TP MK2 Bladder Tank Proportioner

Description

SKUM TP MK2 bladder tank 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

TP MK2 bladder tank proportioners supply accurate foam delivery to fire monitors and deluge systems. TP proportioners are used in combination with SKUM MTB bladder tanks.

Features

TP MK2 bladder tank proportioners offer the following features:

- Designed to meet the requirements of EN13565:1 and NFPA 16 Ch 4
- Factory-set to deliver accurate foam proportioning up to 6%
- Maintenance-free, compact design
- Corrosion-resistant materials
- Wafer-type water connection

Installation

TP MK2 proportioners are designed to fit between flanges and should only be used with a bladder tank system. A minimum of 5 diameters (5 × D) of straight pipe is required in the water line before entering the proportioner and 3 × D after the proportioner. Upstream of the TP proportioner, the minimum distance for water pressure into the tank is 4 × D and a maximum distance of 10 m (33 ft).

Note: To determine the measurements of the TP proportioners, see the Performance Data table.

Listings and Approvals

TP MK2 proportioners are approved, listed, qualified under, or meet the requirements of the following specifications and standards:

- Tested according to and complying with EN 13565:1
- Det Norske Veritas (DNV)
- Chinese National Test Centre Approval (TFRI); TP-100
- Russian State Fire Academy
- Russian Maritime Register of Shipping (RMRS)

TP - 100 / TP - 150

TP- 200 / TP - 250

Connections

- The wafer-type water connections are mounted between flanges.
- The foam connection is flanged to fit DIN PN16, ANSI 150 lb, or screw-threaded BSP.

Note: For more information, see the Performance Data table.

Ordering Information

When ordering, specify the following information:

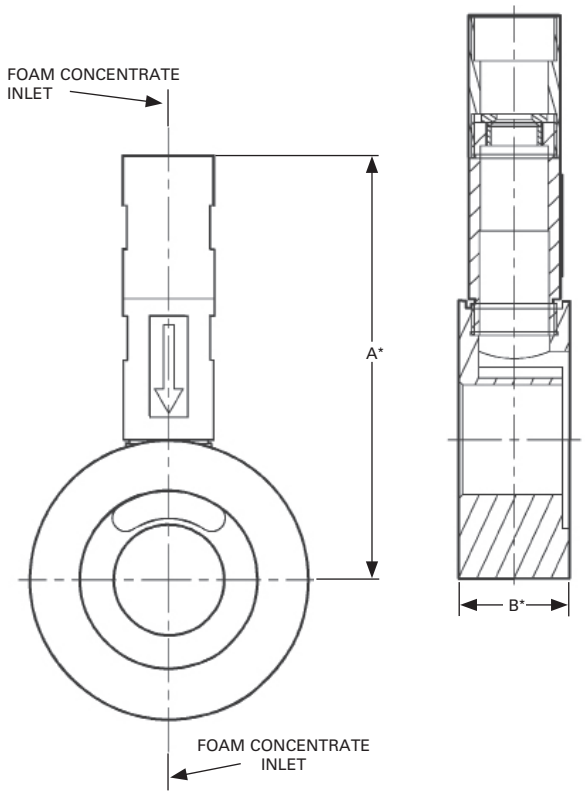
1. Part Number
2. Size
3. Foam proportioning percentage

Part Number	Description
124005105	TP-50
124008107	T-80
124310004A	TP-100 BSP 3%
124310004E	TP-100 BSP 2%
124310004B	TP-100 BSP 1%
124310004J	TP-100 BSP 6%
124315007A	TP-150 BSP 3%
124315007E	TP-150 BSP 2%
124315007B	TP-150 BSP 1%
124315007J	TP-150 BSP 6%
124320103A	TP-200 DIN/ANSI 3%
124320103E	TP-200 DIN/ANSI 2%
124320103B	TP-200 DIN/ANSI 1%
124320103J	TP-200 DIN/ANSI 6%
124325104A	TP-250 DIN 3%
124325104E	TP-250 DIN 2%
124325104B	TP-250 DIN 1%
124325104J	TP-250 DIN 6%
124325206A	TP-250 ANSI 3%
124325206E	TP-250 ANSI 2%
124325206B	TP-250 ANSI 1%
124325206J	TP-250 ANSI 6%

