

Flowfields for SO₂ Depolarized Electrolyzers

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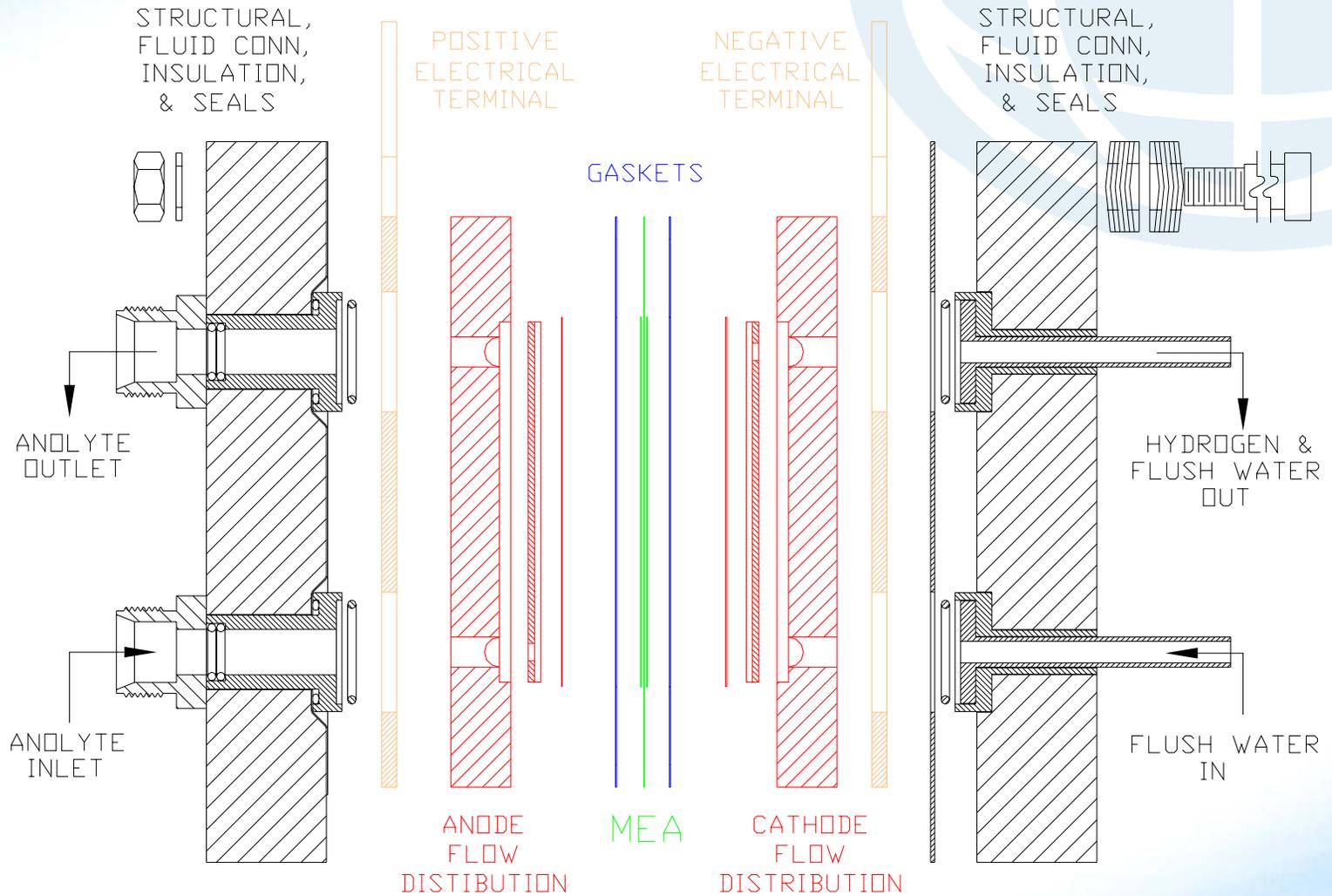


Considerations

Flowfield Considerations

- **Fuel Cells or Conventional H₂O Cells**
 - Entire anolyte is reactant
 - Serpentine pattern, screen pack, or porous plate
 - Pressure drop
- **SO₂ Depolarized Electrolyzers**
 - 3-6% of anolyte is reactant
 - Interdigitized pattern
 - Even distribution

