



Revolutionizing Wearer Seal Checks with the QuantiCheck

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Positive Pressure Check



Negative Pressure Check

Introduction to Wearer Seal Checks



- Meant to confirm seal
- Not a substitute for a fit test
- Often not performed
- Performed poorly
- No record

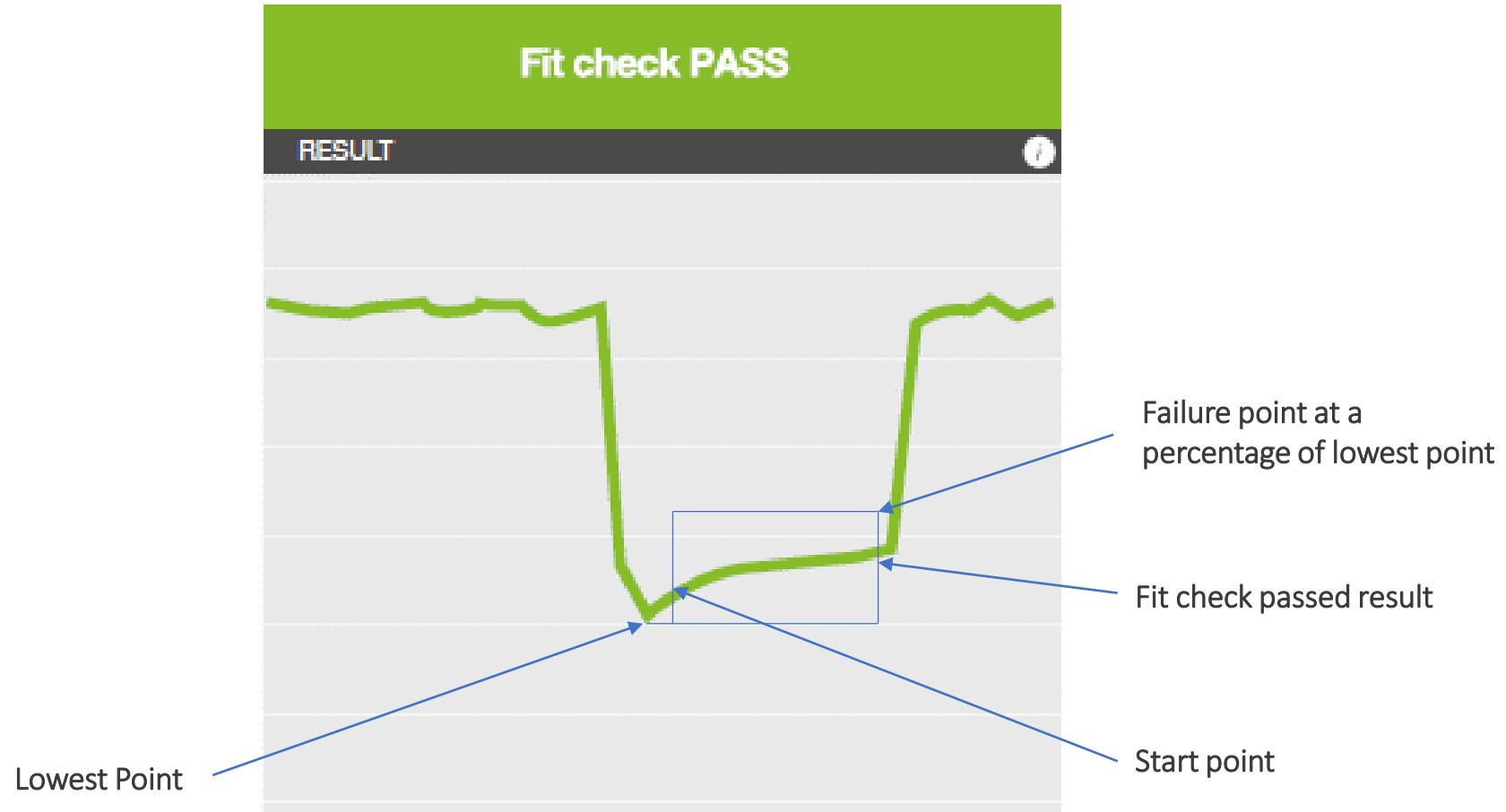
Background

Applying Tech to Checks

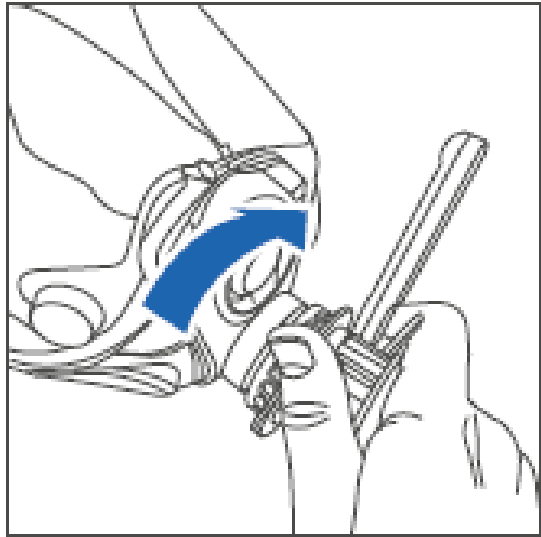
- Sensor measures pressure decay
