



Installation of Water Meter to Copper Piping



1. Mark the pipe at a location at least 10 diameters of straight pipe at the inlet and 5 diameters at the outlet to assure proper flow profile to the meter



2. Where the pipe is marked, use a tubing cutter to remove the required pipe length.



3. Use a tube cleaning brush to remove all the burrs at the pipe ends.



4. For fittings, you have different options.

FNPT Sharkbite fitting will be the easiest to use. You just need to push the Sharkbite into the pipe.



The traditional way is to solder a copper FNPT fitting to the pipe.

a. Clean the inside of fitting with a wire brush. Clean both the inside and outside of the Pipe.
b. Apply a thin layer of flux to the mating surface of the pipe and fitting. Then insert the pipe into the fitting.

c. Heat the fitting until the flux begins to sizzle. Heat the opposite side of the fitting to ensure heat is evenly distributed.
d. Heat the fitting. Allow the heated fitting to melt the solder. As soon as the solder melts, remove the flame.



5. Wrap Teflon tape onto coupling tailpiece to a length of at least 5 threads. Place coupling tailpiece through center of nut. Hand tighten coupling tailpiece to pipe fitting.



NOTE: Meter spuds are NPSM-straight threads. NPT taper threads cannot be connected directly with the meter spuds. You must use the couplings which come with the meter to connect them.

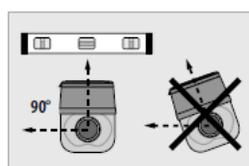


6. Use a pipe wrench to tighten an additional $\frac{1}{2}$ to 1 full turn.

*Over tightening can damage components.



7. Place rubber gasket onto nut.



NOTE: DAE AS, MJ series (like AS200U-75P, MJ-75) water meters should only be installed in a horizontal position with the dial facing upwards. For installing vertically with the dial facing upwards and water flowing upwards, please refer to DAE V Series (like V-75P). You can also refer to DAE Positive Displacement Water Meter VM Series (like VM-75P) or PD Series (like PD-75) will be able to be installed in any position, vertically or horizontally, dial facing upwards or downwards or side-way, water flowing downwards or upwards.



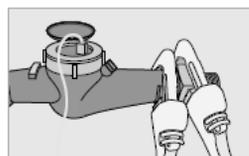
8. Align arrow on meter with direction of water flow, arrow tip pointing downstream.

NOTE: for different meter, the arrow might be located at different location.



9. Thread the nut onto the meter spud. Do not tighten. Repeat with the other nut.

10. With both ends connected, Hand-tighten the nuts.



11. Use two pipe wrenches hold the water meter casing with one. Use the other wrench to tighten the nuts with an additional quarter turn to seal the gaskets.

*Over tightening can damage components.