

Product Specifications

Part ID: OC2002-2

CTech™ FlowVPX® 3 mm GxP Flow Cell

Overview

Engineered for bioprocessing lab environments, the CTech™ FlowVPX® 3 mm Flow Cell was developed to provide an in-line measurement solution compatible with the FlowVPX System's variable pathlength technology. This unlocks the power of Slope Spectroscopy® measurement methods for highly regulated drug manufacturing processes. In-line variable pathlength technology (VPT) enables the user to understand and control critical process parameters (CPP) to achieve critical quality attributes (CQAs) for their product.

The 3 mm Flow Cell utilizes a built-in Fibrette® Optical Component with an EPDM diaphragm seal for a contained process-measurement of the product stream. The Flow Cell's flow path utilizes ¼"-28 thread size and can be used with a wide variety of fittings such as barbed and Luer locks. Each shipment comes with the Luer, barbed, and tubing compression fittings. The Flow Cell also utilizes a modular mating surface to fit onto the FlowVPX Detector Modules and FlowVPX Head.

Additionally, Flow Cells are equipped with smart cell technology, which directly communicates with the FlowVPX Head and provides valuable information for traceability.

For more information about the 3 mm Flow Cell or the FlowVPX System variable pathlength solution, please contact a Repligen analytical sales specialist.

Fittings included with 3 mm Flow Cell



Features | Advantages | Benefits

316/316L SS Construction: Stainless steel construction designed to withstand harsh pharmaceutical cleaning cycles.

EPDM Diaphragm Sealing: EPDM diaphragm maintains integral flow path during optical measurements. Tested to 500,000 cycles at operational extents

Connections: ¼"-28 for option flexibility (tubing compression fittings, Luer, barbed).

Integrated Memory: Feature option to allow electronic reading of Flow Cell size and serial number on the FlowVPX Head.

Flow Cell Specifications

Dimensions (L x W x H): 70 x 70 x 200 mm (2.76 x 2.76 x 7.89 in)

Weight: 1.13 kg (2.5 lb)

Maximum Pathlength: 3 mm (0.118 in)

Process Contact Materials:	EPDM	Medical-Grade Epoxy
	316L Stainless Steel	UV-Grade Fused Silica

Non-Process Contact Materials:	316/316L Stainless Steel
	Polyphenol Sulfone (PPSU)
	Medical-Grade Epoxy

Maximum Rated Internal Pressure: 5.5 bar (80 psi)

Maximum Operating Temperature: 49°C (120°F)

Minimum Operating Temperature: 1°C (33°F)

Maximum Hold-Up Volume: 0.9 ml (Flow Cell only)

Maximum Cycle Rating: 500,000

Further Details

Storage Conditions: 5°C–23°C (40°F–72°F), 8%–75% RH. Store in original packaging away from ozone-producing devices.

Shelf Life: Two years from assembled date when kept in proper storage conditions.

Hardware Compatibility: FlowVPX instrument

Software Requirement: ViPER v1.0.80 or newer

Customer Support

Support and training: Repligen is committed to customer success from predelivery through installation and training.

More information: Final application suitability of all materials and ratings are the sole responsibility of the user. Specified pressure and temperature ratings may be subject to limitations. Contact a Repligen analytical sales specialist for more information.

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Customer Support

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