

InnoVfoam B.V.

Tank Foam Generator



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TANK FOAM GENERATOR IN COMBINATION WITH FOAM POURER

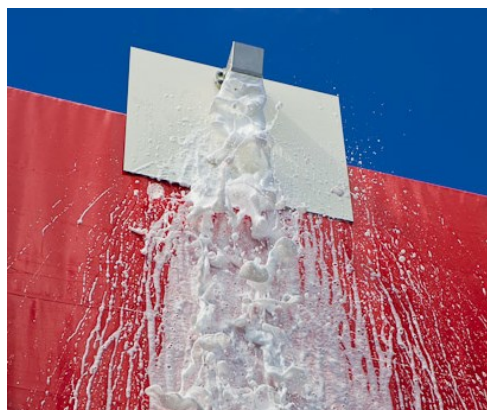
The InnoVfoam Tank Foam Generator (ITFG) with an integrated foam chamber and (separate) Foam Pourer (FP) is developed for extinguishing storage tank fires. In order to generate low expansion foam and spread it over the flammable liquid surface the device is provided with an integrated air foam generator. For ease of installation the flanged outlet usually is connected to a flanged nozzle which is welded into the tank-shell close to the tank top.



The flanged FP must be installed to this nozzle at the inside of the tank (type I) or directed through the flange (type II) in order to apply foam gently onto the liquid surface. To prevent the release of gasses out of the tank, a removable Gas-Stop is provided at the inlet-side of the foam chamber. For testing purposes a dedicated test-outlet with removable cover and inside test-cover is provided within the device.

The combination of the ITFG with FP can be used both for tanks with fixed and/or floating roof. To design numbers and capacities of the ITFG/FP for a specific tank, please refer to National Fire Protection Association: National Fire Codes NFPA 11, and/or local regulations.

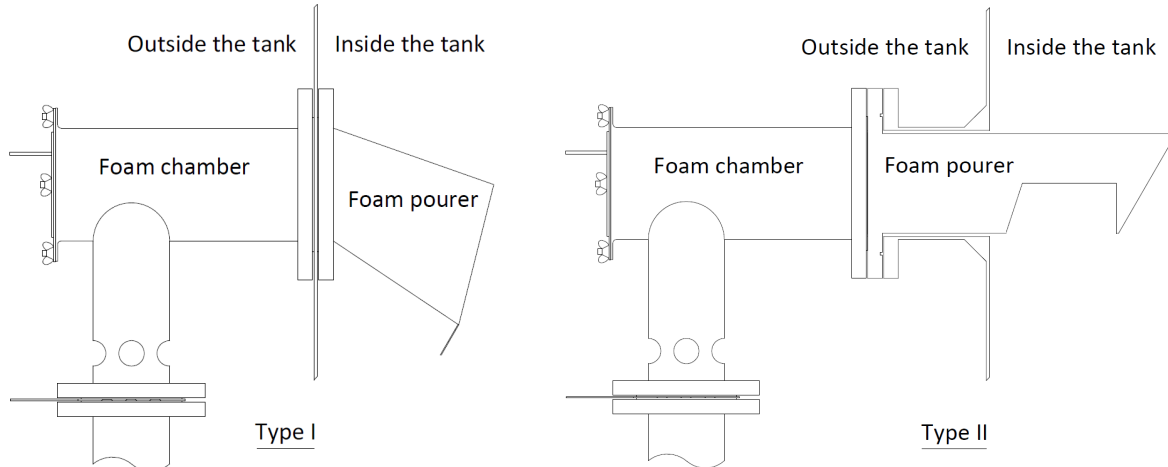
When ordering the ITFG/FP please select the required k-value from the flow tables on page 5 and 6 to meet the design requirements of the system.



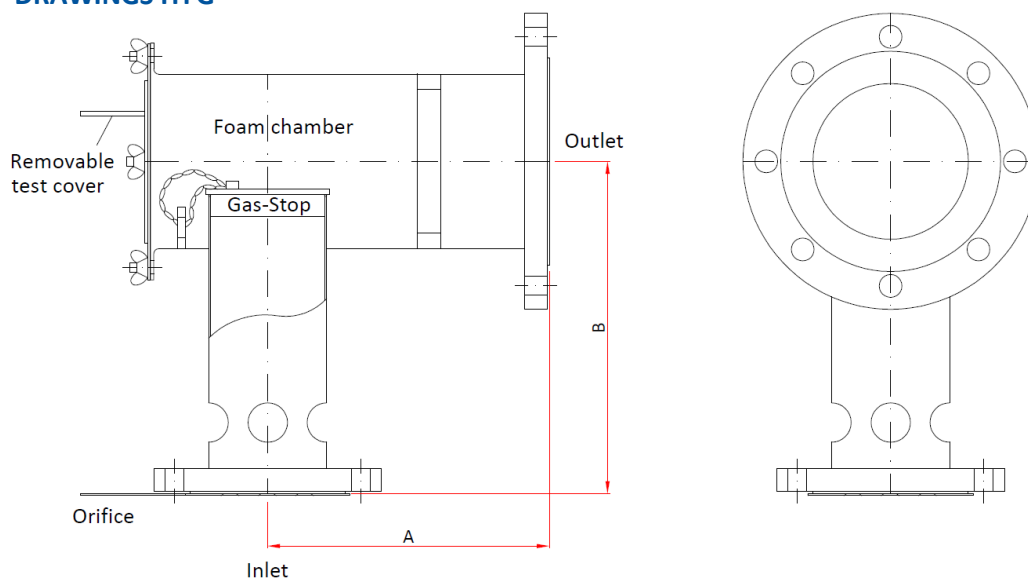
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DRAWINGS ITFG WITH FP



