D-Value Apparatus Inside a Chamber with No Glove Ports
Design by Ardien Consulting Services

BIocide Exposure Configuration

Activation of the pump draws room air into the bell jar containing the suspended biological indicators in order to rapidly remove the biocide from inside the bell jar.

Vacuum Side of Pump

OUTSIDE CHAMBER

Pressure Side of Pump

Inside Chamber

BIocide Supply Tube: Place end of tube at theoretical worst-case location in the chamber (as determined from chemical indicator profile, or other methodology)

BIocide Return Tube: Place end of tube at least 1 foot away from the BIocide Supply Tube

Plastic vacuum bell jar containing at least 10 each suspended biological indicators

Adapting to vacuum bell jar

1/4" ID Teflon tubing

COMMENT: There are 4 "penetrations" into the chamber. This could be accomplished with a single 1 1/2" sanitary tri-clamp validation port on the chamber and multiple tri-clamp "Y" or "T" adapters in the room. In such a case, compression fittings will be necessary to seal the tubing to prevent biocide leakage into the room.

For a similar example "penetration", follow this link: http://www.ardienconsulting.com/ardien-consulting-services-technical-drawings/ Then click "Electrically Powered Equipment within Isolator".

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