



SEALMASTER™ PRIMARY & SECONDARY FLOATING ROOF SEAL SYSTEMS



The SealMaster™ floating roof seal system was developed over 25 years ago with the goal of making a seal that adjusts to the irregularities of tanks while remaining gas tight and virtually maintenance free. The solution is the SealMaster™ seal system.

Key user benefits:

Best available technology for emissions and product loss reduction — designed with guidance from EEMUA 159, standard working range of R(-X/+3X), highest BREF scoring and best Kra loss factor per EPA chapter 42

Designed to remain in contact with the tank at all times, regardless of structural or environmental changes — the R(-X/+3X) design working range feature is an HMT innovation. Under all circumstances the SealMaster™ rim seal will stay in contact with the tank shell

Flame Retardant — flame retardant membranes under guidance from DIN 22100/22188

Complete product compatibility — all construction materials are selected to be compatible with the stored product

Worry-free operation — centers the floating roof and dampens horizontal roof movement so the floating roof will not be blocked and the rim seal does not get squeezed in between the floating roof and the tank shell

Key design features:

- Materials are product and UV resistant
- Sliding parts in contact with the tank shell are wear resistant
- Centers the floating roof
- Effectively dampens horizontal movement of the floating roof
- Has an adequate working range to handle all potential tank irregularities R (-X/+3X)
- Flame retardant
- Prevents ingress of rain water
- Secondary seal has a very low profile, allowing more filling capacity
- Gas-tight certification available

KEY DESIGN FEATURES

The SealMaster™ is the best available technology in floating roof seals. Here's why:

Tested and certified gastight

Liquid mounted and certified gastight, the SealMaster™ is unsurpassed in its ability to mitigate rim seal vapor losses. Designed with a gastight, thermally-welded PTFE fabric membrane which completely envelops the vapor space, the SealMaster™ system effectively reduces vapor losses from 9 up to 57 times as compared to non-gastight seal systems.

The SealMaster™ primary mechanical shoe seal is the only rim seal ever tested, proven and certified to be gastight.

Flame retardant

Supplied with flame retardant membranes, the applied PTFE (Teflon®) fabric has been fire tested under the guidance from DIN 22100/22188.

Being flame retardant and having an excellent electrical continuity will guard from rim fires for the complete lifespan of storage tank.

Unsurpassed working range

Designed with a working range of R(-X/+3X) per EEMUA 159-BREF, which ensures that the seal will not gap, even under extreme ovality and lateral forces from wind or product turbulence.

Centers the floating roof and dampens lateral roof movements

The SealMaster™ is designed with fully-hardened stainless steel spring plates. This material ensures excellent centering of the floating roof—if the rim gap gets smaller the seal exerts a progressively increasing force on the tank-shell and vice versa. Keeping the roof centered is critical to safe operation of any floating roof tank.

This same hardened steel provides the resistance required to keep the floating roof from moving excessively during windy conditions or under turbulence from filling; this dampening capability is also critical to safe and effective operations.

ABOUT HMT

HMT is the global leader in aboveground storage tank solutions. HMT's global team of engineers, project managers and field personnel can assist with common challenges including ways to reduce emissions, optimize tank capacity, reduce stranded inventory and engineer a tank system that exceeds safety standards and extends maintenance intervals.

HMT's full suite of tank products includes: External Seal Systems - Internal Seal Systems - Drain and Floating Suction Systems - Geodesic Domes - Skin and Pontoon IFRs - Full Contact IFRs - Emissions Reduction Devices

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SEALMASTER™ FEATURES

- Working range of R(-X/+3X) per guidance from EEMUA 159-BREF, to seal off the worst of tank shells.
- Extremely flexible to adapt to bulges in the tank shell and out of roundness of the tank.
- Low profile to optimize working capacity.
- DIN 22100/22118 tested flame retardant membrane. This combined with a good electrical continuity will definitively guard from rim fires.
- Abrasion resistant, due to a design of the tip seal of 4 layers. These 4 layers are built up out of two different rubber compounds, each specially selected for their typical application (chemical/ weather resistance).
- Excellent water-shedding ability.
- Exposed fabrics are UV resistant.
- Shoe plates can be supplied in PVDF for chemical compatibility of certain stored products.
- Suitable for service in butt-welded, lap-welded or riveted storage tanks.



Water Shedder



Wax Scraper

