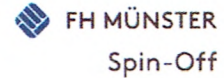


TEST CERTIFICATE



Test certificate Z-230227003-4 KRASO® Sealing Insert Universal 150 DD/T

KRASO GmbH & Co. KG
Baumannweg 1
46414 Rhede



Certificate

The aforementioned sealing insert was tested in accordance with the requirements of TA Luft:2021 and the specifications of the VCI component test (2019-09) with regard to compliance with tightness class L0.01. The examination was conducted with the following material specifications and boundary conditions:

Test specimen:	Sealing Insert KRASO® Universal 150 DD/T, nominal diameter DN150 Article number: KDIUNGI150
Seal:	EPDM, Shore hardness A 50 ± 5
Clamping elements:	Clamping plates, washers and bolts made of V2A stainless steel with torque control nut DKM
Storage:	T _{test1} : 23 °C during 48h
Test medium:	Helium
Test pressure:	3 bar

The subsequent leak measurement at room temperature, using a helium mass spectrometer, at a test differential pressure of 3 bar, showed a leakage of:

Leakage after storage (L₂): 1.2 · 10⁻⁶ mg/(s·m)

The TA Luft leakage criteria of 1.0 · 10⁻² mg/(s·m) were not exceeded in the relevant test L², the aforementioned sealing insert is therefore considered high quality within the meaning of TA Luft.

The issue of this certificate is based on a test, for which the results and boundary conditions are documented in test report no. 230227003-4.

M. Reppien (management)
Steinfurt, 31/05/2023

certified as true translation
of the original
PTS GmbH
1A, rue de la Laiterie
L-9910 Troisvierges
www.pts.lu

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