



## Tests on Stuffing Box Packings according to VDI 2440, API 622, and user defined procedures

**SERVICE OFFER**

Issue: January 2020

### 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  $\mu^*k$

### 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 November 2000)

#### 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
  - 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 > 12 hours, medium Helium
- Additional charge medium nitrogen
- Additional charge medium methane



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## Tests on Stuffing Box Packings according to VDI 2440, API 622, and user defined procedures

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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**

**Test Report**

**Certificate**

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