

## TT CLUB INNOVATION IN SAFETY AWARD WINNER SPOTLIGHT





# VIKING Life-Saving Equipment A/S HydroPen System



TT Club Innovation in Safety Awards ...celebrating safety innovation in the global freight supply chain..

### TT CLUB INNOVATION IN SAFETY AWARD WINNER 2021



#### **VIKING - HydroPen System**

Fires on container vessels are a serious threat across the industry; tragically claiming seafarer lives as well as severely damaging maritime assets and the environment. The size and complexity of vessels and potential fires on board has increased the challenges to crew trying to extinguish or supress fires safely and effectively; especially with fires inside containers, high up in the stack.

The HydroPen System is a unique piece of equipment that allows the crew to address fires inside containers easily and safely.



The HydroPen System is connected to the vessel's fire main through standard fire hoses. It is deployed directly to the burning container by the crew who then depart, minimising time in the fire zone. There is no need to attempt to penetrate the container with manual tools and fix spray nozzles inside the burning container.

As soon as water flow is activated from a safer position, HydroPen begins drilling through the container structure. When penetrated (in 10 – 30 seconds depending on water pressure), the HydroPen automatically changes mode to spraying water inside the container, extinguishing the fire directly at the source.

The system comes with a telescopic lift and can be deployed up to a height of 12,5 meters. It can be handled by a single crew member with a minimum of training. It also allows for foam and CO2 to be used as extinguishing agents.

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Available with a training drill bit, crew can learn and get familiar with the full deployment process without damaging the containers used for training.

Successfully trailed at different locations on vessels, the HydroPen System has obtained a Type Approval from Bureau Veritas (certificate No. 62110/A1 BV), based on SOLAS chapter II-2, regulation 10.7.3.

Online training is available to support correct usage of the product, which can be undertaken on-board.

Over 500 systems have been delivered, to vessels ranging from ULCV's to feeders. It has already been deployed on two separate live fire incidents on board container vessels. For example, in one case, the crew discovered a developing fire in a container whilst in transit. The crew initiated boundary cooling. The HydroPen System was deployed to quickly and efficiently extinguish the fire, with the crew being exposed to a minimum of danger. Feedback from crews involved in both incidents noted that the HydroPen is simple to use; fast to mount, drill and penetrate the container (can be completed in under 30 seconds, if all is lined up), safer to use as no people needed to be near the container while drilling. The only power source needed is water from the fire hydrant.

Besides already being implemented in the response setup on board several hundreds of container vessels, a range of land-based fire-fighting stations within close proximity of maritime hubs, have adopted the solution to tackle container fires.

See the HydroPen System in action on the HydroPen YouTube channel:

<u>www.youtube.com/channel/UCUXGBw9B48fCt3PgS9R</u> <u>CtTw/videos</u>





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