

## Bladder Tank Proportioner TPW MK2

### General Description

An accurate proportioner for foam concentrate is vital for the correct performance of a foam system, irrespective of flow and pressure variations.

Skum TPW Mk2 proportioners provide more accurate proportioning, a wider flow range with a lower line pressure drop than the Mk1 versions.

### Application Description

This type of proportioner is used in bladder tank systems. The TPW series is designed for use in closed head sprinkler systems or where large flow variations occur.

### Product Features

- Designed to meet the requirements of EN 13565:1 and NFPA 16 Ch 4
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- Maximum/minimum flow rate ratio of 120:1
- Corrosion resistant materials
- Factory set to deliver accurate foam proportioning up to 3%
- Wafer type water connection
- Maintenance free compact design

### Connections

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

### Operation

Fully automatic foam proportioning within the flow and pressure range. The foam inlet pressure must be at least 1 bar higher than the water pressure.

### Installation

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 TPW is four diameters (D) and maximum distance is 10 metres.



TPW-100  
TPW-150

TPW-200

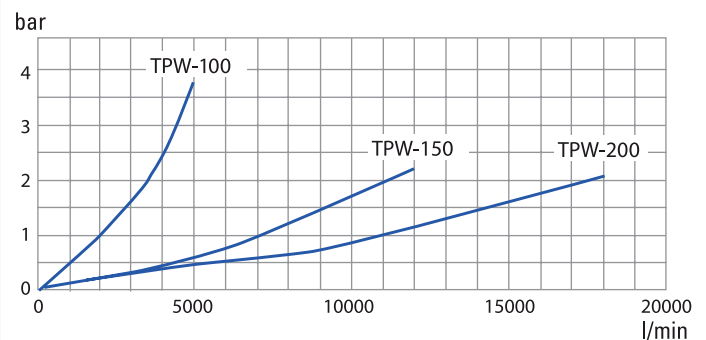
### Listings and Approvals

- Tested according to and complying with EN 13565:1
- Det Norske Veritas (DNV)
- Factory Mutual (FM); TPW-150
- Russian Maritime Register of Shipping (RMRS)

