GS System

Glove Extender for VHP Decontamination

Presented by:

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GS Glove Extender System

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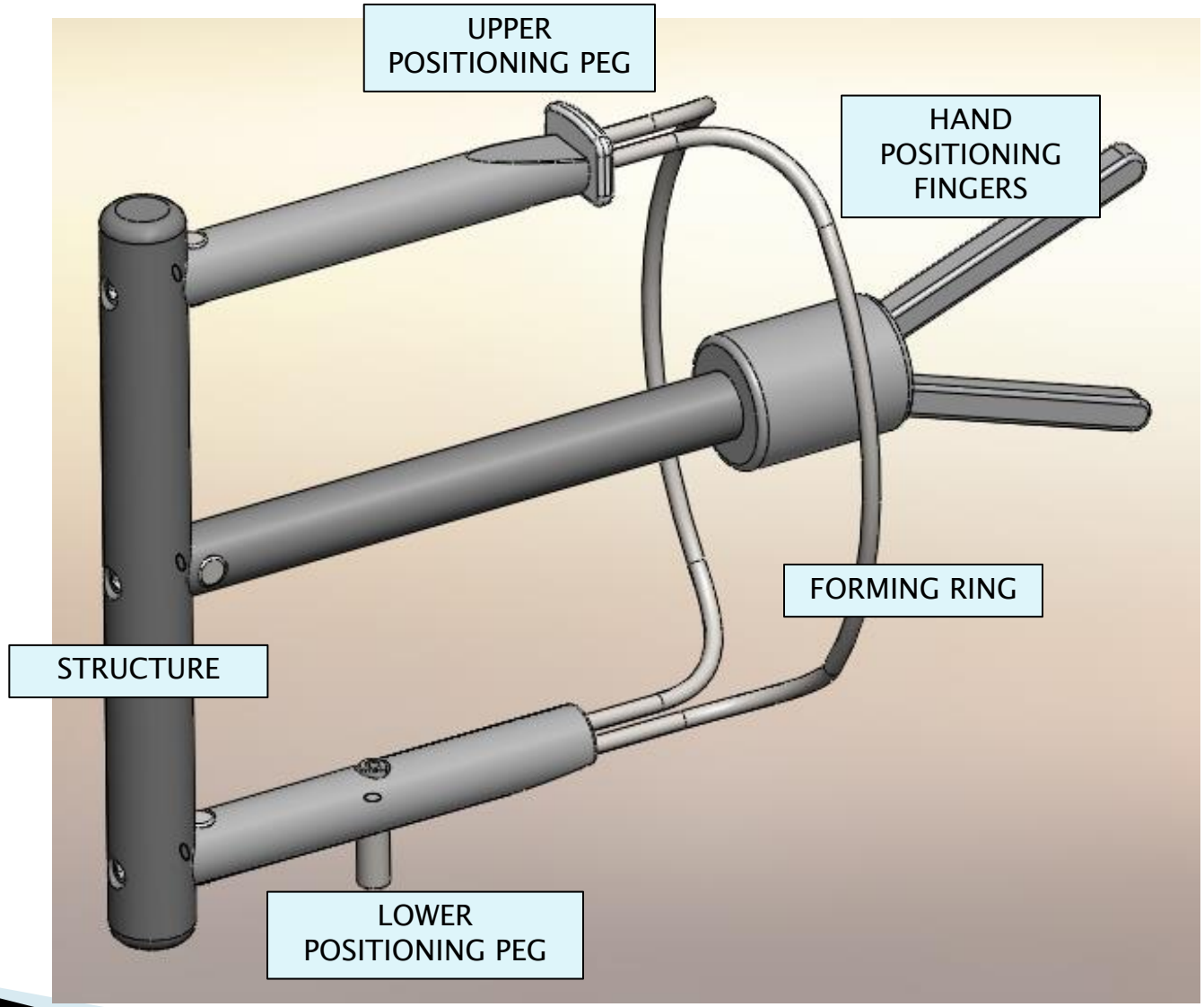
GS System Description

The GS System is a glove support system that accurately positions the glove and sleeve assembly of the barrier isolator system during the Vapor Hydrogen Peroxide decontamination process.

The GS System positions the glove and the sleeve of the gauntlet concentric to each other. This reduces the penetration of the glove into the isolator and assures of minimum contact between surfaces during the gassing process.

GS System Description



Features

- Plastic and stainless steel construction designed to fit the geometry of the gloveport
- Stainless steel ring that precisely positions the sleeve concentric to the cuff/glove
- "Hand" with articulated fingers that positions and spreads the fingers of the glove during gassing
- Wrist joint, for those applications requiring minimal intrusion into the isolator volume (optional)

