



**KILLARK**®

## INSTALLATION, OPERATION & MAINTENANCE DATA SHEET



### *Expansion/Deflection Fittings*



#### **CAUTION:**

Before installing, make sure you are compliant with area classifications, as failure to do so may result in bodily injury, death and property damage. Do not attempt installation until you are familiar with the following procedures. All installation must comply with the applicable Electrical Code(s).

Make sure that the circuit is de-energized before starting installation or maintenance.

Verify that the installation is grounded. Failure to ground will create electrical shock hazards, which can cause serious injury and or death.

#### **IMPORTANT:**

Please read these instructions carefully before installing or maintaining this equipment. Good electrical practices should be followed at all times and this data should be used as a guide only.

Technical information, advice and recommendations contained in these documents is based upon information that Killark believes to be reliable. All the information and advice contained in these documents is intended for use only by persons having been trained and possessing the requisite skill and know-how and to be used by such persons only at their own discretion and risk. The nature of these instructions is informative only and does not cover all of the details, variations or combinations in which this equipment may be used, its storage, delivery, installation, check out, safe operation and maintenance. Since conditions of use of the product are outside of the care, custody and control of Killark, the purchaser should determine the suitability of the product for his intended use, and assumes all risk and liability whatsoever in connection therewith.



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### Product Description -

*AF/AF8 Series Expansion fittings* are for use with IMC or rigid conduit installations. The AF/AF8 Series prevents damage of the electrical installations typically used in buildings and bridges by compensating linear movement due to temperature fluctuation or structural movement. This series provides maximum 4" and 8" conduit movement (2" and 4" in either direction). For applications involving IMC a 15" min. length of rigid conduit should be used entering the expansion fitting due to the slightly smaller O.D. of the IMC.

*DF Series Deflection fittings* compensate any directional movement between two conduit joints. These fittings can withstand sporadic vibrations channeled by rotating equipment or vehicular traffic. These fittings allow for a 3/4" contraction and extension movement as well as a 30° angular deflection to any direction and still maintain its structural integrity.

### Installation Instructions –

#### *Expansion Fittings:*

a) Remove cap from expansion fitting and slide the conduit through the cap.



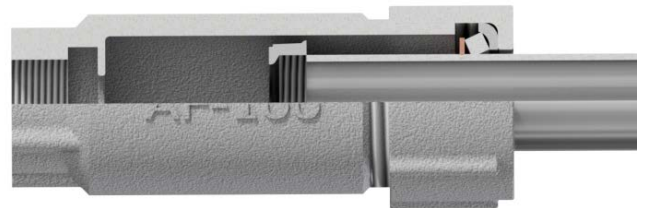
b) Thread the plastic bushing to the end of the conduit.



c) Reattach the cap to the expansion fitting.



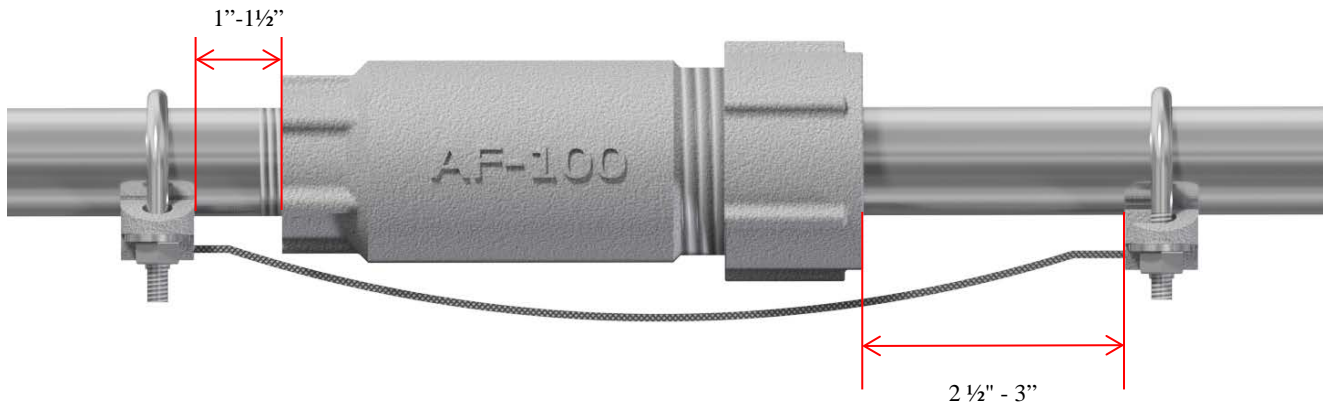
d) Allow for movement in both directions by positioning the conduit in the middle of the fitting body.





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e) Attach grounding clamps to the conduit bodies per NEC 250.98: Between 1"-1½" from the fixed side of the body, and 2½" to 3" from the adjustable side.



### Deflection Fitting:

- a) Make first connection by holding conduit rigidly and tightening the coupling being attached. The ribs on the coupling are for such tightening. Do not tighten by using the coupling at the far end of the fitting.
- b) To complete installation, hold free coupling at other end of fitting rigidly while tightening the conduit.
- c) Installation in concrete: Where the conduit system is to be embedded in concrete, place the fitting so that the expansion joint is entered between the sections of the concrete pour.

