



Flanged X Groove Hose and Braid Pump Connector

OPERATION, INSTALLATION AND MAINTENANCE INSTRUCTIONS

General: Metraflex Flanged X Groove Pump Connectors feature flexible metal hose and braid with 1 metallic flange and 1 metallic groove fitting. They are designed to minimize vibration and make up for pipe misalignment. Flanged X groove pump connectors are available in standard sizes and custom lengths. Please consult the factory submittals for specific performance specifications.

Application:

1. Pump connectors are designed to absorb vibration and lateral movement only. They are NOT designed for axial movement or torque.
2. Pump connectors are available in a wide range of lengths and diameters. Each has its own performance characteristics. Confirm that the braided connector ratings for temperature, pressure, vacuum, and movements match the system requirements and that the material selected is chemically compatible with the process fluid or gas.
3. Pump connectors are not flow directional, unless optional flow conditioning vanes are included.

Installation:

1. Inspect pump connector for shipping damage, ensure that the shipping bar is intact. Damaged joints should not be used.
2. Piping should be aligned as closely as possible, and within the allowed connector limit.
3. Unit lengths must not be altered during installation. Install at dimensions indicated on submittal drawings.
4. Piping must be properly supported so pump connectors do not carry any pipe loads.
5. The connector and adjacent pipe should be aligned properly. Do not try to compensate for pipe misalignment by putting any torsional, compressive, extension, or offset loads on pump connector.
6. Install the flanged end of the connector first then install the grooved end.

Testing:

1. 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.
2. Metraflex recommends hydrostatic test with all air in the system removed. If an air test is performed, appropriate safety precautions must be made.

Precautions:

1. Connectors should not be installed in inaccessible areas where inspection is impossible.
2. Make sure proper drainage is available in the event of leakage when operating personnel are not available.
3. If welding near a braided connector, cover the unit with a weld blanket to keep weld splatter from damaging the braid cover.

Maintenance:

Flanged Hose and Braid Pump Connectors have no serviceable parts and do not require maintenance. Metraflex recommends periodic inspection for leakage or damage such as dents or broken braid. If damaged, replace and do not use.

