

# Valairdata 4

The quickest and easiest way to verify the integrity of sterile gas filter systems.



ENGINEERING YOUR SUCCESS.



[WATCH THE VIDEO NOW](#)






## **This is peace of mind...**

Valairdata 4 has been ergonomically designed utilizing over 50 years of experience in the provision of sterile air and gas filtration solutions. It is the quickest and easiest way to verify the integrity of sterile gas filter systems.

Ensuring your production can run without contamination from airborne sources, sterile gas integrity testing helps you to meet production standards, eliminate wastage and increase profitability, for increased process control and protection.



## Fast, reliable and effortless sterile gas integrity testing

In process environments minimizing downtime and speed of production is key. Valairdata 4 provides fast and reliable filter integrity testing in-situ, with results obtained in seconds. Test filters can be introduced back into the process immediately after testing with no flushing or drying required.

Verifying a sterile gas filter's ability to provide sterility is essential to ensure your process remains secure. Valairdata 4 aerosol challenge is fully correlated to aerosolized bacterial and viral challenges and is an accurate, reliable method for detecting gas filter integrity.



## Lightweight construction for portable testing

Designed for use throughout your process, Valairdata 4 incorporates state-of-the-art technologies to enhance the benefits offered by the aerosol challenge in comparison to other sterile gas filter test methods. The lightweight, portable design and long battery life allows operators to test filters in-situ, safeguarding your process from potential contamination. Once testing is complete the results are easily transferred from the unit via a USB data stick or can be printed via the standalone printer, for easy tracking, storage and transfer of test data.



Spare battery and stand alone printer (Optional items)

## Testing made easy

Valairdata 4 is ergonomically designed with a foldable handle allowing for easy access to connection ports during testing. With multi-language menu availability, you have everything you need for portable, simple and accurate testing throughout your facility.



## Test Principles

Most integrity testing methods are time consuming and difficult to perform, however, testing with Valairdata 4 is simple. An aerosol challenge of test filters is performed with an FDA approved aerosol containing particles in the size range 0.2µm to 0.3µm, simulating an actual bacterial challenge under worst case conditions. The filtered gas is then passed through a laser particle counter and any aerosol penetration through the filter is measured and calculated as a percentage penetration. On this basis a pass or fail result is established.

Independent validation has correlated this method to aerosol challenges with *B. subtilis*, *P. aeruginosa* and MS2 coliphage according to ASTM guidelines. Any filter which passes Valairdata 4 testing is therefore capable of providing sterile gas to your process.

| Limitations of Liquid Based Tests  | Advantages of Aerosol Challenge Testing  |
|--|--|
| Long stabilization and test times.   | <b>Speed</b> – the test is much quicker than liquid based tests, with no stabilization times involved.   |
| The requirement to fully wet out the test filter with low surface tension liquid (e.g. IPA). The requirement to dry filter cartridges after testing. | <b>Efficiency</b> – in a dry gas process no flushing or drying of the test filter is required, so the filter can be returned to process immediately after testing. |
| Inaccuracies for multi-cartridge times.  | <b>Accuracy</b> – the test is more accurate for larger systems as the actual retention efficiency of the filter system is measured.                                |

To find out more visit [parker.com/V4](https://parker.com/V4)



FILCO<sup>®</sup>, spol. s r.o.  
Dvorská 464/103  
CZ-503 11 Hradec Králové  
tel.: +420 495 436 233  
[info@filco.cz](mailto:info@filco.cz),  
[www.filco.cz](http://www.filco.cz)

Váš lokální distributor Parker

© 2023 Parker Hannifin Corporation. All rights reserved. Catalogue BRO\_BEFE\_VALAIRDAT4-01

EMEA Product Information Centre  
Free phone: 00 800 27 27 5374  
(from AT, BE, CH, CZ, DE, DK, EE, ES, FI, FR, IE, IL, IS, IT, LU, MT, NL, NO, PL, PT, RU, SE, SK, UK, ZA)  
US Product Information Centre  
Toll-free number: 1-800-27 27 537  
[www.parker.com/bioscience](http://www.parker.com/bioscience)