

## Linear Flow Orifice Meter Configurable Component

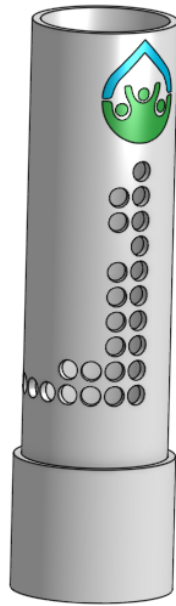


Figure 1: The Linear Flow Orifice Meter measures the flow of water through the plant and creates a linear relationship between plant flow rate and the depth of water in the entrance tank.

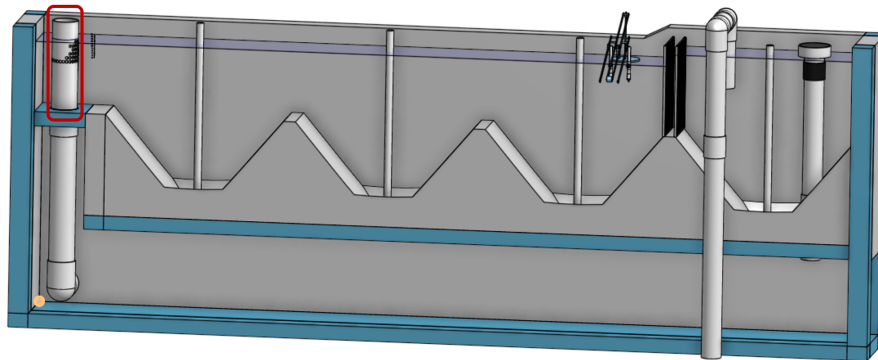


Figure 2: The Linear Flow Orifice Meter (outlined in red) is located in the entrance tank.

## Generate New Models of the Linear Flow Orifice Meter

Edit the configurations to create new models of the Linear Flow Orifice Meter. Send us [AIDE Feedback](#) to share how you are using the LFOM model and to give us suggestions for how to make these models easier to use.

### Configurations

Flow (L/s)	20
Minimum temperature (°C)	10
Water elevation range (m)	0.2 m
Maximum drill diameter (m)	0.1 m
Maximum nominal diameter (inch)	24

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 ( ° 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