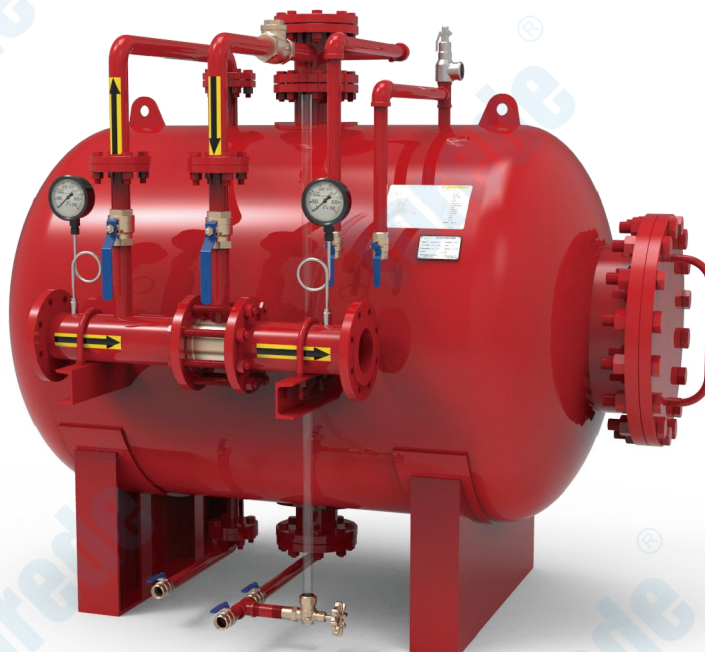




FOAM BLADDER TANK

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Contents

01	PRODUCT INTRODUCTION	1
02	PERFORMANCE PARAMETERS	1
03	STRUCTURE & WORKING PRINCIPLE	2
04	STRUCTURE SIZE	3

01 / PRODUCT INTRODUCTION

Bladder tanks are positive displacement pro-portioning systems made of a tank and an in-line mixer. The tank is equipped with an elastomeric bladder that is used to hold the foam concentrate and it is normally kept unpressurized. The mixer is directly piped to the bladder tank via two lines, the water inlet line and the foam outlet line. When in operation, water flows into the mixer passing through a water orifice that creates a pressure differential across the disc in the area of the mixer where the foam concentrate is injected.

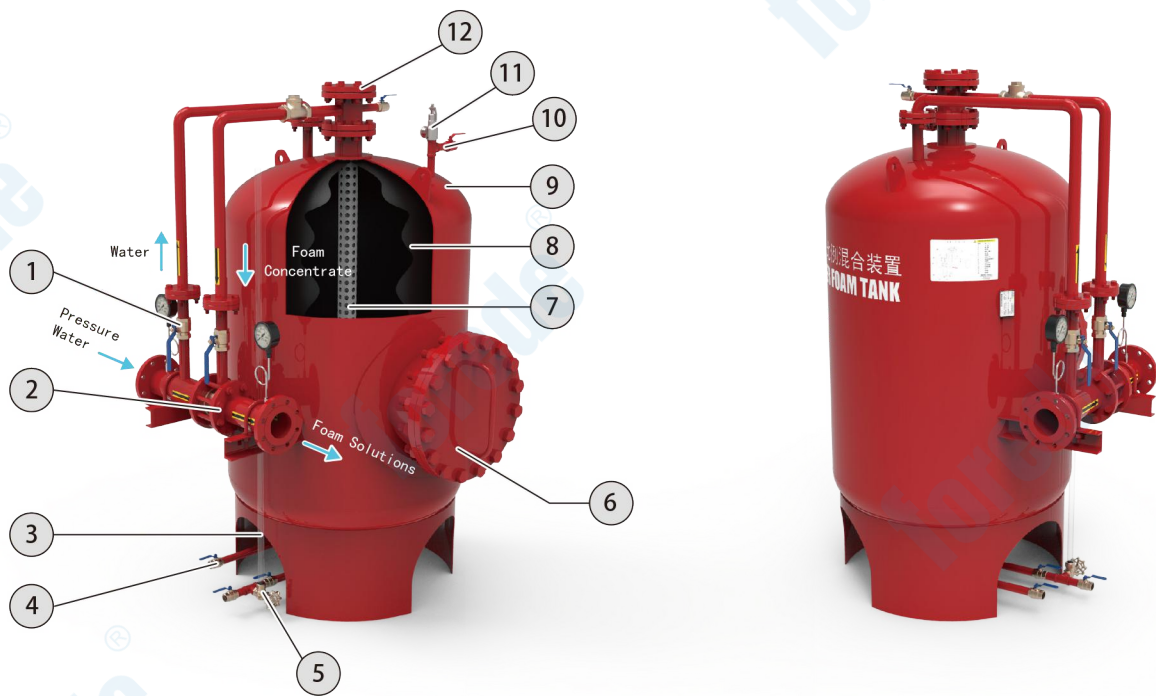
Some water from the main supply is deviated and enters the tank surrounding the bladder, increasing the tank pressure. This squeezes the bladder and forces the foam concentrate to leave the tank and enter the foam line. The concentrate is then delivered to the mixer injection point, where another orifice plate is located to meter its flow in the low-pressure water stream zone. The system works till the concentrate in the bladder has been consumed and the tank is full of water. Every unit is available in a horizontal or vertical configuration and is customized according to client requirements including accessories such as: double tank system (only for verticals), ladders for easy access to manhole(s), deluge or remote controlled valves for system automation, manual filling pump, base plates, special metal treatments or painting procedures. The Bladder tank can be manufactured also with foam concentrate to be Contained inside or outside the bladder.

