

# Flex Flow Liquid Cell

## AT A GLANCE

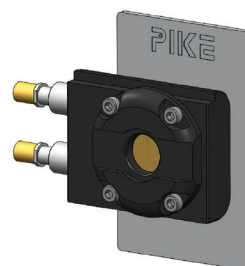
- ▶ Transmission cell configured for a liquid flow
- ▶ Flexible pathlength to optimize sample absorbance
- ▶ A variety of windows options
- ▶ Easy cleaning of difficult samples
- ▶ Compatible with all FTIR spectrometers

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

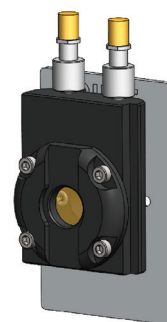
The cell fits standard 2" x 3" slide mount, and includes stainless steel Luer fittings (compression fittings optional). A wide selection of windows is available to cover the MIR, NIR and FIR spectral regions. The windows size is 32 x 3 mm and the clear aperture is 13 mm. Perfluoroelastomer O-rings seal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

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

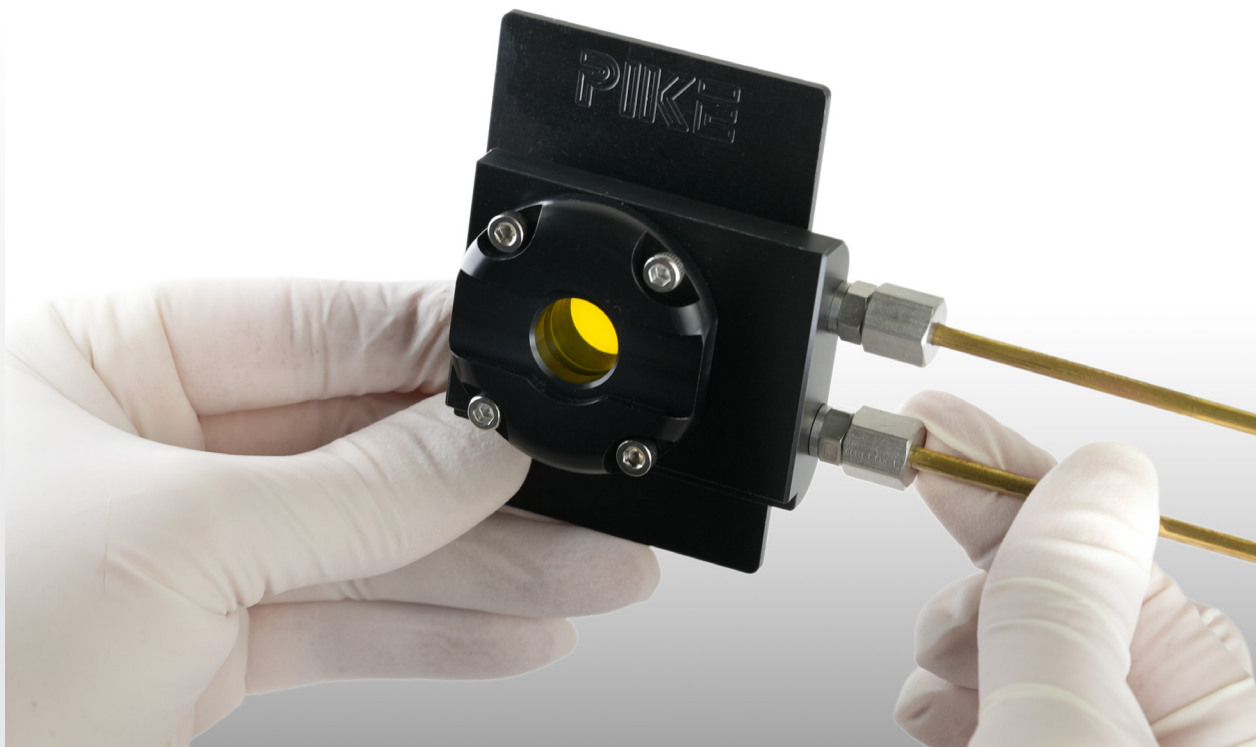


Horizontal orientation.

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 |
|-------------|-------------|
|-------------|-------------|

|          |                                   |
|----------|-----------------------------------|
| 162-1198 | Flex Flow Demountable Liquid Cell |
|----------|-----------------------------------|

**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 <sub>2</sub> |
| 160-1143 | 160-1142 | CaF <sub>2</sub> |
| 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.