



CTS20 SECONDARY COMPRESSION PLATE SEAL

The CTS20 is a rim mounted secondary seal which has developed into the leading design for secondary tank seals. Its design is compression plates pushing a rubber tip against the tank shell. As this 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 CTS20 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.

CTS20 Product Features:

- excellent vapour tightness, resulting in maximum emission reductions and eliminating the risk of rim fires
- eliminating virtually all rain water ingress to the stored product
- compatible with all stored products, including 100% aromatics
- available in different material combinations, including galvanised steel and stainless steel
- fitting both vertical and horizontal roof rims, requiring no rim modifications
- expected service life in excess of 30 years
- designed for each specific tank
- maintenance free
- quick and easy installation
- full installation manuals and project support available
- can be installed while the tank remains in service
- complies with EPA standards
- successfully used by many major oil and tank storage companies
- can be used with both welded and rivetted tank shells
- can be fitted as primary seal only (CTS20P), secondary seal only (CTS20S) or as a combination of primary and secondary seal (CTS40)



Design and engineering:

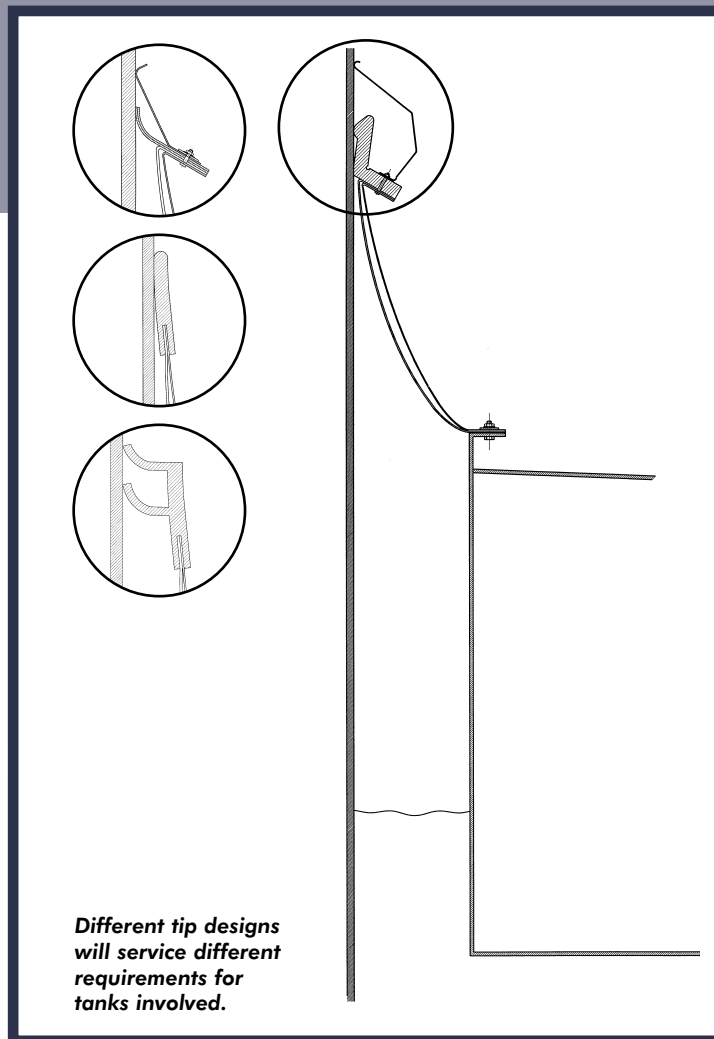
A CTS20 seal is available in many different configurations. Tip design as well as general seal design are subject to change depending on the service requirements and actual tank conditions. A CTS20 seal is designed for a nominal rim gap of 200 mm. (8") but rim gaps of 400mm (16") can be bridged if required. 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. The CTS20 secondary seal can be combined with any existing primary seal, fitting both horizontal and vertical rim angles. The seal can be installed while the tank is in service.

Installation:

CTS is capable to install any tank seal on any tank, 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 is available upon request.



CTS20 secondary compression plate seal after installation, this particular seal is executed in SS316 with an extruded tip profile in a high aromatic content resistant rubber compound.



CTS20 secondary compression plate seal, typical drawing.

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 can give you a detailed advise on the optimal combination of materials, resulting in an economic seal design that is able to deal with 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 when required.



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