

DUDATE





Fraunhofer TESTED® DEVICE VAT Vakuumventile AG Valve 9450X-XA24-AEY1 Report No. VA 1306-653

Statement of Qualification

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Customer:

VAT Vakuumventile AG Seelistraße 1 9469 Haag Schweiz

Component tested:

Category:	Process Equipment
Subcategory:	Vacuum Components
Туре:	Vacuum Valve 9450X-XA24-AEY1

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 $0.1 \mu m$, $\ge 0.2 \mu m$, $\ge 0.3 \mu m$, $\ge 0.5 \mu m$, $\ge 1.0 \mu m$ and $\ge 5.0 \mu m$
Test parameters of the test environment:	 Cleanroom Air Cleanliness Class (according to ISO 14644-1): ISO 1 Air flow velocity:
Test parameters of the test execution:	 Cycle time:



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

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

Department Ultraclean Technology and Micromanufacturing

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The Vacuum Valve 9450X-XA24-AEY1 is suitable for use in cleanrooms fulfilling Air Cleanliness Class 5.

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

Stuttgart, October 28, 2013 Place, Date

<u>i. A.</u> Project manager