tyco Fire Protection Products

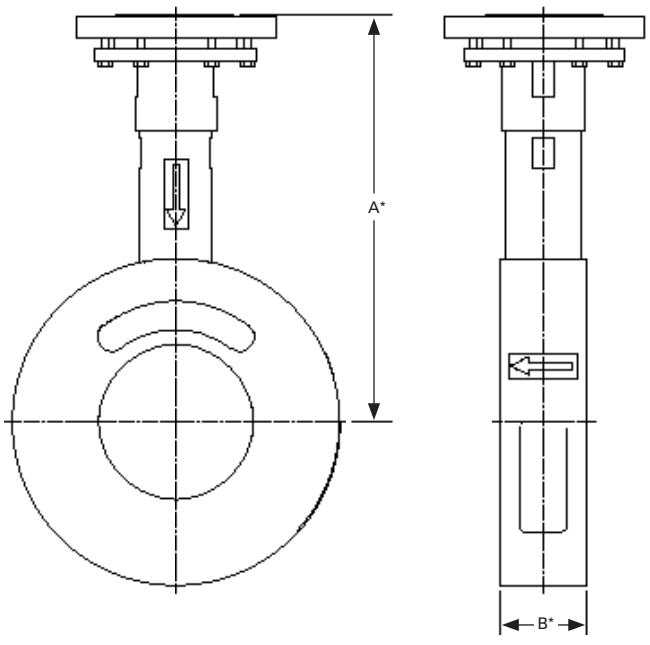
Tyco Park / Grimshaw Lane / Newton Heath / Manchester / M40 2WL
Tel: +44 (0) 161 259 4000 / www.tfppemea.com

TP - 100 / TP - 150



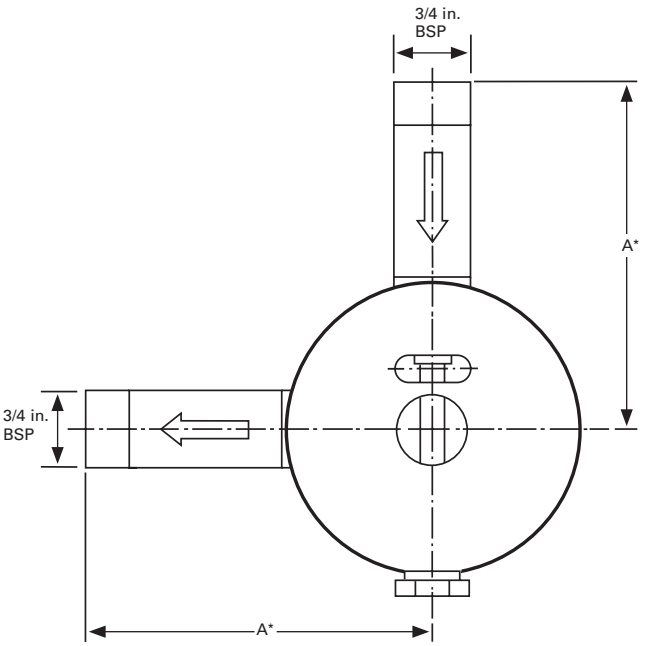
*For A and B measurements, see the Proportioner Dimensions.

TP - 200 / TP - 250



*For A and B measurements, see the Proportioner Dimensions.

TP - 50 / TP - 80

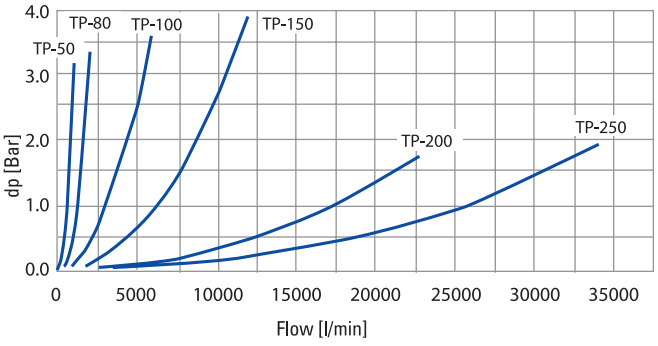


*For A meausrements, see the Proportioner Dimensions.

