

August 2013

Guardian Engineering and Manufacturing

Many of you are aware that Flex-Weld & Keflex are part of Guardian Engineering and Manufacturing. For those who didn't know that, now you do! What you may not have known is what other companies are part of Guardian and what kind of products that we make. So, here they are!



Guardian Electric manufactures solenoids, coil windings, switch assemblies, and control grips. We pioneered many of the solenoid packages seen in the market today. They are used in everything from vending machines to door locks. Our coil windings are used in off road vehicle and automotive applications. Our control grips and switches are used in fighter jets, helicopters, and commercial aircraft.



Western Consolidated Technologies (WCT) is a family of companies that manufactures rubber, plastic and PTFE products for a wide range of industries. WCT manufacturing is in Fremont, IN.



Advanced Molding Technologies specializes in insert molding, thermoplastic injection molding, metal to polymer conversion, and mold design and fabrication.



So, as you can see, there's more to us than meets the eye. We are a diverse manufacturer serving a wide range of markets and applications. Check out our website to learn more about us.

www.guardian-engineering.com

Question of the Month

We recently received an inquiry for an application requiring more axial extension than is allowed for in our standard expansion joint specification. As a reminder, our axial motion specification for an expansion joint is in inches. That number includes both compression and extension of the joint.

For example, a 2" axial motion specification on an expansion joint is defined more specifically as 80% of the 2" motion for compression of the joint and 20% for extension. These are based on an installation temperature of 70°F. For normal HVAC applications this generally will be fine. In this chilled fluid application though the low end temperature required more extension than is allowed for in the standard specification.

To accommodate this additional extension we pre-compressed the expansion joint and installed knock bars to hold the joint in the compressed state. The knock bars are then removed after installation in the application. This does reduce the amount of compression in the joint so there is some limitation in how we apply this technique.

The bottom line is, don't get FROZEN OUT of a specification just because the application demands some additional extension in the expansion joints. Get the application details from your customer and let us design an expansion joint to meet your customers' needs.

Did you know that.....

This is the one year anniversary of Ke-Notes! Boy does the time fly! The past issues are available on our website www.flex-weld.com.

Your KEFLEX Team

Engineering

Don Grandt—Engineering Manager
 Phone: 815-334-3631
 Email: dongrandt@kelcomail.com

Customer Service

Stephanie Babineau—Acct. Specialist
 Phone: 815-334-3642
 Email: Sbabineau@kelcomail.com

Customer Service

Russ Leipnitz—Customer Service
 Phone: 815-334-3603
 Email: RLeipnitz@kelcomail.com

Product Management

Tom Rhode—Product Manager
 Phone: 815-334-3620
 Email: tomrhode@kelcomail.com

KEFLEX
 1425 Lake Avenue
 Woodstock, IL 60098



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www.flex-weld.com
 Ph: 800-323-6893
 Fax: 815-334-3689