Specification

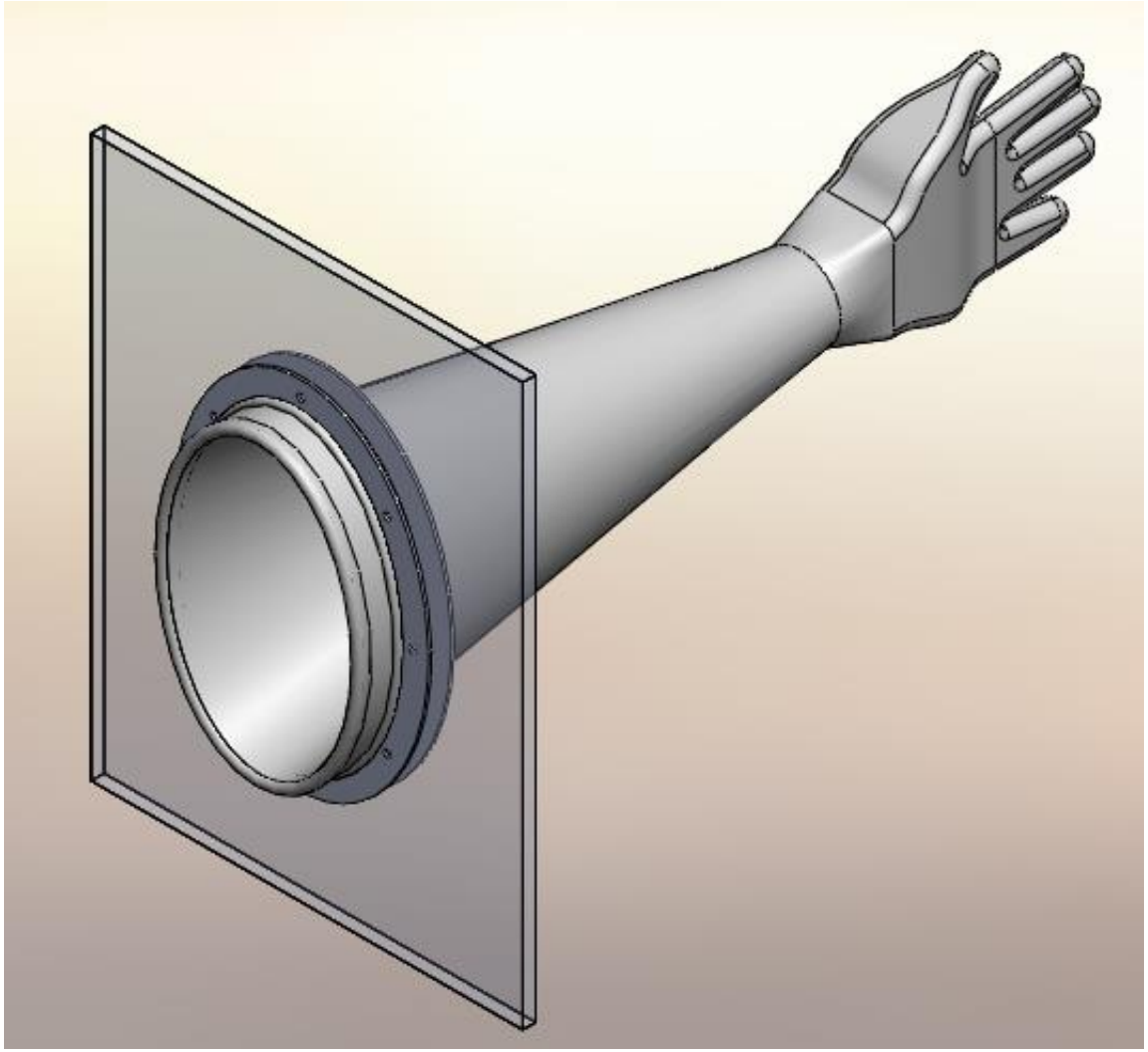
- Designed to fits any type of gloveport/sleeve/cuff and glove combination.
- Installation distances: adjustable and set to the application.
- GS structure: machined PVC plastic.
- Sleeve supporting ring: 304 stainless steel.
- Glove support: machined PVC plastic.
- Typical intrusion into isolator: 200-300mm

Customization

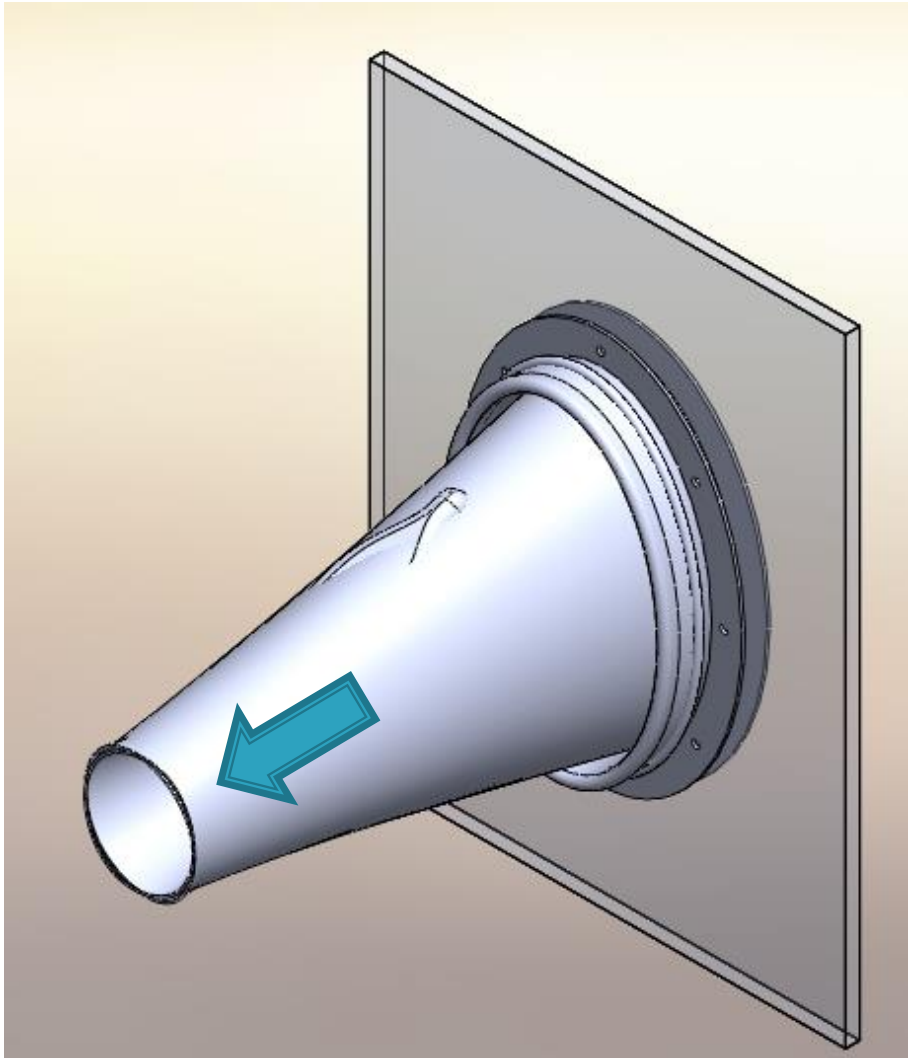
- The GS system size and configuration is developed to fit the customer's gloveport
- If at all possible, the GS system will be attached to the gloveport by positive means, a locking thumbscrew for example.
- If attachment is not possible because of the geometry of the gloveport, an interference method will be used. See the following installation example for such a method.
- Interface to each gloveport style requires an individual evaluation

