

CERTIFICATE

No. 30276903E/FH/04.12.15

In accordance with the VDI Guideline 2440 (edition November 2000) the compliance with the tightness criteria of the type of packing set

amtec Services GmbH Hoher Steg 13 D - 74348 Lauffen Tel.: +49 7133 9502-0 Fax: +49 7133 9502-22 E-mail: info@amtec.de Internet: www.amtec.de







Montero MG 1000 R consisting of 5 packing rings

of the packing manufacturer

MONTERO FyE S.A. Building Innobak, C/Ugartebeitia, n°7 - 2ª Floor Dpto., E - 48903 BARACALDO - VIZCAYA

was verified in a first-time test under the following test conditions:

predeformation: 2 x 70 MPa prestress: 50 MPa geometry: 56x40x40 mm temperature of packing: °C 300 number of stem cycles: 1000 stroke: 40 mm test pressure (absolute): 40 bar test medium: Helium period of leakage measurement: 24

The leak rate measured with the Helium leak detector at the end of the period of the leakage measurement was

 $2.7 \cdot 10^{-5} \text{ mbar} \cdot \text{l/(s} \cdot \text{m)},$

therefore the packing set is in compliance with the tightness criteria of VDI 2440 of $1.0\cdot10^{-2}~mbar\cdot l/(s\cdot m)$ for tests at a temperature higher than 250 °C and can be regarded as a high-grade sealing system for the purposes of TA-Luft.

This certificate is only valid in combination with the test report 3027692/-.

Lauffen, December 04, 2015

amtec Messtechnischer Service GmbH

Dipl. Ing. F. Herkert



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E - 48903 BARACALDO - VIZCAYA

was verified in a first-time test under the following test conditions:

MPa 2 x 70 predeformation: 50 MPa prestress: geometry: 56x40x40 mm °C temperature of packing: 200 number of stem cycles: 500 stroke: 40 mm 40 test pressure (absolute): bar test medium: Helium period of leakage measurement:

The leak rate measured with the Helium leak detector at the end of the period of the leakage measurement was

 $7.3 \cdot 10^{-6} \text{ mbar} \cdot \text{l/(s} \cdot \text{m)},$

therefore the packing set is in compliance with the tightness criteria of VDI 2440 of $1.0\cdot10^{-4}$ mbar · I/(s · m) for tests at a temperature lower than 250 °C and can be regarded as a high-grade sealing system for the purposes of TA-Luft.

This certificate is only valid in combination with the test report 3027692/-.

Lauffen, December 04, 2015

amtec Messtechnischer Service GmbH

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