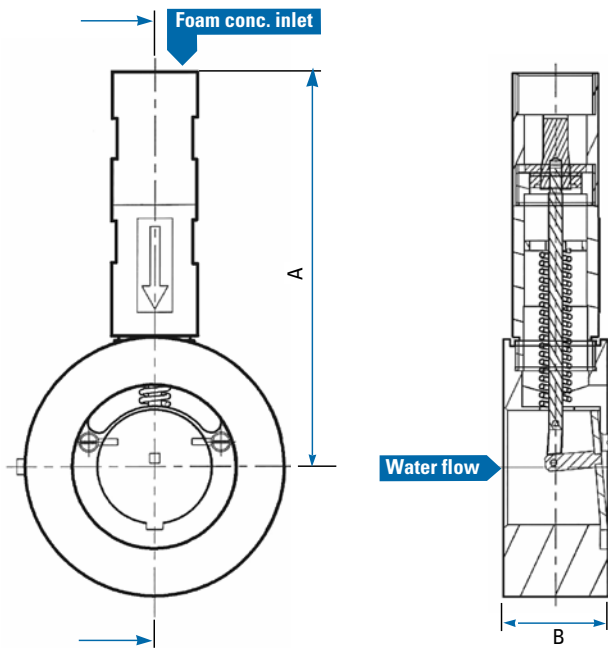
### Order Information - Please Specify

1. Part Number
2. Size
3. Foam proportioning %
4. Foam type

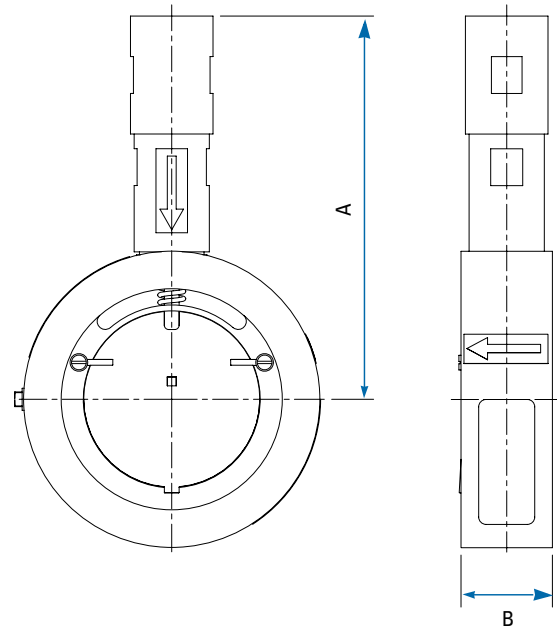
### Pressure Drop



## TPW - 100

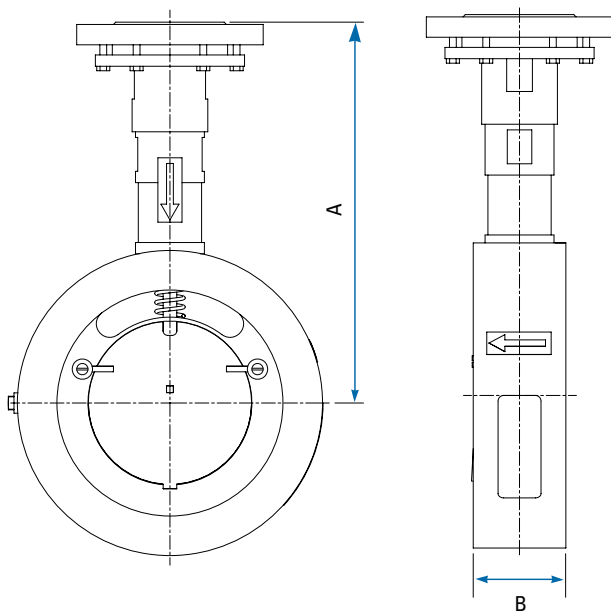


## TPW - 150



For dimensions A and B please see table below

## TPW - 200



## Dimensions TPW MK2

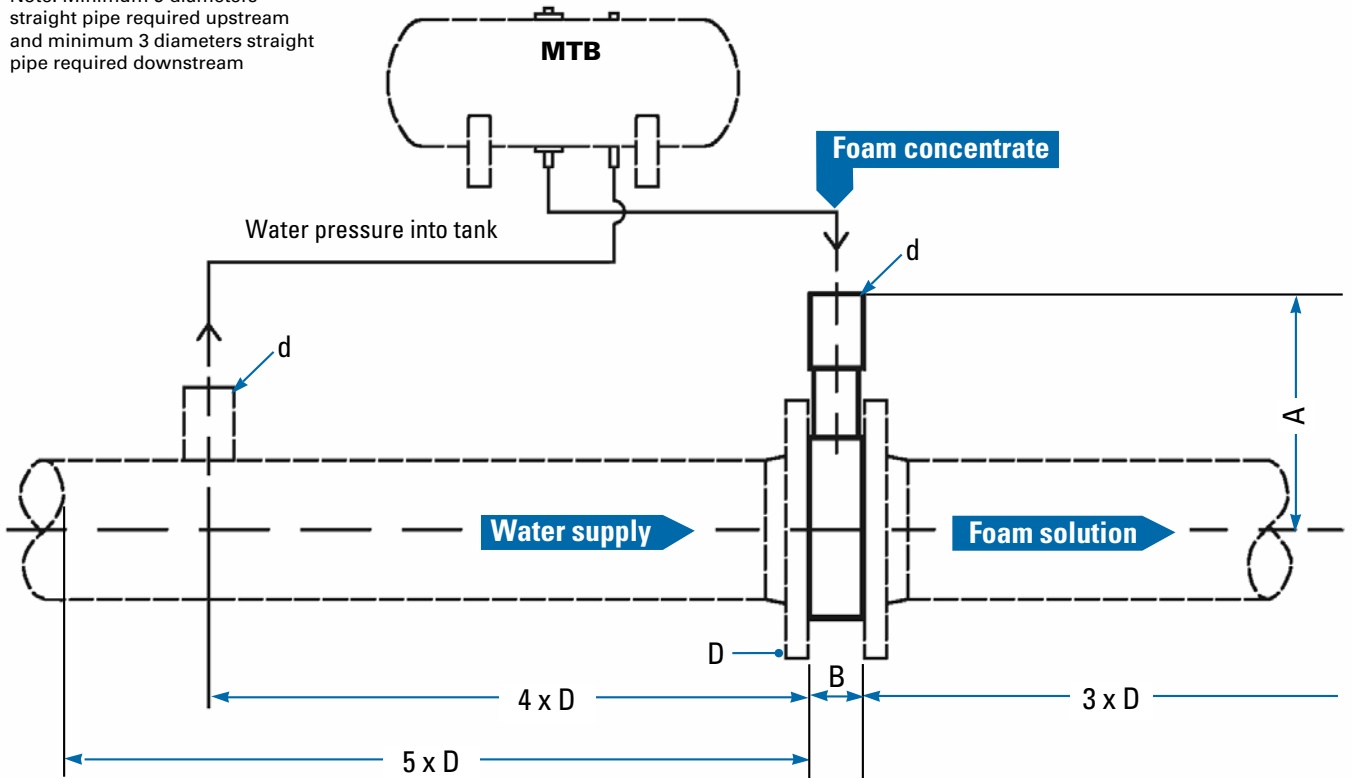
Type	A mm	B mm
■ TPW-100	239	62
■ TPW-150	260	62
■ TPW-200	337	82

## Performance Data

Type	Connection		Capacity Min.		Capacity Max.		Weight		Dimensions		Max. Working Pressure		Material
	d*	D	l/min	USGPM	l/min	USGPM	kg	lbs	A	B	bar	psi	
TPW-100	1½ BSP female and grooved 50 (2")	100 / 4"	100	26	5,000	1,320	13	29	239	62	16	235	Bronze (Cu88Sn12)
TPW-150	1½ BSP female and grooved 50 (2")	150 / 6"	100	26	12,000	3,170	16	35	260	62	16	235	Bronze (Cu88Sn12)
