Bladder Tank Proportioner - Mk2

TP

(replaces datasheets 1010/21 and 22)

General description

Skum TP proportioners guarantee accurate foam proportioning over a wide range of flow and pressure conditions; manufactured in bronze, they are maintenance-free and used in a wide range of industrial and marine environments.

Application description

The TP proportioner is used in conjunction with bladder tanks to supply accurate foam delivery to fire monitors and deluge systems. The TP is used in combination with the Skum bladder tank, MTB.

Product features

- Designed to meet the requirements of EN 13565-1 and NFPA 16 Ch 4
- Designed for foam mixing up to 3%
- Accurate proportioning over the range
- Maintenance free construction
- Bronze, corrosion resistant construction

Installation

- Water: Wafer mounted between flanges, see table
- Foam: Flanged to fit DIN PN16 or ANSI 150 lbs or screw-threaded BSP, see table

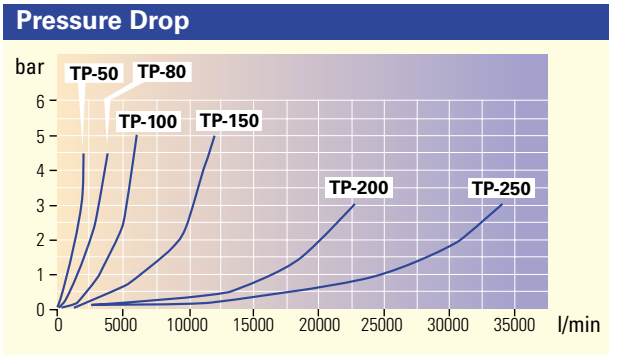
Listings and approvals

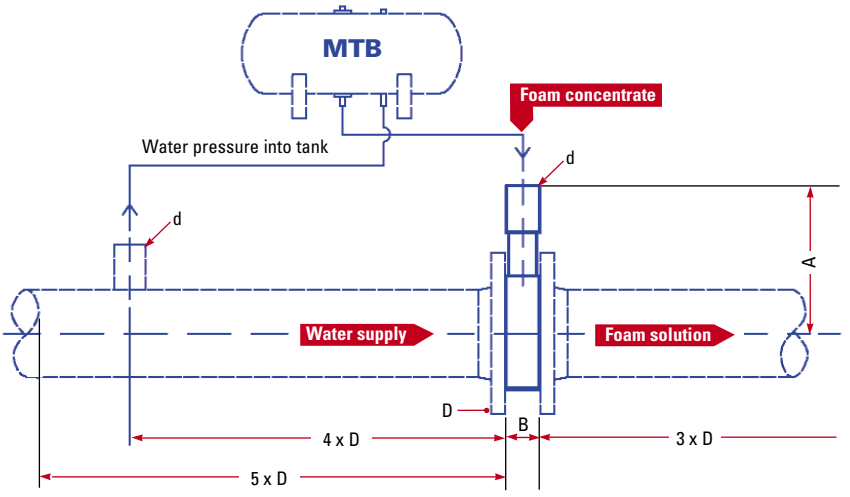
- Det Norske Veritas (DNV)
- Tested according to and complying with EN 13565-1

TP-100
TP-150

TP-200
TP-250

Pressure Drop





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tyco Fire Suppression & Building Products

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(replaces datasheets 1010/21 and 22)

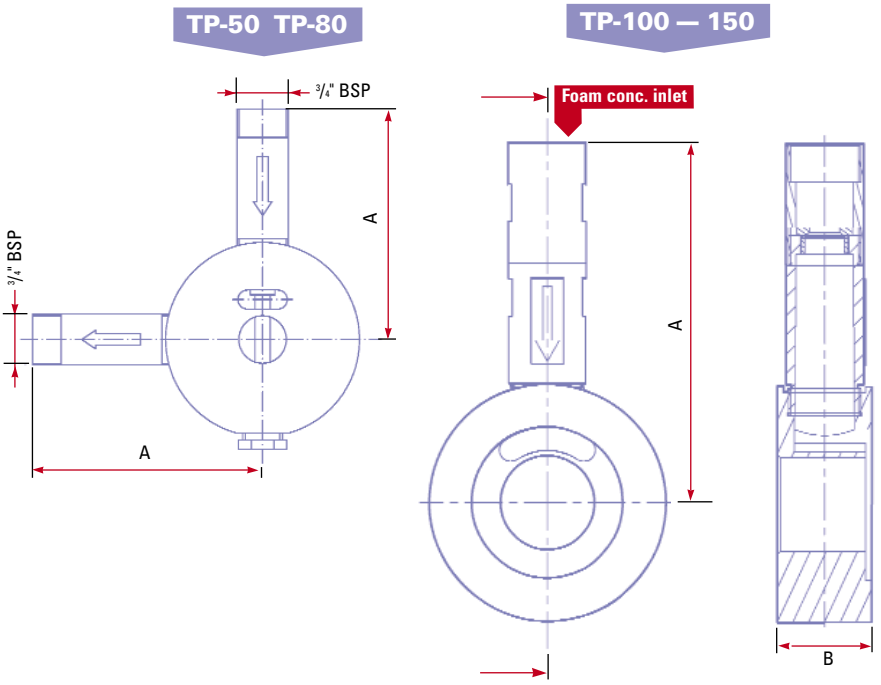
Fitting

The tank proportioner is designed to fit between flanges and is only to be used with a bladder tank system.

A minimum of five diameters (D) of straight pipe is required in the water line before entering the proportioner and three diameters (D) after the proportioner. Minimum distance for water pressure into tank upstream of the TP is four diameters (D) and maximum distance is 10 meters.

Order information - please specify:

1. Size (e.g. TP-200)
2. Connection DIN or ANSI (e.g. TP-200 DIN).
3. Foam mixing rate % - see Matrix Foam Concentrate Setting table below



Performance Data

Type	Connection		Capacity Min.		Capacity Max.*		Proportioner k-factor	Weight		Max. Working Pressure		Materials
	d	D	l/min	USGPM	l/min	USGPM		kg	lbs	bar	psi	
TP-50	¾" BSP	50 / 2"	125	33	800	211	300	6	13	16	235	Bronze (Cu88Sn12)
TP-80	¾" BSP	80 / 3"	300	79	2,000	528	1,010	10	22	16	235	Bronze (Cu88Sn12)
TP-100	50 / 2"	100 / 4"	770	203	6,000	1,585	4,040	12	26	16	235	Bronze (Cu88Sn12)
TP-150	50 / 2"	150 / 6"	1,500	396	12,000	3,170	7,990	15	33	16	235	Bronze (Cu88Sn12)
TP-200	80 / 3"	200 / 8"	2,875	760	22,750	6,001	17,255	32	71	16	235	Bronze (Cu88Sn12)
TP-250	80 / 3"	250 / 10"	5.100	1,347	34,100	9,009	27,060	42	92	16	235	Bronze (Cu88Sn12)

*At proportioner system pressure drop 1.5 bar Q l/min. ÷ √P bar = k-factor
1 bar = 0,1 MPa = 14,5 psi

Matrix for Foam Concentrate Setting

AFFF 3%	AFFF 1%	AR AFFF 3%	AR AFFF 1%	HotFoam 2%	FP 3%	P 3%	FFFP 3%
A	B	C	D	E	F	G	H

Dimensions TP

Type	A mm	B mm
TP-50	200	37
TP-80	200	37
TP-100	312	62
TP-150	333	62
TP-200	411	82
TP-250	439	82

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