- Static check of mask integrity and seal
- Companion app to track respirator performance



What is the QuantiCheck[®] doing?

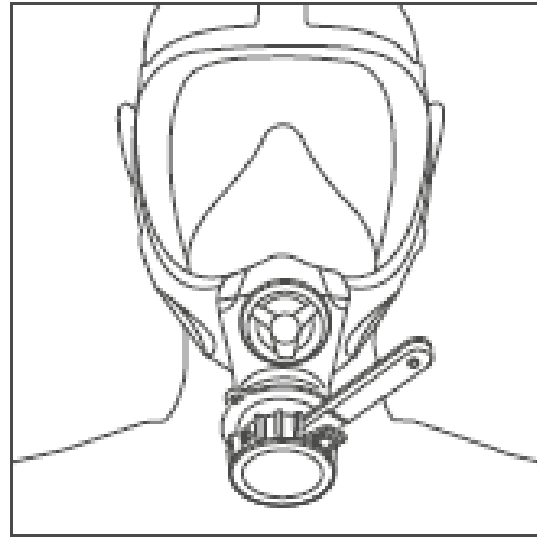


Operation



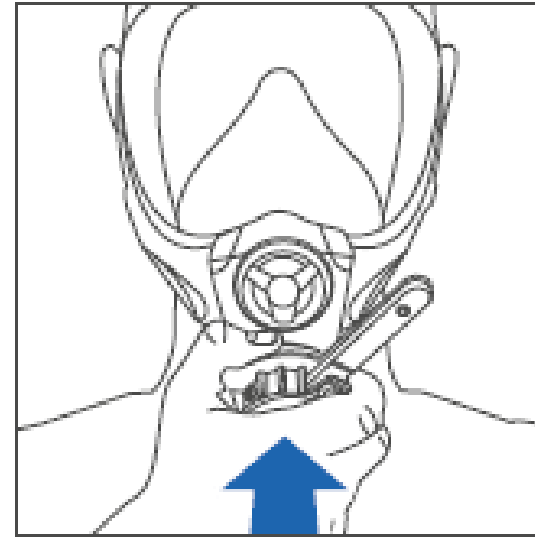
1 Attach QuantiCheck® device

Attach QuantiCheck® on to the front filter thread by turning clockwise.



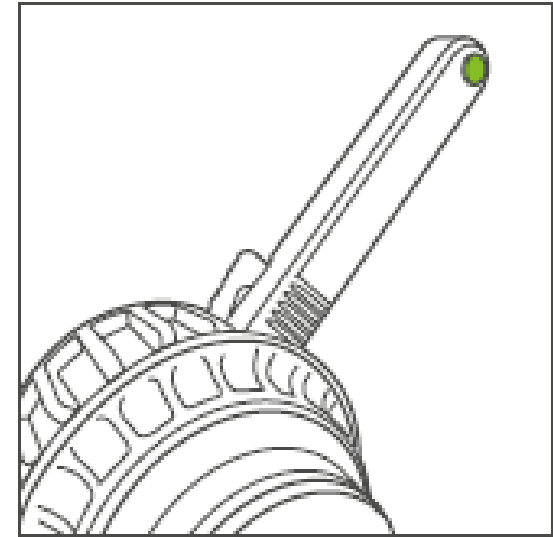
2 Don mask

Don your mask and tighten the appropriate straps.



