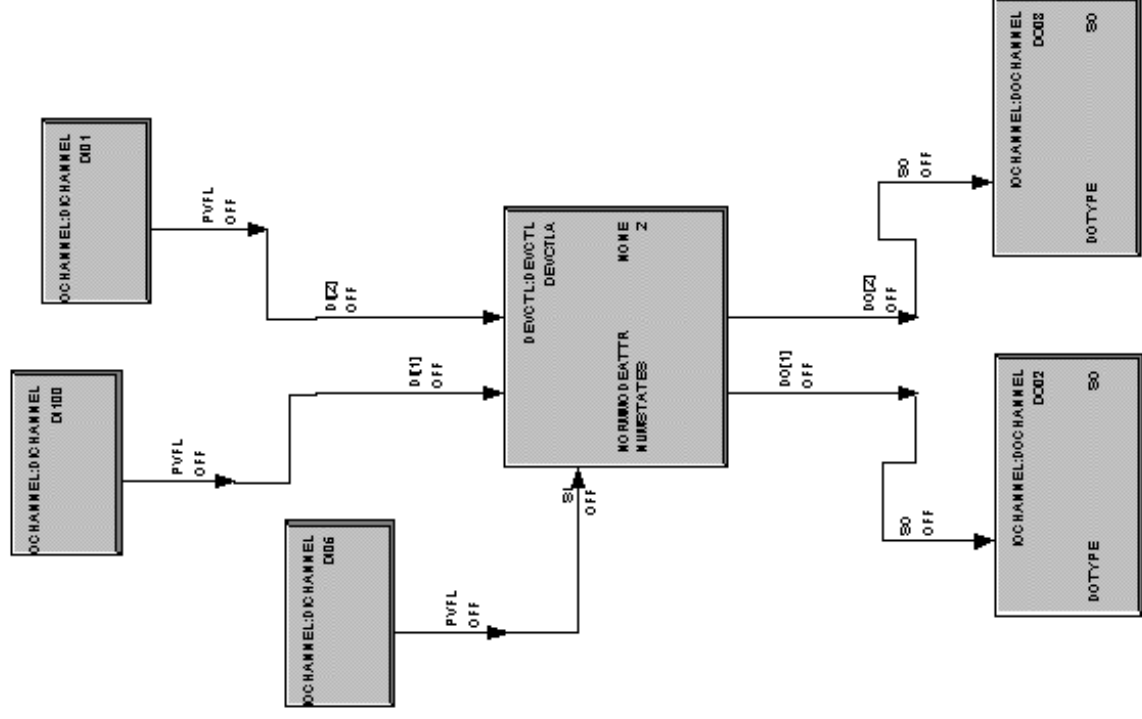


Lesson 3. Configuring a Device Control Block

Objectives:

