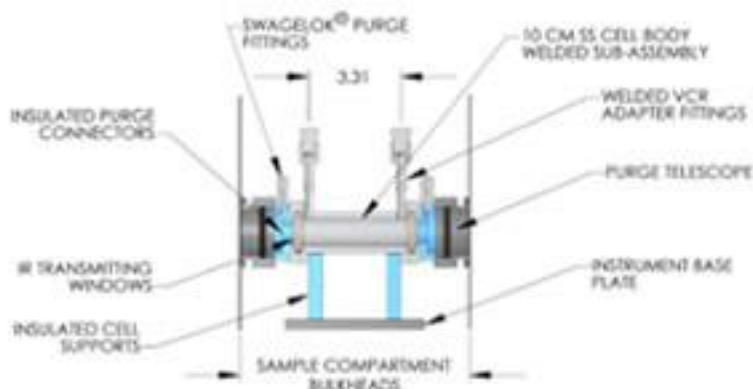


# Mercury™ Single Pass Short Path Length Stainless Steel Specialty Gas Cells



**Heated 10cm Mercury™ cell with valve kit and temperature controller**



Short Path Gas cells are useful for pure gases and, generally speaking, for concentrations of not less than 100 ppm. Cell utility for various ppm concentrations is dependent not only on path length, but also on the absorbance characteristics of the sample. Feel free to consult with us on these and any other issues concerning selection of an appropriate gas cell.

ICL's Gemini™ gas cell line begins with our Mercury™ short path length single pass gas cells constructed of electropolished 316 Stainless Steel, available in standard path lengths of 1cm, 2cm, 3cm, 5cm, 10cm and 15cm. Custom path length cells for a variety of applications are also available.

These robustly constructed gas cells are ideal for specialty gas analysis, because they are leak tight and capable of high vacuum performance exceeding  $1 \times 10^{-8}$  Torr, and they also can be made pressure-safe with appropriate window material and thickness selection. Each Mercury™ cell is individually helium leak tested or hydrostatically tested and a test certificate can be supplied with any cell for \$299.00 (Part No. 0009-9281).

Mercury™ cell configurations include base plate mounted, slide mounted and heated versions with temperature controllers. Purge maintaining connectors or couplers extending from the cell body to the sample compartment walls are standard on many base plate mounted models and purge gas connections are an available option. A wide variety of window materials can be used. Wedged windows are available to limit fringing. Instrument specific spectrophotometer interfaces are available.



Mercury™ cells feature high-vacuum welded gas fittings without valves comprising the sample inlet and outlet to maintain the leak-free integrity of the cell and assure high vacuum performance. Inlets and outlets comprise a Swagelok® VCR gland, a VCR female nut, a male VCR nut and a 1/4" Swagelok® adapter. Valve kits are available.

Several common Mercury™ cell configurations are shown, but custom configurations are available upon request. Prices do not include windows, which can be selected from our transmission window price list. RFQ for wedged windows. Cell mounting and other hardware, exclusive of the cell body material and valves, is black anodized aluminum.

0008-9272	MERCURY™ SS GAS CELL-15CM PATH/0.15L VOL-SINGLE PASS	0.15 L
0008-9273	MERCURY™ SS GAS CELL-10 CM PATH/0.1 L VOL-SINGLE PASS	0.1 L
0008-9274	MERCURY™ SS GAS CELL-5 CM PATH/0.05 L VOL-SINGLE PASS	0.05 L
0008-9275	MERCURY™ SS GAS CELL-1 CM PATH/0.01 L VOL-SINGLE PASS	0.01 L
0008-9276	MERCURY™ SS GAS CELL-1 CM PATH/0.01 L VOL-SINGLE PASS - Slide Mounted	0.01 L
0008-9277	MERCURY™ SS GAS CELL-5 CM PATH/0.05 L VOL-SINGLE PASS - Slide Mounted	0.05 L
0008-9278	Optional Heater Jacket for Mercury™ or Venus™ Gas Cells	N/A
0008-9279	Spectrophotometer-Specific Interface for Gemini™ Mercury™, Venus™, Mars™, Earth™ or Saturn™ Gas Cells	
0008-9280	Replacement Valve Kit for Gemini™ Mercury™, Venus™, Mars™, Earth™ or Saturn™ Gas Cells	
0017-5548	High Stability PID Digital readout Temperature Controller, 115 volts	
0017-4804	High Stability PID Digital readout Temperature Controller, 230 volts, CE marked	
0002J-9385	Pair of 37.5 x 4mm ZnSe optics, wedged, one side AR coated	