DRAWINGS ITFG



MODEL	CAPACITY [L/min]	INLET CONN.	OUTLET CONN.	A [mm]	B [mm]	WEIGHT [kg]~
ITFG-700	up to 700	2" or DN50/PN16	4" or DN100/PN16	210	220	10
ITFG-3000	up to 3.000	4" or DN100/PN16	6" or DN150/PN16	275	320	20

DIMENSIONS

1. Expansion ratio 2 - 5 depending on concentrate type, pressure and flow.
2. Working pressure 3 - 10 bar.
3. Please specify desired k-value, flow and connection ANSI or DIN when ordering.

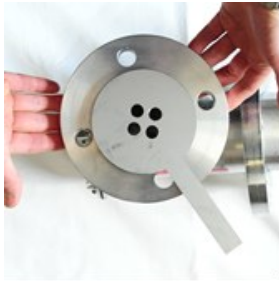
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MATERIALS

Body : AISI 316
Internals : AISI 316
Orifice (standard) : AISI 316
Orifice (optional) : Brass
Gasket (standard) : Viton (FPM)*

* Please specify containing fluids when ordering



During installing of the ITFG the orifice, which must be placed at the inlet of the ITFG, is calibrated to the right flow.



Testing of the ITFG can begin when the test cover is mounted inside of the ITFG.

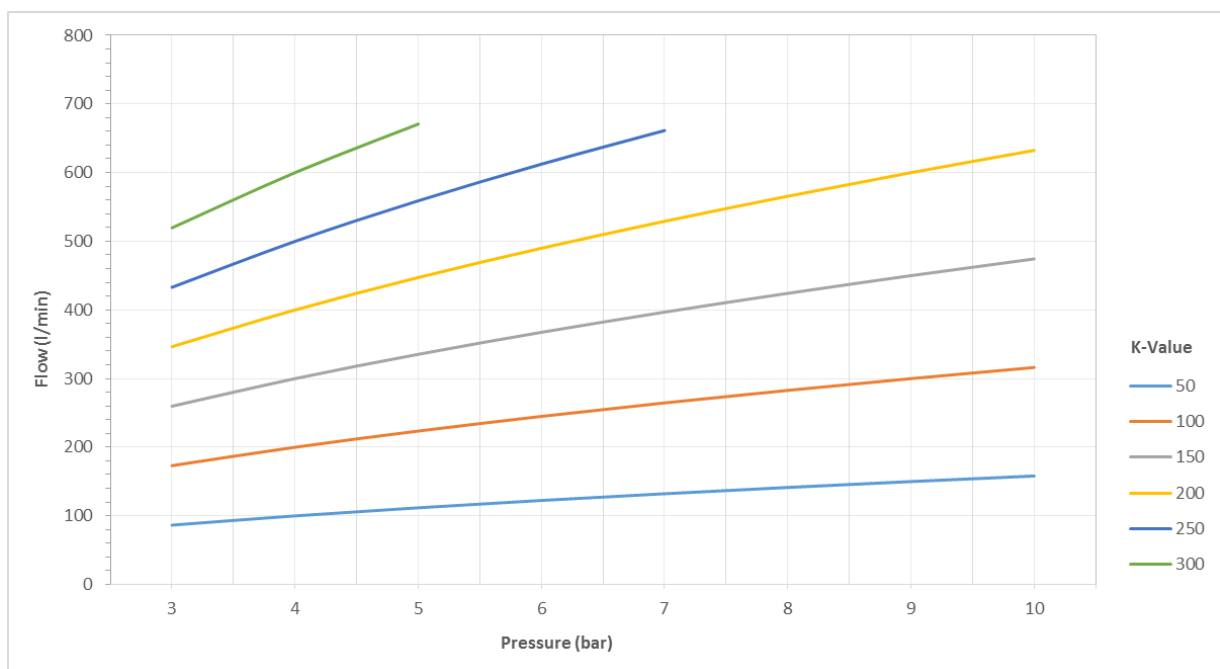
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FLOW TABLE ITFG 700 (L/MIN)

Pressure (bar)	K-Value					
	50	100	150	200	250	300
3	87	173	260	346	433	520
4	100	200	300	400	500	600
5	112	224	335	447	559	671
6	122	245	367	490	612	
7	132	265	397	529	661	
8	141	283	424	566		
9	150	300	450	600		
10	158	316	474	632		

FLOW DIAGRAM ITFG 700



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FLOW TABLE ITFG 3.000 (L/MIN)

Pressure (bar)	K-Value				
	500	700	900	1100	1300
3	866	1.212	1.559	1.905	2.252
4	1.000	1.400	1.800	2.200	2.600
5	1.118	1.565	2.012	2.460	2.907
6	1.225	1.715	2.205	2.694	
7	1.323	1.852	2.381	2.910	
8	1.414	1.980	2.546		
9	1.500	2.100	2.700		
10	1.581	2.214	2.846		

FLOW DIAGRAM ITFG 3.000

