

AMTEC Advanced Measurement Messtechnischer Service GmbH

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CERTIFICATE

No. 30432701E/SW/20.05.2022

The valve with the brand name

butterfly valve KNA 804974 DN150 / PN25/40

of the manufacturer

müller quadax GmbH DE – 74670 Forchtenberg

was tested according to DIN EN ISO 15848-1 (dated Jul.17). The following sealing systems were used:

shaft sealing(s):

- 5 pcs. BüraTAL-Flex 6070; material: graphite; manufacturer: EagleBurgmann; dimensions: Ø 40 x Ø 32 x 4 mm,
- 4 x 7 pcs. Bellow springs DIN 2093-A; material: 2.4669; supplier: Febrotec Federn; dimensions: Ø 16 x Ø 8.2 x 0.9 x 1.25 mm.

body sealing(s):

 1 pc. Statotherm P 9591/P; material: pure graphite; manufacturer: EagleBurgmann; dimensions: 64 x 50 x 0.5 mm.

In the laboratory of amtec a test with the test no. 22-256 was conducted under the following test conditions:

endurance class: CO3 isolating valve RT / 260 °C test temperatures: 25/24 test pressures: bar medium: He BH tightness class: mechanical cycles: 2500 pcs. ° (rotation) 90 shaft movement: shaft diameter Do: 32 mm number of shaft seal adjustments (SSA): 0 pcs.

The maximal leak rate measured with the helium leak detector during the test with 2500 mechanical cycles and 4 thermal cycles was 5.2 · 10⁻⁵ mg/(s·m) for the shaft sealing. The concentration for the body sealing was less than 50 ppmv.

The performance class of the tested valve is:

ISO FE BH - CO3 - SSA 0 - t200 °C (260 °C) - (25/24 bar) - ISO 15848-1

This qualification may be transferred to untested valves with a shaft diameter of $D_0 / 2 \le D \le 2 \cdot D_0$, provided that the criteria listed in Chapter 8 of DIN EN ISO 15848-1 are met. This certificate is valid only in connection with the test report 3043271/- and the boundary conditions listed therein.

amtec Advanced Measurement Messtechnischer Service GmbH

Lauffen, May 25th, 2022

Dipl.-Ing. S. Weiler

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