

# FlowGuard® MultiPort Installation Instructions

## Colonial Engineering Part No. CM10053L

The FlowGuard MultiPort consists of a body with a 1" socket connection on one side, and a 1" spigot connection on the other. The 1" spigot connection can also be used as a 3/4" socket connection. The MultiPort also has three (3) 1/2" spigot ports to connect to branch lines.

For optimum water and energy waste reduction, the FlowGuard MultiPort should be centrally located to the majority of the fixtures being served by it, in such a way that the length of the branch lines is minimized. The FlowGuard MultiPort may be installed in an enclosed space in a horizontal or vertical direction. Always confirm local codes prior to installation of any plumbing product.

## General Guidance

Join the MultiPort to the main line and support properly before connecting the branch lines.

Never use the FlowGuard MultiPort as a mixing valve; always keep hot water runs separate from cold water runs.

Pipe and tubing shall be connected to the MultiPort without placing stress on the connection. Ensure that all pipe connections maintain a straight run exiting the connection to the MultiPort.

## Joining Procedure

When joining to a socket-end of the MultiPort, apply solvent cement to the pipe first. Then, without returning the dauber to the can, apply cement to the socket of the MultiPort.

When joining to a spigot end, you will need to attach a FlowGuard Gold fitting to the MultiPort. Apply the solvent cement to spigot end of the MultiPort first. Then, without returning the dauber to the can, apply cement to the fitting.

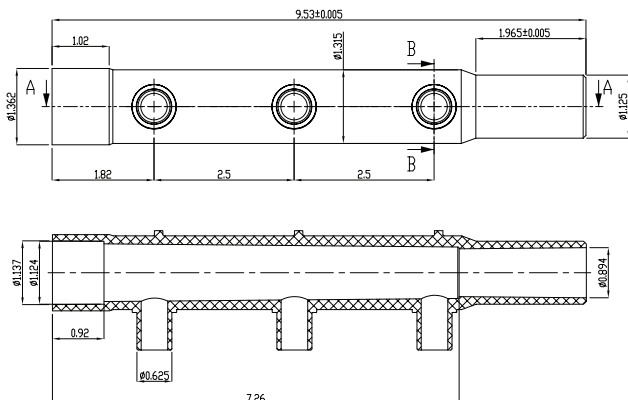
Always use the correct dauber size and avoid over-application of solvent cement, which can lead to puddling. Allow the joints to cure before testing the system.

## Expansion and Contraction

The FlowGuard MultiPort is a fitting which does not accommodate expansion and contraction in the same manner as a pipe, FlowGuard MultiPorts should not be used in an expansion loop to accommodate expansion and contraction.

Always allow space between supports and the FlowGuard MultiPort for movement due to thermal expansion on long pipe runs. Branch lines should be supported only at a sufficient distance to allow for expansion and contraction in the main line without excessive stress. Treat each branch line as a change of direction for expansion and contraction purposes.

The FlowGuard MultiPort may supported as a fixed point in the system, when doing so ensure the FlowGuard MultiPort is fixed against movement in all directions. Calculate expansion and contraction on the main and branch lines treating the FlowGuard MultiPort as a fixed point.

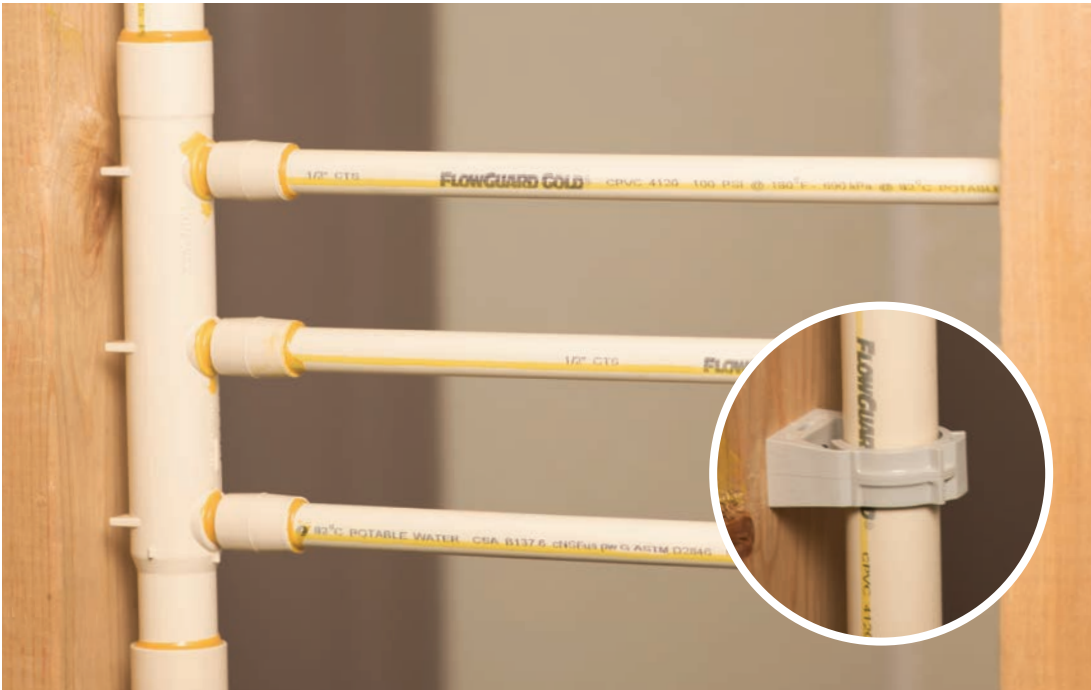


Product is Certified to NSF/ANSI 372 and conforms with the lead content requirements for "lead free" plumbing as defined by California, Vermont, Maryland, and Louisiana state laws and the U.S. Safe Drinking Water Act.



## Hangers and Support

Vertical installations may require the FlowGuard MultiPort to be supported with a bracket. Once the location of the MultiPort has been chosen, install a 1" bracket to the stud parallel to the main. Place the MultiPort such that the bracket is located between two ports.



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Horizontal installations do not require the MultiPort itself to be supported independently, however the horizontal pipe run on each side of the MultiPort shall be supported either by the entry into a stud or by a separate hanger or support. When several MultiPorts are connected to each other in a horizontal run, the first and last MultiPort in the run shall be supported with a bracket to prevent excessive stress at the joints between the MultiPorts.



Proper support for a horizontal installation.

