

CERTIFICATE

Nr. 30589901E/MM/07.10.2025

AMTEC Advanced Measurement
Messtechnischer Service GmbH
Hoher Steg 13
DE-74348 Lauffen
Telefon: +49 7133 9502-0
Telefax: +49 7133 9502-22
E-mail: temes@amtec.de
Internet: www.amtec.eu

customer:

NEUMO GmbH + Co.KG
DE – 75438 Knittlingen

The sealing system mentioned below with the designation Clamp Connection BioConnect was tested according to the requirements of TA Luft:2021 and the specifications of VCI Bauteilprüfung (2022) with regard to the proof of tightness class L0.01 according to TA Luft:

clamp socket:	Clamp Connection NEUMO BioConnect
gasket:	Greene Tweed & CO LTD O-Ring
nominal size:	DN40 / PN16
bracing elements:	M10, A2-70 screws nuts & spring washer

In the laboratory of amtec a test with test number 25-734 was carried out under the following conditions and produced the following results:

Assembly:	20	Nm	
Exposure temperature / duration:	150	°C	48 h
Re-tightening required:		no	
Remaining gasket stress (Dissassembly):	-	MPa	
Test pressure (absolute) / medium:	16	bar	Helium
Measuring times:	22/24	h	

The leak rates measured with a helium leak detector at the end of the measurement period were:

L ₁	1.3 · 10 ⁻⁵ mg/(s·m)	after Assembly
L ₂	1.1 · 10 ⁻⁴ mg/(s·m)	after temperature exposure

The leakage criterion of the TA Luft of 1.0 · 10⁻² mg/(s·m) was not exceeded in the relevant measurement L₂ / L₄. The Clamp connection BioConnect is considered a tight clamp connection in accordance to TA Luft: 2021.

This certificate is valid only in connection with the test report 3058992/- and the boundary conditions listed therein.

amtec Advanced Measurement Messtechnischer Service GmbH Lauffen, September 25th 2025



B. Eng. M. Metzger
Project Engineer



Dipl.-Ing. F. Herkert
Head of Laboratory