



Fraunhofer

TESTED[®] DEVICE

Norgren GmbH
Pneufit-E fitting E0K510838
Report No. NO 2406-1528

Single product Particle Emission 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 2406-1528.

The Pneufit-E fitting E0K510838 in combination with Integrated cylinder-valve combination (IVAC), 80mm diameter, 250mm stroke and P84C-4GT-PFN + B84G-4GK-AD3-RME + F84C-4GD-AP0 was assessed in compliance with ISO 14644-14. When operated under the specified test conditions, it is suitable for use in cleanrooms (with a dew point of $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and room temperature of $22^{\circ}\text{C} \pm 1^{\circ}\text{C}$) 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)	4
Overall result	

The test object itself is only tested for particle release. The exhaust air of the system is routed out of the clean environment during the measurements to avoid cross-contamination. The exhaust air is not measured.

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

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Report No. first document

Stuttgart, June 20, 2024
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 B rger, Project Manager Fraunhofer IPA

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.

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