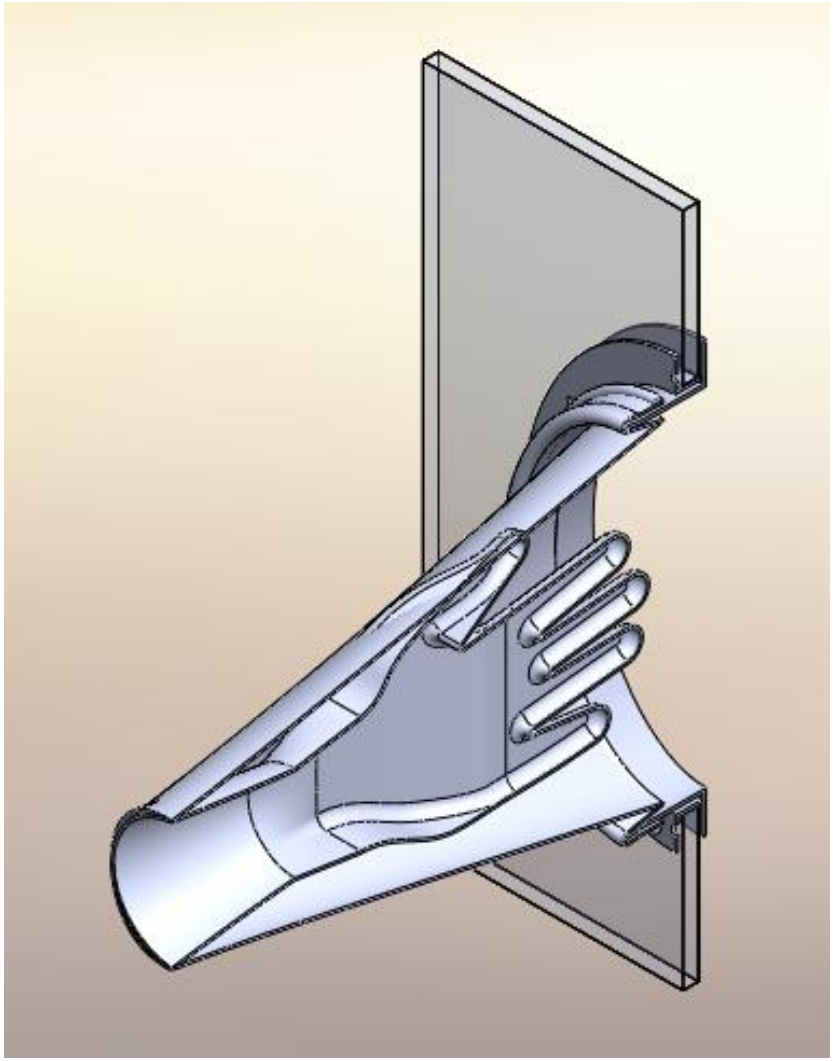
Installation Process

Start – Glove in normal position in isolator

