

General Applications: Transfer of freshwater or wastewater in agricultural, construction, septic, mining and other industrial applications.

Construction: High-grade, high-tensile, hot dipped galvanized steel

Service Temperature Range: -40°F (-40°C) to +250°F (+121°C)

Sphere Lock™ couplings, also referred to as ball and socket couplings, consist of male (ball) and female (socket) ends. The rounded male end nests in the concave female end, which contains a Buna gasket for sealing. The connection is tightened by pushing down on a lever or bar.

Sphere Lock™ couplings are highly durable, with excellent resistance to impacts and vibration, making them ideal for highly demanding outdoor applications. They're able to handle full vacuum and higher pressures than standard cam-lock couplings.

Sphere Lock™ couplings allow greater ease when connecting than most other coupling types. Whereas most other couplings must be aligned perfectly straight, Sphere Lock™ couplings can connect at angles of up to 30°, which is beneficial when conditions make a perfectly straight connection difficult.

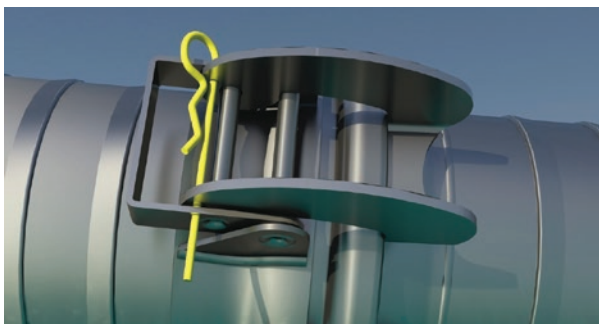
Non Sphere Lock™ couplings require perfectly straight connections.



Sphere Lock™ couplings allow for angled/offset connections.



Safety pins are available for Sphere Lock™ couplings to prevent an accidental opening while in service, which can lead to unwanted product spillage.



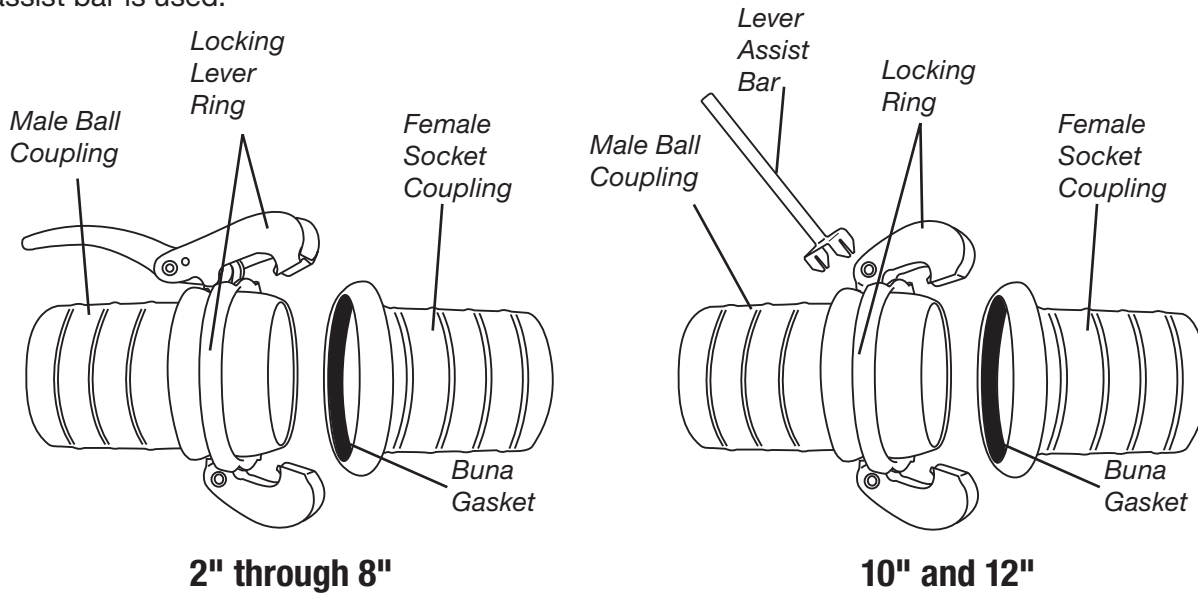
The Sphere Lock™ coupling's safety pin securely prevents unwanted opening.



Non Sphere Lock™ handles tied down with rope, susceptible to unwanted opening.

TYPE B CONNECTION

The type B connection is the most popular, consisting of a male ball coupling, female socket coupling and either a locking lever ring (2" through 8") or locking ring (10" and 12"), which fits over the male ball coupling's shank. The latches on the locking rings hook onto the female coupling and are tightened by either pushing down on the locking lever ring's handle, or in the case of the locking ring, a separate lever assist bar is used.



TYPE A CONNECTION

The type A connection is less common than type B and generally only available in larger sizes. It consists of the male ball coupling, the female socket coupling and a connection ring, which fits over the male ball coupling's shank. Instead of using a separate locking lever ring on the male ball coupling, the latches are attached directly to the female socket coupling and hook over the connection ring on the male. The connection is tightened by pushing down on a separate lever assist bar.

