SVISCISVS

Product Datasheet

BioPAT[®] Pressure

Standardized Single-Use Pressure Measurement



For example, the pressure measurement is used as a safety system for pressure monitoring on single-use containers or to measure the pressure upstream of a filter element to enable immediate shut-off of the pumps in the event of any blockage.

In numerous other processes, like crossflow applications, pressure serves as a controlled variable.

Method

The BioPAT[®] Pressure system consists of a transducer (Fig. 1) and a single-use I-dome (Fig. 2), which can be incorporated into the appropriate tube sets.

Product Information

Reliable pressure measurement is essential for a variety of process steps in the biopharmaceutical industry. The trend towards single-use products has created the need to provide the corresponding measuring methods for such applications. The system additionally includes a retaining sleeve (Fig. 3) that ensures greater process safety and secures the connection between transducer and I-dome.

The transducer is an electronic precision measurement converter with active temperature compensation.

Links to Automation

The equipment supplied with the transducer includes a cable (length 5 m) that enables the BioPAT[®] Pressure system to be connected to any control device.

The transducer requires a 24V DC power supply and is standard-equipped with an output signal of 4 – 20 mA.

The connections are assigned as follows :

Round plug M12 × 1, 4-pin U+ = 1 U- = 3

The contacts on the cable are labelled as follows: U+ = brown; U- = blue

The core has a cross section of 0.5 mm².

Validation | Quality Assurance

The I-dome of the BioPAT[®] Pressure system was validated by a complicated and complex test procedure.

Biological, chemical and physical tests were combined with extractable | leachable tests to guarantee that the componentsn complied with the relevant requirements of the pharmacopeias, directives and guidelines.

Further information can be found in our Extractable and Validation Guides.

For detailed information, please contact your local Sartorius representative.

Fig. 1 Transducer

Fig. 2 Single-use I-dome



Fig. 3 Retaining sleeve









Transducer Dimensions



I-Dome ¾"



I-Dome ½"

Germany

USA

Sartorius Stedim Biotech GmbH August-Spindler-Strasse 11 37079 Goettingen Phone +49 551 308 0

For further contacts, visit www.sartorius.com

Sartorius Stedim North America Inc. 565 Johnson Avenue Bohemia, NY 11716 Toll-Free +1 800 368 7178

Technical Specifications

Measuring range	0-4 bar
Accuracy	±100 mbar @ 0 - 2 bar; ±5%CV @ 2 - 4 bar
Hysteresis (typ.)	1,5 %
Hysteresis (max.)	2%
Operating humidity	10-96% (rel.)
Deviation from the zero point	0,1%
Stability per year	0,5%
Temperature (measurement)	4-40°C
Temperature (transport)	4-60°C
Certificates	CE, RoHs
Accuracy test report	Included with equipment supplied
Power supply	24V DC
Electronic output	4-20 mA

Specifications subject to change without notice. © 2023 Sartorius Stedim Biotech GmbH, August-Spindler-Strasse 11, 37079 Goettingen, Germany