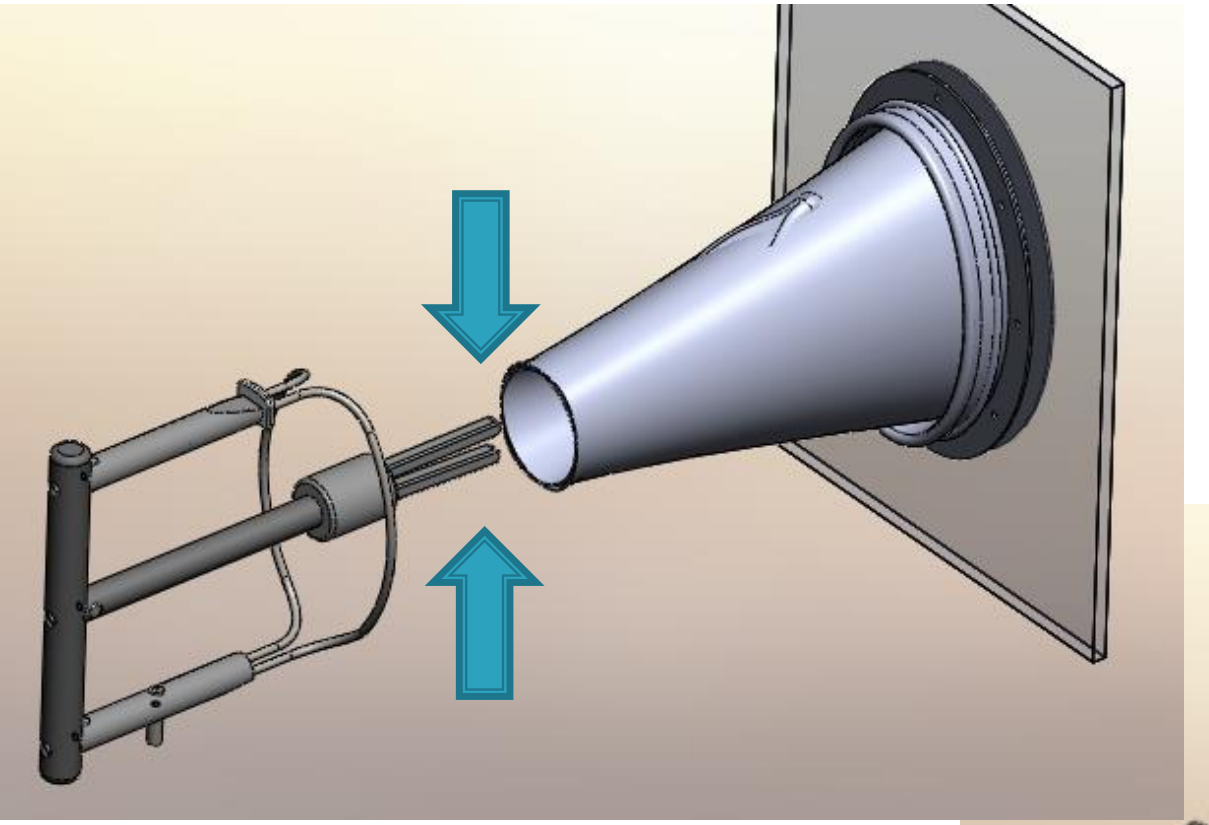


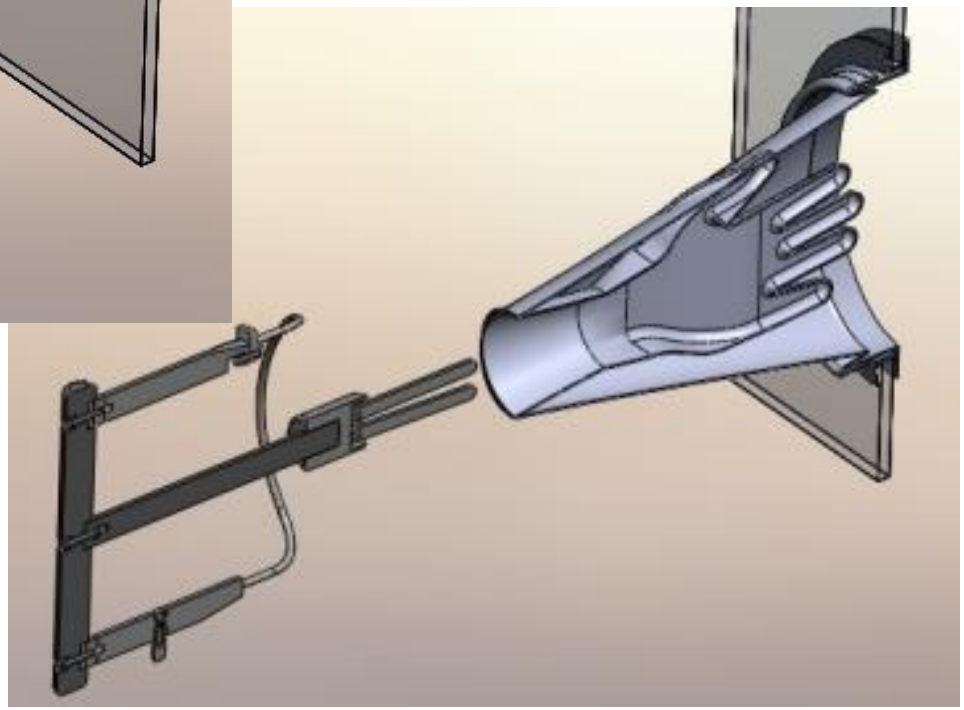
Step 1 – Glove partially reversed to outside