3 Perform fit check

Squeeze or press QuantiCheck® to seal device for check. Draw a breath until the flashing purple light turns solid, at which point hold your breath static for up to 10 seconds and wait for result.

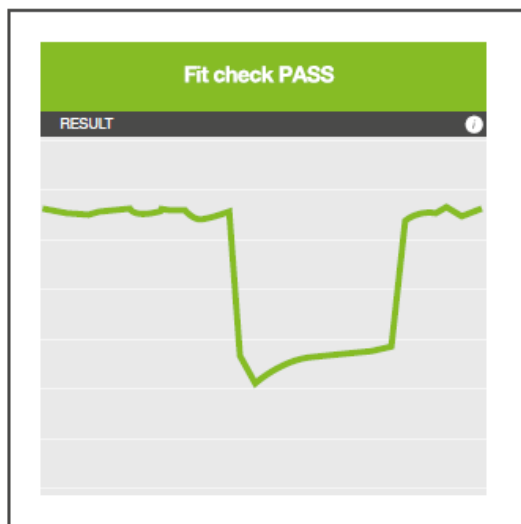


4 LED indicator - Pass and Fail

A green light illuminates on the LED indicator for a passed test. A red light illuminates on the LED indicator for a failed test. Wait until the LED indicator flashes purple signalling a retest for the fit check.

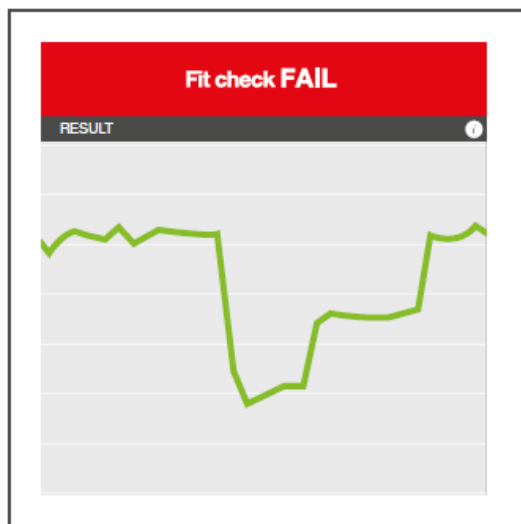
Understanding your results

QuantiCheck®



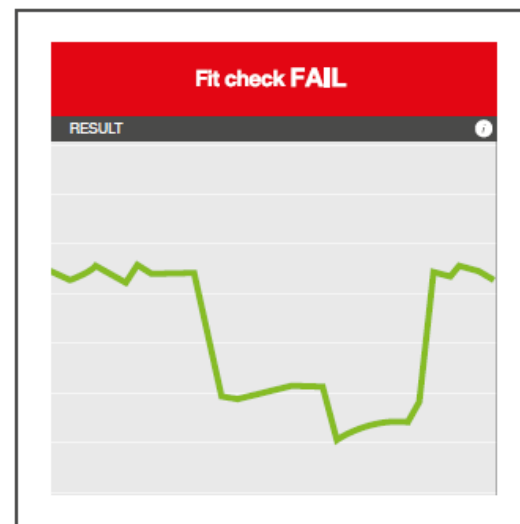
1 Passed fit check

A positive pull fit check trace line shows a single large fluctuation, followed by a gently increasing line before rising again at the end of the fit check.



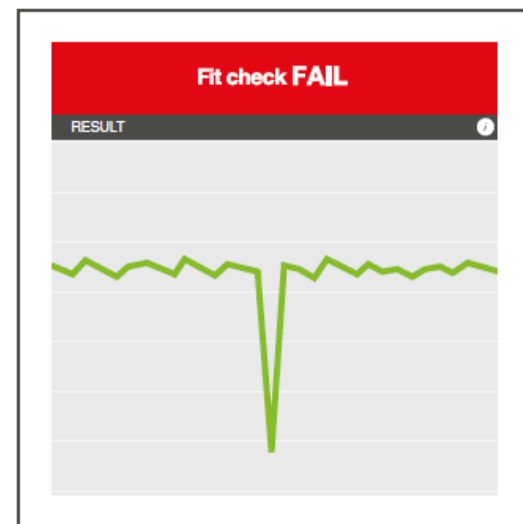
2 Damaged or leaking seal

A negative pull fit check trace line shows large fluctuations or drops rapidly when there is a leaky or damaged seal or a poorly fitted mask.



