

HOSE MASTER

Tank Farm Expansion Joints

You Shouldn't Settle, Even if Your Tanks Do

Standing next to a tank in a tank farm can be a humbling experience. Like a rollercoaster, it's easy to dismiss or underestimate the magnitude of these structures until you're staring up at one and feel your head swimming with vertigo. But unlike a single skyscraping rollercoaster, these huge tanks are rarely alone and are often constructed in large groups – making their enormous individual size even more staggering. Because of their tremendous bulk, the surrounding piping must serve the tank, not the other way around. Adequately designed hard-piping runs are often used and can alleviate some of the tank's concerns but are limited by cost, footprint, and physical inflexibility. In many situations metal expansion joints are an ideal solution to all sorts of long-term complications with tanks because they mimic their construction, but bring the added ability to flex and accommodate movements.

The biggest movement problems with tanks include piping misalignment, vibration, and settling. Piping misalignment can happen in construction of or during maintenance of the tank, excess vibration can be caused by pumps and seismic activity, and settling can occur naturally over time causing the tank to shift position. Properly designed expansion joints can address all of these issues decreasing the maintenance and increasing life of surrounding components. Additionally, stainless steel construction gives Hose Master's expansion joints exceptional resistance to the outdoor environment in rain or shine (or worse) conditions, whereas other material types are susceptible to breakdown over time from the elements.

FEATURES:

- Complete bellows size range from 2" to 120" inner diameter
- Expansion joint hardware options ranging from tie rods to internal liners to external covers to fully accommodate the stresses of the piping system
- Superior physical resistance to permeation and puncture
- Stainless steel construction is fire-safe and will not crack, bake, or break down over time
- Corrosion resistant alloys accommodate media from crude oil to chemicals in: 321, 316, Hastelloy C276, Inconel 625 and others
- 2-ply through 10-ply constructions to reduce vibration and extend pump life

BENEFITS:

- **Flexibility.** A custom-designed expansion joint is unmatched when it comes to accommodating axial compression and offsets and delivers it within a limited footprint
- **Safety.** Permeation & fire resistance provide integrity and security in service

Hose Master is a Service and Engineering Company

As the leading North American manufacturer of metal hose and expansion joints, Hose Master has grown through product innovation to define the industry standard. We do this by designing and building our own equipment to meet the most stringent requirements in an ever more demanding marketplace.

Our engineering expertise stems from a combination of long-standing industry field experience and 10% of our total workforce being devoted to research and development. But our primary driver to change and improve our organization has always been service to our customers.

By expanding our national presence to include three additional manufacturing satellites to support our extensive outside sales force, and increasing our fabricating footprint by employing and training our 100+ ASME IX welders, we are able to provide premium fabricating and sales service across the country.

Selecting the proper hose and assembly components is crucial. You must ensure each assembly is designed specifically for your intended purpose and operating conditions. Please consult our website or Inside Sales for assistance.