



## Attestation of the leakage rate according to TA-Luft

Attestation-No IS-AN5-MUC-2309-100331062-001

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

We hereby confirm that the ball valves of the above-mentioned company have been tested for leaks in accordance with

- TA-Luft (08/2021), § 5.2.6.4
- DIN EN ISO 15848-1 (2015/2017)
- VDI 2440 (11/2000)

and reviewed and approved in accordance with TA-Luft. Details can be found in the corresponding test reports.

The product meets the following requirements for the test medium helium under the maximum permissible operating conditions defined by the manufacturer:

Leak tightness or compliance with the specific leakage rate as defined by TA-Luft

$$\leq 1 \cdot 10^{-4} \text{ mbar} \times \text{l} \times \text{s}^{-1} \text{ m}^{-1} \text{ and } \leq 0,01 \text{ mg} \times \text{s}^{-1} \text{ m}^{-1}$$

Compliance and assessment in accordance with the requirements of TA-Luft

$$\text{housing seal: } \leq 50 \text{ ppmv}$$

$$\text{classification in the tightness class: BH } \leq 10^{-4} \text{ mg} \times \text{s}^{-1} \text{ m}^{-1}$$

tested and approved according to DIN EN ISO 15848-1.

### Product description:

- KH series ball valves (stem seal with O-ring)
- Ball valve series A20D / AF20D / A21D / A20
  - Ball valve series A80D / AF81D
  - Ball valve series AF90D / AF94D / AF95D / AF96D
  - Body material: Stainless steel body / carbon steel body
  - Seal design: Shaft seal with O-ring
  - Nominal sizes DN 08 - DN 150, 1/4" - 6"
  - Number of switching cycles: 60.500



**The product receives the performance category:**

KH series ball valves (stem seal with O-ring)  
Nominal sizes DN 08 - DN 150, 1/4" - 6"

A20	ISO FE BH-CO61-SSA 0-t (-40 °C, 200 °C)-PN125/PN100
A20D/AF20D:	ISO FE BH-CO61-SSA 0-t (-40 °C, 200 °C)- PN100/PN125/PN64/PN25
A21D:	ISO FE BH-CO61-SSA 0-t (-40 °C, 200 °C)-PN50
A80D/AF81D:	ISO FE BH-CO61-SSA 0-t (-40 °C, 200 °C)-PN16/PN40
AF90D/AF94D/AF96D:	ISO FE BH-CO61-SSA 0-t (-40 °C, 200 °C)-PN16/PN40
AF95D	ISO FE BH-CO61-SSA 0-t (-40 °C, 200 °C)-Class 150
C061:	60.500 mechanical cycles
SSA0:	Number of stalkings 0
Temperature classes:	-40 °C bis 200 °C
Nominal pressure:	according to operating instructions pressure / temperature diagram

Management instructions for the installation, testing and maintenance of sealing systems. Type testing in accordance with guideline DIN EN ISO 15848-1.

The certification is based on the test program of TA-Luft (08/2021) and DIN EN ISO 15848-1. This certificate includes proof of the tightness/leakage rate of the housing seals and the switching shaft seals.

**This attestation is valid until September 2026.**

Munich, 2023-09-11

TÜV SÜD Industrie Service GmbH  
Institute for Plastics

  
i. A. Schweizer

