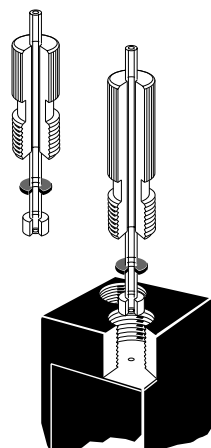


## M6 Threaded Flow Cells

The fully fused Far UV quartz flow cell body mounted in a threaded anodized aluminum jacket. The aluminum exterior has internally threaded (M6 threading) inlet/outlet ports into which the PTFE flow tubes are connected. This allows for a tight seal between the inlet/outlet tubes and the flow cell body while making connections very easy to change. All cells and tubing connections are tested to 5 bar pressure (75 psi).

The exterior dimensions of the flow cells are made to international standards which should allow their use with commonly available commercial instruments. Almost any UV/Vis spectrophotometer has a cell holder which will work with the flow cells having a pathlength of 10mm or less. For pathlengths greater than 10mm consult your instrument handbook for the correct cell holder to use from your instrument manufacturer.



Cut away showing M6 threaded connectors

M6 Flow cell Tubulation dimensions:

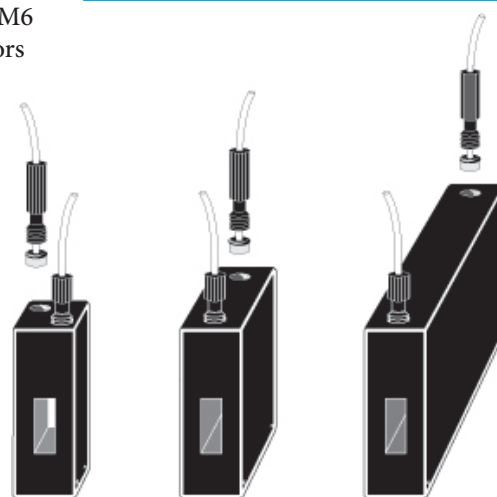
OD: 1.6mm ID: 1mm Length: 400mm

### 'Z' Dimension per Instrument

Manufacturer:	'Z' Dimension:
Agilent®	varies by instrument
Beckman®	8.5 mm
Bio-Rad®	8.5 mm
Eppendorf®	8.5 mm
GBC®	15 mm
Hewlett Packard®	15 mm
Hitachi®	varies by instrument
Jasco®	12 mm
Ocean Optics®	15 mm
Perkin-Elmer®	15 mm
Pharmacia®	15 mm
Shimadzu®	15 mm
StellarNet®	15 mm
Thermo Spectronic®	8.5 and 15 mm
Turner®	8.5 mm
Varian®	20 mm