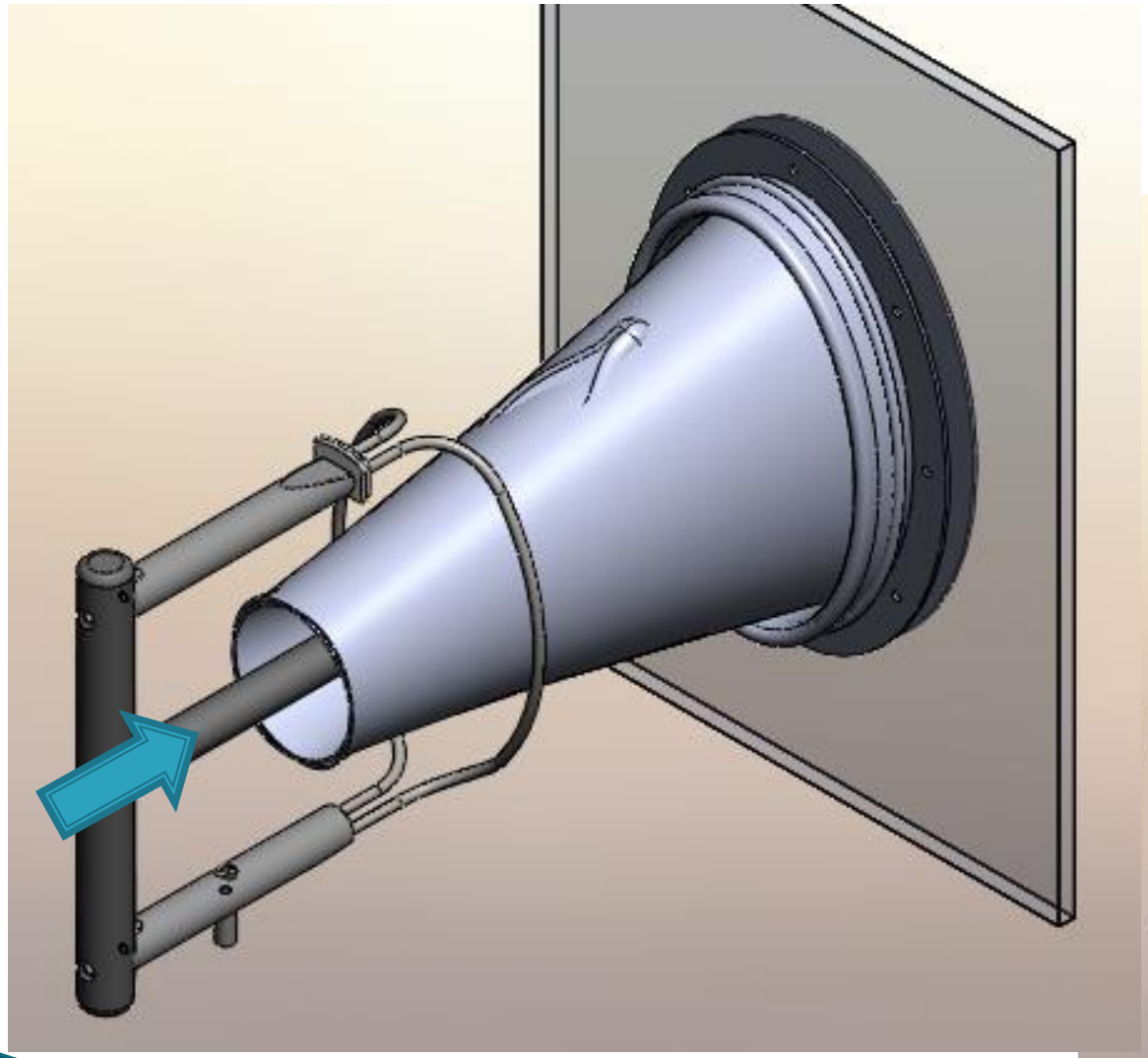


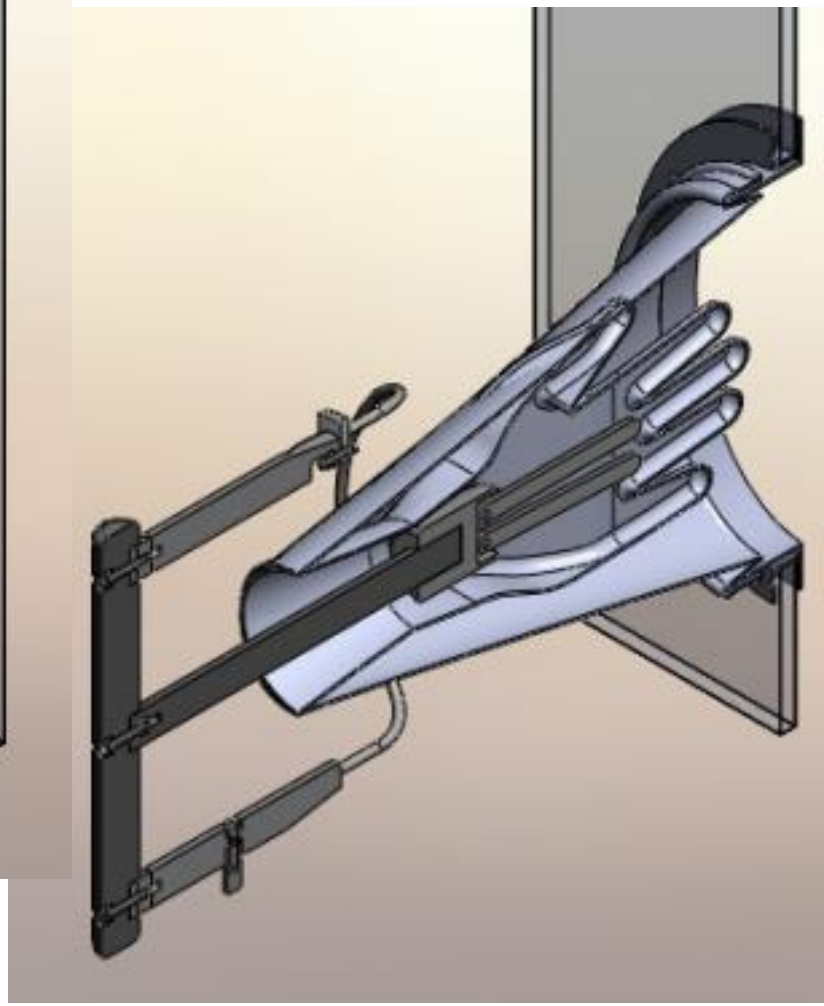
Step 2 – Squeeze fingers of GS together