3 User in-ability to hold breath

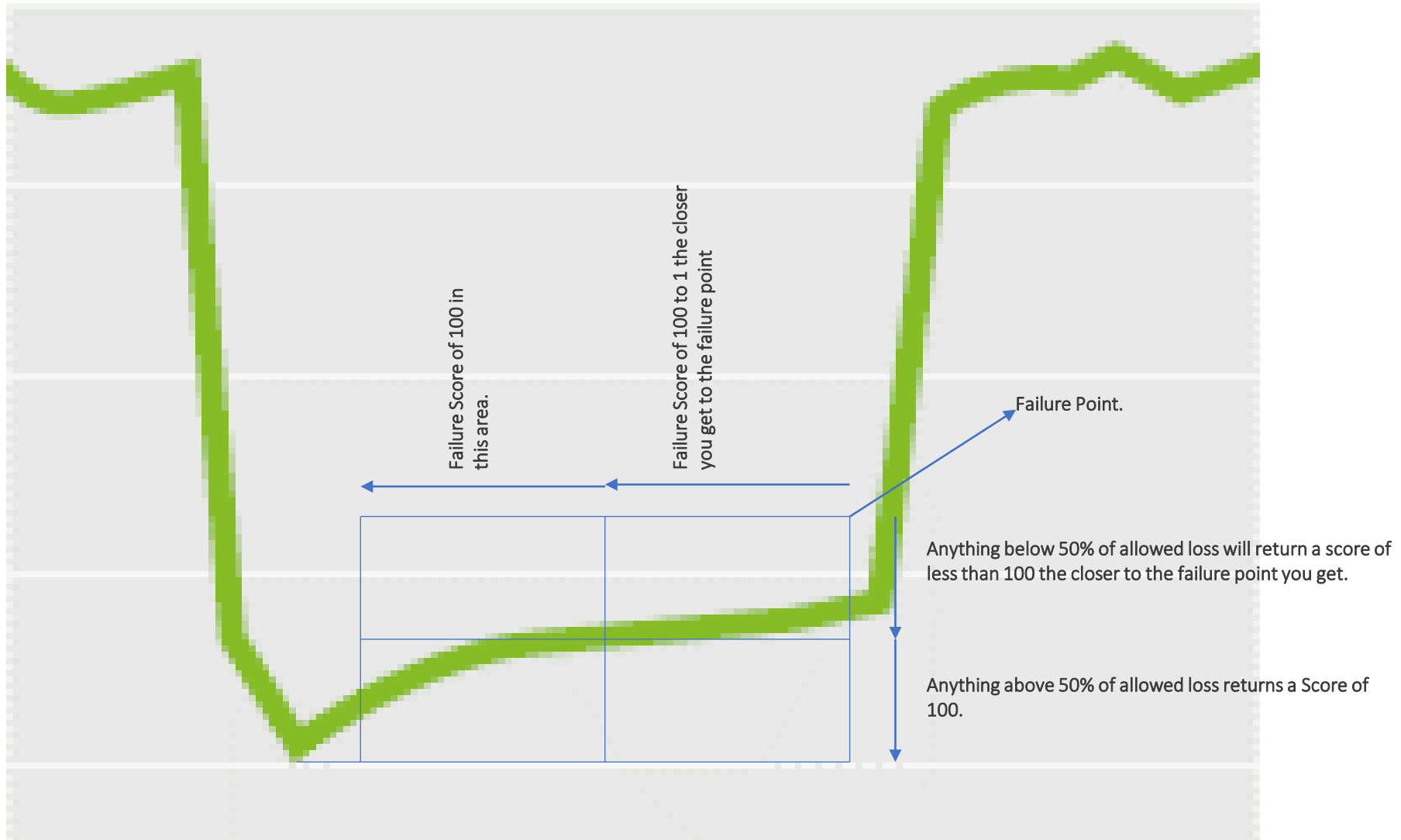
When a subject fails to hold their breath correctly, the trace line will either drop rapidly or look like a mountain range.



4 A large mask breach

A sharp drop indicates a large leak in the mask.

What does the QuantiCheck[®] score mean?



Benefits

- Confirmation of mask integrity
- Verification of donning
- Removes subjectivity
- Wearer confidence
- Instant feedback
- Documented checks for recordkeeping

QuantiCheck
Demo

Questions?

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