Connection Guide

A summary of connection types used by BAC follows. The specific connection type for a particular BAC model can be found on the unit print drawing, available on www.BaltimoreAircoil.com, or contact your local BAC Representative.

Beveled for Welding (BFW)

This connection type is a pipe stub with a beveled edge. The bevel allows for easier welding in the field and a full penetration weld. Weld materials fill the trimmed area between two beveled edges as shown here (**Figure 1**).

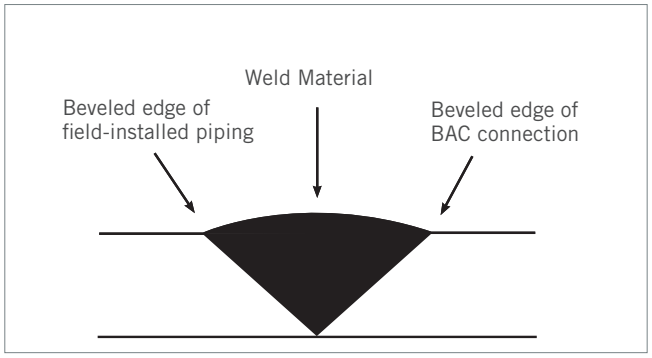

Figure 1. Weld Details

Grooved to Suit a Mechanical Coupling

This connection type is a pipe stub with a groove to accept a mechanical pipe coupling (**Figure 2**).

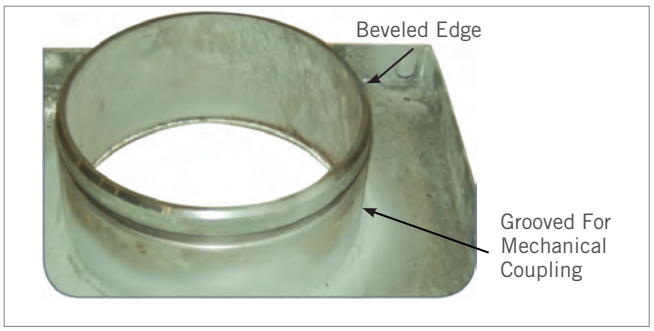

Figure 2. Beveld for Welding/Grooved Connection

Beveled for Welding and Grooved Connection

Many of BAC's connections are both beveled for weld and grooved to suit a mechanical coupling. Either method of fastening to field-fabricated piping can be used when this connection type is provided (**Figure 2**).

Side Outlet Depressed Sump Box:

This option is offered to facilitate horizontal piping below the cold water basin of a unit, and is a compact alternative to using an elbow in the piping arrangement, saving installation time and cost (**Figure 3**).

Figure 3. Side Outlet Depressed Sump Box

ASME Class 150 Flat Face Flange

This connection type is a standard bolt and hole pattern at the point of connection to mate to an ASME Class 150 Flat Face Flange. When BAC provides this connection type to a hot water basin mounting bolts are permanently fastened to the connection plate. When BAC provides this connection type on a cold water basin, a back-up ring and neoprene washers are provided. All other components (piping, nuts, bolts, flatwashers, etc.) are provided by others unless otherwise specified (**Figures 4 and 5**).

Figure 4. An ASME Class 150 Flat Face Flange Pattern With Mounting Bolts is shown on this Hot Water Basin Panel

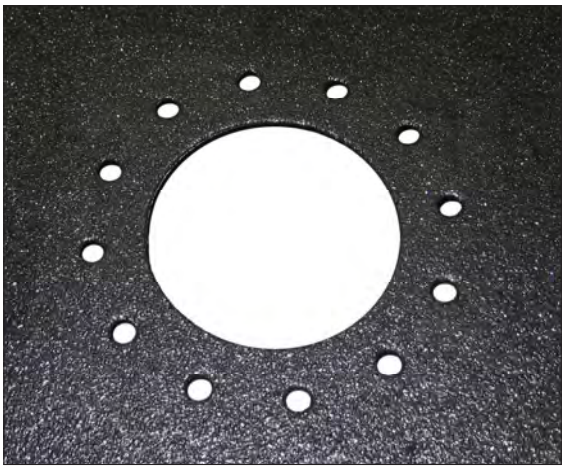

Figure 5. An ASME Class 150 Flat Face Flange Pattern is Shown on this Cold Water Basin Panel

Male Pipe Thread (MPT)

This connection type is a threaded pipe stub connection designed to mate with a Female Pipe Thread (FPT) fitting (**Figure 6**).

Figure 6. MPT Connection