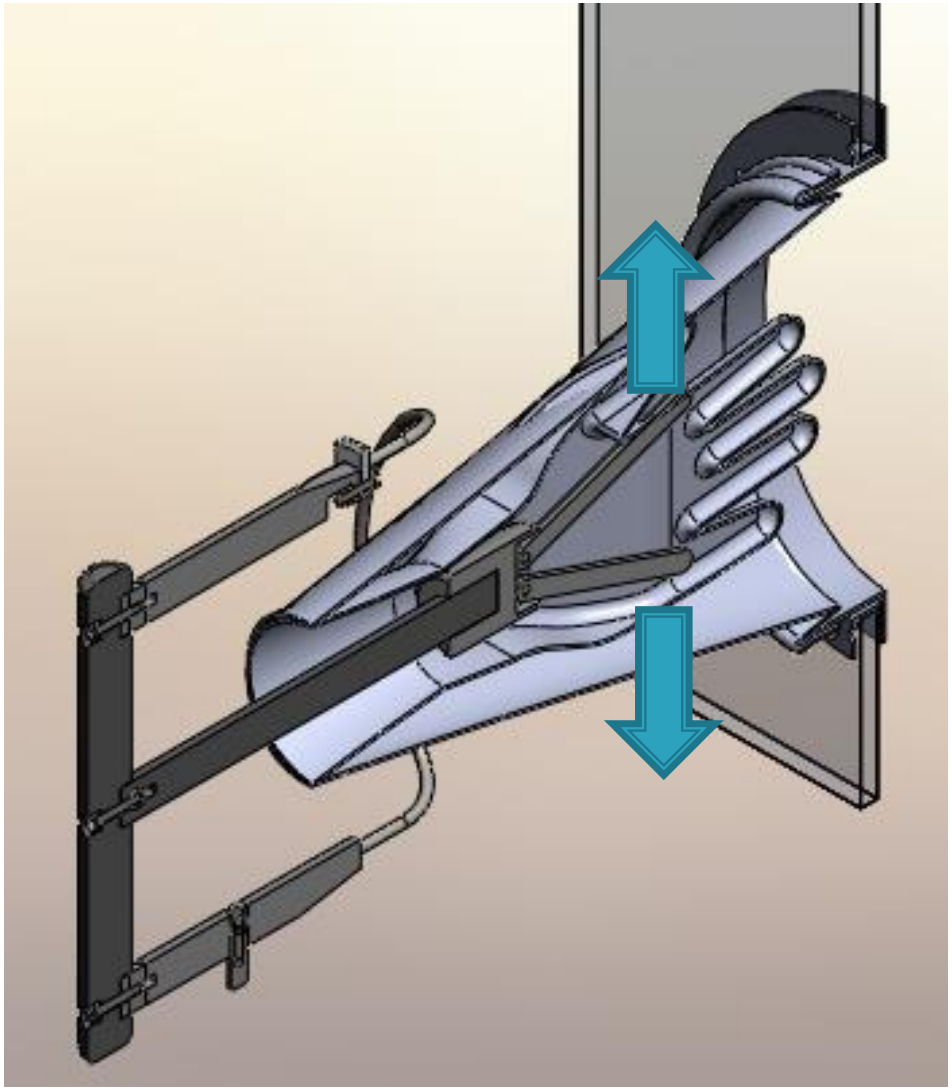
Step 3 – Insert GS into hand of glove





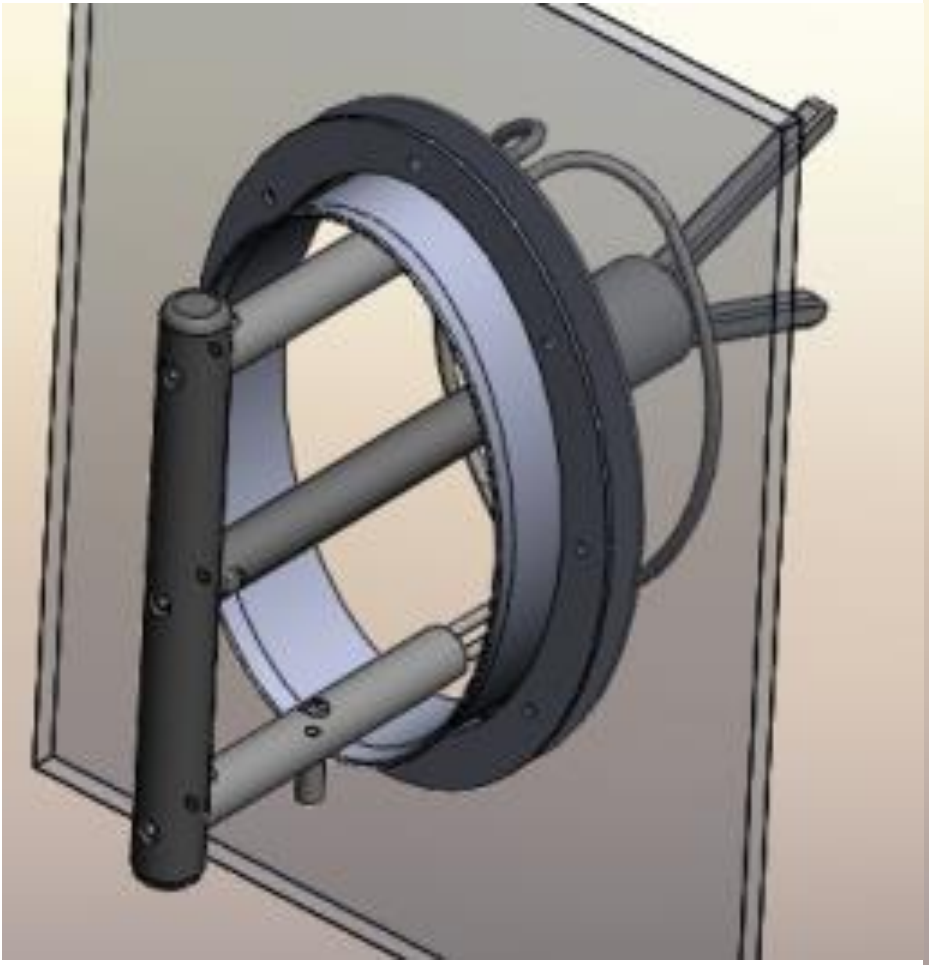
