

# TYPE XJG-EMT EXPANSION JOINT Installation Instructions

# **APPLICATION**

XJG-EMT Expansion Joints are used with Electrical Metallic Tubing, to couple together (2) two sections of tubing subject to longitudinal movement.

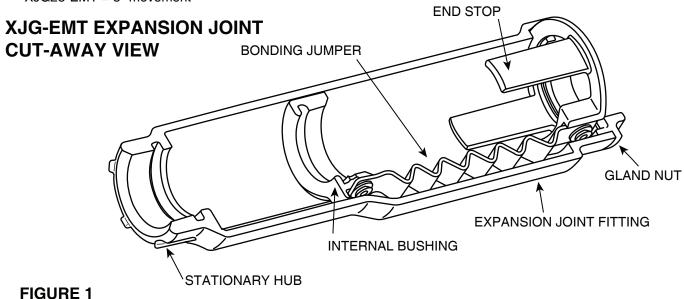
# **XJG-EMT Expansion Joints are installed:**

- · Without the need for unit disassembly.
- · Internally grounded therefore it does not require an external bonding jumper when used indoors or outdoors.
- On long conduit runs to permit linear movement caused by thermal expansion and contraction.
- On long conduit runs to prevent buckling and ensuing failures.

XJG-EMT Expansion Joints are UL Listed (UL Std. 514B) and CSA Certified (CSA Standard C22.2 No.18) as an effective grounding means (i.e., the path to ground is permanent and continuous), for the telescopic sections of the tubing. A metallic packing ring ensures the entire conduit system remains a continuous electrical conductor. The internal grounding method uses a flexible bonding jumper that is bolted on a movable bushing. The other end is mounted to a fixed end stop that is clamped on the body and secured in place by the gland nut. These joints are weatherproof and approved for use indoors and outdoors without an external bonding jumper. XJG-EMT Expansion Joints meet the requirements of Article 250.98 of the National Electrical Code, providing an electrically continuous raceway, requiring no additional bonding means.

XJG-EMT Expansion Joints permit the conduit to move either 2 inches or 4 inches from center of fitting, in either direction. This results in a total movement of either 4 inches or 8 inches. Example:

XJG24-EMT = 4" movement XJG28-EMT = 8" movement



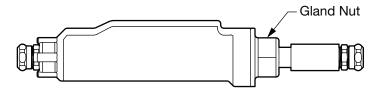
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# THE XJG-EMT EXPANSION JOINTS ARE DELIVERED PRE-ASSEMBLED.

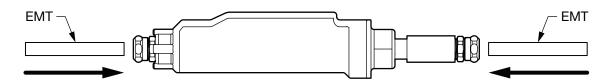
#### INSTALLATION INSTRUCTIONS

1) No disassembly required. The gland nut comes from the factory partially tightened to allow easy insertion of tubing. Figure 2 shows how the XJG-EMT Expansion Joint is packaged and received.



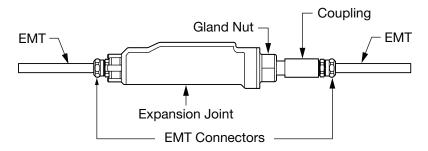
NOTE: EMT is inserted onto each end of the XJG-EMT shown in Figure 3.

## FIGURE 2



## FIGURE 3

2) Tighten gland nut using a pipe wrench, as shown in Figure 4. This will compress the Teflon packing around the tubing, providing a rain tight seal (See Torque Chart for correct torque). Tighten the gland nut at the end of the EMT connector.



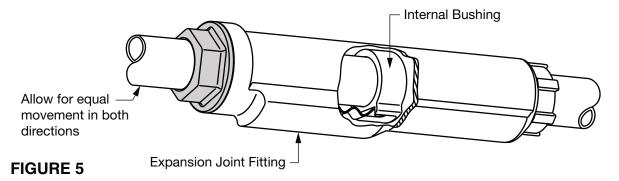
**Trade Size Torques** 3/4" (21) & Smaller 90.4 N·m (800 lbl-in)

**TORQUE CHART** 

1", 1-1/4", & 1-1/2" 113 N·m (1000 lbl-in) (27, 35 & 41) 2" (53) & Larger 181 N·m (1600 lbl-in)

## FIGURE 4

3) Allow for movement in either direction by positioning the internal bushing in the middle of the expansion joint fitting (XJG-EMT), as shown in Figure 5.



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