



## Attestation of Leakage Rate

Nr. IS-AN5-MUC-2512-10188980-012



**Gebr. Müller Apparatebau GmbH & Co. KG**  
**Fritz-Müller-Straße 6 - 8**  
**74653 Ingelfingen**

Hereby, it is confirmed membranes listed below from the named company have been tested and approved in accordance with TA Luft (11/2021). Details can be found in the corresponding test reports.

### Product description Diaphragm valve type 650:

Flange on drive side:	Stainless steel
Body designs:	Stainless steel
Diaphragm:	EPDM diaphragm Kz.19
Nominal diameter:	≤ DN 150
Diaphragm:	Kz.19-ISO FE – EPDM – BH – PS 10 bar* – ISO 15848-1
	* according to data sheet
Cycles:	400,000 mechanical cycles (full stroke)
Readjustments:	Number 3
Temperature classes:	according to operating instructions / data sheets and pressure / temperature classification for plastics

### The product meets the requirements:

The diaphragm valve with diaphragm quality code 19 achieves a specific leakage rate of  $2.8 \cdot 10^{-5}$  mg/sm at 400,000 cycles / 3 adjustments at the end of the test run and can therefore be classified in leakage class < L0.00001 in accordance with DIN EN 13555 (07/2014). Compliance and evaluation based on the requirements of TA-Luft (08/2021) with DIN EN ISO 15848-1

**Body seal: ≤ 50 ppmv**

**Classification in tightness class: BH ≤  $10^{-4}$  mg×s<sup>-1</sup> m<sup>-1</sup>**

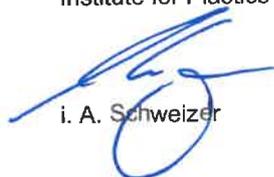
- Management instructions for the installation, testing and maintenance of sealing systems in accordance with DIN EN 1591-4 (12-2013) or VDI 2290 (06-2012)
- Type-based component testing or equivalent procedure
- Verification of the required surface pressure and tightening torques in accordance with the operating instructions
- Type testing in accordance with DIN EN ISO 15848-1

With additional proof of proper functioning under operating conditions, the sealing connection can be considered technically tight within the meaning of TA Luft (Section 5.2.6.4).

**This attestation is valid until November 2028.**

Munich, 2 December 2025

TÜV SÜD Industrie Service GmbH  
 Institute for Plastics

  
 i. A. Schweizer

