

Servaseal 1

Primary Seal omitted in this illustration but could be any from our range.

Or Servaseal 2,4



TS - 16/1,2,4 Servaseal Secondary Seals

Even well designed and properly maintained, primary seals operating in geometrically accurate tank shells permit significant vapour losses from storage tanks. The basic mechanism of loss is due to the swirling, scouring action of the wind.

For vapour loss read loss of revenue.

To counter the revenue loss, the independently mounted secondary seal of the compression plate type is unequalled. Besides cutting vapour losses, the secondary seal confers other benefits.

Advantages

1. Complies fully with EPA & API standards.
2. Reduced vapour loss resulting in fewer odour problems and offering a cost-effective way of complying with air quality standards.
3. Enhanced fire safety by reduced free hydrocarbons above the seal.
4. Fitting can be carried out from above with the tank in service, since no hot work is required.
5. Can be paired with all primary seal types & has been used successfully worldwide by many major oil companies.
6. Can be used in almost all service conditions up to 100% aromatics.
7. Irregularly shaped tank shells can be accommodated.
8. Reduces water ingress to the product.
9. Easy access for visual inspection.
10. Can be supplied with stand-off wheels to protect against malformed tank shells.
11. Foam injection ports can be provided in the compression plates.

Description

The Servaseal range of compression plate type secondary seals from TankServ exploits the spring action obtained when custom designed steel plates are compressed to bridge the annular rim gap from tank roof to shell. The plates may be mounted on horizontal or vertical roof rims and made to accept specific bolt pitching. Adjacent compression plates are overlapped, lightly attached and soft gasketed to permit relative movement while presenting an impervious barrier to the passage of vapour. Plates are clamped to the roof rim by channels. The height of the secondary seal above the rim will be minimised to reduce loss of storage capacity.

As a variant on the above we can provide an option where a flexible polyurethane or teflon Material vapour barrier is fitted behind the compression plates and the adjacent plates overlap but are not bolted and gasketed. This option is available on request.

For more details on this and other products visit:

www.landandmarine.com

Contact with the tank shell is by an extruded Servaseal polymer tip attached to the upper edge of the compression plates. The form of the extruded tip will be selected from the two styles described below:

1. **Single contact:** Suitable for butt welded tank shells. High wear resistance. Positive tank shell contact permits removal of waxy deposits.
2. **Double contact:** Suitable for butt welded tank shells. Lighter contact with shell. Use where shell distorted or very rough, protruding welds, etc. Can be supplied in viton for benzene service.

The above are formulated for long life in exposed, arduous conditions.

Materials of Construction

- **compression plates:**
galvanised mild steel or stainless steel
- **channels:**
galvanised mild steel or stainless steel
- **grounding shunts:**
stainless steel
- **plate gasketing:**
closed cell polymer or optional vapour barrier
- **fasteners:**
stainless steel
- **anti-hang-ups:**
st. stl.; to safely return the secondary seal elements to the tank shell after accidental overfilling

Land & Marine

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Product & Services Available From TankServ - DOWNLOAD FROM WEBSITE

TS - 1 Mechanical Primary Seal
 TS - 1L Lightweight Mechanical Primary Seal
 TS - 5 & TS - 6 Liquid Filled Seal
 TS - 7 & TS - 9 Foam Filled Seal
 TS - 14 Foam Filled Seal
 TS - 16 Servaseal Secondary Seals
 TS - 16 Servaseal Double Seals
 TS - 32 Servaseal Secondary Seals

TS - 32 Servaseal Double Seals
 Guidepole Sleeves & Vapour Leg Socks
 Internal Floating Covers
 Geodesic Dome Roof
 Roof Drain Systems
 Floating Suction Units
 Tank Accessories