



Tests on Stuffing Box Packings according to TA Luft, API 622 and user defined procedures

RANGE OF SERVICES

Issue: January 2022

Compression Test

- Packing ring \varnothing 60 x 80 x 10 mm
- Determination of the compressibility of a packing ring
- Determination of the transmission factor K_{inner} and K_{outer}

Friction Test

- Packing geometry:
 - \varnothing 28.2 x 19 mm or
 - \varnothing 38.1 x 25.4 mm or
 - \varnothing 48 x 32 mm or
 - \varnothing 56 x 40 mm (standard)** or
 - \varnothing 75 x 55 mm (max stress. 50 MPa)
- Assembly
- Prestressing regarding to customers specification
- Heating up to max. 400 °C
- 100 stem cycles at elevated temperature
- Determination of the friction factor μ^*k

Leakage Test

- Packing geometry:
 - \varnothing 28.2 x 19 mm or
 - \varnothing 38.1 x 25.4 mm or
 - \varnothing 48 x 32 mm or
 - \varnothing 56 x 40 mm (standard)** or
 - \varnothing 75 x 55 mm (max stress. 50 MPa)
- Assembly
- Prestressing regarding to customers specification
- Leakage test 24 hours, medium Helium, internal pressure level of max. 160 bar



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Packing test according to VDI 2440 (dated 2021)

Standard leakage test

- **Packing geometry**
 - Ø 28.2 x 19 mm or
 - Ø 38.1 x 25.4 mm or
 - Ø 48 x 32 mm or
 - Ø **56 x 40 mm (standard)** or
- Assembly
- Prestressing regarding to customers specification
- Functional testing (short leakage test with test medium)
- Heating up to max. 400 °C
- 100 stem cycles at elevated temperature
- Leakage test 24 hours, medium Helium, internal pressure level of max. 160 bar
- Cooling-down to ambient temperature

Packing test TA Luft (dated 2021)

Leakage test according to ISO 15848-1, CO1

- **Packing geometry**
 - Ø 28.2 x 19 mm or
 - Ø 38.1 x 25.4 mm or
 - Ø 48 x 32 mm or
 - Ø **56 x 40 mm (standard)**
- Assembly
- Prestressing regarding to customers specification
- Functional testing (short leakage test with test medium)
 - (1) Preliminary test at RT: Leakage measurement
 - (2) 50 mechanical cycles at RT, leakage measurement
 - (3) Adjust test temperature, leakage measurement
 - (4) 50 mechanical cycles at test temperature, leakage measurement
 - (5) Cooling down to RT, leakage measurement
 - Repeat steps (2) to (4)
 - (6) Cooling down to RT, 5 mechanical cycles at RT, leakage measurement
- Medium Helium, internal pressure level of max. 160 bar



amtec



Deutsche
Akkreditierungsstelle
D-PL-12008-01-00

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Options

- Additional 100 stem cycles
- Additional Temperature up to max. 400 °C
- Additional leakage test > 12 hours, medium Helium
- Additional charge medium nitrogen
- Additional charge medium methane

- Leakage test according to ISO 15848-1, CO₂
- Leakage test according to ISO 15848-1, CO₃



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Packing Testing according to API 622 (dated October 2018)

A Fugitive Emission Test

- Packing geometry
 - Ø 28.2 x 19 mm or
 - Ø **38.1 x 25.4** mm or
 - Ø 48 x 32 mm or
 - Ø 56 x 40 mm or
 - Ø 75 x 55 mm (max stress. 50 MPa)
- Assembly
- Prestressing regarding to customers specification
- Duration: 6 days
- Per day: 1 Temperature cycle – 125 stem cycles at RT, 125 stem cycles at T, 1 pressure cycle, leakage measurement every 50 stem cycles
- Medium: Methane

B Corrosion Test

- Corrosion test at RT, packing stress 30 MPa, duration 28 days
- Corrosion test at 150 °C, packing stress 30 MPa, water pressure: 45 bar, duration 35 days

C Packing Materials Test

A test report or a certificate is charged in addition.

For high quantity tests, please call for special prices.

Special tests, leakage tests and long term tests on request.

The prices are FCA Lauffen without packing excluding VAT and customs. Subject to change.

The range of services offered as part of the accreditation of the test laboratory can be found in the annex to the accreditation certificate. Within the flexible accreditation areas marked in the appendix to the accreditation certificate, the test laboratory is permitted to use the standardized test procedures with variable issue dates, assumed that the measuring principle is already included in the scope of accreditation.