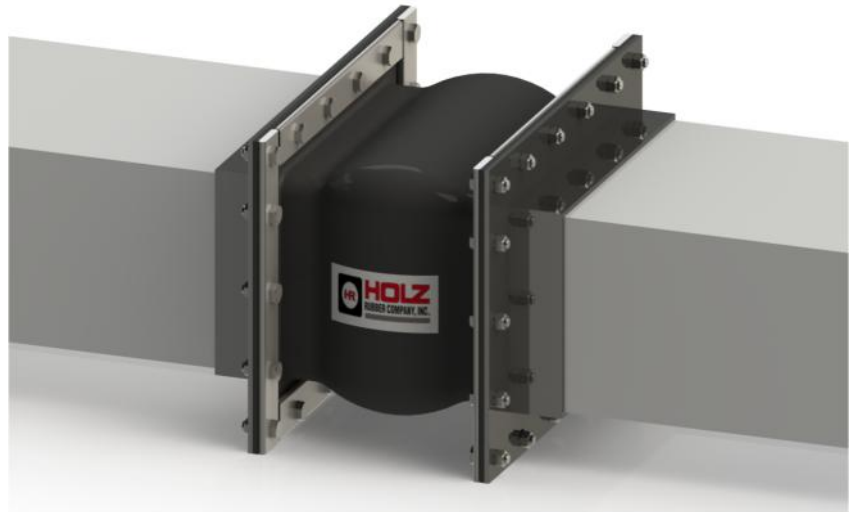


Excessive Movement Solved With A Non-Metallic Expansion Joint

Application:

Hot air duct work expansion joint used for vibration isolation in a potash mine processing operation.



Problem:

A potash processing facility contacted a Holz Distributor asking for design help with a fan housing to metal air duct coupling that failed three times in 2 years. The metal connector was separating and bending near the flanges allowing hot air to leak into the surrounding area.

Solution:

An Expansion Joint Specialist worked closely with our Distributor to verify the movements of the fan during operation. The fan had excessive movement at start-up, causing stress at the flanges and adjoining equipment. It also observed the fan had constant vibration adding further acoustical impedance to the system. Our engineering team recommended and engineered a Holz Style 945 -W- type expansion joint rated for the extreme movement and vibration of the fan. This new style of joint made it possible for the expansion joint to maintain a proper seal along the flanges at start-up and to absorb vibration during operation. The engineered solution has been running leak-free with no problems since installation.