- Understand Device Control CMs
 - Concepts
 - I/O
 - Interlocks

Device Control Module

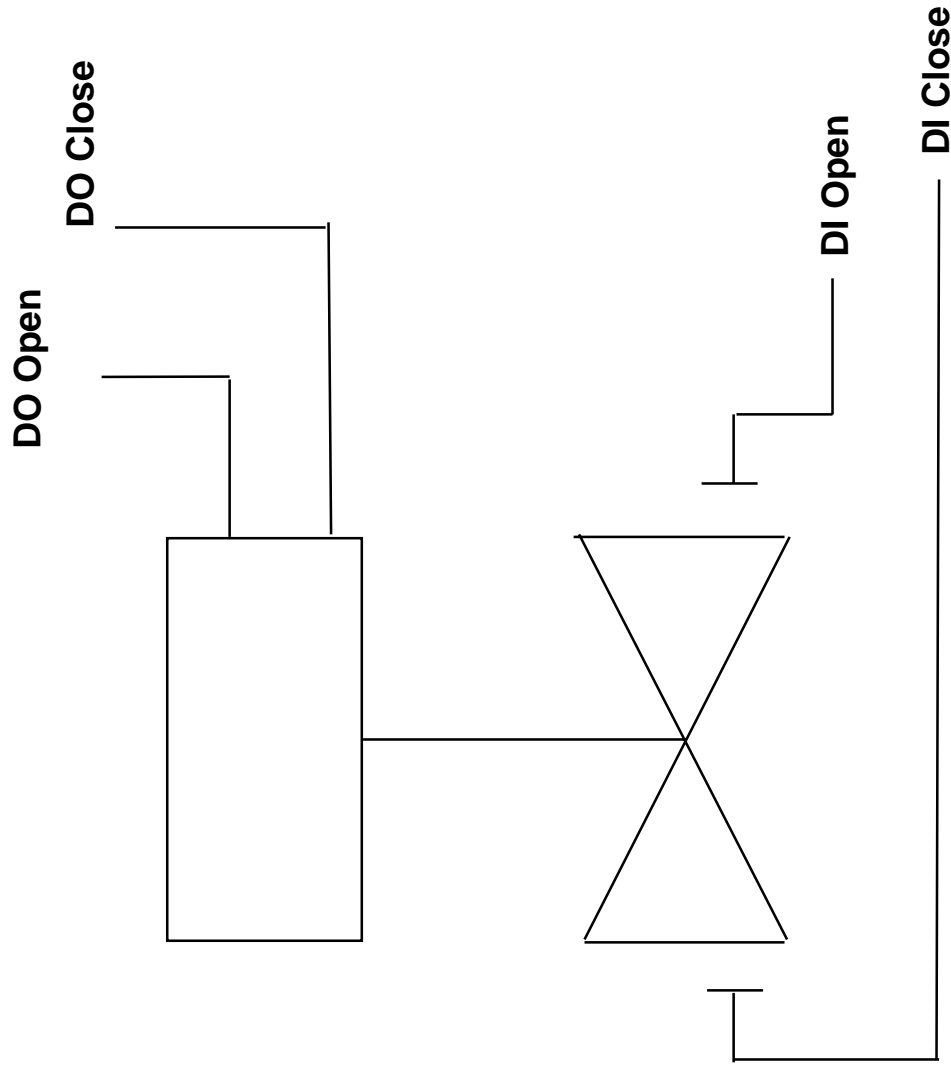


Configuring a Device Control Block

Step 1. Configure the Digital Outputs (DO).

Step 2. Configure the Digital Inputs (DI) as feedback
from the DO.

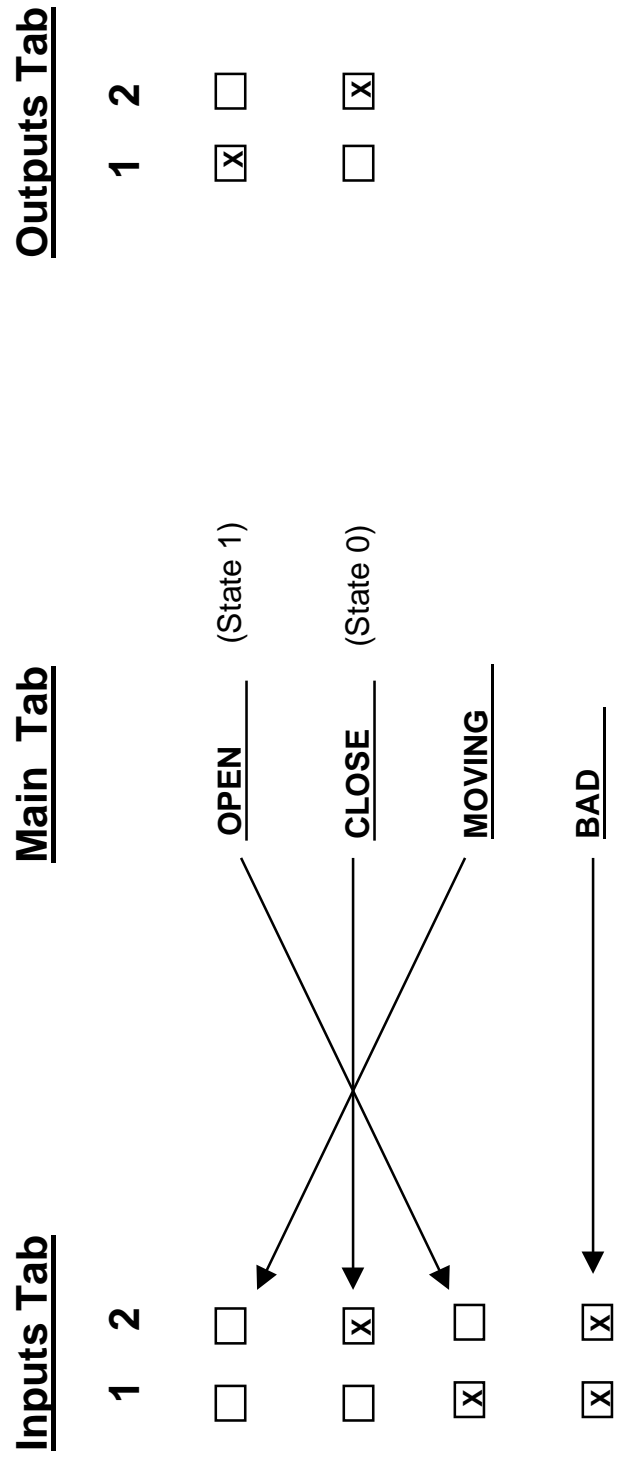
Valve Configuration Example



Valve Example DO Settings

- **Digital Outputs control the valve**
- **Assign DO 1 to the OPEN DO channel**
- **Assign DO 2 to the CLOSE DO channel**

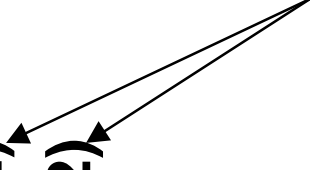
Valve Example State Assignments



Valve Example DI Settings

- Set the DI to reflect what the DO has accomplished
- Remember, it could take a few seconds for the command to complete (e.g., closing a valve)
- Set the Digital Inputs 1 and 2 to reflect what the corresponding settings for the Digital Outputs (DO 1 and DI 1 are open; DO 2 and DI 2 are closed)

Interlocks

- **Configure Operational Interlocks**
 - **Permissives: P(0), P(1), and P(2)**
 - **Overrides: OI(0), OI(1), and OI(2)**
 - **Configure Safety Override: SI**
- 
- (3-state devices)**