



valid until: March 25, 2031

# Fraunhofer

## TESTED<sup>®</sup> DEVICE

Norgren GmbH  
optimized VR15 Valve Island  
**Report No. NO 2511-1684**

### Single product Particle Emission in Dry-Cleanroom

### Qualification Certificate

This is to certify that the product mentioned above, provided by

**Norgren GmbH**  
Alpen, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number NO 2511-1684.

The optimized Valve Island VR15 in combination with ISO compact double acting cylinder RA/192032/M/75 was assessed in compliance with ISO 14644-14 and VDI-EE 2083 Part 4.3. When operated under the specified test conditions (room temperature of  $22\text{ °C} \pm 1\text{ °C}$ ; dew point:  $-40\text{ °C} \pm 5\text{ °C}$ ), it is suitable for use in dry-cleanrooms fulfilling the specifications of the following Air Cleanliness Class according to ISO 14644-1:

Test parameter(s)	Air Cleanliness Class
1 s per single stroke (0.5 Hz)	3
<b>Overall result</b>	

Please note: Transport damages, incorrect installation, oil leakage, aging behavior, corrosion etc. can influence the test result.

This document only applies to the named product in its original state and is valid for a period of 5 years from the date the first document was issued. The document can be verified under [www.tested-device.com](http://www.tested-device.com).

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

The norms stated generally refer to the version valid at the time of the tests.

DUPLICATE

NO 2511-1684  
Report No. first document

Stuttgart, March 25, 2026  
Place, date of first document issued

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Report No. current document

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Place, current date

on behalf of   
Dr.-Ing. Frank Bürger, head of business unit Testing and Certification