



**Johnson  
Screens**

A brand of  
Aqseptence Group

## StaySafe™ Manway Hold-Down Screen

### Applications

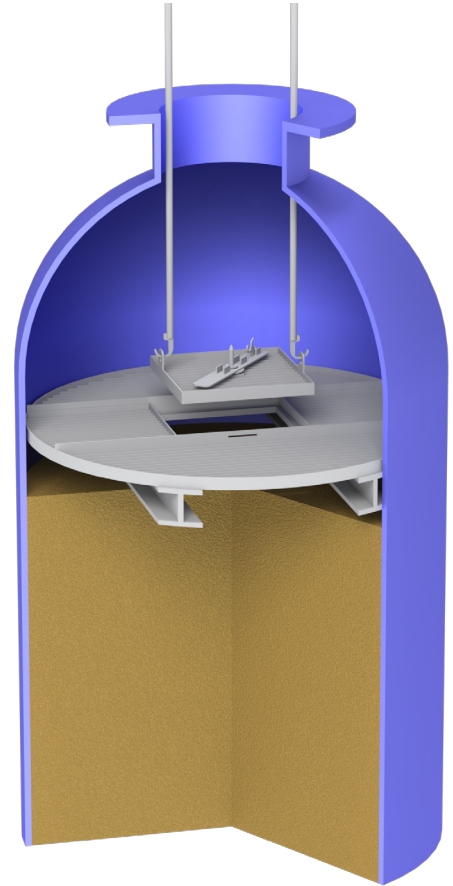
- No-Entry Extraction™ of manway to access media bed
- Down-Flow reactors with pyrophoric and potentially volatile environments
- Reduces the need to enter the confined space of vessels
- Helps with compliance to corporate directives for entering vessels to remove screens

### Benefits

- Facilitates faster media-bed turn-around
- Long reach extraction hooks for secure extraction of the Manway Panel through the vessel manway
- Virtually no additional pressure drop for consistent performance vs. standard screens
- Center locking bar integrated in the manway is released with a single tool
- Keeps workers safe by not requiring entry into potential hazardous, confined space of a vessel

### Features

- Manway can be removed from a vessel from outside of the vessel manway.
- Unique locking hub design and panel capture tabs
- Simplified design reduces amount of machining required
- Large capture loops on manway
- Glass-rope manway seal incorporated into the screen assembly



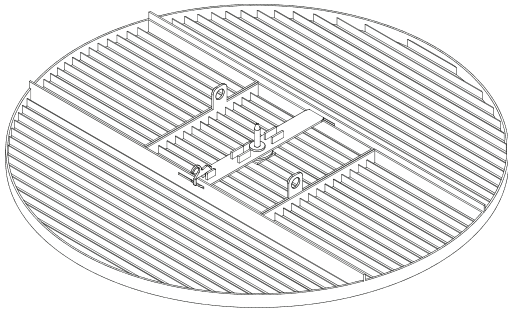
### **New design and features allow extraction of the StaySafe™ Manway Hold-Down Screen without personal needing to enter a pyrophoric or volatile vessel environment**

The uniquely designed StaySafe™ Manway Hold-Down Screen keeps workers safe by not requiring entry into potential hazardous, confined space. The center locking bar integrated in the manway is released with a single tool. Facilitates the manway to be captured by two lifting hooks for control of the manway either being set-aside inside the vessel or removed from the vessel entirely. No other competitor has a product that can be fully disassembled and removed without entry, which is critical not only for the safety of workers, but also for companies to stay compliant with OSHA law 1910.146 'Permit, No-Permit Confined Space Entry'; and API Z117.1 and NFPA350 'Safe Confined Space Entry' requirements without emptying vessels.

# Extraction of StaySafe™ Manway Screen Step by Step Process

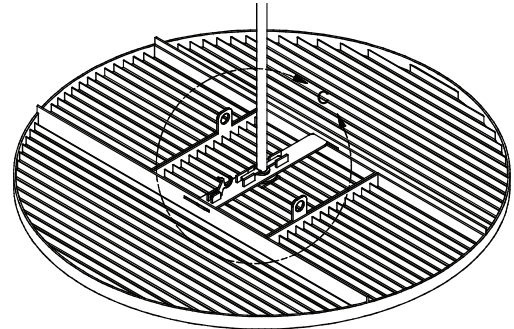
## Step 1: Initial Position

- Manway Panel is in locked position within the screen structure.
- Latch bar is in the locked position



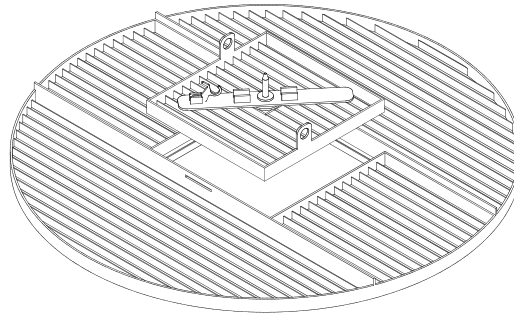
## Step 2: Turn Locking Latch 45 Degrees

- Lift the locking latch
- Center tool on locking bar
- Rotate the Locking bar to release



## Step 3: Remove Manway Panel

- Manway Panel is un-locked and lifted (*standard lifting hooks not shown*)



## Summary

The uniquely designed StaySafe™ Manway Screen keeps workers safe by not requiring entry into potential hazardous, confined space. This is critical not only for the safety of workers, but also for companies to stay compliant with OSHA law 1910.146 'Permit, No-Permit Confined Space Entry'; and API Z117.1 and NFPA350 'Safe Confined Space Entry' requirements without emptying vessels.

The ease of use to extract the manway component of the screen piece in less time than current designs allow without disturbing the media lowers operation cost, increases uptime, and optimizes vessel performance. Get the most out of your vessels with the StaySafe™ Manway Screen by Johnson Screens.

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