Step 4 – Spread fingers in glove

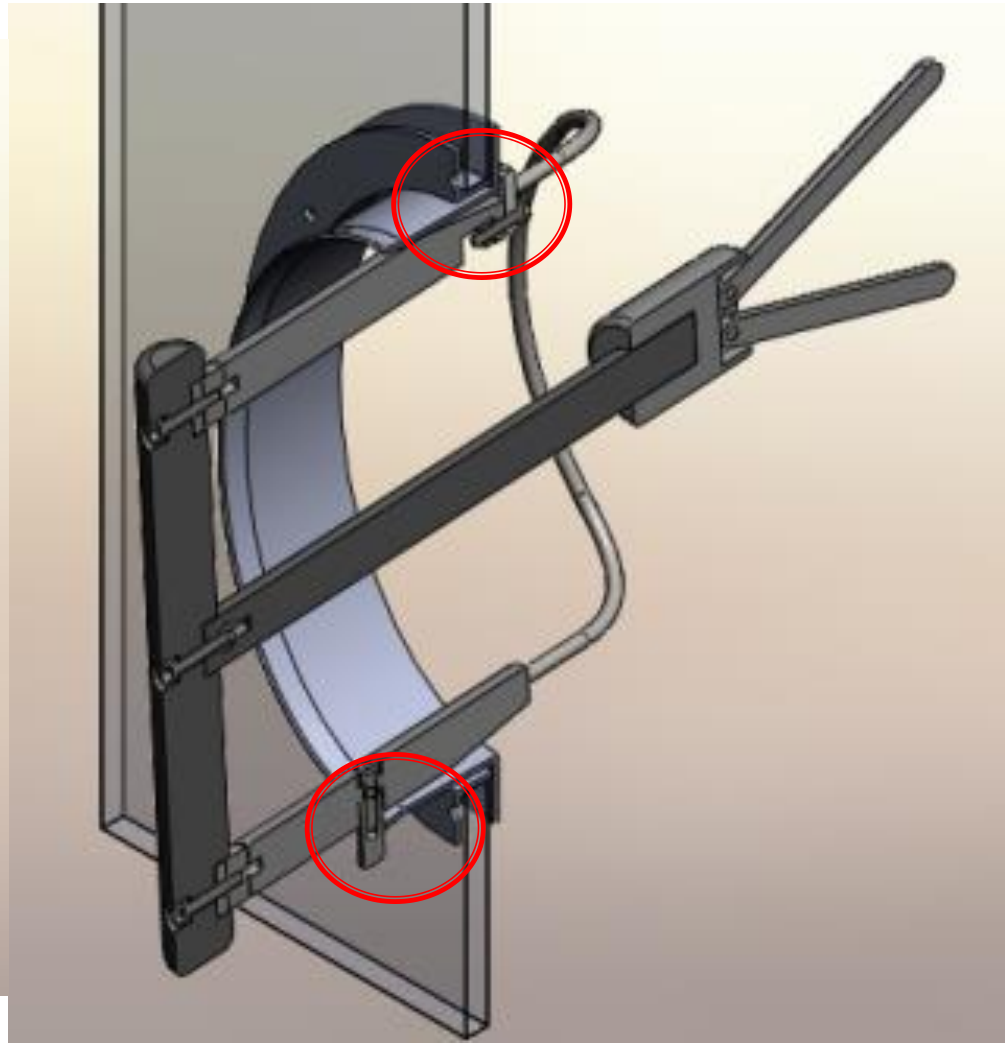
Note: Manipulate the fingers through the glove



