



Fraunhofer

TESTED[®] DEVICE

VAT Vakuumventile AG
ATM Door 076-50x336
Report No. VA 1306-653

DUPLICATE

Statement of
Qualification

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Customer: VAT Vakuumventile AG
Seelstraße 1
9469 Haag
Switzerland

Test results / Classification:
(according to ISO 14644-1)

The atmospheric door ATM Door 076-50x336 with a gate with vulcanised seal is suitable for use in cleanrooms fulfilling Air Cleanliness Class 6.

The atmospheric door ATM Door 076-50x336 with a gate with O-ring seal is suitable for use in cleanrooms fulfilling Air Cleanliness Class 6.

Component tested:

Category: Process Equipment
Subcategory: Vacuum Components
Type: Atmospheric door ATM Door 076-50x336

Random check measurements of particle emission (airborne) at representative points

Test procedure: According to VDI 2083 – 9.1, ISO 14644-1
Each standard stated refers to the version valid at the time of testing.

Measuring instruments: Optical Particle Counter:
Model LasAir II 110 with measuring channels of 0.1 µm, ≥ 0.2 µm,
≥ 0.3 µm, ≥ 0.5 µm, ≥ 1.0 µm and ≥ 5.0 µm

Test parameters of the test environment:

- Cleanroom Air Cleanliness Class (according to ISO 14644-1):..... ISO 1
- Air flow velocity:..... 0.45 m/s
- Air flow guidance:vertical unidirectional air flow
- Temperature:22 °C ± 0.5 °C (71.6 °F ± 0.9 °F)
- Relative humidity: 45 % ± 5 %

Test parameters of the test execution:

- Cycle time: 6 s
- Working pressure: 5.5 bar (ultra-pure compressed air)
- Tubing: LEGRIS-6x4-Polyurethane-Calibre-D18-387200205
..... LEGRIS-6x4-Polyurethane-Calibre-D15-329901303
- Tube length: 192 cm
- Modification 1:..... Gate with vulcanised seal
- Modification 2:..... Gate with O-ring seal

The measuring equipment used for the qualification is regularly calibrated and is based on national and international standards. In the case where no national standards exist, the measuring procedure used corresponds with technical regulations and norms valid at the time of the measurement. The documents drawn up for this procedure are available for viewing.

The validity of this certificate applies only to the mentioned product in this particular condition for a duration of 5 years.
Further information: www.tested-device.com.

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and Micromanufacturing

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Stuttgart, October 28, 2013

Place, Date

W. B. B. B.
i. A. 
Project manager