



Industrie Service

**Attestation of TA-Luft according to  
DIN EN ISO 15848-1 and VDI 2440**

**Zürcher-Technik AG  
Neumattstraße 6  
4450 Sissach  
Switzerland**

**Attestation No IS-AN5-MUC-1710-100331062-001**

We hereby confirm that we have tested and approved the ball valves of the above company regarding extended requirements in accordance with the standards VDI 2440 / VDI 3479 / DIN EN ISO 15848-1. The details of the tests are outlined in the pertinent reports.

**Product description:**

- Ball valve series A20D / AF20D / A21D
- Ball valve series 80D
- Ball valve series AF90D / AF94D / AF96D

**The product satisfies the following requirements:**

- TA-Luft (measurement of leakage) as per VDI 2440 / VDI 3479
- Leakage test as per DIN EN ISO 15848-1 [ $\lambda \leq 1 \cdot 10^{-4}$  mbar $\cdot$ l $\cdot$ s $\cdot$ m $\cdot$ l]
- Visual verification of the required contact pressure set forth in the operating manual
- Specified gasket construction
- Vacuum method: Helium / Annex A (ISO 15848-1:2015)
- Operation cycles: 60.500
- Ageing temperature: 100 °C

**Performance category:**

A20D/AF20D: ISO FE BH-CO61-SSA 0-t (-40 °C, 200 °C)-PN100/PN125  
 A21D: ISO FE BH-CO61-SSA 0-t (-40 °C, 200 °C)-PN50  
 80D: ISO FE BH-CO61-SSA 0-t (-40 °C, 200 °C)-PN40  
 AF90D/AF94D/AF96D: ISO FE BH-CO61-SSA 0-t (-40 °C, 200 °C)-PN40

The product meets the requirements for leakage measurement defined in section 5.2.6.4 of the TA-Luft standard. The leakage was determined by the overpressure method (B3) and with the testing medium helium.

The certificate is based on the test programme for leakage measurement in accordance with VDI 2440 / VDI 3479 / EN ISO 15848-1, which covers leakage measurement of sealing systems for compliance with the specific leakage rate in accordance with EN ISO 15848-1 [ $\lambda \leq 1 \times 10^{-4}$  mbar $\cdot$ l $\cdot$ s $\cdot$ m $\cdot$ l] under the above conditions.

**This certificate is valid until October 2020.**

Munich, 9th October 2017

TÜV SÜD Industrie Service GmbH  
Institute for Plastics

b. o. Schweizer

