



Pressure Measurement Solutions for Single-Use Processes

BIOPG

Unique pressure gauge for single-use processes

BIOPG is an advanced single-use pressure gauge designed for a wide range of biopharmaceutical manufacturing applications, including filtration, chromatography, gas supply management, bioreactor pressure monitoring, and filling operations. The fluid-contact components are biocompatible, gamma-sterilizable, and manufactured in cleanroom environments to meet the requirements of biopharmaceutical production. With its unique design, BIOPG provides a user-friendly and reliable solution that enhances both the quality and efficiency of bioprocesses.

No dedicated converter required – compatible with a wide range of devices.

The pressure gauge outputs DC 1 ~ 5 V, allowing direct connection to standard indicators, PLCs, and various other control devices.

*Optional dedicated displays are also available.

Easy Assembly and Reliable Measurement

The connection between the single-use tubing and the multi-use pressure gauge features a push-and-twist lock design. This simple assembly minimizes variations between individual units and operators, ensuring consistently stable pressure measurement performance.

Reduced Environmental Impact

The single-use tubing is made entirely of resin, with no metal or electronic components (such as PCBs, elements, or cables) included. This makes waste separation easier and helps reduce environmental impact while lowering disposal costs.

Features

- Dual structure: single-use (measurement tube) and multi-use (pressure gauge) components
- The wetted parts made of biocompatible materials (FDA, USP VI, BSE/TSE free)
- Fully straight flow path
- Accuracy: $\pm 3\%$ F.S.
- Rated pressure: 0 ~ 500kPa
- Voltage output: DC1 ~ 5V
- Factory-calibrated
- Sterilization-capable (measurement tube)
 - Gamma sterilization (~50kGy)
 - Autoclave sterilization (121°C/30min, 3 cycles)
 - EOG sterilization
- Pressure resistance: up to 600 kPa (when equipped with pressure gauge)
- Power Supply: DC24V

BPC-series Measurement Tube (Single-use)

Constructed entirely from resin, the measurement flow path transmits pressure accurately through its built-in diaphragm gasket. It is designed for integration into single-use flow kits, such as tubing and bags, and for pressure monitoring before and after filters.

Measurement tube sizes available are:

BPC-038: 3/8"

BPC-050: 1/2"

BPC-075: 3/4"

BPC-100: 1"



BPG-type Pressure Gauge (Multi-use, RoHS/CE compliant)

The BPG-type pressure gauge performs non-wetted measurement of the pressure transmitted from the BPC-type measurement tube.



Option

Multi-use display (RoHS/CE)

- Input: DC1 ~ 5V, 1ch
- Output: DC4 ~ 20mA, One alarm point each for upper and lower limits



*Specification is subjected to change without notice.

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