BESCHEINIGUNG ◆ ATTESTATION ◆ 证明书 ◆ СВИДЕТЕЛЬСТВО ◆ CONSTANCIA ◆ ATTESTAZIONE

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-2010-100331062-001

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 [$\lambda \leq 1*10^{-4}$ mbar*l*s^{-1}*m^{-1}]
- Leakage test as per DIN EN ISO 15848-1 [$\lambda \leq 1{,}78*10^{-6}$ mbar*l*s^{-1}*mm^{-1}]
- 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)-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

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.

This attestation 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*l *s^{-1}*m^{-1}] under the above conditions.

This attestation is valid until October 2023.

Munich, 14th October 2020

TÜV SÜD Industrie Service GmbH
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