

METRAFLEX BREAKAWAY COUPLING OPERATION, INSTALLATION, AND MAINTENANCE INSTRUCTIONS

General: The purpose of the Metraflex Breakaway coupling is to support the flexible element of a seismic joint such as the Metraloop. During a seismic event, the Breakaway Coupling will break free allowing the seismic joint to freely move in its complete range of motion. After the seismic event, the Metraflex Breakaway Coupling can be simply reassembled.

Application: Each Metraflex Breakaway Coupling is factory set for a specific load and will be matched to a specific Metraloop or other seismic joint. The Metraflex Breakaway Coupling is installed in the hanger rod of the seismic joint. For the Metraloop product this will be located at the 180° return fitting. For Dog Leg products this will be at the 90° elbow. For large movement units, Breakaways may be required to support the flexible hose, see figure 4 and 4A.

Tethers: Tethers are used to prevent the seismic joint from over flexing and are recommended. Note: Some small diameter seismic joints may not require tethers, see figure 3.

Installation:

1. The Metraflex Breakaway Coupling should be installed as close to the seismic joint as possible. See figure 1.
2. Insure that the correct size Breakaway has been selected for installation by reviewing the submittal.
3. The swivel eye bolt should be installed in the top position attached to rod or cable that complies with the contract documents. See figure 1 and 2.
4. A male thread is provided for connection to the seismic joint. See figure 1 and 2.
5. Apply the no step stickers provided with the Breakaway to the pipe / insulation cover.

Caution:

1. When lifting from the flexible hose, never point load the hose during the installation process, always use a saddle. The hose consists of corrugated stainless steel hose and can be damaged.
2. The Breakaway coupling is designed for a specific load based on the size and configuration of the seismic joint. People walking on the seismic joint or other outside loads on the devise can result in premature breaking of the coupling and should be avoided. No Step warning stickers have been provided with the Breakaway for larger pipe sizes.
3. When installing a seismic joint with multiple Breakaway supports, evenly lift the seismic device into place. Do not over flex the hose.

Testing:

Each Breakaway coupling is factory tested prior to shipment. No field testing is necessary.


Maintenance:

The Metraflex Breakaway Coupling does not require maintenance and there are no serviceable parts. If the coupling is ever pulled apart, for any reason, simply insert the pin back into the coupling until it is bottomed out. For couplings designed to support larger seismic connections a "C-clamp" may be required to push the pin for reassembly.

CUSTOMER: _____

PROJECT: _____

ENGINEER: _____

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BREAKAWAY COUPLING			
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INSTRUCTIONS CONTINUED:

