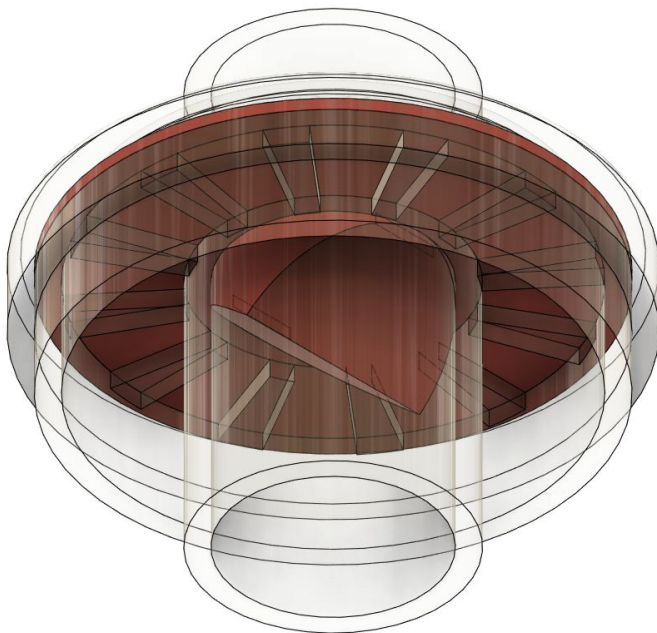
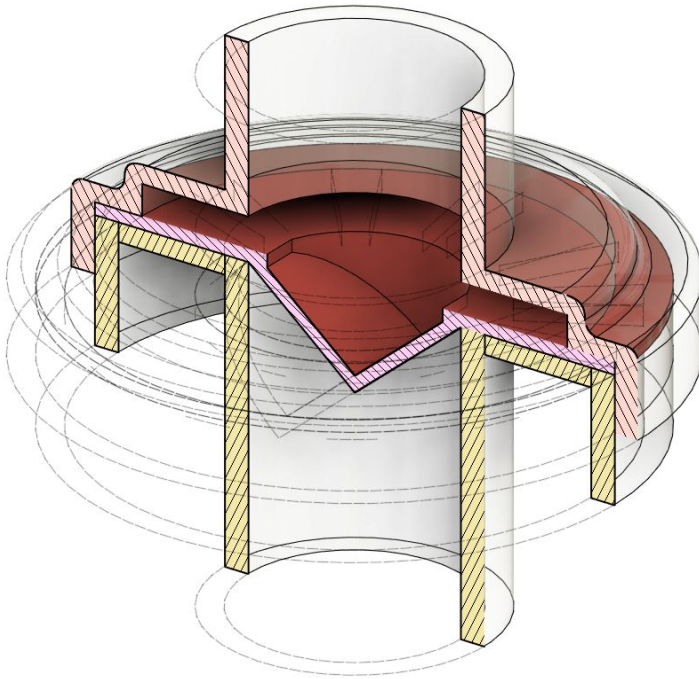


## Simplified model



Connections: input (top), to patient (bottom)

The patient manifold (as shown here) consists of a duck bill valve which (a) closes the exhalation port and allows inhalation when pressured from the input side, and (b) opens during exhale and controls PEEP due to its stiffness

An additional spring loaded adjustment can increase/decrease PEEP by providing additional pressure against the back of the diaphragm. Alternatively, different diaphragms can be used for different PEEP levels.

Not shown: anti-suffocation flutter valve; airway pressure manifold; PEEP adjustment

A piston and spring based version can also be used; it is likely to be a bit more complex