## Flow Cells, Medium Aperture

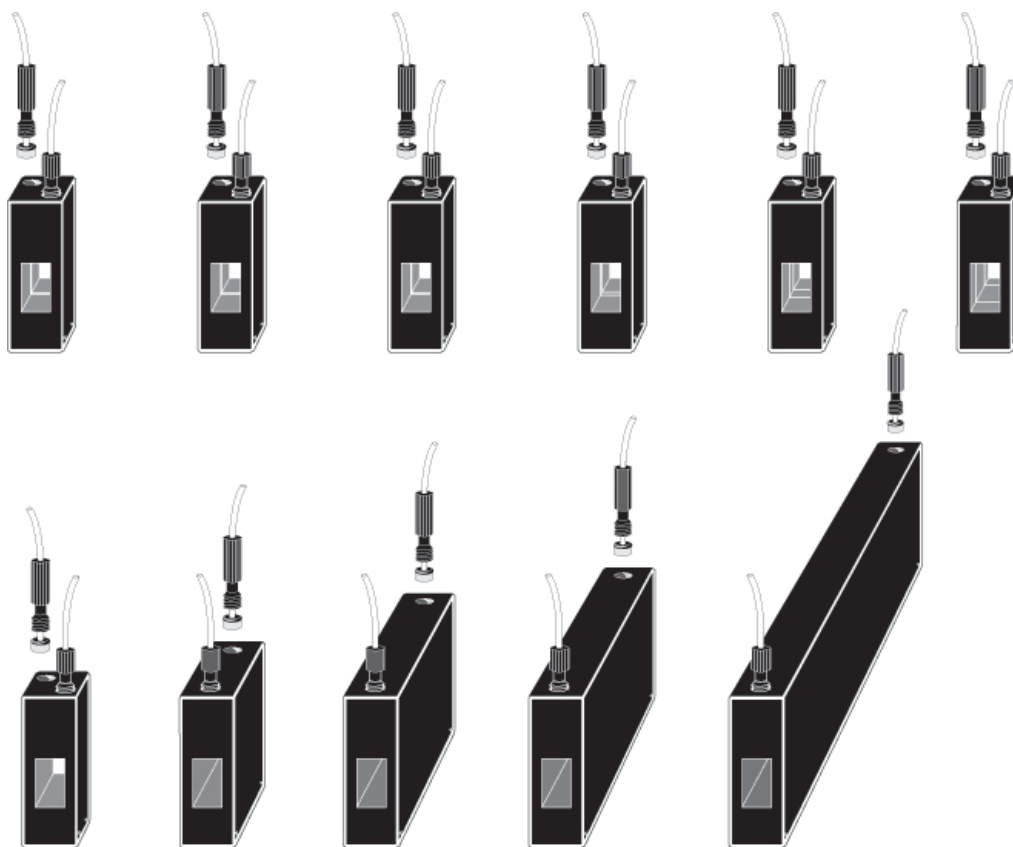
The Type 583.4 series of flow cells are designed to fit most spectrophotometers and are available in most 'Z' dimensions. They have a rectangular window in a black self masking configuration and are widely used for many standard applications including Tablet dissolution. The sample chamber width is 4mm and is available with path lengths of 5, 10, 20, 40, 50, and 100mm. The inlet and outlet tubes are connected into the flow cell with a M6 threaded connector. The PTFE tubing has an outer diameter of about 1.6mm and an inner diameter of about 1mm. The length of the tubing is approximately 400mm. Each cell is supplied with an inlet and an outlet tube. Extra tubing sets may be purchased.



Catalog Number	Path Length mm	Exterior, mm Width Length Height	Sample Chamber, mm Width Length Height	'Z' Dim mm	Nominal Vol. ml	Polished Windows	Price per cell
<b>Spectrosil® Far UV Quartz window, Useable range: 170 to 2700 nm</b>							
583.4-Q-5/Z8.5	5	12.5 12.5 35	4 5 11	8.5	0.225	2	\$ 561.80
583.4-Q-10/Z8.5	10	12.5 12.5 35	4 10 11	8.5	0.450	2	427.70
583.4-Q-20/Z8.5	20	12.5 22.5 35	4 20 11	8.5	0.900	2	724.20
583.4-Q-40/Z8.5	40	12.5 42.5 35	4 40 11	8.5	1.800	2	893.30
583.4-Q-50/Z8.5	50	12.5 52.5 35	4 50 11	8.5	2.250	2	1,027.30
583.4-Q-100/Z8.5	100	12.5 102.5 35	4 100 11	8.5	4.500	2	1,481.90
583.4-Q-5/Z15	5	12.5 12.5 35	4 5 11	15	0.225	2	\$ 561.80
583.4-Q-10/Z15	10	12.5 12.5 35	4 10 11	15	0.450	2	427.70
583.4-Q-20/Z15	20	12.5 22.5 35	4 20 11	15	0.900	2	724.20
583.4-Q-40/Z15	40	12.5 42.5 35	4 40 11	15	1.800	2	893.30
583.4-Q-50/Z15	50	12.5 52.5 35	4 50 11	15	2.250	2	1,027.30
583.4-Q-100/Z15	100	12.5 102.5 35	4 100 11	15	4.500	2	1,481.90
583.4-Q-5/Z20	5	12.5 12.5 35	4 5 11	20	0.225	2	\$ 561.80
583.4-Q-10/Z20	10	12.5 12.5 35	4 10 11	20	0.450	2	427.70
583.4-Q-20/Z20	20	12.5 22.5 35	4 20 11	20	0.900	2	724.20
583.4-Q-40/Z20	40	12.5 42.5 35	4 40 11	20	1.800	2	893.30
583.4-Q-50/Z20	50	12.5 52.5 35	4 50 11	20	2.250	2	1,027.30
583.4-Q-100/Z20	100	12.5 102.5 35	4 100 11	20	4.500	2	1,481.90
M6-SET	Set of extra inlet/outlet tubes with M6 connectors (two tubes per set)						91.90