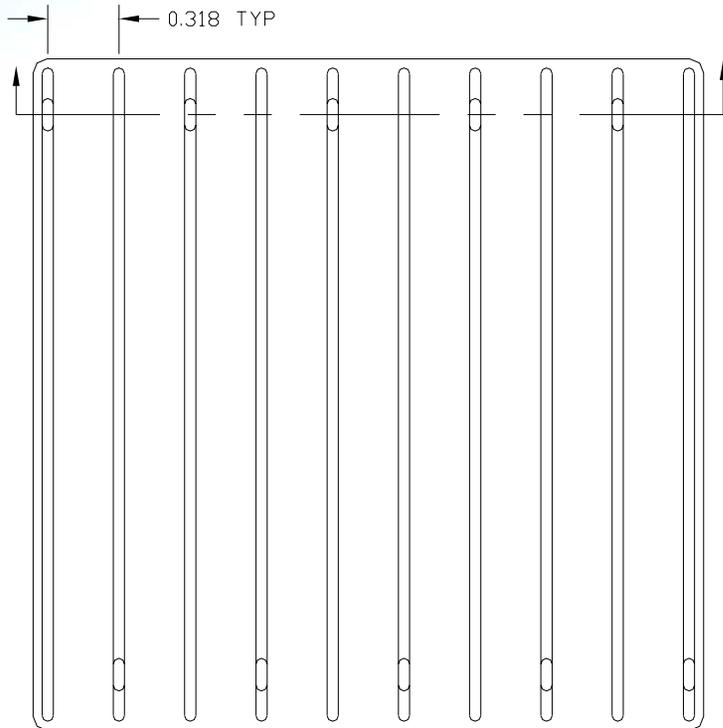
60 Cm² Single Cell Experiments



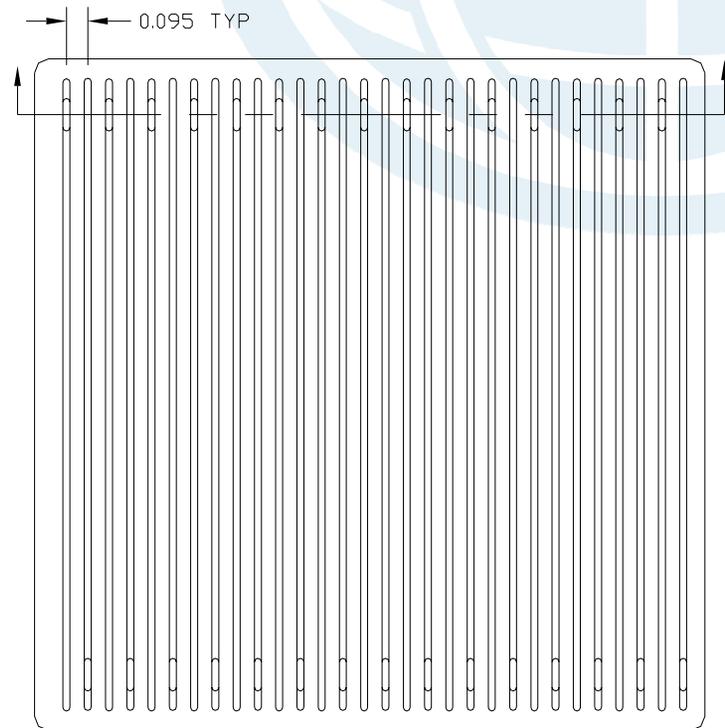
60 Cm² Single Cell Experiment



60 Cm² Single Cell Experiment

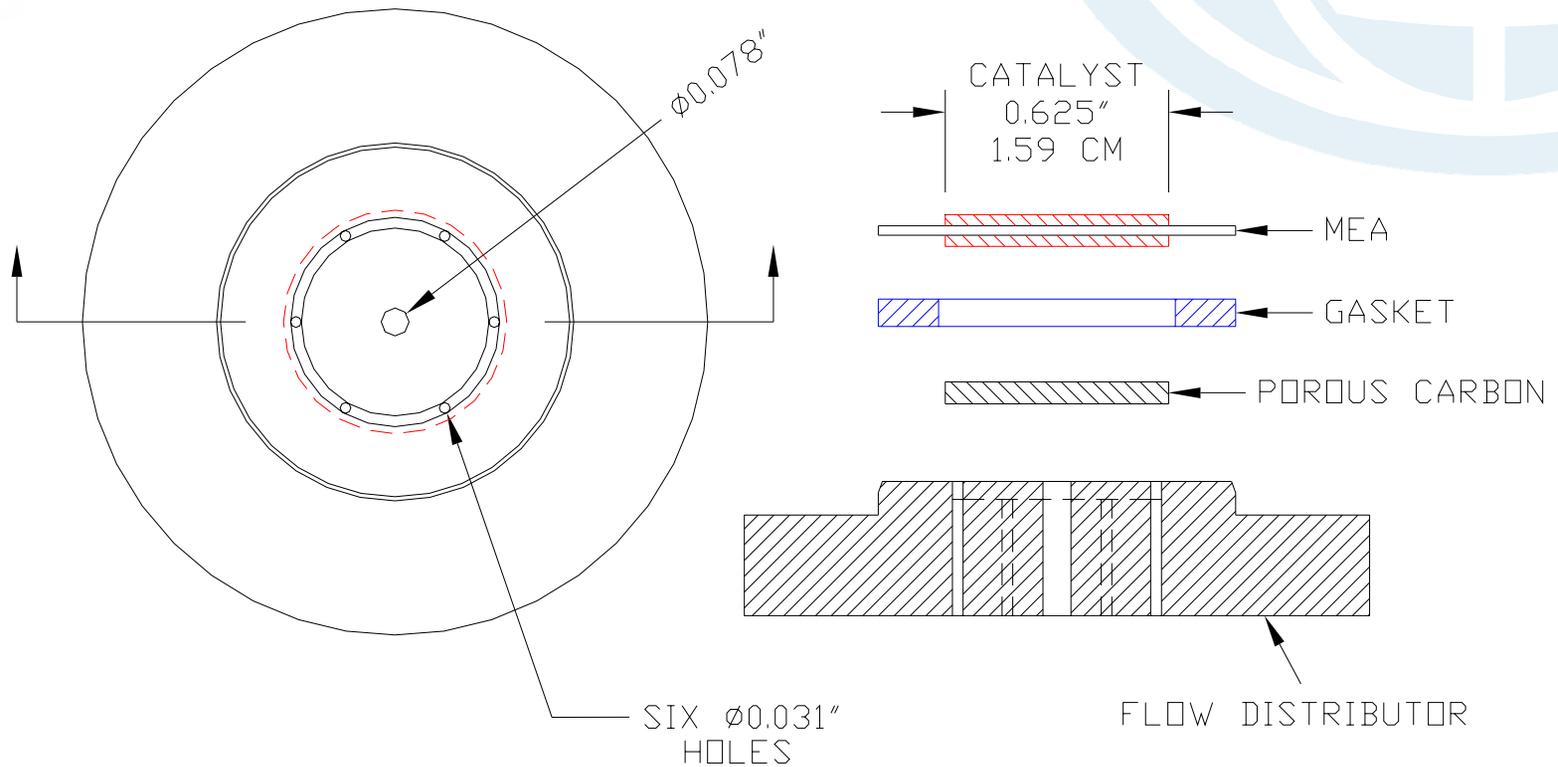


