CTS40
DOUBLE COMPRESSION PLATE SEAL

The first barrier against emission in the rim area of an external floating roof is the primary rim seal. It also serves as 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 galvanized steel.

The CTS40 is a double rim mounted compression plate tank seal (primary and secondary seal). Its design is based on compression plates pushing a rubber tip against the tank shell. Behind the compression plates, fully shielded from weather exposure, a vapor barrier fabric ensures the vapor tightness of the seal.

Our CTS40 seal is available in many different configurations. The tip configuration as well as the seal design can be changed depending on the service requirements and actual tank conditions.

Solutions

- Excellent vapor tightness, resulting in emission reductions in excess of 99%
- Eliminating the risk of rim fires
- Eliminates virtually all rain water ingress to the stored product
- Available in different material combinations, including stainless steel and galvanized steel
- Maximum service life (more than 30 years)
- Designed for each specific tank
- The optional drip skirt makes the seal liquid mounted
- Maintenance free

Highlights

- Custom designed and manufactured for each specific tank and product service
- Short installation time with experienced supervisor or full crews
- Durable with low total cost of ownership
- Turn key solution: engineering, supply and installation available
- Compliant with all international (environmental) standards such as API, EN, NFPA, ATEX, BREF IPPC and EPA and specific requirements such as EEMUA, PGS 29 and VLAREM
- Suitable for both vertical and horizontal roof rim angles, no rim modifications required
- Can be used with both welded and riveted tank shells
- Compatible with all stored products, up to 50% aromatics
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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.

Seal Materials
Not just the design of the seal is important for its performance. Correct material selection is very important to ensure a long term adequate performance for any seal. Seal materials have to withstand the stored product, ozone, UV-exposure and rain water contact. CTS is able to give you a reliable advise on the optimal combination of materials. This ensures an economic seal design that is able to deal with the specific conditions.

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.

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