

PROTEGO® Floating Roof Drainage Systems

**PROTEGO® SOLUTIONS
WILL PROVIDE MANY YEARS
OF TROUBLE FREE TANK
OPERATION.**

TECHNICAL BACKGROUND

The PROTEGO® SE/K floating roof drainage systems are used to drain rainwater from the floating roofs of storage tanks.

The tank diameter and the maximum precipitation per hour determine the nominal size of the system.

The maximum height of the floating roof determines the necessary buckle length.

The choice of material is agreed upon with the customer.

The construction of the floating roof drainage PROTEGO® SE/K has unique technical features compared to all other systems, which ensure a high longevity during operation. The requirement of permanent system sealing is solved by decoupling the force-absorbing components from the flexible components. Endurance tests on the flexible components have proven their longevity in practice.

During the operation of a floating roof drainage, forces that are difficult to determine often occur due to the normal movements of the floating roof but also from unavoidable extreme operating conditions. These forces are absorbed in the media-carrying components and especially in the jointed components of the floating roof drainage. The essential components of the floating roof drainage system PROTEGO® SE/K are subjected to FEM analysis to prove their durability and ensure safe and long-lasting operation of the system.

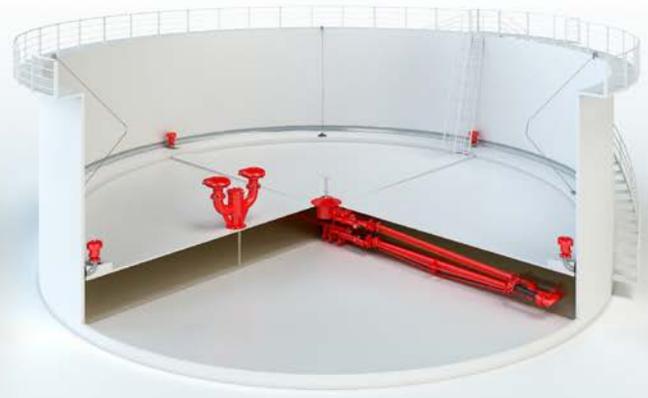
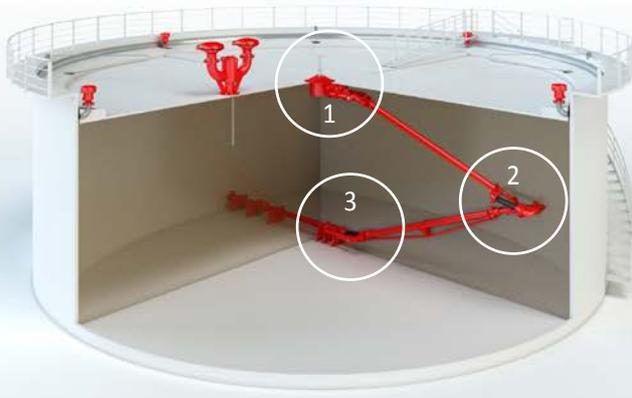


REASONS IN FAVOR OF PROTEGO® FLOATING ROOF DRAINAGE SYSTEM:

- Engineered Product related to the tank design
- Tight flange connection due to groove-tongue flanges
- The flexible element – stainless steel hoses – are mounted stress free and are not impacted by forces and moments created by vertical and/or lateral floating roof movements.
- Shackle bolted joints are able to bear forces from the roof movement. They can also balance lateral movement and are self-adjusting to the roof's inclination.
- Very easy to assemble and align in the tank due to the geometry of system
- The system is self-draining
- Support at site during project phase and installation.
- Support in sizing the required drainage capacity as per API 650 with the „PROTEGO® Sizing-Tool“.

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SE/K OVERVIEW



1 – D/SR-W



Upper scissor pipe with roof joint and roof drain valve PROTEGO® D/SR-W (available as an option)

2 – SE/K



Intermediate joint

3 – SE/K



Lower scissor pipe with bottom joint

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