

Flex Flow Liquid Cell

AT A GLANCE

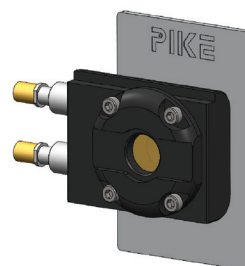
- ▶ Transmission cell configured for a liquid flow
- ▶ Flexible pathlength to optimize sample absorbance
- ▶ A variety of windows options
- ▶ Easy cleaning of difficult samples
- ▶ Compatible with all FTIR spectrometers

The Flex Flow Cell is a variable path transmission liquid cell. It is ideal for applications where flow measurements are required. The cell offers the flexibility of a disassembling the cell for cleaning and changing windows and the pathlength from 0.015 to 1 mm.

DESIGN

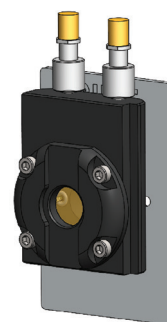
The cell fits standard 2" x 3" slide mount, and includes stainless steel Luer fittings (compression fittings optional). A wide selection of windows is available to cover the MIR, NIR and FIR spectral regions. The windows size is 32 x 3 mm and the clear aperture is 13 mm. Perfluoroelastomer O-rings seal the cell.

To use the cell for flowing, it is recommended the cell fittings are positioned horizontally.

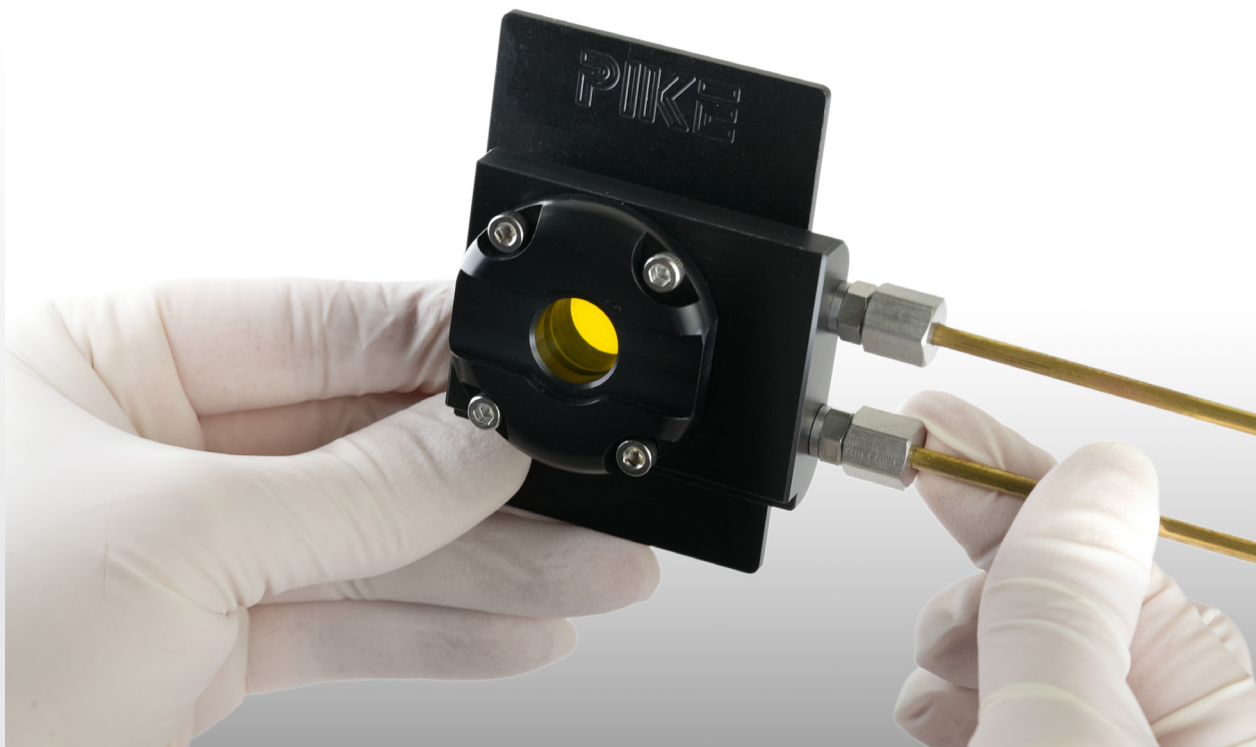


Horizontal orientation.

If using the cell as a traditional demountable liquid cell, position the fittings vertically. The orientation of the ports is easily changed by repositioning the main cell assembly on the backplate.



Vertical orientation.



Flex Flow cell configured with compression fittings.

PART NUMBER	DESCRIPTION
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162-1198	Flex Flow Demountable Liquid Cell
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Note: Requires selection of windows.

32 x 3 mm Windows for Liquid Cells
(must select minimum of 1 Plain and 1 Drilled)

Plain	Drilled	Description
160-1147	160-1146	BaF ₂
160-1143	160-1142	CaF ₂
160-1137	160-1136	Ge
160-1132	160-1131	KBr
160-1126	160-1125	KRS-5
160-1122	160-1121	NaCl
160-1159	160-1158	Si
160-1113	160-1112	ZnSe

Notes: For window compatibility please consult the Materials Properties table, available under Transmission Theory and Application. For additional window selections, see Disks, Windows, Powders.

Spacers for Liquid Cells (optional)

Part Number	Pathlength (mm)	Part Number	Pathlength (mm)
162-1210	0.015	162-1296	0.2
162-1220	0.025	162-1295	0.5
162-1230	0.05	162-1294	1.0
162-1297	0.1	162-1293	Assortment

Notes: For spacer pathlength 0.1mm and greater 1 spacer is included. For pathlengths 0.05mm or less, 12 spacers are included. The assortment package includes 2 each of pathlength 0.05mm and less, and 1 each of pathlengths 0.1mm and greater.

Replacement Parts

162-1112	Nylon Leur Caps (2 ea.)
162-1300	Teflon Stoppers (12 ea.)
162-1199	Compression fittings, 1/16" (2)
162-1197	Compression fittings, 1/8" (2)
162-1194	Flex Flow O-rings (2)

Note: For more options, please contact PIKE Technologies.