



TS-100 Lightweight Mechanical Seal

The TS100 Lightweight Mechanical Primary Seal from TankServ has been developed to meet the growing demand for an economic primary seal system that provides positive vapour retention capabilities, longevity of operation and an all bolted design, removing the need for hotwork during installation.

Consisting of stainless steel or galvanized shoeplates held against the tank shell by a series of sprung hanger assemblies and sealed with an impervious continuous membrane, the TS100 Mechanical Primary Seal can be used in a variety of rim spaces and configurations.

Provided by the experienced team from Land & Marine TankServ

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Description

The TS100 Lightweight Mechanical Seal consists of stainless steel or galvanised steel shoeplate that are designed to remain in contact with the tank shell at all times. The shoeplate extends above the rim plate of the floating roof by approximately 152mm and extends into the product by a minimum of 50mm. The shoeplates overlap with each other providing free movement to deal with tank irregularities.

The primary seal shoeplates are forced against the tank shell by compression devices that have the ability to expand and contract as required to accommodate irregularities in the tank shell.

The complete assembly is initially designed to permit rim space movement of +/- 100mm (4"), however larger rim spaces can be accommodated upon request.

The TS100 Lightweight Mechanical Seal is provided with a continuous vapour barrier membrane that is connected to the top of the shoeplate and to the floating roof to minimise vapour loss from this area. As standard, the vapour barrier material is manufactured from high quality Teflon material designed to provide excellent resistance to a range of hydrocarbon and chemical products. Other material types can be provided upon request.

As the Lightweight Mechanical Seal System does not employ any coil spring assemblies or counterweights under the floating roof, then the installation of the seal system can be completed from the top.

Secondary Seals

The TS16 Servaseal Range is the recommended secondary seal for use with this Lightweight Primary Seal, however shoe-mounted and secondary wiper seals can be produced if required.

Materials of Construction

- Sealing Ring: normally stainless steel, however galvanised steel is also available on request
- Continuous Seal: normally high quality Teflon material, however other polymer materials are also available on request
- Sprung Hanger Assemblies: normally stainless steel, however galvanised steel is also available on request
- Fixings: all stainless steel
- Suitable for 100% aromatic service

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