Linear Flow Orifice Meter Configurable Component

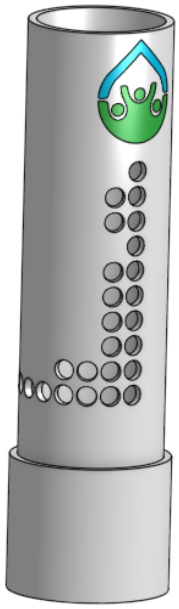

Figure 1: The Linear Flow Orifice Meter measures the flow of water through the plant and creates a linear relationship between plant flow rate and the depth of water in the entrance tank.

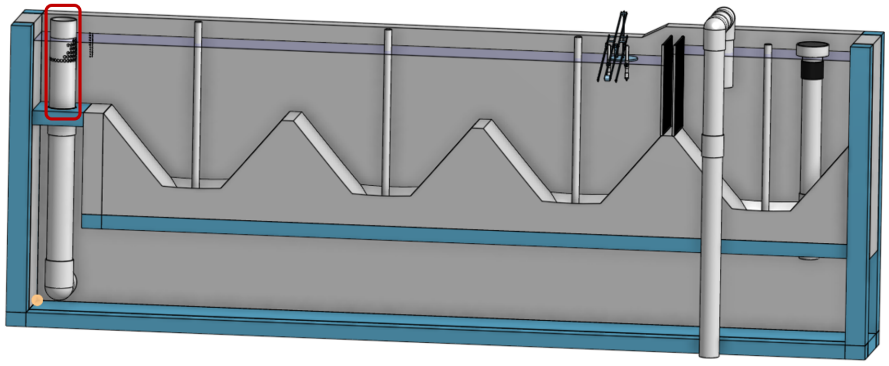

Figure 2: The Linear Flow Orifice Meter (outlined in red) is located in the entrance tank.

Generate New Models of the Linear Flow Orifice Meter

Edit the configurations to create new models of the Linear Flow Orifice Meter. Send us to share how you are using the LFOM model, to give us suggestions for how to make these models easier to use, and to report any bugs.

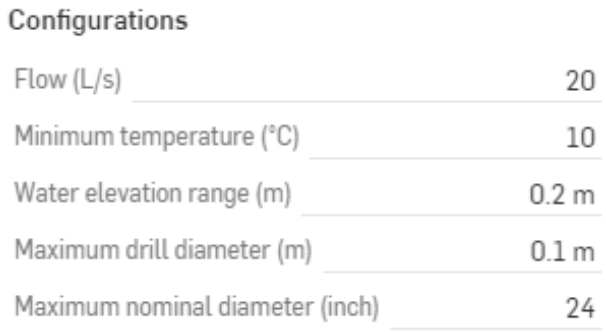

Figure 3: The configuration options for the Linear Flow Orifice Meter.

Table 2: Linear Flow Orifice Meter configurations.

Configuration	Description
Flow (L/s)	The maximum flow rate sets the size of the Linear Flow Orifice Meter. Vary it to see how the dimensions change.
Minimum temperature ($^\circ$C)	The flow is turbulent throughout the Linear Flow Orifice Meter and thus temperature doesn't have a significant effect on the design.
Water elevation range (m)	Change in water elevation in the entrance tank that corresponds to the flow varying from 0 L/s up to the maximum design flow rate.
Maximum drill diameter (m)	Used to limit the drill bit size required to fabricate the LFOM.
Maximum nominal diameter (inch)	Used to set a maximum pipe size. For higher flow rates the LFOM will increase the water elevation range so the pipe can carry more flow.

Additional information is available in *The Physics of Water Treatment* in the section on Linear Flow Orifice Meter