



BOSCH

Invented for life



BOSCH



START/STOP

1149 Pascal
Measure



ON/OFF

Glove testing systems

for Isolator and
RABS application



▲ Glove testing device in isolator execution

Glove testing systems

For the efficient and reproducible testing of your barrier system

Gloves are critical components of a barrier system. Only the glove's thin elastomer layer separates the process area of ISO class 5 from the lower-classified-cleanroom air. Regularly testing gloves is therefore as important as it is challenging.

The glove testing system enables the entire system to be tested with the highest precision, with short test times as well as high reproducibility of the process. The reliable measuring principle thus satisfies the production and validation requirements. The new wireless glove testing system is the first system on the market which is completely integrated in the HMI (Human Machine Interface) and which simplifies daily use.



▲ Exchangeable battery

A compact, easy to use solution

The new wireless glove testing system features an impressive compact unit composed of a testing device with integrated compressed air pump and exchangeable battery. The fully automated testing process makes using the system very simple: insert the testing device, inflate the seal using the START button and start the test by clicking on the touchscreen – all done.

The testing device data is sent over a WIFI (wireless LAN) connection. By integrating the testing system in the machine control system, all recorded measurement data can be easily processed and documented.

Precise and reliable testing

The pressure decay test meets the requirements of sensitivity and reproducibility, and is suitable for testing the complete glove unit. The testing process comprises several phases.

The stabilization phase which prepares the glove is followed by the actual leak test. The entire process is conducted safely by an integrated pressure monitoring system. In this way, the test result can always be reproduced, regardless of the glove's age or how long it has been used.

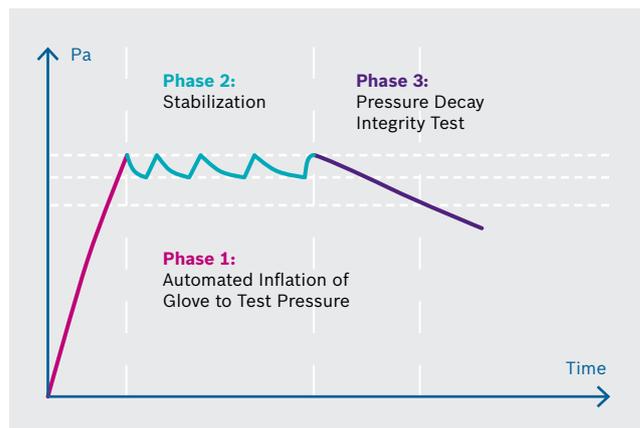
The reliability of measurements can be guaranteed for hole diameters less than 100 μm . It is possible to assign the glove port to the inserted testing device and also to the glove itself via RFID (Radio Frequency Identification) for additional process reliability.

Fast, flexible and economical

The pressure required for the test is generated using a compressed air pump integrated in the testing device. This eliminates the need for an external compressed air supply. By simultaneously testing up to 35 gloves with specific testing parameters, the overall duration of the tests and the associated downtime of the system can be greatly reduced.

The right solution for every requirement

- ▶ WIFI glove testing system with integration in the system/line design and operation using the HMI
- ▶ WIFI glove testing system as a portable stand-alone solution with its own HMI
- ▶ Testing device (without WIFI function), with built in pump and controller, as well as a text display for the test results
- ▶ Also available: offline system for the independent testing of RABS gloves, outside the barrier/sterile area



▲ Glove testing procedure

Essential accessories

- ▶ Exchangeable batteries
- ▶ RFID for glove port and glove
- ▶ Transport trolley for max. 10 testing devices, charging station and battery
- ▶ Carry case for the testing device

ADVANTAGES AT A GLANCE

- ▶ Suitable for RABS and Isolator systems
- ▶ Complete integration into the line design, test data transmitted via WIFI
- ▶ System operation using the HMI – no additional laptop necessary
- ▶ No external compressed air supply required
- ▶ Exchangeable battery, no waiting for charging
- ▶ Precise, reproducible and validatable testing procedure in accordance with ISO 14644-7
- ▶ Short testing times (15 min upwards), depending on the glove material
- ▶ Increased process reliability through the use of RFID
- ▶ Testing parameters to match glove type

Robert Bosch Packaging Technology GmbH

Product Division Pharma Liquid

Blaufelder Straße 45

74564 Crailsheim

Germany

Phone +49 7951 402-0

Fax +49 7951 402-258

www.boschpackaging.com

packaging-ph@bosch.com