



# PRE-PIPED HORIZONTAL BLADDER TANKS

The Chemguard Pre-Piped Horizontal Bladder Tank is one component in a balanced pressure foam proportioning system. It requires no external power, other than the water pressure to ensure correct operation. The pre-piped horizontal bladder tanks are designed and constructed in accordance with the latest revisions to ASME code, Section VIII for unfired pressure vessels with a working pressure of 175 psi and tested to 1.3 times this pressure.

## SPECIFICATIONS

The tank shell is constructed of SA 516 Grade 70 steel, complying with ASME specifications, possessing a tensile strength of not less than 70,000 psi. The circumferential, as well as the longitudinal body seam, are machine welded. The tank interior welds and edges are ground smooth.

The tank shell water inlet and tank shell water drain is screened to prevent bladder blow out or the entrapment of debris between the tank shell and the bladder.

The pre-piped horizontal tank assembly is supported on two saddles welded to the tank, and fitted with anchoring holes, allowing easy access to the bladder drain/fill valve and the tank shell drain/fill valve.

## FEATURES

- UL Listed\*.
- FM Approved\*.
- Chemguard Bladder Tanks comply with the requirements of the Pressure Equipment Directive 97/23/EC.
- The bladder is manufactured of a vinyl based polymer. Bladder material shall have an ASTM D-412 Tensile Strength of at least 3000 psi and an ASTM D-624 Graves Tear Strength of at least 420 lbs./in.

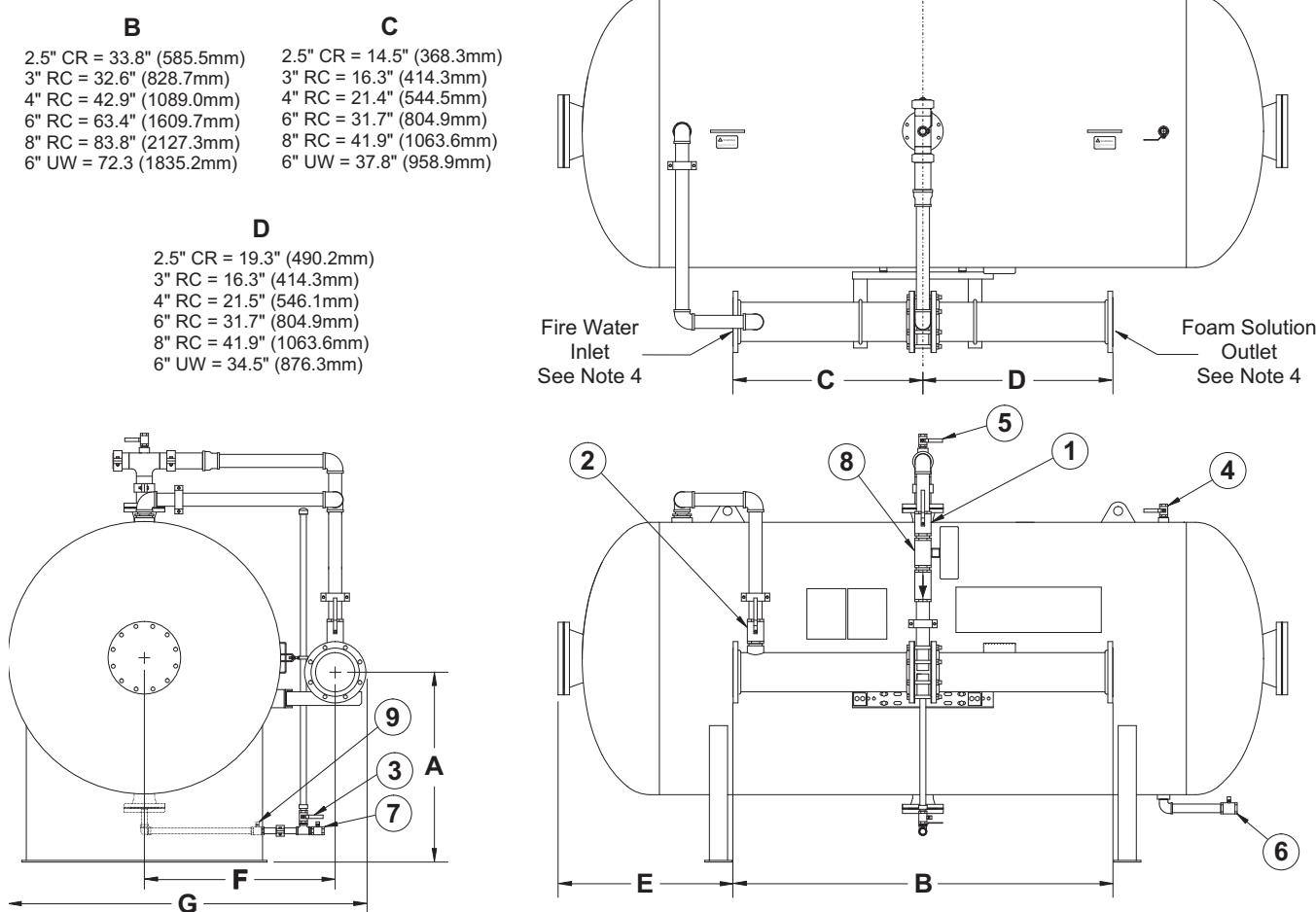
\* Note: Listings, Approvals and/or Certifications for Chemguard foam concentrate and/or equipment are valid only when used with other Chemguard foam concentrates or equipment in a manner as outlined in the applicable Listing, Approval and/or Certification.

