



CTS30 LIQUID MOUNTED PRIMARY SHOE PLATE SEAL

The first barrier against emission in the rim area of an external floating roof is the primary rim seal. It also serves at a safety device reducing the risk of combustible vapours in this area. The design of these primary seals is therefore very important. Our seals solutions provide an optimal combination of reliability and performance with a low total cost of ownership. We offer a full range of primary seals in all common seal design types in a wide variety of materials, including all grades of stainless steel and galvanised steel.

One of the innovations introduced by over the years is the CTS 30 compression shoe plate seal. This seal type combines the simple and low maintenances characteristics of the traditional compression plate seal with the excellent sealing efficiency of the shoe plate seal.

The CTS30 uses compression plates to generate the sealing pressure against the tank shell, backed up by a stainless steel leaf spring. Between the seal plates and the backup springs a vapor barrier made of PTFE ensures the vapor tightness of the seal. The basic design will be

tailored to each specific tank. This combination of innovative technology and consideration for specific tank geometry makes our compression shoe sealing system the best available technology for emission reduction on external floating roof tanks.

Solutions

- Optimal emission reduction
- Liquid mounted gas tight seal type for maximum emission reduction
- Long service life (expected more than 30 years)
- Best available emission control technology per EPA and IPPC BREF
- Seals can be supplied per API RP 545

Highlights

- Fire safe and maintenance free seal design
- Custom designed and manufactured for each specific tank and product service
- Maximum service life (more than 30 years)
- Fire safe and maintenance free seal design
- Optimal operability in all hydrocarbons and chemicals, including 100% aromatics
- Available in many stainless steel grades
- Only fire retardant sealing materials are used
- Wax scraper designs available

CTS30

Engineering

During the engineering phase our team of engineers will review local emission requirements, safety aspects and tank geometry to tailor the seal to each specific tank, this seal can be designed for large rim gap variations. All other important properties, such as material selection are taken into consideration for optimal performance of the seal. Proper material selection ensures a long term maintenance free service life. Seal materials have to withstand the stored product as well as the elements for longer periods of time. CTS will provide an optimum sealing solution that is suitable for dealing with these specific conditions.

Completely in line with our sustainability vision all emission requirements will play a major role in the decisions we make during design.

Materials

The CTS sealing solution is complete from engineering to commissioning. We will provide a turn key solution, experienced supervision or supply drawings, installation manual and installation advice that offer the opportunity for local crews to install the seal as well without compromising safety, durability or performance.

Our seals offer the following solutions:

- Liquid mounted gas tight seal type for maximum emission reduction
- Best available emission control technology per EPA and IPPC BREF
- Maximum operability in all common hydrocarbons and chemicals, including 100% aromatics
- Available in stainless steel grades and galvanized steel
- Wax scraper for heavy or waxy products available (CTS 30W)

- As a standard only fire retardant sealing materials are used
- Options include pantograph design and solutions for the requirements per API RP 545

Complete solution

The CTS sealing solution is complete from engineering to commissioning. We will provide a turn key solution, experienced supervision or supply drawings, installation manual and installation advice that offer the opportunity for local crews to install the seal as well without compromising safety, durability or performance.

Support and assistance

If this datasheet triggers more questions our team of experts will be always available to support and assist you in selecting the optimal solution for your specific application.



CTS30 primary seal on steel floating roof.



CTS30 seal during installation, top view.

All our product information and specifications are drafted with care but can be subject to change. We reserve the right to change product specifications.

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