



Scissor Shoe Primary Seal



The HMT Scissor Shoe Primary Seal for above-ground storage tanks is the primary seal of choice on external floating roofs. The HMT Scissor Shoe Primary Seal has a superior, long lasting service life, and provides a positive vapor seal. In addition, this seal maintains its seal despite various tank shell irregularities and out-of-roundness.

Utilization of the HMT Scissor-Type Hanger Assembly enables the shoes to maintain a constant seal elevation even through multiple variations (wide to narrow) rim spaces, eliminating seal gaps caused by uneven shoes. The design of the Scissor Hanger Assembly allows for a bolted-in application eliminating welding of rim clip brackets to the pontoon.

The strategic placement of stainless steel pusher bars and pusher plates provide a uniform pressure of the shoe against the tank shell, rather than the use of coiled springs and counterweights that provide fewer “push

points” resulting in shoe gaps and concentrated wear areas.

The pusher bars and pusher plates are fabricated of “quarter-hard” stainless steel material, providing the materials with a spring-like “memory,” resulting in improved sealing capability and extended service life. These pusher assemblies maintain their tension on the shoe without fatigue as the roof cycles and the shoe accommodate various wide/narrow rim variations without gapping.

The HMT Scissor Shoe Primary Seal is available in galvanized or stainless steel. Both provide economical corrosion protection. The innovative design of the HMT Scissor-Type Hanger Assembly allows installation of the complete HMT Scissor Shoe Primary Seal with the tank remaining “in-service”.

Contact your local HMT representative to discuss the full suite of products and services that will satisfy all your AST needs.

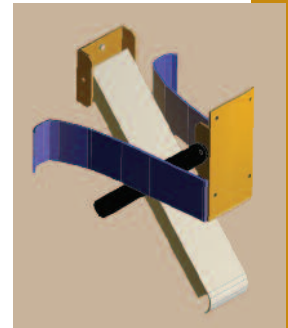
HMT's Scissor Shoe Primary Seal Unique Design Features Include:

- In-service installation available
- Unique scissor-type hanger mechanism maintains levelness of metallic shoe, eliminating seal gaps
- Accommodates wide variations in rim space
- Compatibility with welded and riveted tank shells
- Multiple pusher bars and pusher plates for uniform pressure of shoe on tank shell
- Quarter-hard stainless steel pusher assemblies for extended service life
- No coil springs or under-roof counterweights
- External and Internal floating roof designs available
- Compatibility with welded and riveted tank shells
- Compliance with federal, state and local regulations
- Available with Secondary Seal Systems
- Available with wax scrapers

HMT's Wide Range of Seal Materials Include:

- Metallic
 - Stainless Steel
 - Galvanized Steel
- Primary Vapor Barrier Fabric
 - HMT's PTFE Laminated Fluoropolymer (Teflon®)
 - Urethane, polyester reinforced
 - Buna-N Vinyl, fiberglass or nylon reinforced

(These and other fabrics are available in various thicknesses.)



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