ANODE INSERT

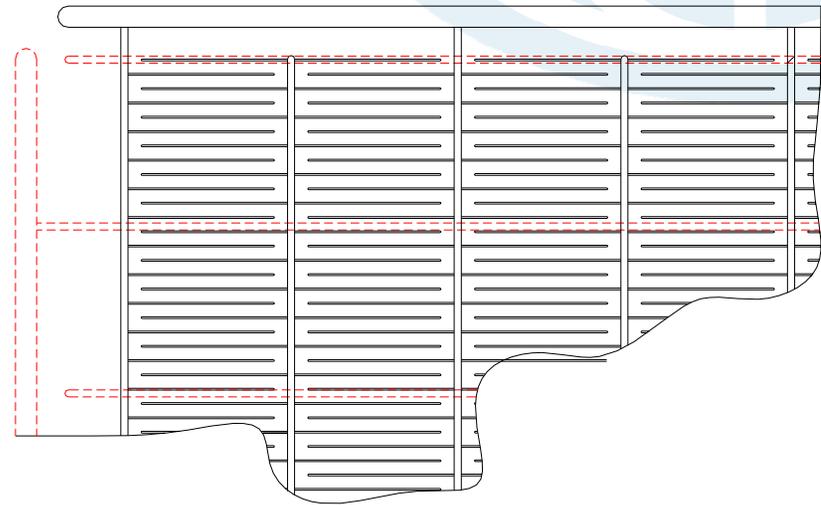
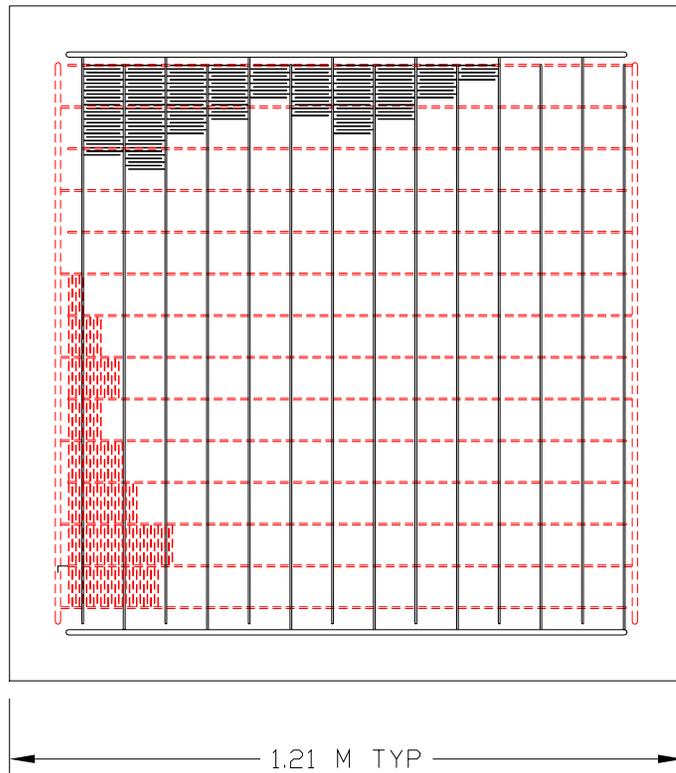


CATHODE INSERT

2 Cm² Button Cell Design



1 M² per Cell Commercial Electrolyzer



4X DETAIL