TPW-200	50 / 2"	200 / 8"	175	46	18,000**	4,756	33	73	337	82	16	235	Bronze (Cu88Sn12)

\*Flanges to fit DIN PN16 or ANSI 150 lbs  
1 bar = 0.1 MPa = 14.5 psi

Note: Minimum 5 diameters straight pipe required upstream and minimum 3 diameters straight pipe required downstream



Part No.	Description
■ 124510005A	TPW-100 BSP 3% AFFF
■ 124510005C	TPW-100 BSP 3% AR
■ 124510005E	TPW-100 BSP 2%
■ 124510005B	TPW-100 BSP 1%
■ 124515006A	TPW-150 BSP 3% AFFF
■ 124515006C	TPW-150 BSP 3% AR
■ 124515006E	TPW-150 BSP 2%
■ 124515006B	TPW-150 BSP 1%
■ 124520104A	TPW-200 DIN/ANSI 3% AFFF
■ 124520104C	TPW-200 DIN/ANSI 3% AR
■ 124520104E	TPW-200 DIN/ANSI 2%
■ 124520104B	TPW-200 DIN/ANSI 1%

## Foam Concentrate Mix Suffix

Foam Type	Suffix
■ AFFF/P/FP 3%	A
■ AFFF/AR 1%	B
■ AR AFFF 3%	C
■ HotFoam 2%	E