# Table: FlowRegulators

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| **Schema:** | SystemSchematicBuilder |
| **Responsible:** | Kurt A Vedros |

Table holds all information on the flowregulator sub parts.

Flow Regulator – a component of the database used to hold information of if the part is allowing flow or not.

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| **Column Name** | **Data type** | **Description** |
| FlowRegulatorID | Int | Primary Key to FlowRegulators Table |
| Name | String | User given name of the flow regulator, may be left as blank. |
| IsOpen | Bit | A binary operator used to determine if the flow regulator is open, 1, or closed , 0. |

**Procedures (Database functions)**

* sprocGetFlowRegulators
  + Returns a list of FlowRegulator objects that are currently stored in the database.
* sprocGetFlowRegulator
  + Returns a FlowRegulator object that is currently stored in the database that has the given FlowRegulator ID number.
* sproc\_FlowRegulatorAdd
  + Stores the given FlowRegulator object into the database and returns its assigned FlowRegulator ID number.
* sproc\_FlowRegulatorUpdate
  + Changes information of the FlowRegulators Table in the database with the given primary key to the given FlowRegulator class object.
* sproc\_FlowRegulatorRemove
  + Removes the FlowRegulator from the FlowRegulators Table with the given FlowRegulator ID number.

**DAL (Software Functions)**

* FlowRegulatorsGetAll()
  + Returns a list of FlowRegulator objects that are currently stored in the database.
* FlowRegulatorGet(int ID)
  + Returns a FlowRegulator object that is currently stored in the database that has the given FlowRegulator ID number.
* FlowRegulatorAdd(FlowRegulator FlowRegulator)
  + Stores the given FlowRegulator object into the database and returns its assigned FlowRegulator ID number. Returns -1 if error occurred, otherwise returns null.
* FlowRegulatorUpdate(FlowRegulator FlowRegulator)
  + Changes a FlowRegulator object that is currently stored in the database with the given FlowRegulator’s FlowRegulator.ID with the FlowRegulator’s information.
* FlowRegulatorRemove(int ID)
  + Removes the FlowRegulator object stored in the database with the given FlowRegulator ID number. Returns -1 if error occurred, otherwise returns null.