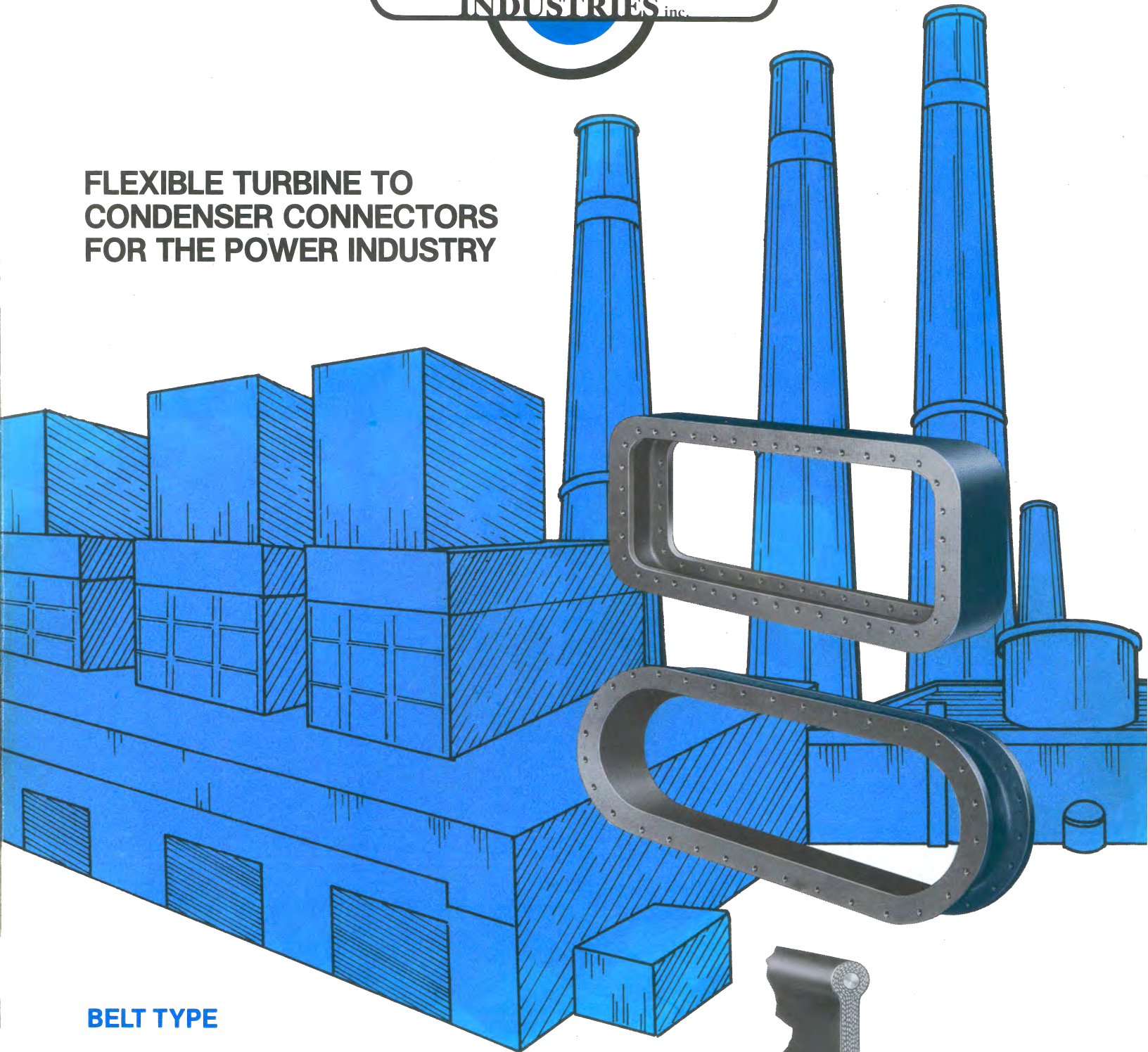




**FLEXIBLE TURBINE TO  
CONDENSER CONNECTORS  
FOR THE POWER INDUSTRY**



**BELT TYPE**

**FLANGED "U" TYPES**

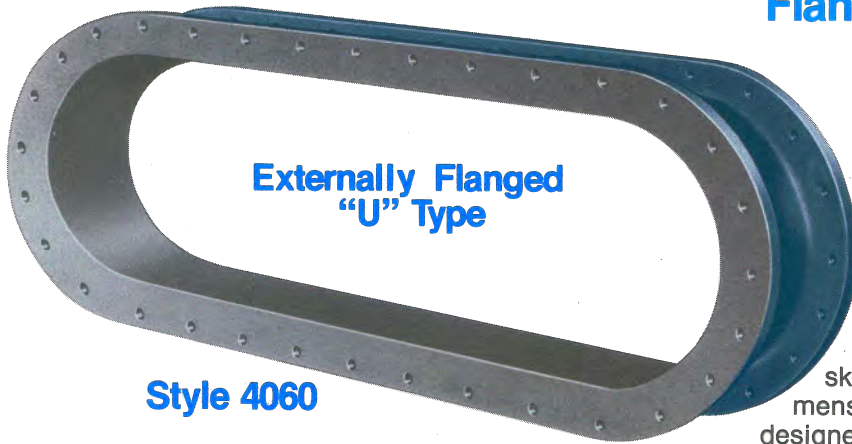
**EXTERNAL FLANGE  
INTERNAL FLANGE**

**LA FAVORITE INDUSTRIES inc.**

33 Shady Street, Paterson, N.J. 07524, 973-279-1266, Fax 973-279-3447

## Flanged "U" Types

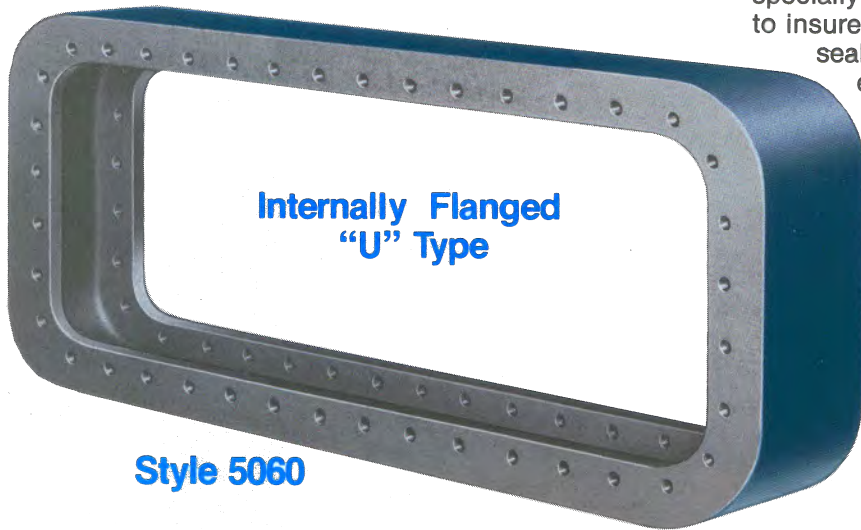
### Flanged "U" type expansion joints



**Externally Flanged  
"U" Type**

**Style 4060**

These two styles of turbine to condenser connectors are used in power stations as a flexible connection between turbine and condenser where bolting flanges have been specified. The "U" type configuration is a superior design which is long lasting and very durable. Constructed of multiple layers of reinforcing fabric and the finest elastomers available, these joints are custom fabricated by highly skilled craftsmen to exacting specifications and dimensional tolerances. Each "U" type expansion joint is designed for the specific application where it is to be used, and can be provided with fabricated steel retaining rings specially designed for the connector. These are employed to insure support against pressure, and to provide a tight seal to prevent collapse from vacuum conditions that exist in condensers. The internal or external connector can absorb movements of 1" compression and 1/2" lateral.



**Internally Flanged  
"U" Type**

**Style 5060**

### Field Splicing— "U" Type Expansion Joints

At La Favorite Industries we offer field splicing of "U" type expansion joints in cases where an endless piece cannot be installed due to internal piping interference. We use a hot molded splice employing the original materials of construction.

This is a reliable low cost method developed at La Favorite Industries for vulcanizing sections of large joints in our factory. It has been proven in field applications with excellent results.

