

Confirmation

No. 30465302E/SW/30.09.2022

The valve with the brand name

**LCV cryogenic ball valve
DN25/PN40**

of the manufacturer

**m-tech gmbh
DE – 74670 Forchtenberg**

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was tested according to DIN EN ISO 15848-1 (dated July 2017). The following sealing systems were used:

Dynamic sealings at the shaft:

- 1 pc. Spring; material: stainless steel,
- 4 pcs. Chevron seals; material: PTFE,
- 1 pc. Compression ring; material: PTFE.

Static sealings:

Body:

- 2 pcs. Sealing body; material: PTFE,
- 1 pc. Sealing extension; material: PTFE.

End connection:

- 2 pcs. Conical nipple; material: stainless steel,
- 2 pcs. Union nut; material: stainless steel.

The performance class of the tested valve is:

ISO FE BH – CO3 – SSA 0 – t-196 °C – (40/40 bar) – ISO 15848-1

The TA Luft (dated December 2021) Chapter 5.2.6.4 shut-off and control valves requires for pressures of ≤ 40 bar and design temperatures of ≤ 200 °C the leak rate LB ($\leq 10^{-4}$ mg/(s·m)) referred to the stem circumference. Due to the reached performance class with the tightness class BH the tested valve is in compliance with the requirements of the TA Luft (dated December 2021).

This confirmation is valid only in connection with the test report 3046531/- and the boundary conditions listed therein.

amtec Advanced Measurement Messtechnischer Service GmbH

September 30th, 2022

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