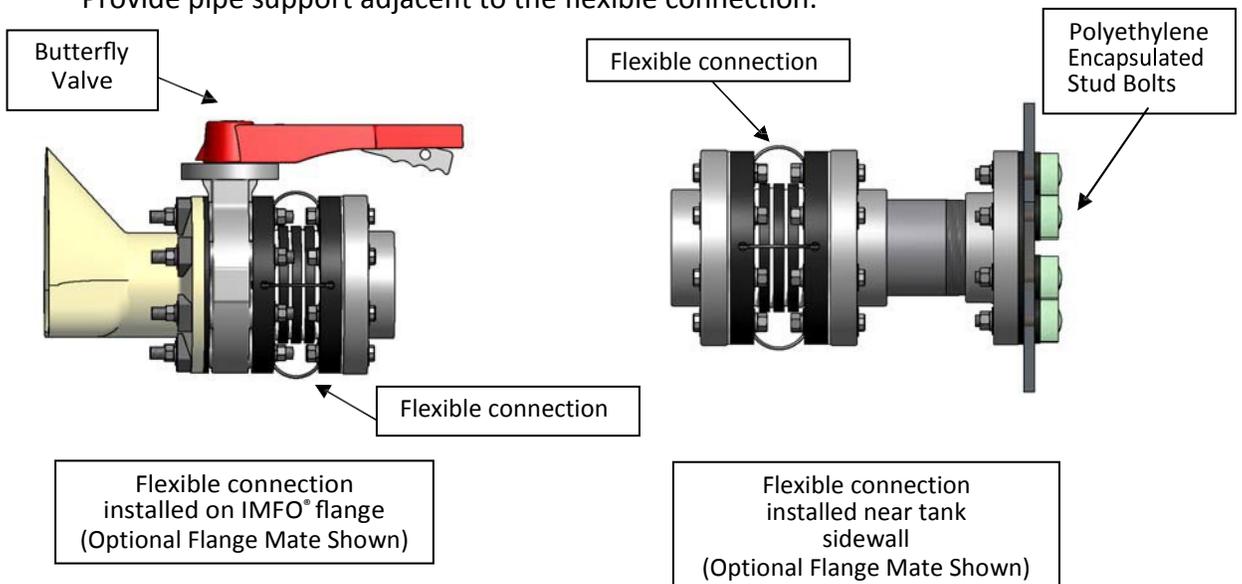


# FLEXIBLE CONNECTIONS

Flexible connections are required on fittings installed on the lower 1/3 of the tank sidewall to allow the tank to expand and contract and to protect the tank from pump vibrations.

- Install flexible connection in accordance with the specific manufacturer's installation guidelines:
  - The "breach opening" in the piping for the flexible connection should be within 1/8-in of the relaxed length of the flexible connection.
  - Flexible connections are not to be used for correcting piping misalignment. The flexible connection and mating flanges must be installed in a centered and neutral position.
  - Attach only FULL FACE flanges to the flexible connection. They are not designed to attach directly to the tank wall.
  - Ensure adequate clearance between bolt ends for full use of flexible connections.
  - Torque to 20 ft. lbs using crisscross tightening pattern.
  - Provide pipe support adjacent to the flexible connection.



- Flexible Connection Minimum Specifications:
  - Axial Compression  $\geq 0.67''$
  - Axial Extension  $\geq 0.67''$
  - Lateral Deflection  $\geq 0.51''$
  - Angular Deflection  $\geq 14^\circ$
  - Torsional Rotation  $\geq 4^\circ$



- Installation of flexible hose connections:
  - Use of thread sealant or Teflon tape is recommended for pipe thread preparation.
  - Support hose adequately but do not restrict its ability to move in horizontal directions.

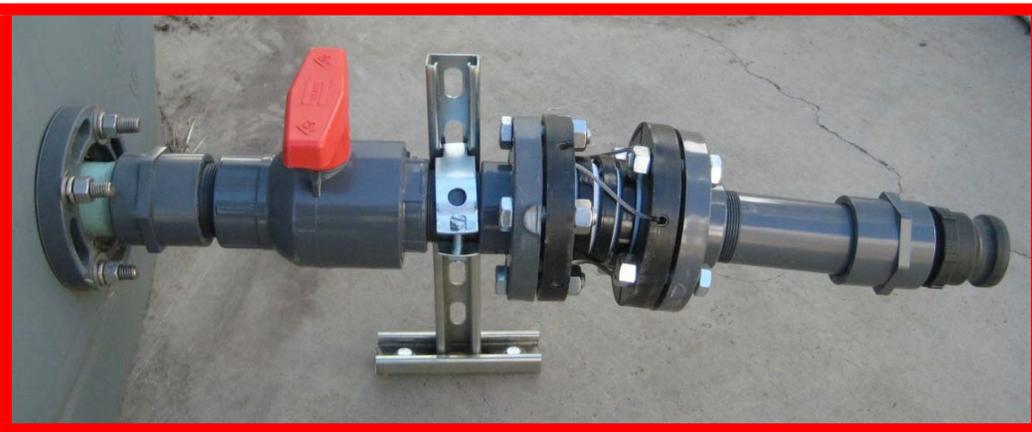
# **FLEXIBLE CONNECTIONS**

## **Proper Installation of Pipe Supports**

Pipe supports positioned **CORRECTLY**: pipe support must be placed after the flexible connection to allow the tank to properly expand and contract.



Pipe supports positioned **INCORRECTLY**: pipe support incorrectly placed before the flexible connection does not allow the tank to properly expand and contract, which can cause the piping or tank to crack over time.



Go to [www.polyprocessing.com/flex](http://www.polyprocessing.com/flex) for more information

# FLEXIBLE CONNECTIONS

## Proper Installation of Flexijoints

Flexible connections aligned **CORRECTLY**: pipe system with The Flexijoint is aligned in a straight manner, which allows for proper expansion and contraction of the two connecting tanks.



Flexible connections aligned **INCORRECTLY**: the Flexijoint should not be used to accommodate misaligned piping. This will limit the ability of the Flexi- joint to function correctly and possibly damage the joint itself.



Go to [www.polyprocessing.com/flex](http://www.polyprocessing.com/flex) for more information