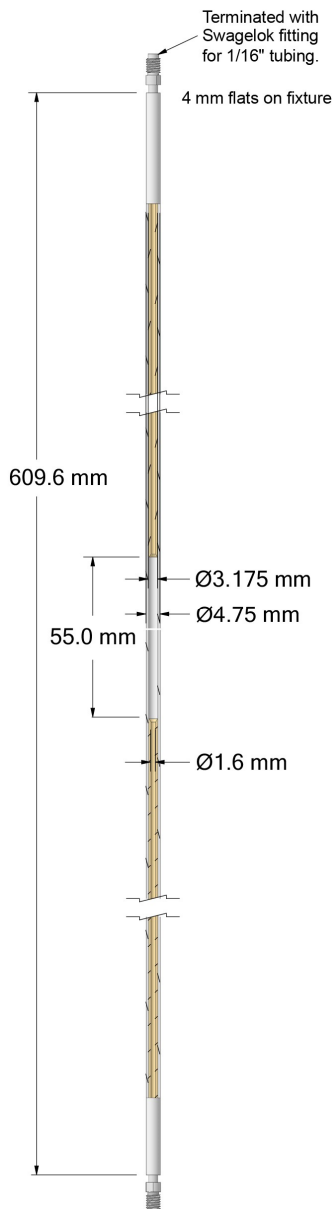




HIGH PRESSURE FLOW CELL



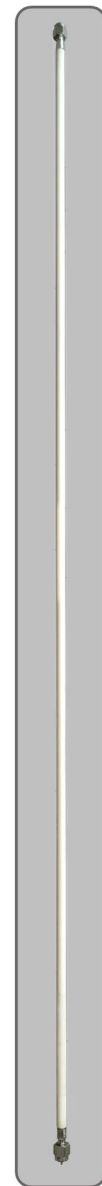
The Daedalus flow cell was designed to work with the expanding availability of benchtop NMR instruments. The flow cell is of sufficient length to pass fully through the bore of most instruments and can readily be connected to a high pressure system. The maximum O.D. of the housing and terminal fittings are 5 mm. The only requirement is there be a free bore all the way through the instrument.

The cell can be passed through the NMR bore, secured at both ends, then connected to the pressurizing system using standard Swagelok fittings for 1/16" tubing. After the experiments are complete, the high pressure gland can be removed, and the flow cell extracted from the NMR instrument.

The active zone of the flow cell is 55 mm in length standard, but can be readily customized for different lengths. The cell can also be constructed with PEEK tubing extensions instead of the Swagelok terminators. The operation is similar except the PEEK tubing sections must be terminated with glands and collars for 1/8" tubing. One fitting must be cutoff from the tubing to extract the flow cell from the NMR instrument.

The wetted parts are chemically compatible with most solvents making this cell useful for a wide array of applications in multiple research areas: biophysics, petroleum industry, carbon dioxide capture and storage, chemical process monitoring, gas phase studies, materials science, geology, and deep-sea research.

Customized solutions to fit your specific application are possible.



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Wetted parts	Alumina (housing), PEEK, Stainless Steel
Tube dimensions	Tube section: 4.75 mm O.D. x 3.175 mm I.D. x 610 mm length Active volume: 3.175 mm I.D. x 55 mm length (Length can be customized)
Pressure range	Tested to 300 bar
Pressure connection	Swagelok glands and collars for 1/16" tubing (as shown) Swagelok glands and collars for 1/8" tubing
Allowed fluids	All fluids compatible with the wetted parts can be used in the cell. Examples are water, alcohols, alkanes, carbon dioxide, and xenon.