

Couplings

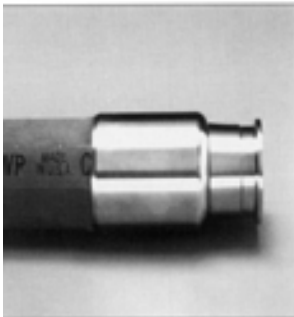
General Information



Swaged coupling



Crimped coupling



Internally expanded coupling

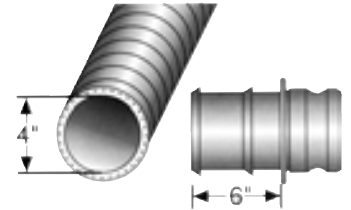
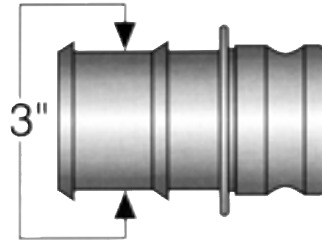
Some couplings have special coatings such as zinc or nickel plating. Always make certain any coating is compatible with the material being transferred and the external environment. Otherwise, contamination and/or failure could occur. The coupling manufacturer can provide you with this information.

To make certain you have selected the right coupling for your application, always consult the coupling manufacturer. To help make coupling selection easier, Eaton includes coupling thread data and flange size information in this catalog.

Measuring Couplings

To determine the size of a coupling, measure the shank outer diameter (O.D.) between the shank barbs. The shank is the portion of a coupling that is inserted into the hose. A "three-inch" coupling will have a shank O.D. of three inches when the O.D. is measured between the shank barbs.

In general, the length of the coupling shank should be approximately one and a half times the inner diameter of the hose. For example, a hose with a four-inch diameter would require a coupling with a six-inch-long shank.



Installing Field-Attachable Couplings

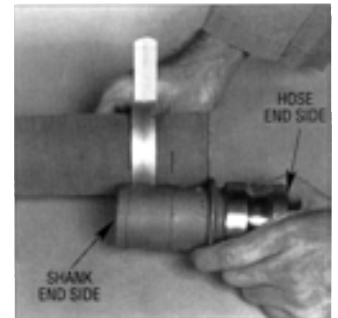
Before installing a coupling, be sure the shank is free of any burrs or sharp edges. This will make insertion into the hose easier and will help prevent inner tube hose damage.

! WARNING: Never alter the shank of the coupling beyond removing any burrs. Altering the shank can reduce some of the coupling holding power or create sharp edges which could cut the hose tube. The resulting spraying, leaking, or end blow-offs could result in personal injury or death.

If the coupling will be secured by bands, hold the coupling near the hose and use a marker to indicate where the bands are to be located. A variety of shank designs is available, so always follow the manufacturer's recommendations for positioning bands.

Three common shank styles include the two-barb coupling, the combination nipple which consists of multiple barbs of the same size, and the coupling which has two large barbs and two smaller barbs.

To attach bands to the two-barb coupling, hold the coupling along side the hose. Make a mark on the hose-end side of each barb. When attaching the coupling, place the bands just to the hose-end side of the marks.



Banding a two-barb coupling

To band a combination nipple coupling, place a mark just to the hose-end side of the last barb of the shank (farthest from the hose end). Place a second mark midway between the first mark you make and the hose end.