



amtec

**Tests of stuffing box packings
according to VDI 2440, API 622
and user defined procedures**



Determination of packing characteristics

SERVICE OFFER

valid from 2013-08

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 41 x 25 mm or
 - \varnothing 48 x 32 mm or
 - \varnothing 56 x 40 mm (standard) or**
 - \varnothing 75 x 55 mm
- 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 41 x 25 mm or
 - \varnothing 48 x 32 mm or
 - \varnothing 56 x 40 mm (standard) or**
 - \varnothing 75 x 55 mm
- 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 November 2000)

Standard leakage test

- **Packing geometry**
 - Ø 28.2 x 19 mm or
 - Ø 41 x 25 mm or
 - Ø 48 x 32 mm or
 - Ø 56 x 40 mm (standard) or
 - Ø 75 x 55 mm (max stress. 50 MPa)
- 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

Options

- Additional 100 stem cycles
- Additional Temperature up to max. 400 °C
- Additional leakage test 24 hours, medium Helium
- Additional charge medium nitrogen
- Additional charge medium methane



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Packing Testing according to API 622 (dated October 2011)

A Fugitive Emission Test

- Packing geometry
Ø 28.2 x 19 mm or
Ø 41 x 25 mm or
Ø 48 x 32 mm or
Ø 56 x 40 mm (standard) or
Ø 75 x 55 mm
- 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

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