

## VAPOUR BLADDER

*In storage terminals reducing the emission of volatile organic carbons is both economically as well as for preserving our environment of tremendous importance. Because the bladder will eliminate peak loads, fitting a vapour bladder in your vapour recovery system will enable you to install smaller vapour recovery systems. It will ensure an uniform vapour pressure within your vapour recovery unit (VRU) 24 hours a day. Any VRU in your tank farm will benefit from the CTS' designed and manufactured bladders, as they are detailed to last and virtually eliminate any future maintenance.*

### Vapour Bladder Features:

- maintenance free
- excellent vapour tightness
- dynamically stable within the holding tank
- designed and manufactured for each specific project
- pressure tested prior to shipment and installation
- witness testing is possible
- materials are extensively tested for its service
- fabrics available compatible with all stored products, including high aromatic fuel vapour storage and MTBE fractions
- light weight structure, excellently detailed
- easy installation, full installation manuals and project support available
- successfully used globally by many major oil and tank storage companies

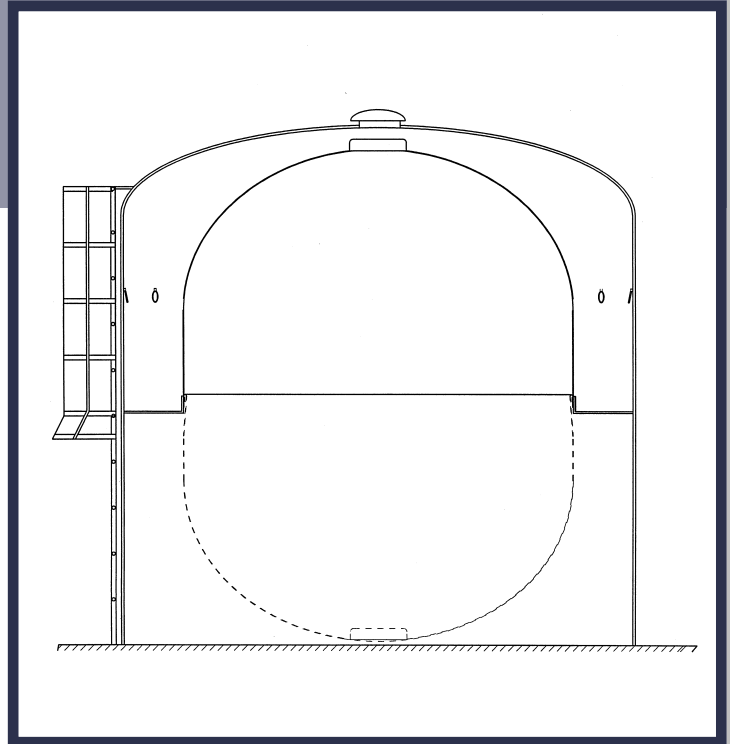
# VAPOUR BLADDER

## Typical configurations:

The most common type of the vapour bladder is the hemispherical configuration. This is the configuration shown in the pictures and drawings of this datasheet. It is also possible to supply a bladder in a ring type truncated cone however.

## Recent developments:

In recent years the awareness around emissions of volatile organic carbons (VOC's) has significantly increased. Apart from this the introduction of MTBE to replace lead as a fuel additive has introduced several complications. As a result of these developments many emission standards have become more stringent. At the same time the vapour pressure of stored products has increased, leading to higher emissions. To deal with these more stringent and demanding conditions many terminals rely on the use of vapour recovery units (VRU). Rather than just increasing the capacity of a VRU the use of a vapour bladder in an existing VRU will reduce peak loads and offer significant benefits with respect to overall operating costs of a VRU. This as a bigger VRU requires hardware with a bigger capacity as well as greater power consumption for operation.



## Tank inspection:

Maintenance of atmospheric storage tanks often requires a dedicated approach, especially when systems as dome roofs, tank seals, internal floating roofs or drain systems are involved. The CTS staff responsible has an extensive record in conducting tank inspections prior to recommending or engineering these products. We will either be conducting tank inspections our selves or we will facilitate a third party inspection with our detailed inspection sheets. At an inspection we will be concentrating on analyzing all tank data influencing product design. Our inspection focuses on aspects like the stored product, existing systems, site access, local requirements, dimensional reports and every other relevant aspect. Our extensive experience and profound knowledge of relevant codes as API 650, EPA and EEMUA will ensure a sound approach on the basis of this important and extensive tank inspection.



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