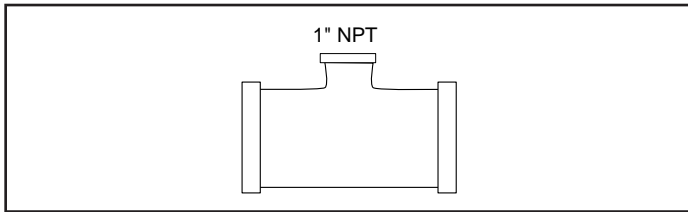
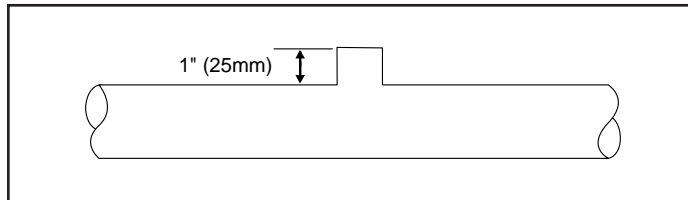


Flow Switch Installation

For best operation, the paddle type flow switches should be installed in a horizontal pipe in the upright position. They should be installed in a threaded pipe tee on 2" or smaller pipe or a welded half coupling when installing on larger welded pipe.



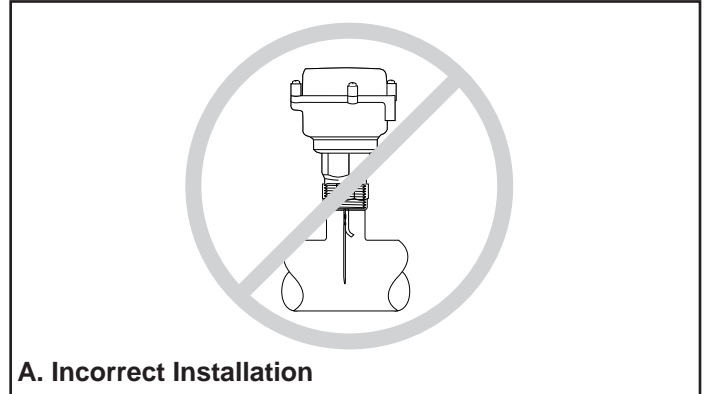
OR



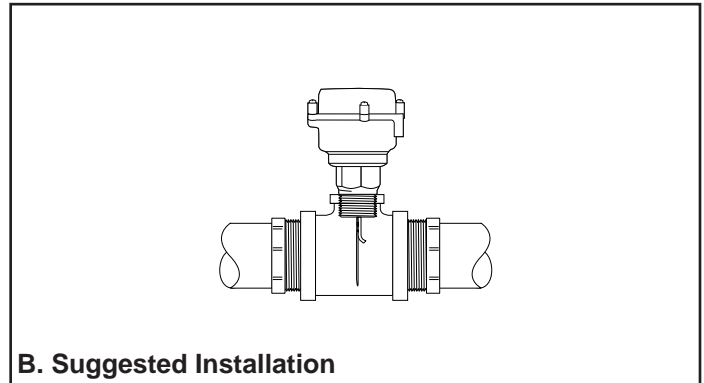
Installation in copper pipe requires special attention. The use of thread to sweat adapters to install the flow switch can cause the paddle arm to be out of the flow of water. It is critical that the paddle and paddle arm be in the run of the pipe for proper operation.

We have found that a paddle type flow switch may not work properly when installed using a thread to sweat adapter. The width of the paddle needs to be reduced in order to fit through the adapter. The additional height locates the paddle arm and a portion of the paddle above the flow of the water (A). This changes the fulcrum point of the mechanism and can result in the paddle hitting the wall of the adapter before it proves. Because the flow switch does not work when first installed, the adjustment screw is turned one way or the other to get it to trip. The combination of trimmed paddle, paddle arm out of flow and attempted adjustment will keep the flow switch from operating properly.

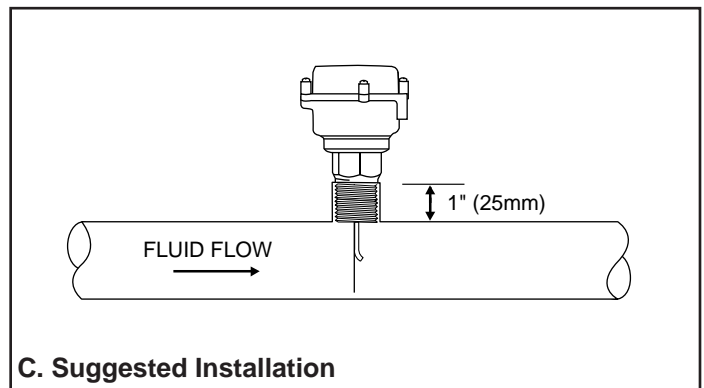
If the flow switch is installed in 2" or smaller copper pipe, the use of a threaded reducing tee and thread to sweat adapters on the main run tee connections would be best (B). Larger pipe may require cutting down the 1" thread to sweat adapter to just below the threads and brazing this piece to a hole in the larger pipe (C). The intention is to maintain the 1" or less distance from the wall of the pipe to the top of the thread adapter. Keeping this distance to less than 1" ensures the paddle arm and paddles are in the flow of water.



A. Incorrect Installation



B. Suggested Installation



C. Suggested Installation