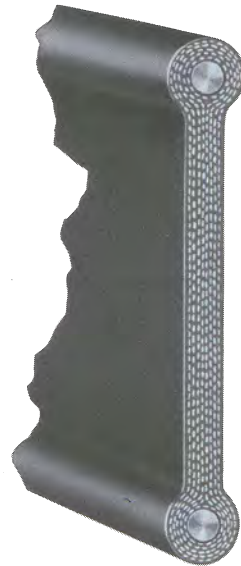
Failures due to inadequate adhesion and delaminations are virtually eliminated because the materials used in the initial building of the joint are the same ones used in the splice, thus providing continuity and compatibility. It is not recommended using outsiders or conveyor belt splicers for this work since they are not familiar with our rubber compounds or construction. This is highly technical work and should be left to experts.

## Belt Type Expansion Joint — Style 8060 (Dog Bone)

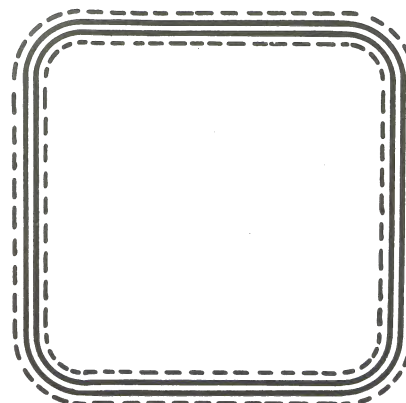
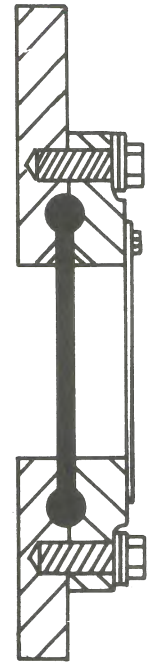
The belt type expansion joint is used as a flexible connection between low pressure turbines and condensers in power generating plants worldwide.

It is perhaps the most widely used turbine to condenser expansion joint in use today and is found in fossil fueled plants as well as nuclear stations. Designed for full vacuum service, it can accommodate movement up to 1" of compression and ½" lateral deflection. Note that it cannot accommodate extension, so it is therefore critical that clamp spacing is within manufacturer's specifications.

Extensive research and many years of manufacturing experience has made La Favorite the leading manufacturer of belt type expansion joints. In addition, our field service technicians are available on a moments notice for installation and emergency repair anywhere in the world.



Typical belt cross section showing clamping device



Installed configuration

### Belt cross sections available, open end or endless

10 5/8" x 5/8"
10 1/2" x 3/8"
10" x 5/8"
10" x 3/8"
9 3/4" x 1/2"
9 3/8" x 1/2"
9" x 5/8"
6" x 1/2"

**Note:** If supplied open ended, field splicing is necessary at installation.

## Field Splicing—Belt Type Expansion Joints

La Favorite technicians are readily available for splicing and installation advice, relating to belt type expansion joints. La Favorite field splices are as strong as the belt itself, using a method that insures continuity and long life. The same quality materials used to manufacture the belt in the factory are used to make the field splice inside the condenser.

In addition, we can assist in planning the installation and through our years of experience can recognize common deficiencies in the condenser; such as misalignment and settling, that can lead to premature failure of the expansion joint, if not corrected or compensated for.

At La Favorite, we have made a total commitment to the manufacture and service of belt type expansion joints, making us the single source for your rubber, condenser expansion joint requirements.

**La Favorite Industries**



**CONDENSER INLET EXPANSION JOINT**

**Retrofit Program**

Now LA FAVORITE can retrofit your existing plant with a **“DOGBONE”** type expansion joint to replace fatigued, metal turbine to condenser expansion joints.

With many older plants undergoing service life expansion programs, a **“DOGBONE”** retrofit replacement is a cost effective solution to the expense of buying and fitting up stainless steel expansion joints which require difficult and intricate welding to install.

The **“DOGBONE”** hardware is relatively simple to install. Once properly welded in place, it becomes a permanent fixture in your plant. Most future maintenance would primarily involve replacement of the rubber element which is quick to install, and requires few special skills.

The rubber **“DOGBONE”** is a proven performer with over 40 years application experience in the power industry. With modern up-to-date materials. **“DOGBONE”** performance is better than ever, with higher temperature capabilities, lower spring rates and greater reliability.

Let LA FAVORITE help solve your condenser inlet problems through proven manufacturing techniques, sound installation advice and superior field splicing service.

Give us a chance to put our many years of power plant experience to work for you, whether its a routine **“DOGBONE”** replacement, or a complete retrofit.

**Elastomeric Products**

Mechanical Packings • Condenser Expansion Joints • Specialty Seals • Custom Molding  
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