

# FLEX-ING™



**Franklin Fueling Systems**

## Flexible Connectors Installation

The FLEX-ING line of Franklin Fueling Systems flexible connectors offer ease and speed of installation and years of service if installed properly. Flex connectors must be used in a liquid-tight sump with operational leak detection. Below are some guidelines for installing flexible connectors.

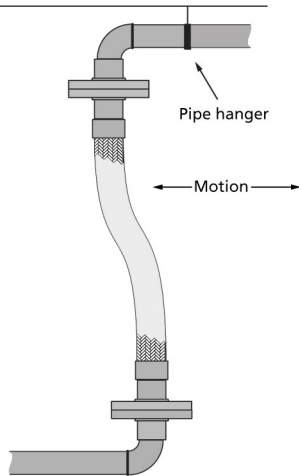
**Note:** Take care that brine, saltwater or chlorine do not come in contact with the flex-connectors.

**Note:** Installation Instruction Tags are an integral part of the flex connector. If you receive a flexible connector without an installation tag, contact Franklin Fueling Systems. The instruction tag must stay with the connector.

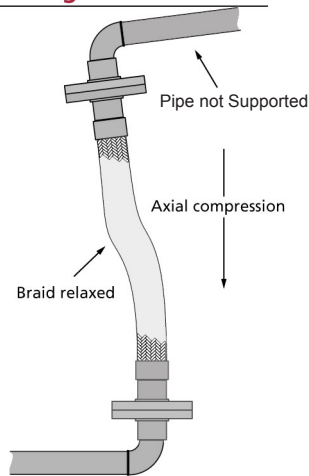
### Do Not Compress or Extend Axially

Corrugated metal hose installed in-line with the longitudinal axis of the piping should not have any axial movement.

**Correct**

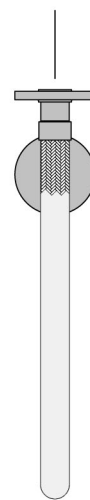
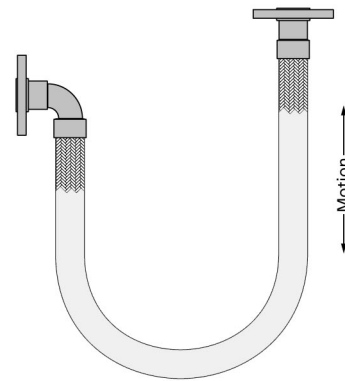


**Wrong**

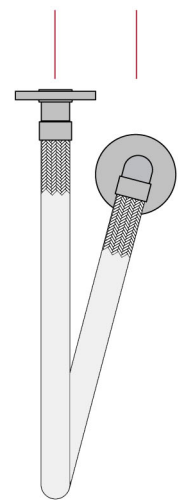


### Do Not Allow Movement In Multiple Planes.

Flexing a metal hose in two separate planes of movement will torque the hose assembly. Always install the metal hose assembly so that flexing occurs in one plane only, the plane in which bending occurs.



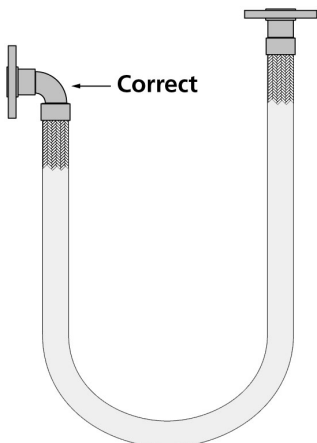
**Correct**  
in plane  
flexing



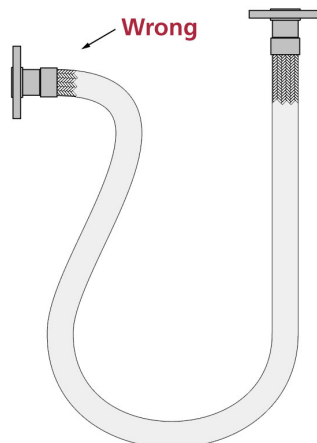
**Wrong**  
out of plane  
flexing

### Avoid Sharp Bends

Use elbows to avoid sharp bends near the end of the metal hose assembly.

