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# Certificate

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## Z-16041401-2

The flat gasket type  
**JP 2**

of the manufacturer  
**revoseal Europe GmbH**  
**Industriestr. 1**  
**50259 Pulheim**  
**Germany**

has been tested in compliance with TA Luft in accordance with the VDI-guideline 2200 (2007-06) by the Company GAIST. The test was verified in a first time test with following test conditions:

Initial gasket thickness:	4.2 mm
Test flange:	DN40/PN40, EN1092-1, form B, type 11, welding-neck, 1.4571
Initial gasket stress:	30 MPa*
Thermal storage temperature:	400 °C
Thermal storage duration:	48 h
Test conditions:	23 °C

\*in relation to the compressed area of EN1514-1 gasket: 88 x 49 mm, 4196 mm<sup>2</sup>

The leak rate, measured at room temperature, with a helium mass spectrometer and a differential pressure of 1 bar resulted in a leak rate of:

$$6.4 \cdot 10^{-11} \frac{\text{mbar} \cdot \text{l}}{\text{s} \cdot \text{m}}$$

Residual gasket stress ( $Q_R$ ): 24 MPa\*

\*in relation to the compressed area of EN1514-1 gasket: 88 x 49 mm, 4196 mm<sup>2</sup>

The maximum acceptable leak rate of  $1.0 \cdot 10^{-4} \frac{\text{mbar} \cdot \text{l}}{\text{s} \cdot \text{m}}$  according to VDI-guideline 2440 (2000-11) has not been exceeded. The above-mentioned gasket is in accordance with TA Luft.

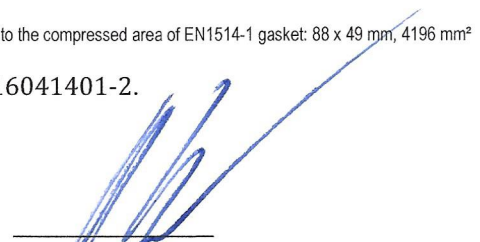
The blowout safety test in accordance to VDI-guideline 2200 resulted for

Test step 1 at $Q_R$ :	60 bar, no blowout
Test step 2 at 5 MPa* ( $Q_{\min}$ ):	60 bar, no blowout

\*in relation to the compressed area of EN1514-1 gasket: 88 x 49 mm, 4196 mm<sup>2</sup>

This test certificate is only valid in combination with the test report 16041401-2.

Steinfurt, 2016-09-15

  
**M. Reppien**  
Managing Director