Proportioner Dimensions

Proportioner Type	Dimension A mm	(in.)	Dimension B mm	(in.)
TP-50	125	(4.9)	37	(1.5)
TP-80	140	(5.5)	37	(1.5)
TP-100	239	(9.4)	62	(2.4)
TP-150	262	(10.3)	62	(2.4)
TP-200	337	(13.3)	72	(2.8)
TP-250	365	(14.3)	72	(2.8)

Pressure Drop



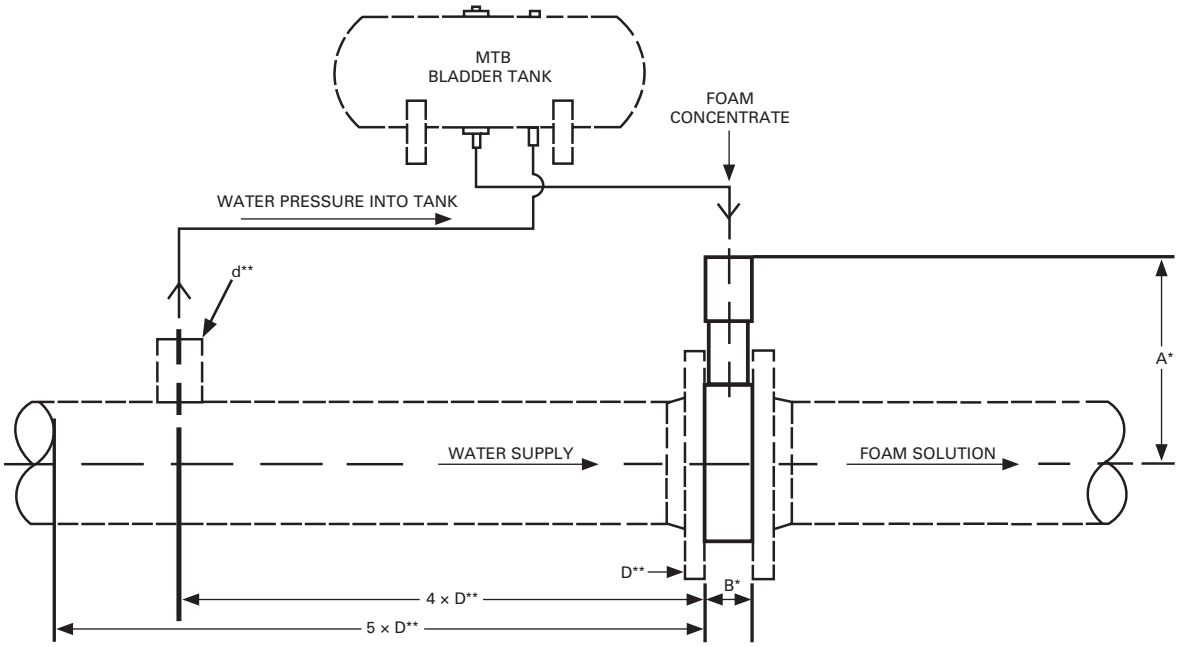
Performance Data

Type	Connection		Minimum Capacity		Maximum Capacity		Proportioner K-factor[2]	Weight		Maximum Working Pressure[3]		Material
	d[1]	D mm (in.)	Lpm	(US gpm)	Lpm	(US gpm)		kg	(lb)	bar	(psi)	
TP-50	3/4 in. BSP	50 (2)	125	(33)	800	(211)	450	6	(13)	16	(232)	Bronze (Cu88Sn12)
TP-80	3/4 in. BSP	80 (3)	300	(79)	2,000	(528)	1,110	10	(22)	16	(232)	Bronze (Cu88Sn12)
TP-100	1 1/2 in. BSP female and grooved 50 mm (2 in.)	100 (4)	770	(203)	6,000	(1,585)	4,040	12	(26)	16	(232)	Bronze (Cu88Sn12)
TP-150	1 1/2 in. BSP female and grooved 50 mm (2 in.)	150 (6)	1,500	(396)	12,000	(3,170)	7,070	15	(33)	16	(232)	Bronze (Cu88Sn12)
TP-200	50 mm (2 in.)	200 (8)	2,875	(759)	22,750	(6,010)	17,255	32	(71)	16	(232)	Bronze (Cu88Sn12)
TP-250	80 mm (3 in.)	250 (10)	5,100	(1,347)	34,100	(9,008)	27,060	42	(93)	16	(232)	Bronze (Cu88Sn12)

Notes: [1] Flanges to fit DIN PN16 or ANSI 150 lb

[2] K-factor = Q Lpm ÷ √P

[3] 1 bar = .01 MPa = 14.5 psi



*For dimensions A and B, see the Proportioner Dimensions.

**For dimensions d and D, see the Performance Data table.

Note: The converted values in this document are provided for dimensional reference only and do not reflect an actual measurement.