Garlock
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Case Study: STYLE 215 - Steel Products Manufacturer

INDUSTRY
Primary Metals

CUSTOMER
South American manufacturer of flat and long steel products

BACKGROUND
Construction of two new facilities including a hot rolling mill.

CHALLENGES FACED
The plant was in need of expansion joints that could handle chemicals on their pickling lines. Pickling is a metal surface treatment used to remove impurities, such as stains, inorganic contaminants, rust or scale from ferrous metals. A solution called pickle liquor, which contains strong acids, is used to remove the surface impurities. It is commonly used to clean steel in various steel making processes. The line required an expansion joint with a PTFE tube to handle the pickle liquor which included hydrochloric and sulfuric acid, but a very short overall length for installation.

OPERATING CONDITIONS
Size: 10.000"ID Style 215
Temperature: 120°F
Application: pickling line
Media: pickle liquor with strong acids including hydrochloric and sulfuric acid
Pressure: up to 120 PSI

SOLUTION AND BENEFITS
A style 215 Garlock expansion joint was recommended as the perfect solution to handle strong acids with a short installation face to face. The convolution design and shape provides extra-long flex life at high temperatures. Style 215 has a 100% pure PTFE body that is made to withstand corrosion and harsh acids found in pickle liquor. The proprietary multi-ply contour molding process ensures consistent wall thickness for excellent blowout resistance. Style 215 was able to offer a solution that ensured efficient installation, and an expansion joint that had proven to withstand harsh acids. The customer ordered multiple pieces with confidence that Style 215 would meet their sealing needs.

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an *EnPro* Industries family of companies
Tel: 1-877-GARLOCK / 315.597.4811
Fax: 800.543.0598 / 315.597.3216
www.garlock.com