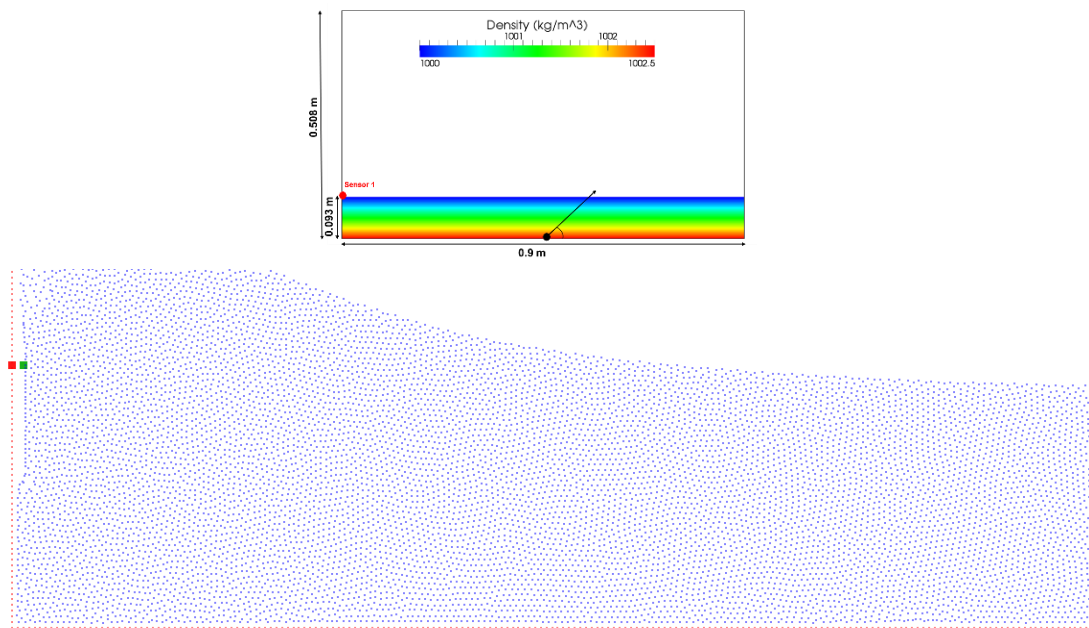


Due to the use of the dynamic boundaries, probes used for measuring quantities should not be placed at the exact position of boundary particles. The forces exerted by the boundary particles create a small gap between them and fluid particles; as a result, probes placed inside the gap will have a reduced fluid particle population and will produce either an incorrect or no result.

To avoid this issue, it is proposed that probes are placed at a distance $1.5h$ from the boundary positions. An example is seen for **CaseSloshing**, where the **PointsPressure_Incorrect** probes are placed at the exact position as the boundary particles, while the **PointsPressure_Correct** probes are placed at a distance of $1.5h$ (for the default conditions and parameters of the case) from the boundaries. The first probes produce no pressure results as the number of fluid particles for the interpolation is too small, while the second shows the pressure impact by the water flow.



Note that the probes are not automatically associated with the smoothing length h and their position has to be changed manually if the resolution changes. Also, note that by increasing resolution (i.e. using a smaller “dp”) the gap is reduced.

Using “**__Sloshing_Rotation.xlsb**”, the user can modify the value of $1.5h$ to obtain new positions to be used with MeasureTool.