



Metraloop® U-Loop® Expansion Joint Configurations for Thermal Applications



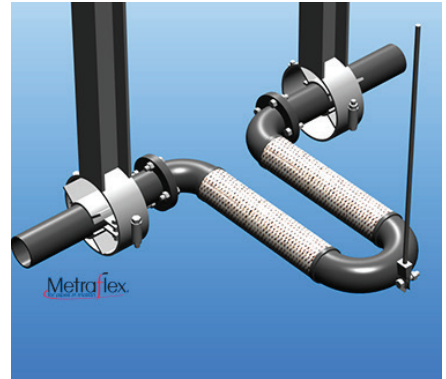
Horizontal Run - Hanging Down

Loop should hang straight down and be free to flex.



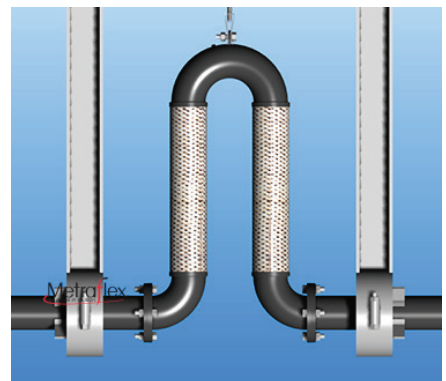
Horizontal Run - Steam*

Support must be provided to prevent the loop from drooping or torquing pipe. Support must allow the 180° return to move horizontally back and forth 1/4", as the loop flexes. *Recommended installation for steam. Any other orientation may cause condensate to collect.



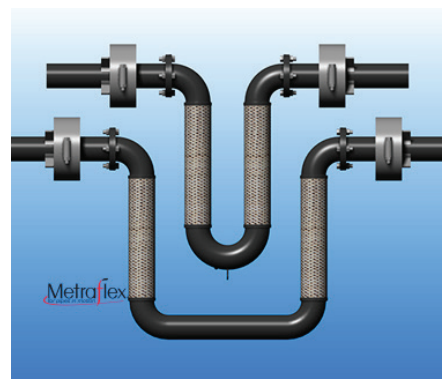
Horizontal Run - Straight Up

Support must be provided to prevent the Metraloop® from leaning. Pipe hanger rod should be installed with a spring hanger to allow the 180° return to move up or down, or back and forth, as the loop flexes.



Nested

For tight pipe runs, any size or number of loops can be designed to nest inside of one another. To order, specify sequence of pipe diameters and corresponding distances between pipe centerlines.



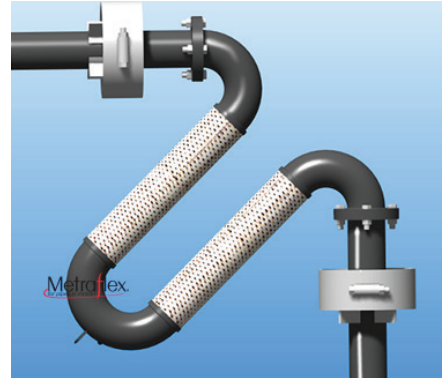
Vertical Run

Metraloop® must be supported with a spring hanger to allow the 180° return to move horizontally back and forth, and up or down, as the loop flexes.



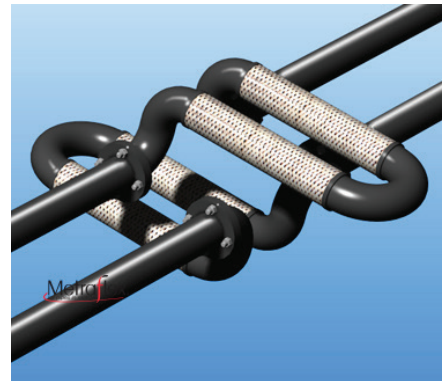
Corner Loops

One Metraloop® simultaneously absorbs the thermal expansion of two pipe runs. Space saving inside corner Metraloop eliminates the need for an anchor at the corner. Support must be provided to prevent Metraloop from drooping or torquing pipe and must allow for sufficient movement.



Over-Under

The Metraloop® expansion loop can be manufactured in this configuration to be as compact as possible. Multiple over-under loops can also be installed in nested clusters to further take advantage of this compact arrangement.



The Metraloop® can be installed hanging down, straight up and horizontally when properly guided. Support must be provided for installations other than hanging straight down to prevent the loop from leaning, drooping or torquing.

In seismic applications, it is recommended to use a Seismic Breakaway Hanger, an engineered release mechanism, to ensure full-rated movement.

Contact The Metraflex Company with any questions

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