FIGURE 1

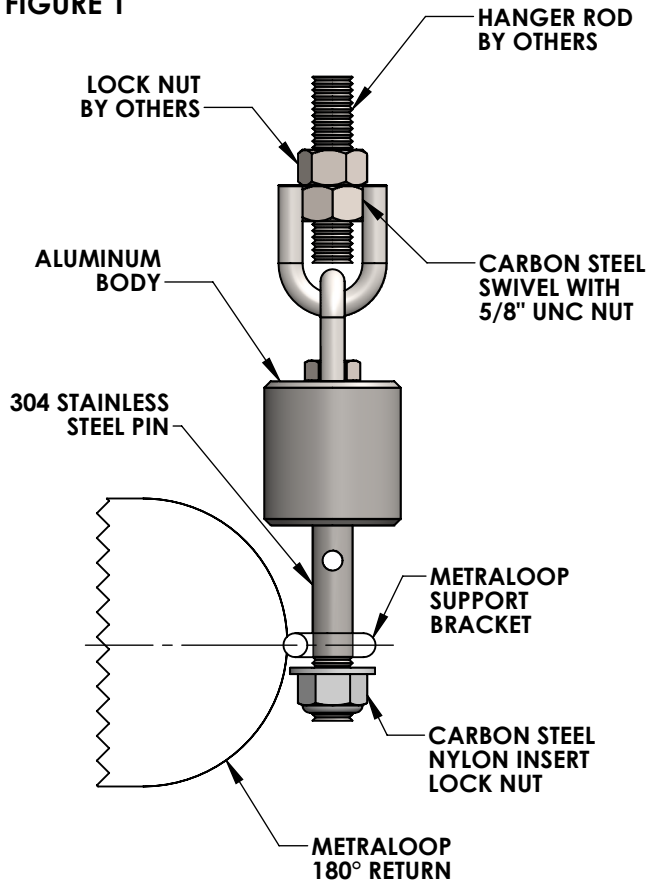


FIGURE 2

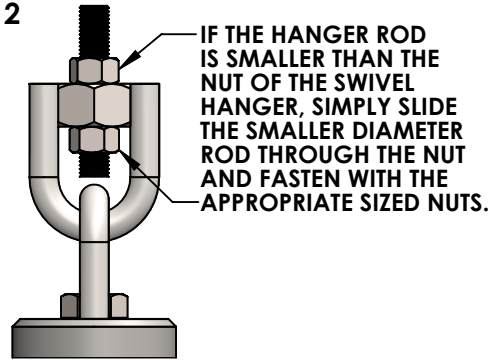


FIGURE 3

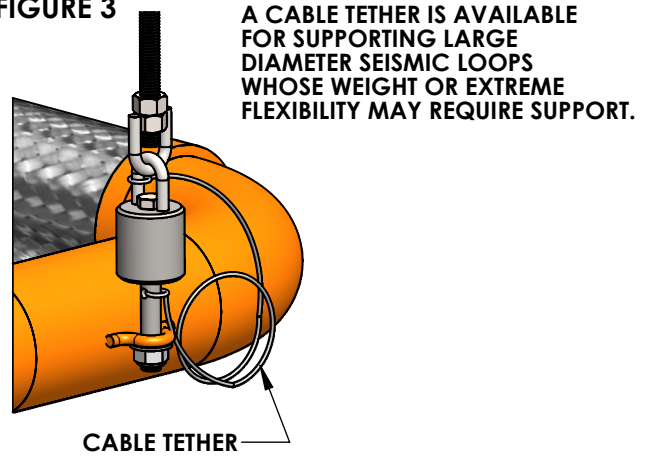


FIGURE 4

UNITS CAN ALSO BE USED WITH SADDLES TO PREVENT LONG FLEXIBLE LEGS ON LARGE LOOPS FROM SAGGING.

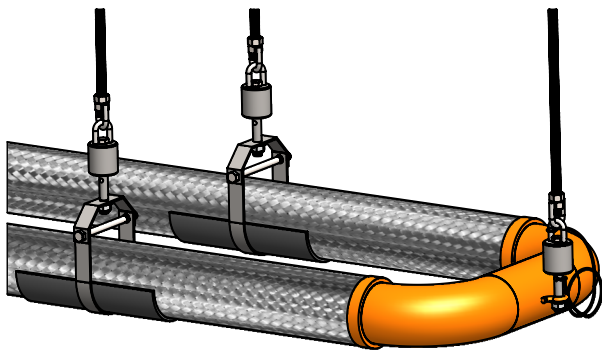
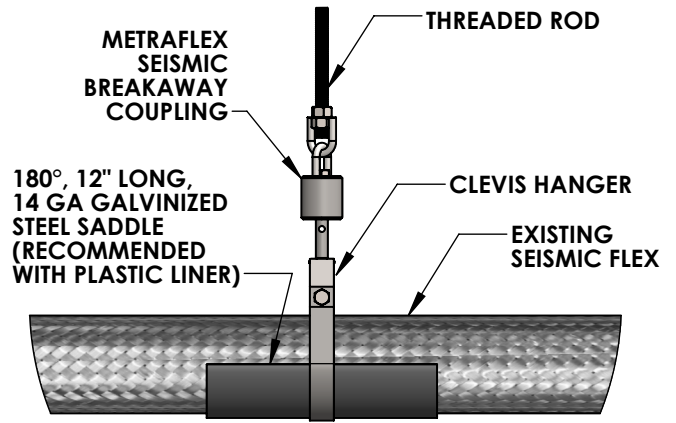


FIGURE 4A



CUSTOMER: _____

PROJECT: _____

ENGINEER: _____

Metraflex
for pipes in motion

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