CARGO TRANSFER SYSTEMS B.V.

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CTS40 COMPRESSION PLATE SEAL

The CTS40 is a rim mounted secondary seal that has developed itself into a leading design for secondary tank seals. Its design is based on compression plates pushing a rubber tip against the tank shell. As the seal design has no complex moving parts it will not encounter problems as a result of corrosion or any other hazards affecting seal performance through time. Each CTS40 seal will be specifically engineered and manufactured to fit the tank involved, making sure the seal will be able to deal with both the stored product as well as with the particular dimensional and design aspects of this tank. Behind the compression plates, fully shielded from weather exposure, is a continuous vapour barrier ensuring excellent vapour tightness.

CTS40 Product Features:

- excellent vapour tightness, resulting in maximum emission reductions and eliminating the risk of rim fires
- compatible with all stored products, including 100% aromatics
- eliminating virtually all rain water ingress to the stored product
- available in different material combinations, including galvanized steel and stainless steel
- fitting both vertical and horizontal roof rims, not requiring rim modifications
- expected service life in excess of 30 years
- designed for each specific tank
- maintenance free
- easy and quick installation
- full installation manuals and project support available from CTS
- complies with EPA and API standards
- successfully used by many major oil and tank storage companies
- can be used with both welded and riveted tank shells
- can be fitted as primary seal only (CTS20P), secondary seal only (CTS20S) or as a combination of primary and secondary seal (CTS40)

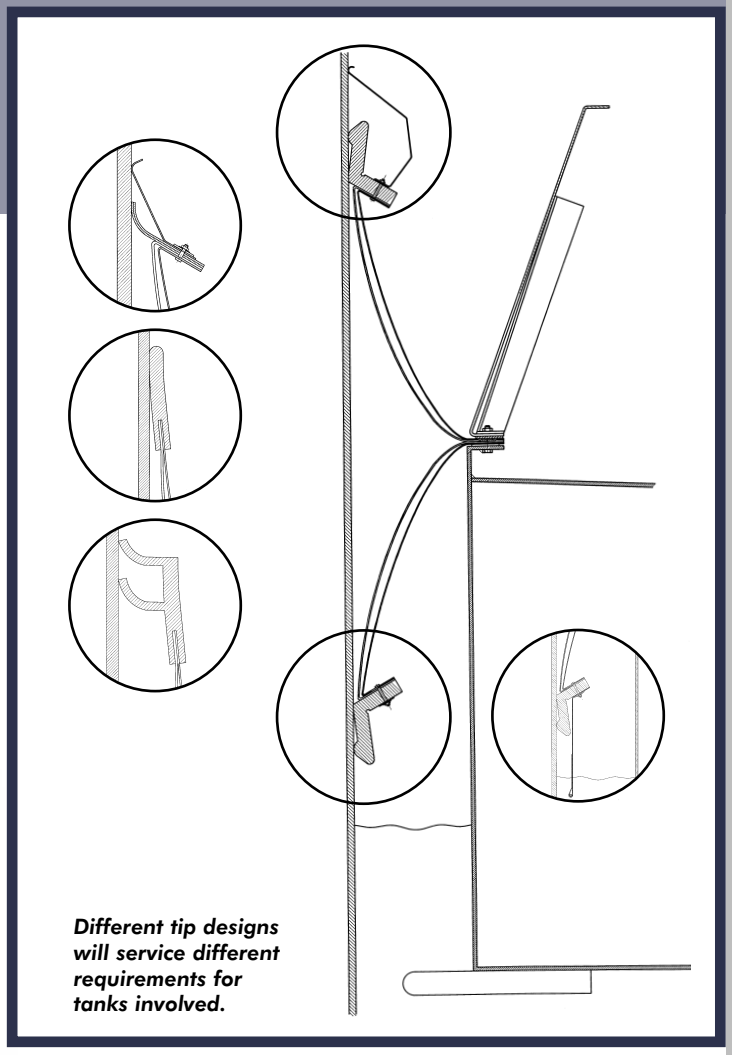
TANK SEALS

Design and engineering:

A CTS40 seal is available in many different configurations. The tip design as well as the basic seal design are subject to change depending on the service requirements and actual tank conditions. Normally a CTS40 seal is designed for a nominal rim gap of 200mm (8") but rim gaps of 400mm (16") can be bridged if required.
CTS designs each individual seal for the tank it will be fitted on. We consider the rim gap, product properties, tank specifications and many other design aspects in this process. This eliminates the problems that arise when a standard seal is fitted. Our special tank inspection sheet will facilitate this engineering process. Delivery will include an as-built drawing for the seal.

Installation:

CTS is capable to install any tank seal on any of your tanks, but our detailed drawings and installation manuals will give you the choice to have either your own staff or contractor staff installing the seal as well. The advantages of having your own (contractor) staff installing the system could be significant, reducing travelling and lodging costs. Experienced CTS supervision will be available upon request.



CTS40 double compression plate seal, typical drawing.

Bottom view of the primary part of a CTS40 double compression plate seal after installation, this particular seal was executed with a double flipping tip to bridge a nominal rim gap of 350mm (14")!

Materials, selection:

Not just the design of the seal is important for its performance. Correct material selection might even be more important to ensure a long term adequate performance of any seal. CTS is able to give you a detailed advise on the optimal combination of materials, resulting in an economic seal design that can deal with even the harshest conditions. Seals can be manufactured in a wide variety of materials and designs, including different grades of stainless steel and polymer materials, making it suitable for service with 100% aromatics or aggressive chemicals if required.

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