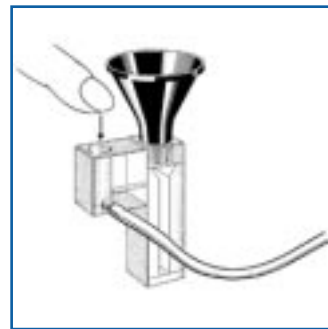




2.2.11 Suction Cells

2.2.11 Suction Cells semi-micro | with plastic funnel of 30 mm Ø

Suction cells are designed so that the sample to be analysed can be introduced and sucked out without removing the cell from the photometer. Suction cells are equipped with a removable plastic funnel whose large opening makes the filling of the cells safe and easy. The cells are emptied through a channel which runs from the base of the cells up one of the side walls. To achieve the necessary suction we recommend the use of one of the commonly available suction pumps.



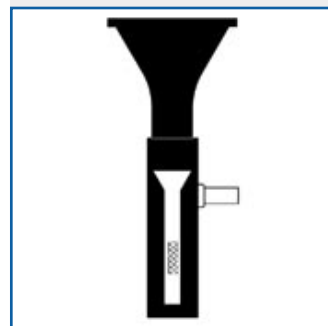
Some of the suction cells are fitted with a suction control block on one of the side walls. The suction control block has a finger seal as well as a connection for a suction pump, which should be kept running continuously. These cells offer the advantage of being easily emptied by covering the opening of the siphon in the control block.

Suction cell

Hellma suction cells are available in various heights since cell holders differ in height depending on the instrument manufacturer and type. A second dimension which should be taken into account, apart from the total height of the cell, is the distance from the base of the cell to the bottom of the suction control block. You will find these dimensions with the respective cell models on the following pages.

No Stray Light

It is important for the successful operation of these cells that the light beam pass through the measuring chamber unhindered. Make sure that the cross-sectional area of the measuring beam is chosen correctly and that the cell is positioned accurately in the holder. The black side walls and base ensure that no external or stray light influences the measurement. The cross-sectional area of the light beam (figure 1.8.2) should be chosen smaller than the cell aperture so that the side walls and the base do not come into contact with the light beam.



Cross-sectional area of the measuring beam

Catalogue Number	Window Material	Light Path mm	Outside Dim. H x W x D mm	Inside Width mm	Base Thickn. mm	Distance from Base to Bottom Suction Block mm	Volume μ l	Remarks
150.004B-OS	Special Optical Glass	10	70 x 12.5 x 12.5	4	2.5	55	1800	
150.004B-QS	Quartz SUPRASIL	10	70 x 12.5 x 12.5	4	2.5	55	1800	
150.036-QS	Quartz SUPRASIL	10	50 x 12.5 x 12.5	4	3.2	36	1200	transparent side walls

ultra-micro | suction hole on the side facing upwards

150.085-QS	Quartz SUPRASIL	10	15 x 12.5 x 12.5		1.5		50	
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semi-micro | with suction block and plastic funnel of 30 mm Ø

152.610-OS	Special Optical Glass	10	41 x 12.5 x 12.5	4	6.5	22	800	transparent side walls
152.620-OS	Special Optical Glass	10	53 x 12.5 x 12.5	4	2.5	39	1400	
152.621-OS	Special Optical Glass	10	53 x 12.5 x 12.5	3	2.5	39	1100	
152.650-OS	Special Optical Glass	10	42 x 12.5 x 12.5	4	2	23	1100	

