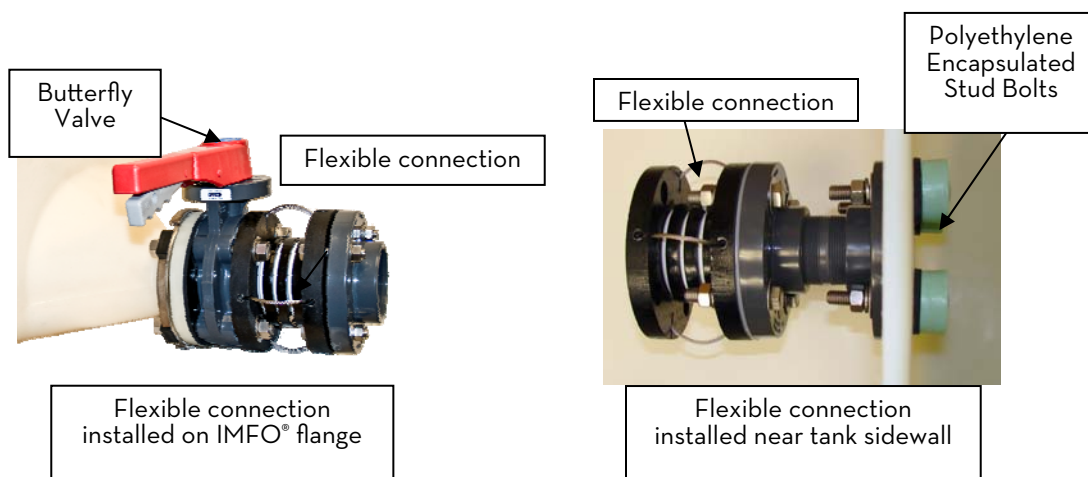


FLEXIBLE CONNECTIONS

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.

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



Flexible Connection Minimum Specifications:

1. Axial Compression $\geq 1.5''$
 2. Axial Extension $\geq 0.625''$
 3. Lateral Deflection $\geq 0.750''$
 4. Angular Deflection $\geq 14^\circ$
 5. Torsional Rotation $\geq 4^\circ$
2. Installation of flexible hose connections:
 - a. Use thread sealant for pipe thread preparation.
 - b. Support hose adequately but do not restrict its ability to move in horizontal directions.

