

Solderless Fittings and Insulation Sizing

Nomaco Insulation polyolefin and elastomeric insulation products are designed to fit loosely on piping systems. The inside diameter is designed to be large enough to accommodate the fittings typically used with the piping.

Several manufacturers of pipe fittings offer solderless fittings such as press – on, push and CPVC for use with copper, pex and CPVC pipe. While the actual dimensions vary by manufacturer, these fittings have a slightly larger O.D. than the equivalent soldered fitting. These solderless fittings require an increase in insulation size to a larger I.D. to accommodate the fittings. The table below provides recommended insulation sizes when using “Press – On” style fittings.

Copper Pipe		Insulation Size
<u>Size, in.</u>	<u>Standard</u>	<u>Press – On</u>
1/2	5/8	7/8
3/4	7/8	1-1/8
1	1-1/8	1-5/8
1-1/4	1-3/8	1-5/8
1-1/2	1-5/8	2-1/8
2	2-1/8	2-5/8
2-1/2	2-5/8	3-1/8
3	3-1/8	3-5/8
4	4-1/8	NA*

*No pre-formed pipe insulation size will fit properly. Use sheet insulation or cut down 5”IPS size elastomeric insulation to fit.

Please note that the use of larger insulation sizes will not adversely affect the performance of the insulation. However, use of the larger size will increase the insulation cost and the insulation will be very loose on the pipe.

An alternative method to insulate piping systems using solderless fittings is to use the standard insulation thicknesses *up to the fittings* and sleeve over the fitting, extending a minimum 1” onto the insulation on either side of the fitting. Refer to the nesting tables in the technical section of the Nomaco Insulation website at www.nomacoinsulation.com for appropriate sleeving sizes.