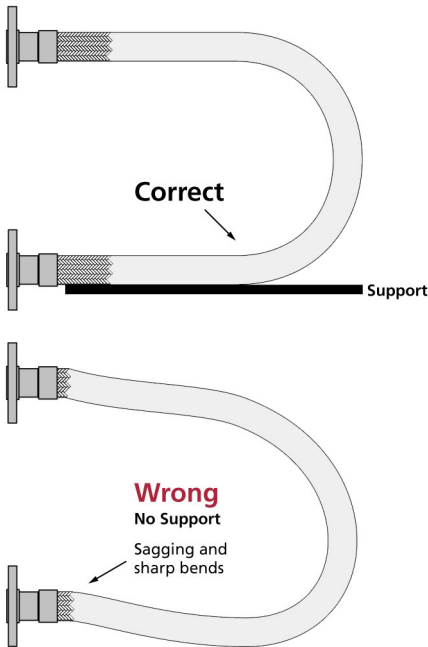


**Wrong**



## Provide Support.

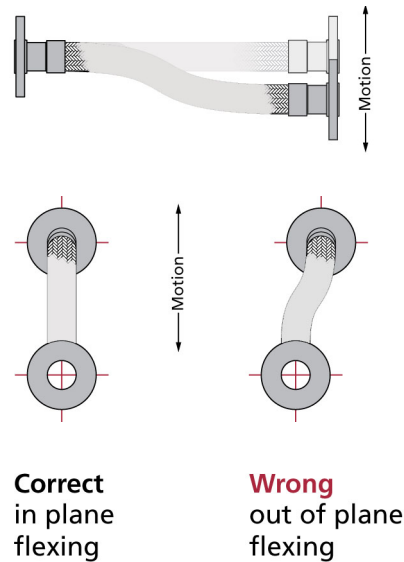
When installing the assembly in a horizontal loop, provide support for the arms to prevent the hose from sagging.



## Do Not Torque During Installation.

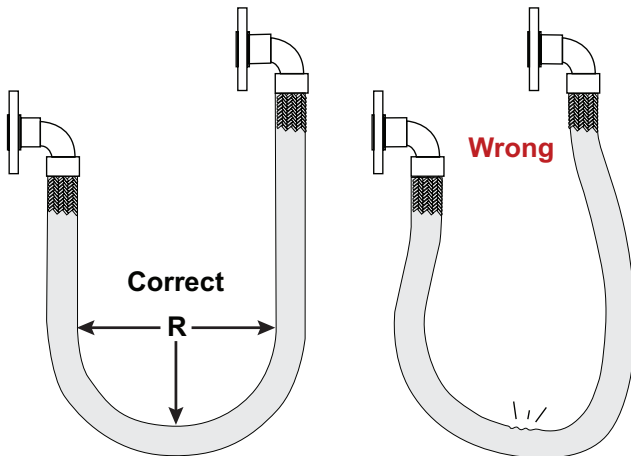
Metal hose assemblies should not be used to compensate for bolt hole misalignment. Floating flanges will help to minimize twisting of the metal hose.

Pipe unions will help to reduce twisting during connection to the piping. Use two wrenches to help to keep the hose from twisting when tightening the pipe union.



## Maintain Minimum Center-line Bend Radius.

The hose assemblies must not be forced to a bend radius less than specified.



### Minimum Bend Radius from Center-line of Hose

Hose Size	Minimum Bend Radius
3/4", 1", 1.5", 2"	6"
3"	9"
4"	13"

If you have questions about installing Franklin Fueling Systems flexible connectors, contact FFS Technical Support at 800-984-6266.



**FLEX-ING™**  
**Franklin Fueling Systems**  
[www.franklinfueling.com](http://www.franklinfueling.com)

3760 Marsh Road • Madison, WI 53718, U.S.A.  
Tel: +1 608 838 8786 • Fax: +1 608 838 6433  
Tel: USA & Canada 1 800 225 9787 • Tel: México 001 800 738 7610

**Franklin Fueling Systems GmbH**  
Rudolf-Diesel-Strasse 20 • 54516 Wittlich, GERMANY  
Tel: +49-6571-105-380 • Fax: +49-6571-105-510