



# Installation Instructions 1-1/2" FLEX-Riser, P/N FR21

Maximum Pressure Rating 125psig.

Introduction: Use this FLEX-Riser to connect 1-1/2" ASTM D2513 polyethylene pipe with an SDR 11 wall to above ground metallic piping. The NORMAC compression joint contains a massive rubber gasket for long life and secure seal. This joint has been design-qualified to ASTM D2513 Category 1 and DOT49CFR192.283(b).

## WARNING

Improper installation or application can result in pipe pullout, escaping gas, explosion, property damage, serious injury or death.

**Advertencia:** La instalación o aplicación incorrecta puede resultar en el desprendimiento del tubo, escape de gas, explosión, daños a la propiedad, graves lesiones o la muerte.

- **DO NOT** alter or add to this product.
- Adhere to all applicable codes, standards and regulations
- Use these fittings **ONLY** on ASTM D2513 polyethylene pipe of size and wall thickness specified on gasket and stiffener.

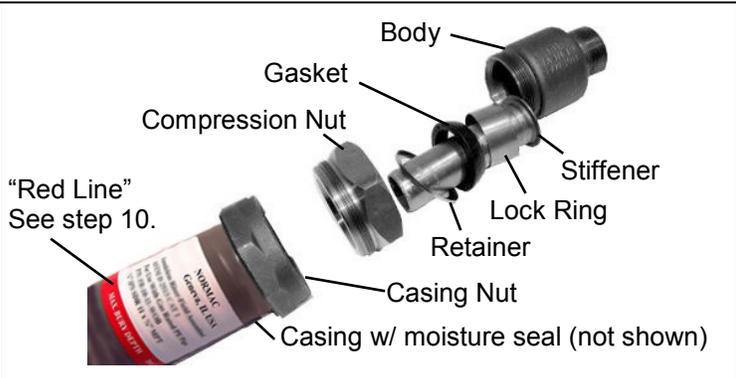
### Follow step by step instructions below

1. Unscrew casing nut from compression nut.



2. Disassemble compression nut, retainer, gasket, lock ring and stiffener from body. Read markings on pipe, stiffener and gasket. Pipe must read D2513. Pipe, gasket and stiffener must all be 1-1/2" IPS. Make sure SDR 11 (wall thickness) marked on stiffener matches SDR of pipe.

- **DO NOT** proceed unless sizes of gasket and stiffener match pipe size and wall thickness.
- Improperly matched materials may result in a leak or pullout.



3. Inspect pipe for scratches or other defects that may impair gasket seal. Cut pipe squarely, removing defects.

4. Insert pipe through moisture seal, casing and casing nut.

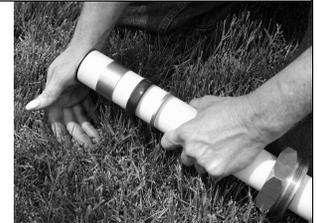


5. Slide compression nut, then retainer, then gasket, then lock ring onto pipe.



- **DO NOT** put gasket over lock ring. This may cause a leak or pullout.

6. Insert stiffener completely into pipe so flange on stiffener contacts pipe.



7. Insert pipe complete with stiffener, lock ring, gasket and retainer into body until it stops in body and thread compression nut onto body.



8. Use two 24" (or larger) pipe wrenches to tighten compression joint by holding body stationary with one wrench and tightening compression nut with other. Apply at least 65 pounds of force to ends of 24" wrenches when tightening compression nut.



- **Insufficient** tightening may cause a leak or pullout.

9. Thread casing nut onto bottom of compression nut and tighten until snug.



10. We recommend that red line on casing be above ground after final grade. (See Photo at left.) Test assembly per local requirements.

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