02 / PERFORMANCE PARAMETERS

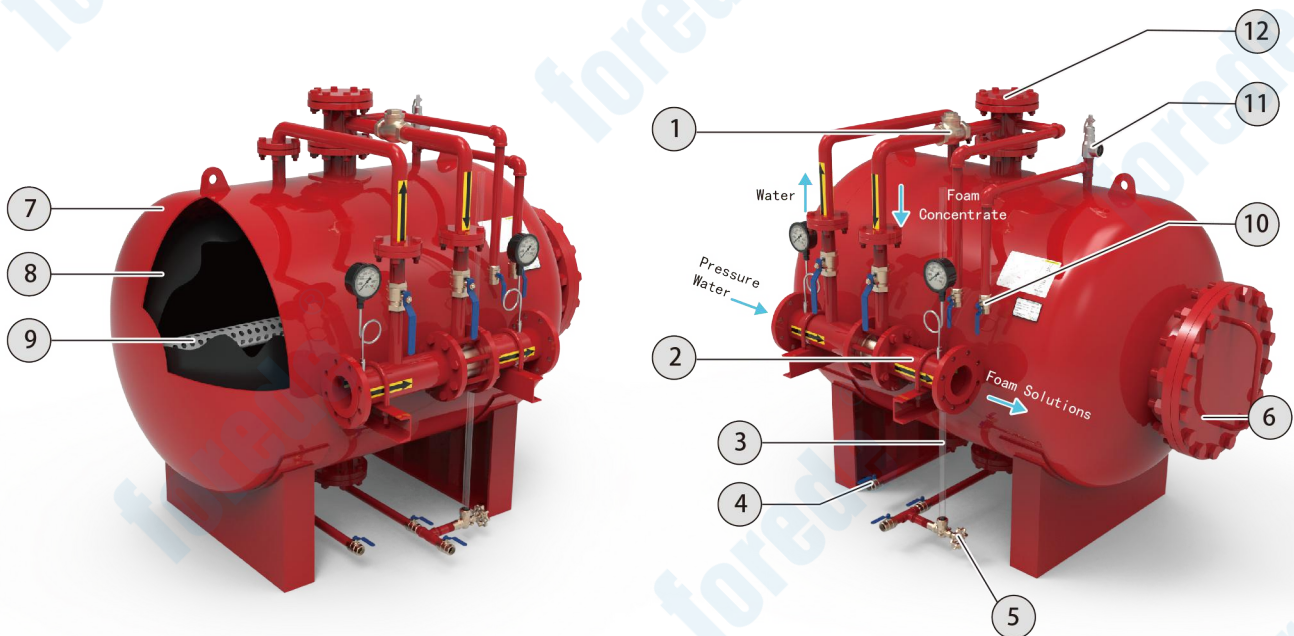
FIG.1 PHYM Parameters

Type	Rated inlet pressure (Mpa)	Inlet pressure range (Mpa)	Solution flow rate (L/S)	Solution flow range (L/S)	Ratio (%)	Volume (L)	N.W (T)
PHYM24-300	1.6	0.6—1.6	24	4-24	3&6	300	0.2
PHYM24-500						500	0.3
PHYM24-600						600	0.3
PHYM32-800			32	8-32		800	0.4
PHYM32-1000						1000	0.4
PHYM32-1200						1200	0.5
PHYM32-1500						1500	0.6
PHYM32-2000						2000	0.8
PHYM48-3000			48	12-48		3000	1.2
PHYM48-4000						4000	1.3
PHYM48-5000						5000	1.5
PHYM64-6000			64	16-64		6000	1.5
PHYM64-8000						8000	2
PHYM64-10000						10000	2.3

