DRAIN PIPE SYSTEM
FOR EXTERNAL FLOATING ROOF TANKS

Especially in climates with high rainfall water can accumulate on the external floating roof. Adequate draining of this rain water is a very important aspect of safe and reliable operation of storage tanks with external floating roofs.

Drain water on external floating roofs may contain sediments and debris, which causes the drains to malfunction. Also the placement of the drains inside the stored product makes the drain design challenging. The CTS drain solutions take these important aspects into consideration. Our drain solutions include the drain master system, swivel joint system, drain hose and flextube system.

Safety and certifications
Although Swivel drain systems are rainwater drains experiencing low pressures when in use, the integrity of the assembly is checked by testing to 10 bar with water. All test and material certificates are supplied as a standard.

Swivel drain system
Tank drain systems can only be replaced when the tank is out of service, therefore the consequence of a malfunctioning tank drain is significant. To ensure long service life CTS has developed a tank drain pipe solution with high quality swivels. The CTS drain pipe system is a complete system, including the connections, swivels and the piping required. Our swivels will guarantee a long-term adequate performance of the drain system.

Solutions
- Swivels can be supplied in 3", 4" 6", 8", 10" and 12"
- Flange dimensions and materials per all international standards
- High quality U-shape swivels friction free design
- Swivel design for submerged service in aggressive environments
- Continuous slope, no trapping of liquids
- Fast and easy installation
- Service life in well in excess of 20 years

Highlights
- Suitable for 100% aromatics.
- No interference with objects in the tank or roof legs
- No sediment built up as the drain line arrangement has a continuous slope
- No tank modifications required
- Suitable for use as foam delivery system
- Maintenance free
DRAIN PIPE SWIVELS

**Construction**

- Pipes and flanges: SS, CS or aluminium
- Swivels: SS316Ti (1.4571), CS or aluminium
- Swivel seals: PTFE medium sealing with scraper

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**PRODUCT DATA**

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<thead>
<tr>
<th>Bore size</th>
<th>Size A</th>
<th>Size B</th>
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</table>

Dimensions will change when using other materials and connections.
Flange connections: Generally steel ASA150 lbs R/F flanges are supplied. Other flanged drillings and material types are available.

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**CTS Drain pipe system for External Floating Roof Tanks**

The CTS Drain pipe systems are fully customer designed for each specific tank. CTS is able to measure the system on site in existing tanks or determine the system based on drawings.

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