

# Master Brewers Safety Toolbox Talk



## Hose Storage

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### Overview

Hose and tubing are a must when it comes to completing your brewing process. Creating a safe environment when using these products is also a must. This Toolbox Talk will focus on sharing ideas on how to safely store hose and tubing and eliminate trip hazards and hose failure.

### View of Unsafe, Unorganized Brewing Process

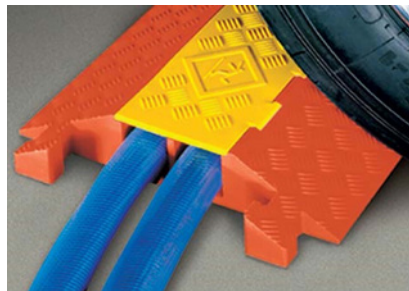
A common scenario during the brewing process is shown. Below are some options to reduce trip hazards and hose damage.



A hose fitting with an elbow, or an elbow directly off the valve, can be used to allow the hose to remain closer to your tanks and out of the walkway between your vessels. (This also helps eliminate kinking of the hose.)



Hose ramps are also an option. Ramps remove the trip hazard and can also withstand the weight of material handling equipment.



### Proper Storage When the Job Is Finished

After the brewing process is complete, proper CIP steps must include your hose. Store hoses in a manner that allows the tube to dry. Walk out your hose so that all liquids are completely drained.

Leaving hoses lying straight or coiled on the brewery floor may not allow the tube to dry 100% and also creates a trip hazard.

### Examples of Proper Storage

#### Vessel-Attached Hangers



Tanks and tank legs can be outfitted with hangers for hose storage. It is recommended that you use round stock steel to avoid hose kink. Square stock can kink and damage hoses. Hoses must be allowed to properly drain and dry.

#### Wall-Mounted Hanger



Examples for wash-down hose storage are shown.

#### Free-Standing hangers



If you have any questions or comments regarding this Toolbox Talk, please contact a member of the Brewery Safety Committee.

## Practices to Avoid When Storing Hoses



Turning the handle in the sideways position will avoid damage to the hose.

“Packing hose,” leaving liquids stored in a hose, product or chemical, is prohibited. Product may not store well, creating bacteria. Chemicals will shorten hose life by breaking down the tube. Cleaning chemicals are made to rinse and discharge completely from the hose.



**Result**

Using manway doors to hold a hose can cause damage to the hose. Over time the hose will develop a kink and cover wear, resulting in reinforcement exposure and hose failure.