AS-Schneider was the temperatures in the new plant, which can range from -48 to +320 degrees Celsius.

At the time, AS-Schneider had reliable and environmentally friendly valves in its product range that met the requirements of TA-Luft 2002, but only covered the temperature range from -30 to +200 degrees Celsius. Within a very short time, AS-Schneider engineers developed a special valve head unit that meets the highest tightness class A of ISO 15848-1 in the complete temperature range from -50 to +400 degrees Celsius at a nominal pressure of up to 420 bar. The valve has been externally certified by TÜV Süd.

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AS-Schneider has already been able to deliver more than 600 of these Instrument Monoflanges with the new valve head unit to plant manufacturers in the chemical industry.

**Length:** 3,326 characters including spaces

### Caption:



**Image 1:** With these Instrument Monoflanges, plant operators in the chemical industry can meet the requirements of TA-Luft 2021.

**Images by:** Armaturenfabrik Franz Schneider GmbH + Co KG

**You can download the high-resolution image [here](#).**

### About AS-Schneider

The family-run company, AS-Schneider, was founded in 1875 and with approx. 400 employees, is one of the leading manufacturers of Instrumentation and Double Block & Bleed Valves. In the market segment for Large-Bore Diesel Engine Valves such as those used in marine propulsion and the generation of electricity, AS-Schneider is even the world market leader. With our own subsidiaries in Romania, Singapore, Dubai (UAE), Houston (USA), India and professional partners in more than 20 countries worldwide, we are located everywhere our customers need us.

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