## Flow Cells, Wide Aperture

The Type 583.65 series of flow cells have a wide aperture (6.5mm) that are optimized for instruments with a wide light beam. They have a rectangular window in a black self masking configuration and are widely used for many standard applications including Tablet dissolution. The sample chamber width of 6.5mm is available with path lengths of 0.1, 0.2, 0.5, 1, 2, 5, 10, 20, 40, 50, and 100mm. The inlet and outlet tubes are connected into the flow cell with a M6 threaded connector. The PTFE tubing has an outer diameter of about 1.6mm and an inner diameter of about 1mm. The length of the tubing is approximately 400mm. Each cell is supplied with an inlet and an outlet tube. Extra tubing sets may be purchased.



Catalog Number	Path Length mm	Exterior, mm			Sample Chamber, mm			'Z' Dim mm	Nominal Vol. ml	Polished Windows	Price per cell
		Width	Length	Height	Width	Length	Height				
Spectrosil® Far UV Quartz window, Useable range: 170 to 2700 nm											
583.65-Q-0.1/Z15	0.1	12.5	12.5	35	6.5	0.1	11	15	0.029	2	\$ 817.10
583.65-Q-0.2/Z15	0.2	12.5	12.5	35	6.5	0.2	11	15	0.036	2	817.10
583.65-Q-0.5/Z15	0.5	12.5	12.5	35	6.5	0.5	11	15	0.072	2	767.20
583.65.-Q-1/Z15	1	12.5	12.5	35	6.5	1	11	15	0.072	2	600.65
583.65-Q-2/Z15	2	12.5	12.5	35	6.5	2	11	15	0.290	2	589.60
583.65-Q-5/Z15	5	12.5	12.5	35	6.5	5	11	15	0.360	2	525.00
583.65-Q-10/Z15	10	12.5	12.5	35	6.5	10	11	15	0.720	2	449.30
583.65-Q-20/Z15	20	12.5	22.5	35	6.5	20	11	15	1.400	2	676.80
583.65-Q-40/Z15	40	12.5	42.5	35	6.5	40	11	15	2.900	2	958.00
583.65-Q-50/Z15	50	12.5	52.5	35	6.5	50	11	15	3.600	2	1,038.40
583.65-Q-100/Z15	100	12.5	102.5	35	6.5	100	11	15	7.200	2	1,391.00
583.65-Q-0.1/Z20	0.1	12.5	12.5	40	6.5	0.1	11	20	0.029	2	\$ 817.10
583.65-Q-0.2/Z20	0.2	12.5	12.5	40	6.5	0.2	11	20	0.036	2	817.10
583.65-Q-0.5/Z20	0.5	12.5	12.5	40	6.5	0.5	11	20	0.072	2	767.20
583.65.-Q-1/Z20	1	12.5	12.5	40	6.5	1	11	20	0.072	2	600.65
583.65-Q-2/Z20	2	12.5	12.5	40	6.5	2	11	20	0.290	2	589.60
583.65-Q-5/Z20	5	12.5	12.5	40	6.5	5	11	20	0.360	2	525.00
583.65-Q-10/Z20	10	12.5	12.5	40	6.5	10	11	20	0.720	2	449.30
583.65-Q-20/Z20	20	12.5	22.5	40	6.5	20	11	20	1.400	2	676.80
583.65-Q-40/Z20	40	12.5	42.5	40	6.5	40	11	20	2.900	2	958.00
583.65-Q-50/Z20	50	12.5	52.5	40	6.5	50	11	20	3.600	2	1,038.40
583.65-Q-100/Z20	100	12.5	102.5	40	6.5	100	11	20	7.200	2	1,391.00
M6-SET	Set of extra inlet/outlet tubes with M6 connectors (two tubes per set)										91.90