Step 4 – Install GS into gloveport

Note: Gravity and glove friction hold the GS in place

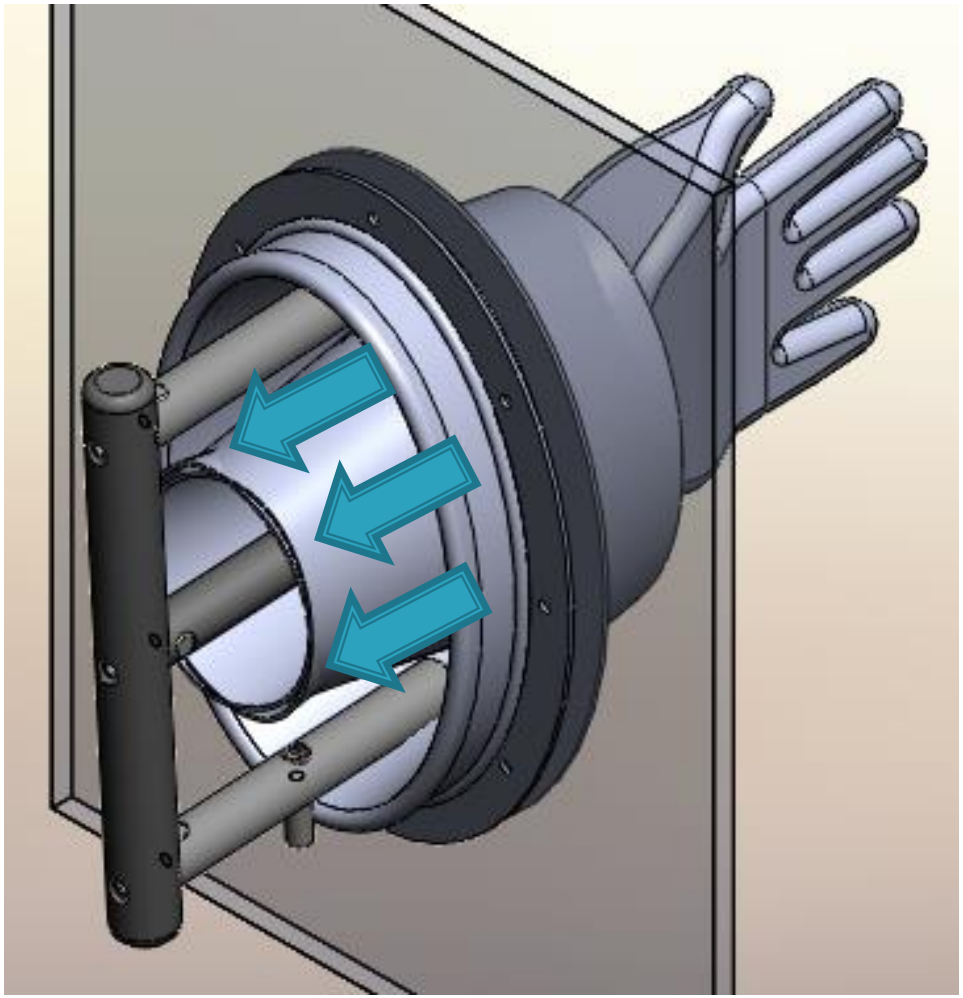




Glove not shown for clarity

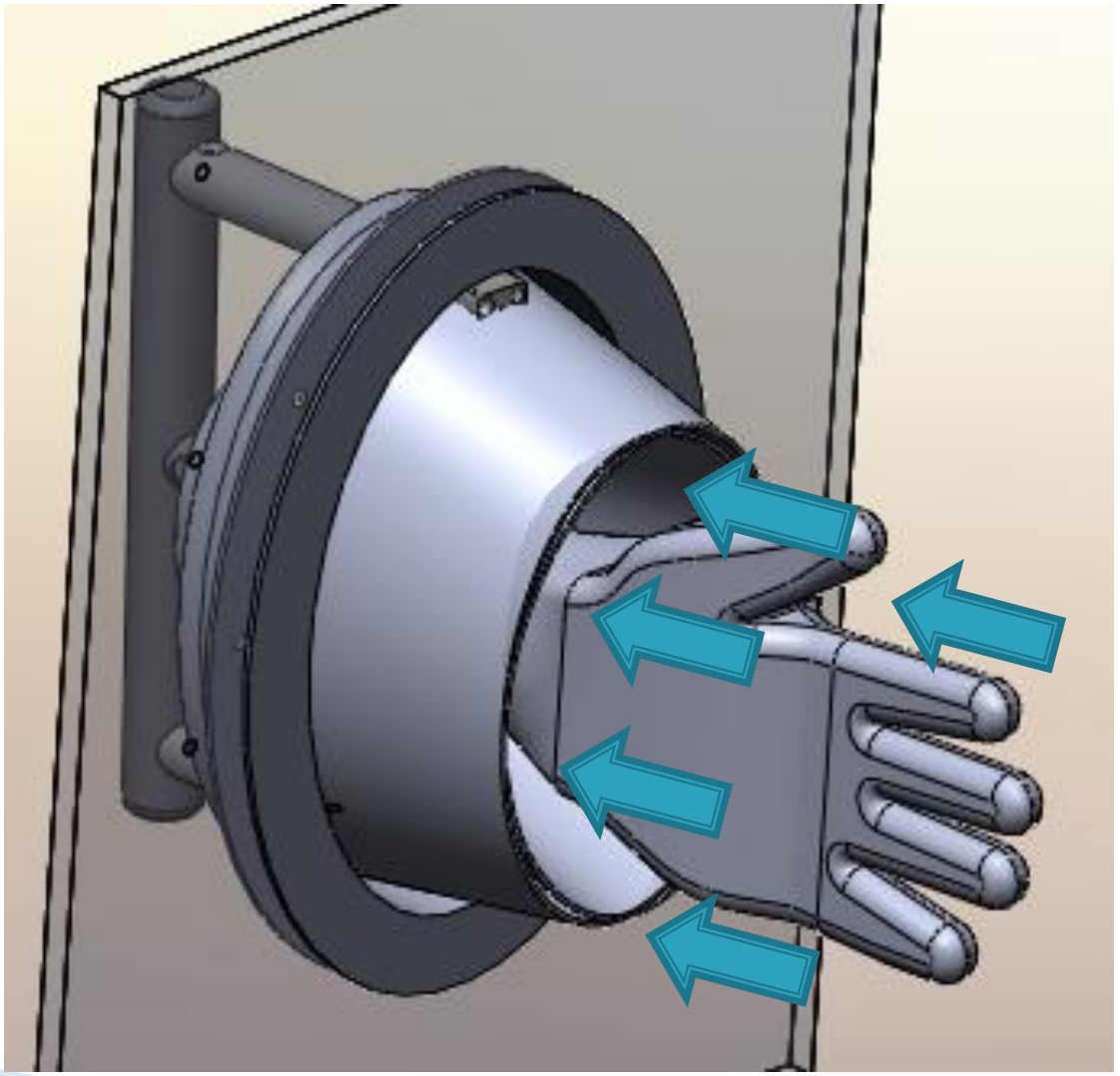
Step 5 – Stretch sleeve in place

Note: Pull on the fold of the glove to make it tight



Step 6 – Inspect for correct centering

Note: Make sure the hand does not touch the surrounding wall



Summary

Custom developed geometry to the end user’s gloveport

Optimizes Vapor Hydrogen Peroxide gas distribution

Easy to install

Optional designs for special applications available

Thank You

Dynamic Design Pharma