**Open Source Ventilator**

**Exhalation Module**

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The exhalation valve is closed when inspiration occurs so that gas from the inspiration module flows to the patient’s lungs. The exhalation valve opens to allow the patient to exhale.

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| **Physical Input**  | **Data/Control Input** | **Physical Output**  | **Status**  |
| **Design A (balloon exhalation valve with solenoid-activated pilot valve)** Exhaled gas from patient  | Time exhalation valve should be open Time exhalation should be closed | Exhaled gas from patientInlet and outlet to exhalation module must accept 22 mm corrugated hose used in breathing circuitWhen open, resistance to flow through exhalation valve must be low (≤ 3 cm H2O/l/s)  | Not claimed; No one working on it yet |
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| **Design B (exhalation valve with solenoid-activated gate or disc)** Exhaled gas from patient  | Time exhalation valve should be open Time exhalation should be closed | Exhaled gas from patientInlet and outlet to exhalation module must accept 22 mm corrugated hose used in breathing circuitWhen open, resistance to flow through exhalation valve must be low (≤ 3 cm H2O/l/s)  | Not claimed; No one working on it yet |
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| **Other?** |  |  |  |
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