## Flow Cells, Wide Aperture, short window

The Type 583.65.65 series of flow cells have a wide aperture (6.5mm) and a smaller sample size. They have a rectangular window in a black self masking configuration and are widely used for many standard applications including Tablet dissolution. The sample chamber width of 6.5mm is available with path lengths of 1, 2, 5, 10mm. The inlet and outlet tubes are connected into the flow cell with a M6 threaded connector. The PTFE tubing has an outer diameter of about 1.6mm and an inner diameter of about 1mm. The length of the tubing is approximately 400mm. Each cell is supplied with an inlet and an outlet tube. Extra tubing sets may be purchased.



Catalog Number	Path Length mm	Exterior, mm			Sample Chamber, mm			'Z' Dim mm	Nominal Vol. ml	Polished Windows	Price per cell
		Width	Length	Height	Width	Length	Height				
<i>Spectrosil® Far UV Quartz window, Useable range: 170 to 2700 nm</i>											
583.65.65-Q-1/Z15	1	12.5	12.5	35	6.5	1	6.5	15	0.042	2	\$ 615.90
583.65.65-Q-2/Z15	2	12.5	12.5	35	6.5	2	6.5	15	0.084	2	605.40
583.65.65-Q-5/Z15	5	12.5	12.5	35	6.5	5	6.5	15	0.210	2	540.20
583.65.65-Q-10/Z15	10	12.5	12.5	35	6.5	10	6.5	15	0.420	2	470.90
583.65.65-Q-1/Z20	1	12.5	12.5	40	6.5	1	6.5	20	0.042	2	\$ 637.40
583.65.65-Q-2/Z20	2	12.5	12.5	40	6.5	2	6.5	20	0.084	2	626.40
583.65.65-Q-5/Z20	5	12.5	12.5	40	6.5	5	6.5	20	0.210	2	561.80
583.65.65-Q-10/Z20	10	12.5	12.5	40	6.5	10	6.5	20	0.420	2	486.10
M6-SET	Set of extra inlet/outlet tubes with M6 connectors (two tubes per set)										91.90

## Flow Cells, Short Path Length

This series of flow cell is typified by a tall sample compartment with a window height of 17.5mm for use in both 8.5 and 15mm 'Z' dimension situations. Path lengths as short as 0.01mm are available in this range. Smooth flow characteristics at very short path lengths are achieved with a bypass facility at each side of the window which also avoids increased pressure in the cell and helps to minimize air bubbles. The width of the sample chamber is 4mm. The PTFE inlet and outlet tubes are connected into the flow cell with a M6 threaded connector. The tubing has an outer diameter of about 1.6mm and an inner diameter of about 1mm. The length of the tubing is approximately 400mm. Each cell is supplied with an inlet and an outlet tube. Extra tubing sets may be purchased.



Catalog Number	Path Length mm	Exterior, mm			Sample Chamber, mm			'Z' Dim mm	Nominal Vol. ml	Polished Windows	Price per cell
		Width	Length	Height	Width	Length	Height				
<i>Spectrosil® Far UV Quartz window, Useable range: 170 to 2700 nm</i>											
584.4-Q-0.01	0.01	12.5	12.5	35	4	0.01	17.5	8.5 & 15	0.036	2	\$ 914.40
584.4-Q-0.05	0.05	12.5	12.5	35	4	0.05	17.5	8.5 & 15	0.039	2	865.00
584.4-Q-0.1	0.1	12.5	12.5	35	4	0.1	17.5	8.5 & 15	0.041	2	730.45
584.4-Q-0.2	0.2	12.5	12.5	35	4	0.2	17.5	8.5 & 15	0.047	2	730.45
584.4-Q-0.5	0.5	12.5	12.5	35	4	0.5	17.5	8.5 & 15	0.095	2	730.45
584.4-Q-1	1	12.5	12.5	35	4	1	17.5	8.5 & 15	0.120	2	568.55
584.4-Q-2	2	12.5	12.5	35	4	2	17.5	8.5 & 15	0.240	2	568.55
M6-SET	Set of extra inlet/outlet tubes with M6 connectors (two tubes per set)										91.90