

CTech™ FlowVPX® Stainless Steel Flow Cells

Product Specifications

Specification Sheet

Part ID: OC2002-2 (3 mm)

OC2001 (10 mm)

OC2004 (22 mm)

OC2017 (1.5 in)

OC2012 (2 in)



Overview

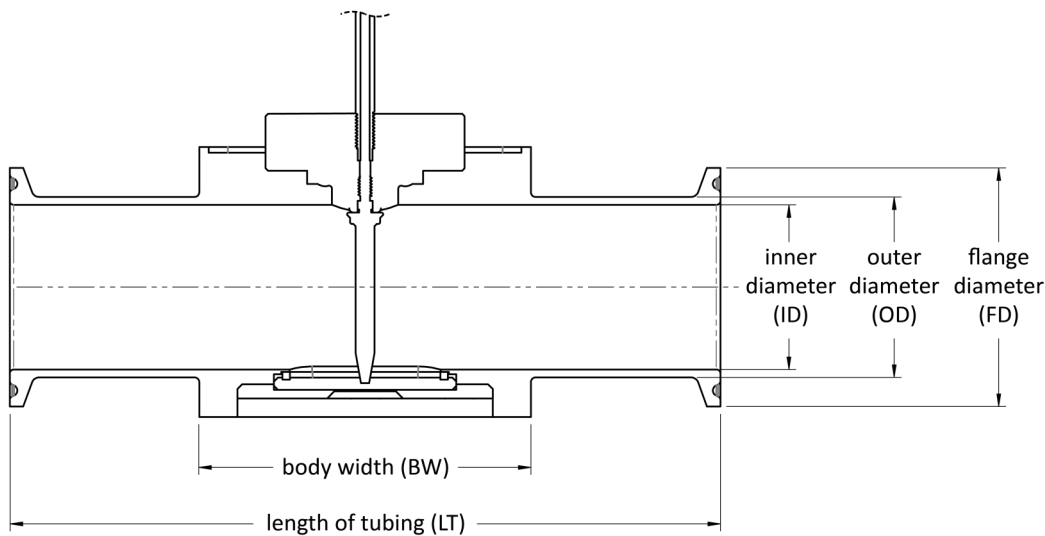
Engineered for rigorous bioprocessing environments, the CTech™ FlowVPX® Stainless Steel Flow Cells were developed to provide an in-line measurement solution compatible with the CTech FlowVPX System. This variable pathlength technology unlocks the power of Slope Spectroscopy® measurement methods for highly regulated drug manufacturing processes. The Flow Cell is modular and mates directly with the FlowVPX Head and Detector. It was designed with a precision EPDM diaphragm seal, which forms a barrier around the integrated Flow Fibrette® and ensures a contained process-measurement area.

Additionally, Flow Cells are equipped with Smart Cell technology, which communicates with the FlowVPX Head and provides valuable information for traceability. The entire design, with special attention given to each process-contact component, has been specified for compliance with applicable industry standards, including ASME Bioprocessing Equipment Standard and USP Class IV. The robust unibody construction with industry-standard tri-clamp connections allows for easy integration into most production environments.

For more information about the FlowVPX Stainless Steel Flow Cells or the FlowVPX variable pathlength solution, contact a Repligen's Analytics representative.

Part No.	OC2002-2	OC2001	OC2004	OC2017	OC2012
General					
Flow Path Diameter	3.0 mm	9.5 mm	22.1 mm	1.37 in	1.87 in
Overall Dimensions	70 x 70 x 199 mm (2.8 x 2.8 x 7.8 in)	120 x 70 x 200 mm (4.7 x 2.8 x 7.9 in)	120 x 70 x 211 mm (4.7 x 2.8 x 8.3 in)	150 x 70 x 224 mm (5.9 x 2.8 x 8.8 in)	150 x 100 x 247 mm (5.9 x 3.9 x 9.7 in)
Weight	1.1 kg (2.5 lb)	1.0 kg (2.3 lb)	1.4 kg (3.0 lb)	1.7 kg (3.7 lb)	2.7 kg (6.0 lb)
Flow Path Connections	1/4"-28 Internal Threading	3/4" Tri-Clamp	1" Tri-Clamp	1.5" Tri-Clamp	2" Tri-Clamp
Required CTech™ ViPER® ANALYTIX Software Version	v1.0.55	v1.0.05	v1.0.104	v1.1.180	v1.2.136
Hardware Compatibility	CTech FlowVPX Instrument				
Performance					
Max Pathlength	3.000 mm	5.000 mm	5.000 mm	5.000 mm	5.000 mm
Max Flow Rate	1.5 LPM	20 LPM	160 LPM	225 LPM	250 LPM
Max Hold-up Volume	0.9 mL	9.0 mL	47 mL	144 mL	266 mL
Max Pressure	5.5 bar (80 psi)*	5.5 bar (80 psi)		6.2 bar (90 psi)	
Operating Temperature	1–49°C (33–120°F)			0–48°C (32–118°F)	
Integrated Memory	SmartCell Technology enables electronic reading of Flow Cell serial number				
Environmental					
Process Contact Materials	316L Stainless Steel, UV-Grade Fused Silica, EPDM, Medical-Grade Epoxy				
Storage Conditions	5–25°C (41–77°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				
Further Details					
More information:	<p>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 Representative for more information.</p> <p>Repligen Corporation and/or its affiliates, to the extent allowed by law, disclaims, and in no event shall be liable for, any incidental or consequential damages in connection with user, instrument, or system performance in relation to all content contained in this document, including but not limited to fitness for location of use, specific purpose for use, or application. Information, descriptions, and specifications in this publication are subject to change without notice.</p>				

*Some flow path connection accessories may not be capable of achieving this pressure.



Flow Cell Dimensions

Part No.	Body Width	Length of Tubing	Inner Diameter	Outer Diameter	Flange Diameter
OC2002-2	70 mm (2.8 in)	N/A	3.0 mm (0.12 in)	N/A	N/A
OC2001	70 mm (2.8 in)	120 mm (4.7 in)	9.5 mm (0.37 in)	19.1 mm (0.75 in)	25.4 mm (1.00 in)
OC2004	70 mm (2.8 in)	120 mm (4.7 in)	22.1 mm (0.87 in)	25.4 mm (1.00 in)	50.4 mm (1.98 in)
OC2017	70 mm (2.8 in)	150 mm (5.9 in)	34.8 mm (1.37 in)	38.1 mm (1.50 in)	50.4 mm (1.98 in)
OC2012	70 mm (2.8 in)	150 mm (5.9 in)	47.5 mm (1.87 in)	50.8 mm (2.00 in)	63.9 mm (2.52 in)

Contact

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