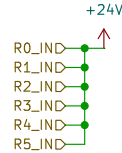
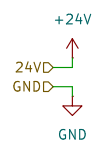
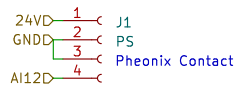


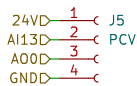
## Power Source



## Dispense



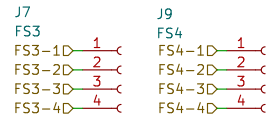
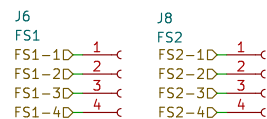
Pressure Sensor



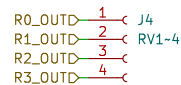
Proportional Control Valve



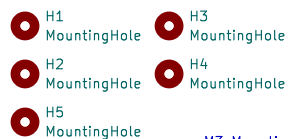
Reagent Bottle Media Valves



Flow Sensors



Reagent Bottle Media Valves



M3 Mounting Holes



Leak Detection

## Waste



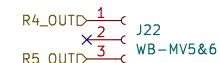
Waste Line Sensors



Waste Bottle Sensors

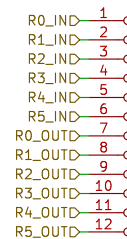


Waste Bottle 2/2 Media Valves



Waste Bottle 3/2 Media Valves

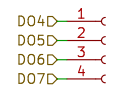
## Controllino Outbound



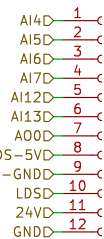
J10  
R0-R5



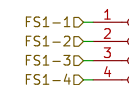
DigitalOUT 0-3



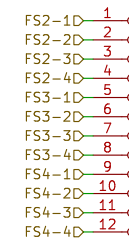
DigitalOUT 4-7



J17  
AnalogIOs



FS1



J21  
FS2-FS4

Moderna

Sheet: /

File: BreakoutBoard.kicad\_sch

Title: Bulk Dispenser Breakout Board

Size: A4

Date: 2025-06-10

KiCad E.D.A. 9.0.2

Rev: v 1.0

Id: 1/1