



## TS - 1 Mechanical Primary Seal

The TS - 1 from TankServ is a mechanical shoe seal for welded tank shells. This type of seal is probably the most widely used on floating roof tanks and is normally used for a nominal rim gap of 8" (200mm) although it can be used with wider rim gaps. It is robust and has a good service record extending over many years.

## Description

The sealing ring is a series of metal plates attached end to end and held against the tank shell by a system of weighted levers.

The pantograph assembly and weight exerts a constant pressure to push the sealing ring against the tank shell. The built-in flexure accommodates any shell irregularities.

A continuous, vapour tight and weather resistant synthetic rubber coated fabric or Teflon Material is used to close the space between the sealing ring and the rim of the floating roof. Weathershields are not normally used with this design.

## Material Specification

- **sealing ring:**  
normally galvanised mild steel or equivalent, stainless steel available
- **continuous seal:**  
TS - 151 reinforced polymer sheet PTFE Teflon Material.
- **pantograph system:**  
mild steel with stainless steel pins for pivots, stainless steel systems available
- **antistatic shunts:**  
stainless steel
- **suitable for 100% aromatic service**

## Weathershields

Weathershields can also be provided.

## Secondary Seals

The TS - 16 Servaseal Range is the recommended secondary seal for use with this primary seal; however we can produce a shoe-mounted secondary wiper seal if required. Shoe-mounted secondary seals are of course dependent on the shoeplates being in good contact with the shell.

A curtain extending from the wiper to the roof rim assists in improving this form of secondary seal.

## Wax Scraper Plates

These can be provided to deal with waxy crude deposits on tank shells.



## Land & Marine

TANKSERV

### Land and Marine Project Engineering Ltd

Dock Road North, Bromborough,  
Wirral CH62 4LN United Kingdom

T. +44 (0)151 641 5600

F. +44 (0)151 644 9990

E. [company@landandmarine.com](mailto:company@landandmarine.com)

W. [www.landandmarine.com](http://www.landandmarine.com)

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