

### Tank Filters

Tank Vent Odour filters - Protects the environment

#### TURNKEY SOLUTIONS

There are many variables to take into account when fitting a filter system and our highly skilled engineers will adapt our system to fit your exact requirements.

#### TECHNICAL SUPPORT

We are with you all the way. Before, during and after the implementation to secure a flawless integration and operation.

#### ZERO DOWNTIME

As a physical part of your terminal operation; mechanical stability, toughness and durability is an important aspect of the manufacturing and design philosophy.

For more information on these or other of our products or services please visit us on the Web at:

[www.cbi.dk](http://www.cbi.dk)

## Tank Vent Systems Odour Filters for Storage Tanks Remove odour and avoid claims from neighbours



### Customized Design

#### For Oil Terminals and Marine Applications

Go4 has a full range Tank Fittings, Tank Vents with Odour Filters and Accessories for Storage Tanks that meet EU Directives, local legislation and customer specific requirements.

Years of know-how and field experience have positioned the products as some of the best choices for Environmental Protection of Process- and Storage Tanks.

This includes custom designed Tank Vent systems with a Carbon Odour Filter that eliminates odour problems from Storage Tanks for Oil and Oil products, thereby avoiding complaints and claims from neighbours, particularly in residential areas.

The dimensions and physical size of the filter depends on the tank size, surface area and maximum pump rate for each tank.

The tank's pumping rates are important factors for the correct design of the filter surface in order to remain within the maximum allowable pressure/vacuum during the operation.

Breather valves are installed parallel to the adsorption filter with settings complying to the maximum allowable pressure and vacuum of each tank to avoid break down and mechanical damage.

In case of overfilling of tanks, mechanical damage or blockage by dirt in the Adsorption Filter, the breather valves will ensure continued operation and the tank ventilation will continue to function in accordance with the specifications for each individual application.

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#### SERVICES AVAILABLE

Consulting Services  
Technical Support  
Installation and Setup  
Maintenance  
Warranty

## Safety Options for Tank Vent Filters

Depending on environmental legislative requirements or if the hydrocarbon concentration is higher than 50 gram/m<sup>3</sup>, one or more of the below safety options may be required.

### Option 1 – Forced Ventilation

Forced Ventilation is recommended for Tanks with high evaporation ie. light products or products with a low flash point. The option can be made with a backup system (redundant).

### Option 2 – Automatic Shut-off valve

The Shut-off valve is triggered by either Carbon Monoxide (CO) or temperature and can be installed between the filter and the tank to ensure that a rise in temperature in the filter (hot spot) will be isolated from the tank at a set-point well below the flash point of the tank content.



### Option 3 – Water Mist System

A Water Mist System can be inserted in the filter to drench the Active Carbon; preventing or extinguishing a fire inside the filter, which could be caused by hot-spots.

### Option 4 – Flame Arrestor

A flame arrestor can be inserted between the filter and the tank to prevent vapours from igniting inside the filter.

A flame arrestor do not function as a fire protection by itself, and it is therefore recommended that other measures are taken to ensure that an ignition (hot spot) is extinguished either by a built-in fire protection system as per above or by an on-site emergency response team.

### Option 5 – PLC Automated Control Cabinet

Enables various alarm settings and reaction patterns in combination with one or more of the above options.

Other options for specific applications are available.



*Standard Tank Vent Odour Filter in a selfcontained version, with a breather valve (pressure/vacuum) regulation, for smaller tanks.*

*Easy to install and maintain.*

# Go4

INTELLIGENT BUNKERING SOLUTIONS

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