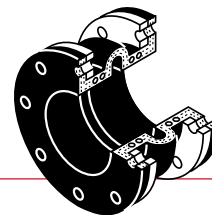


# COOLING TOWER APPLICATIONS



**Mercer Rubber Company's Expansion Joints as Employed on Hamon's Wet/Dry Cooling Towers for a Northeast Utility**

## EXPANSION JOINT APPLICATIONS & ADVANTAGES

- **Accepts all directional thermal movements**, minimizing pipe stresses and offering untold cost benefits as compared with the additional material and space required for expansion loops.
- **Dampens noise and vibration** caused by rotating equipment (e.g., Centrifugal Pumps) by breaking up its disturbing frequency and absorbing its damaging forces.
- **Resists shock and fatigue** by the flexibility inherent in its elastometric construction, accepting the damaging forces generated by water hammer, pressure surges and seismic events.
- **Features built-in offsets**, as shown below, for greater flexibility in routing piping, minimizing space and material requirements.
- **Resists corrosion, erosion and abrasion** by the selection of an elastometric material optimal for the system's fluid medium and temperature.
- **Has low movement forces**, which are particularly important in plastic piping systems, through both the flexibility inherent in rubber expansion joints and Mercer's improved design features, including an optional bias ply angle and arch shape.

