



FOAM MAKER HIGH BACK-PRESSURE FOAM CHAMBER

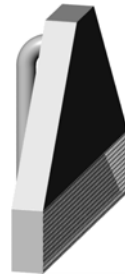
There are three major types of tanks commonly used for the storage of combustible or flammable liquids.

- Cone roof tank.
- Open top floating roof tank.
- Internal floating roof tank or covered floating roof.

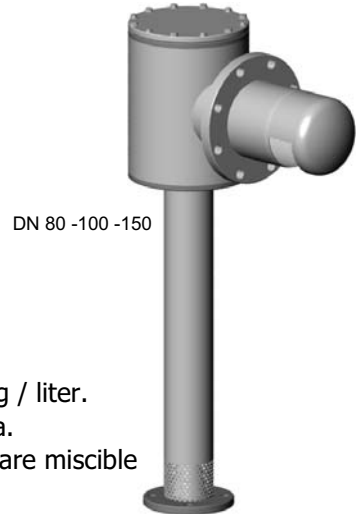
The fixed or semi-fixed system from POK is a type II discharge device. The foam maker is used to aspirate foam concentrate before being discharged inside a dike area or when used with external floating roof tanks to supply foam to the rim seal area. The discharge pipe downstream of the foam maker is sized to slow the velocity of the expanded foam and shaped to deflect the foam against the inside of the dike wall or onto a splash board, or the tank shell wall when used for floating roof seal protection. POK offers four styles ranging from 26 to 105 GPM / 100 to 400 l/min. The expansion rate is in direct relation to the foam quality. A good foam quality is obtained with a pressure of 100 PSI / 7 bar where a ratio of 8 can be obtained.

To ensure maximum protection for the rim seal of the tank, we recommend that a splash board be mounted above the top of the floating roof. The correct discharge size pipe will then provide a better foam quality in a circular form around the rim seal. It is also recommended that a detection system be installed to ensure automatic operation of the foam systems.

Description	Code
DN 50 - Inlet female G 2 H	20441
DN 80 - Inlet flange 3" ASA 150	13550
DN 100 - Inlet flange 4" ASA 150	15221
DN 150 - Inlet flange 6" ASA 150	15246



DN 50



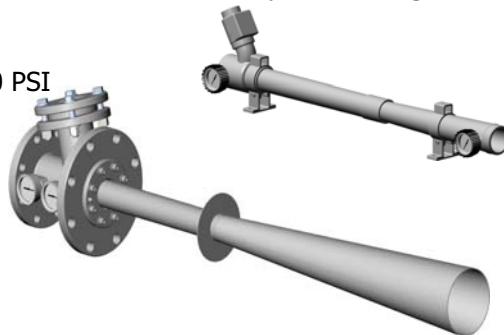
DN 80 -100 -150

For the protection of hydrocarbon tank

Capable of producing expanded foam with an expansion ratio up to 4 with a density 0.2 kg / liter. The foam maker is usually installed in a dedicated fire protection line outside the dike area. This method is not suitable on tanks containing alcohols or polar solvent type liquids that are miscible in water.

In accordance with NFPA 11 subsurface injection is not recommended for any tank having a floating roof.

Recommended inlet pressure 7 to 16 bar / 100 to 230 PSI
Flow 2200 l/min @ 7 bar / 581 GPM @ 100 PSI.



Description	Code
Foam Maker	13188

Typical Installation

