TankFoam RTK

Foam maker – Foam chamber – Foam pourer

Cool down.
Fire Protection by

MINIMAX

► Product ► Application + Advantages

► MX TankFoam RTK is a kit consisting of the following co-ordinated components: foam pipe, foam chamber and foam pourer. This system kit produces low expansion foam and is specially designed as fire protection for flammable liquids in fixed roof tanks (including those with floating cover or overlay of nitrogen).

► In case of fire, TankFoam RTK dispenses the low expansion foam from above onto the burning surface of the liquid. The extinguishing foam is dispersed from the inner wall of the tank. The foam smothers the flames preventing further reignition.

► All common foaming agent concentrates can be used. Special designs with particular materials can also be supplied.

► The foam chamber rupture disc corresponds to EN 13565-1 and enables gas-tight connection of the extinguishing system to the tank.

► The rupture disc is secured with a highly durable 2-part adhesive. A rupture disc seal with higher chemical resistance can be delivered on request.

► The distance between the foam maker and the foam chamber can be up to 3 m vertically or 20 m horizontally.

► The special design of the foam maker facilitates use of the low expansion foam over greater heights.

► Standard kit designs are hot-galvanised or galvanised with Minimax red coating. Stainless steel can be supplied on request.

► Flanges are supplied in accordance with DIN and ANSI standards.

+ Design in accordance with EN 13565-1.

+ Short maintenance times through very easy access to rupture disc in the foam chamber.

+ Modular structure allows components to be arranged freely.

+ Can be supplied in various materials and with various surfaces, meaning that it can be used with all media and in all environmental conditions.

+ The rupture disc does not need to be dismantled for function tests. No danger of water or foam leaking into the tank.

+ Series with large flow rate range.

+ The flange size allows components to be combined without error.

+ Grids on openings prevent blockages caused by animals, e.g. bird's nests.

Function

► The TankFoam RTK components are aligned with each other. Cross sections become larger in the direction of flow, helping to improve the foam quality after it is produced in the foam maker.

► The pressurised foam/water jet suctions through the foam maker apertures, causing low expansion foam to be produced through the strong swirling action.

► The foam is homogenised in the piping to the foam chamber and undergoes a further qualitative improvement when it is spun in the foam chamber. The foam pressure causes the rupture disc to burst, thus releasing the foam into the tank.

► The foam pourer directs the foam spray to the inner wall of the tank. The foam flowing down the wall extends out from one point over the burning surface of the liquid.

► The rupture disc in the foam chamber prevents the flammable gas from leaving the tank. No explosive gas is present in the foam system piping.

► Safe functioning of the foam discharge devices is guaranteed by observing the narrow threshold values of EN 13565-1.
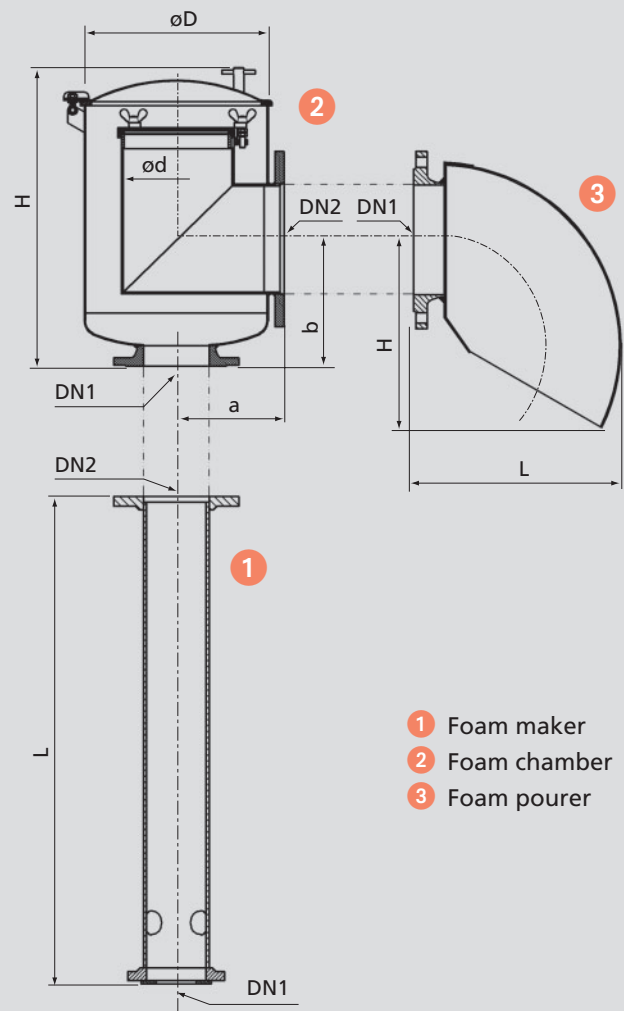
1 Foam maker
2 Foam chamber
3 Foam pourer

Technical data

TankFoam RTK Kits

	Individual components			
	❶ Foam maker	❷ Foam chamber	❸ Foam pourer	Q [l/min] at 5 bar
TankFoam RTK 200	MX-L2st	MX-STO4s	MX-SK 125	200
TankFoam RTK 400	MX-L4st	MX-STO4s	MX-SK 125	400
TankFoam RTK 800	MX-L8st	MX-STO8s	MX-SK 150	800
TankFoam RTK 1200	MX-L12st	MX-STO16s	MX-SK 250	1200
TankFoam RTK 1600	MX-L16st	MX-STO16s	MX-SK 250	1600
TankFoam RTK 2000	MX-L20st	MX-STO32s	MX-SK 300	2000
TankFoam RTK 2400	MX-L24st	MX-STO32s	MX-SK 300	2400
TankFoam RTK 3200	MX-L32st	MX-STO32s	MX-SK 300	3200

Individual components	Type	D1	D2	L DIN / ANSI	H	a	b
❶ Foam maker	MX-L2st	50	80	705			
	MX-L4st	50	80	705			
	MX-L8st	80	100	1005 / 1027			
	MX-L12st	100	150	1103			
	MX-L16st	100	150	1103			
	MX-L20st	100	200	1103			
	MX-L24st	125	200	1103			
	MX-L32st	125	200	1103			
❷ Foam chamber	MX-STO4s	80	125		500	200	215
	MX-STO8s	100	150		570	200	215
	MX-STO16s	150	250		680	300	290
	MX-STO32s	200	300		710	300	335
❸ Foam pourer	MX-SK 125	125		265 / 299	231		
	MX-SK 150	150		350 / 384	231		
	MX-SK 250	250		473 / 507	426		
	MX-SK 300	300		473 / 519	426		

Flange connections accord. to DIN 2501 PN10 or ANSI B16,5 class 150

Surfaces: hot-galvanised DIN EN ISO 1461-tZn o or hot-galvanised + red Minimax similar to RAL 3000

Subject to technical modification.

VdS
★ No. S 89201
Certified according to
ISO 9001