

Elastoflex™ Hoses with EPDM Core and Stainless Steel Braid

OPERATION, INSTALLATION AND MAINTENANCE INSTRUCTIONS

General: Elastoflex hoses are manufactured from an un-reinforced EPDM tube with an outer stainless steel braid. Working together, the tube and braid are designed to absorb lateral movement, allow for minor pipe misalignment and isolate vibration. Standard end connections include FPT swivel gasketed, FPT swivel cone seat, MPT swivel, and fixed MPT ends.

Application:

1. Elastoflex is ideally suited for hydronic service such as fan coil hook-ups and other similar applications.
2. Elastoflex hose is not recommended for installation in inaccessible or enclosed areas. Due to the elastomeric component of the hose, this should not be considered a permanent fixture.
3. The pressure and temperature listed on the Elastoflex submittal must not be exceeded.
4. Length of hose must be selected so that the hose is not put into tension, point loaded, or have the bending radius exceeded.
5. Gasketed swivel ends are supplied with a special fiber washer from Metraflex and is designed to be installed onto a MPT, or a MPT adaptor fitting available from Metraflex.
6. System media must be compatible with EPDM


Joint Preparation

1. Gasketed Swivel Ends feature straight FPT. The sealing of the connection is accomplished with a special Metraflex supplied gasket or washer in the flat of the swivel, not the threads. The gasket is to be replaced each time the joint is disassembled. Teflon tape or any other thread sealant is not to be used with the FPT swivel ends
 - a. The Gasketed swivel end can be installed onto a standard MPT. Before installation check the threads and pipe end for burrs or any other irregularity. For the gasket to properly seal, the MPT must be free from defects.
 - b. Metraflex can provide a gasket seat X MPT adaptor to insure a proper gasket seal.
2. Optional Cone Seat swivel ends do not need a gasket and feature a taper seat. The taper seat requires a Metraflex supplied cone seat X MPT adapter to install properly.
3. MPT end is a standard MPT that is installed in a standard FPT with Teflon tape or thread sealant as required by contract documents.

Installation:

1. Do not twist or kink hose during installation.
2. Always install the fixed male thread end of the hose first. Apply thread sealant as required by contract documents.
 - a. Only place wrench on the hex head.
 - b. DO NOT wrench from the collar or the braided area of the hose.
3. Gasketed FPT Swivel Ends;
 - a. Insert Metraflex supplied gasket in the flat of the FPT swivel.
 - b. If not using Gasket Seat X MPT adapter, inspect MPT end for burrs and other defects.
 - c. Do not use Teflon tape or other thread sealants on FPT swivel.
 - d. Tighten FPT swivel finger tight plus ¼ turn. It is not unusual for there to be an initial small leak that stops during start up while the gasket is forming to the joint,
 - e. Testing of gasketed FPT Swivel joints must be done with water. The Metraflex supplied Gasket swells as it absorbs water, forming it to the seat area.

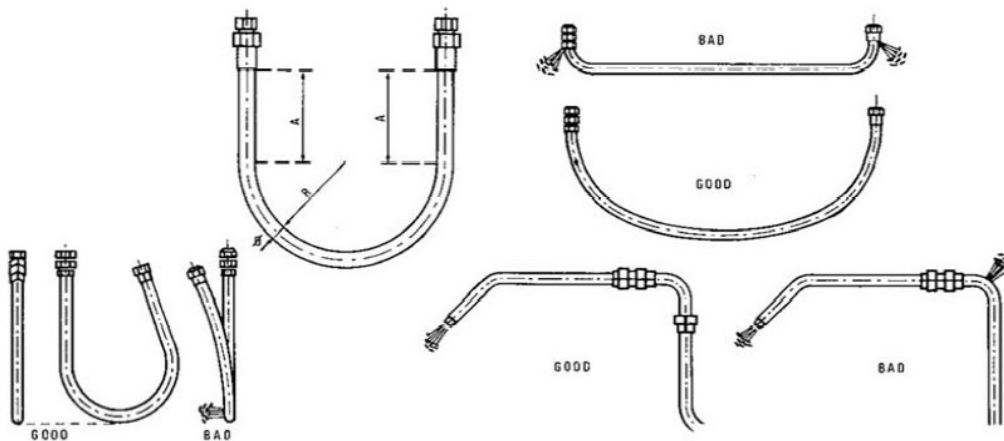
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PROJECT _____
ENGINEER _____
ARCHITECT _____
PRO. OR P.O. NO. _____

	
DESCRIPTION:	
Elastoflex Hoses with EPDM Core and Stainless Steel Braid	
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DRAWING BY: JC	DATE: 06-05-12
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Installation Continued:

4. Cone Seat FPT Swivel End;
 - a. Inspect Metraflex supplied cone seat X MPT adapter for burrs or other damage
 - b. Install the MPT end of the adaptor into the FPT of the connecting pipe or equipment. For this connection thread sealant should be used.
 - c. Install the cone seat FPT swivel onto the adaptor. Tighten until leak free. Do not use thread sealant on cone seat connection.
5. **Swivel** MPT end is a standard MPT that is installed in a standard FPT. Apply thread sealant as required by contract documents.
 - a. Only place wrench on the hex head.
 - b. **DO NOT** wrench from the collar or the braided area of the hose.
6. We recommend that Elastoflex hose remains un-insulated.



Testing: Joint may be one-time pressure tested to 1-1/2 times the product's maximum operating pressure. Do not exceed maximum pressure or temperature during operation. Gasketed joints must be tested with water.

Precautions:

1. Elastoflex hose is designed for static pressure applications. Water hammer and pulsating pressure may result in immediate failure or shortened life.
2. Avoid exposing the stainless steel braid to materials containing chlorides such as cleaning solutions and flux used to join copper. This exposure will quickly degrade the stainless braid causing premature failure. Exposure to plasters and concrete must also be avoided.
3. Install the hose so that it is not twisted during or after installation.
4. Do not install or store Elastoflex hoses near sources of Ozone such as electric motors or florescent lighting.

Maintenance:

1. Elastoflex hoses have no serviceable parts and do not require maintenance. Metraflex recommends periodic inspection of the hose for damage, braid degradation, and loss of flexibility of the hose. If any of these conditions exist, the hose is to be replaced.

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Metraflex.
for pipes in motion

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