03 / STRUCTURE & WORKING PRINCIPLE



Pic.1 Vertical Bladder Tank Structure Principle



Pic.2 Horizontal Bladder Tank Structure Principle

1 BALL VALVE	5 FOAM DISCHARGE VALVE	9 TANK SHELL
2 PROPORTIONER	6 MAN HOLE	10 EVACUATION VALVE
3 LEVEL GAUGE	7 TUBE	11 SAFETY VALVE
4 DRAIN VALVE	8 BLADDER	12 FILLING HOLE

Fig.2 PHYM Vertical Bladder Tank Outline Dimensions

Type	DN	L	L1	L2	H	H1	B	B1	Inlet Flange
									DN
PHYM24-300	600	800	380	820	1700	950	800	520	65
PHYM24-500	700	900			1950		900	570	
PHYM24-600					2200				
PHYM32-800	900	1100			1900		1100	680	
PHYM32-1000	1100	1300		900	2000		1450	800	100
PHYM32-1200					1850			680	
PHYM32-1500	1200	1400			2100				
PHYM32-2000	1400	1600			2150		2150	1060	150
PHYM48-3000	1600	1800			2200				

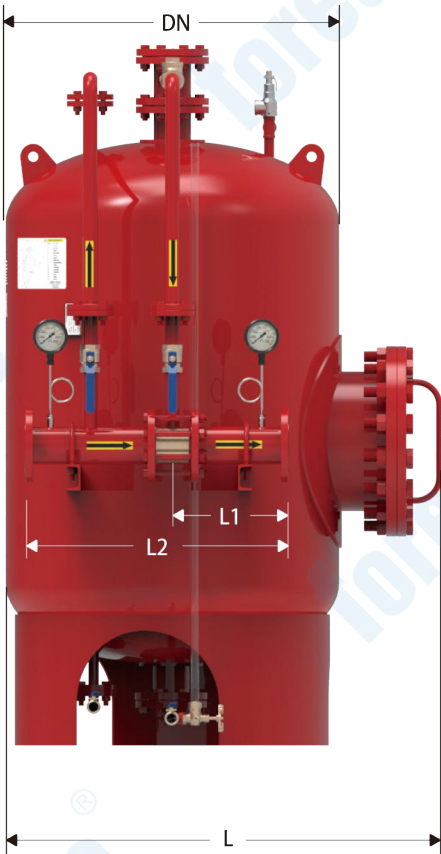
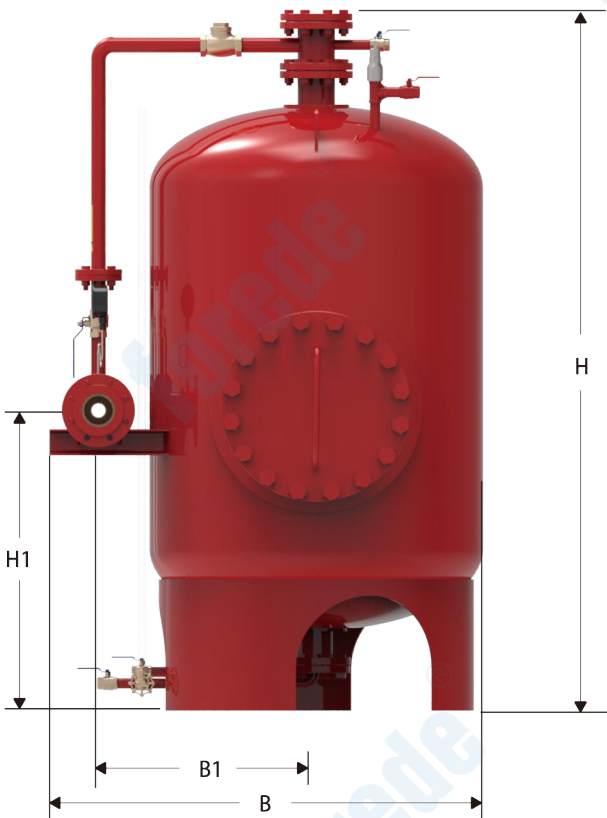


Fig.3 PHYM Horizontal Bladder Tank Outline Dimensions

Type	DN	L	L1	L2	L3	L4	H	H1	B	B1	B2	B3	Inlet Flange
													DN
PHYM32-1000	1000	1700	450	800	370	900	1600	1000	1250	760	600	650	100
PHYM32-1500	1100			1050			1650		1350	880	770	675	
PHYM32-2000	1200	2300	550				1750		1450		820	800	150
PHYM48-3000	1400	2550	730				1950		1750	1120	950	900	
PHYM48-4000		2850	950				2250		1950		1050	1000	200
PHYM48-5000	1600	3400	850	1450	2150	2350	2350		1420	1120	1100		
PHYM64-6000		3550	1050	1650	400	1000	2800		1300	1250	250		
PHYM64-8000	1800	3700		1650	400	1000	2800		2350	1420	1120	1100	
PHYM64-10000	2000	4000											