- Tanks are supplied with foam concentrate discharge located at the top of the tank.
- Standard piping material for prepiped tanks:  
Foam Concentrate Lines ..... Brass/Bronze  
Water Pressurization Lines ..... Brass/Bronze  
Vent/Drain Lines ..... Brass/Bronze  
Fire Water/Foam Solution Lines ... Carbon Steel
- All valves are labeled showing normal working position and function.
- Lifting lugs are permanently welded to the tank with eyes of approximately 2" diameter.
- Tanks contain a perforated PVC center tube that assures maximum agent discharge.
- All tanks are oversized to allow for any thermal expansion of the foam concentrate.
- All tanks are supplied with a label, which identifies the type of foam concentrate the system is designed for, the percentage ratio and the tank size.
- Tanks are painted red enamel.

## OPTIONS

- Coal tar epoxy for coating the interior shell of the tank (for use in salt-water environment).
- Sight Glass.
- Red epoxy finish.
- Custom fabrication of specialty materials, dimensions, and capacities.
- Actuated valves for water/concentrate.
- Stainless steel or carbon steel for prepiped tanks.
- Insulation and heat tracing packages.
- Seismic designed tanks available.

**PRE-PIPED HORIZONTAL BLADDER TANKS**  
**OUTLINE DRAWING AND NORMAL VALVE POSITION CHART**



VALVE DESCRIPTION		NORMAL VALVE POSITION	
Valve No.	Description	Manual System	Automatic System
1	Manual Foam Concentrate Shut-Off	N.C.	N.O.
2	Water Supply Shut-Off	N.C.	N.O.
3	Sight Gauge Shut-Off	N.C.	N.C.
4	Tank Shell Vent	N.C.	N.C.
5	Bladder Vent	N.C.	N.C.
6	Tank Shell Drain/Fill	N.C.	N.C.
7	Bladder Drain/Fill	N.C.	N.C.
8	Automatic Foam Concentrate Isolation	-	N.C.
9	Fill Line Master Shut-Off	N.C.	N.C.

N.O. - Normally Open; N.C. - Normally Closed

**NOTES:**

- Dimensions are approximate and subject to change without notice.
- Dimensions marked with \* under column E extend beyond the edge of the tank by the negative indicated.
- Refer to standard horizontal bladder tank chart for overall and anchor dimensions.
- Fire water inlet and foam solution discharge supplied with ANSI Class 150 Raised Face Flanges sized to match corresponding ratio flow controller.
- When designing a building to store bladder tanks, steps shall be taken to allow for removal of the internal center tube(s). Center tubes are the full length and/or height of the bladder tank.

**CHEMGUARD**

204 S. 6th Ave • Mansfield, TX 76063 • (817) 473-9964 • FAX (817) 473-0606

[www.chemguard.com](http://www.chemguard.com)

**Pre-Piped Horizontal Bladder Tanks - Capacity & Dimensions Chart**

Capacity	Gallons	Tank Dimensions - Inches										E	F	G					
		A	B	C	D	2.5"RC	3"RC	4"RC	6"RC	8"RC	6"UW								
50	189	25.9	26.3	26.8	N/A	N/A	N/A	N/A	N/A	N/A	-	8.3	6.4	1.3	N/A	N/A	24.0	42.8	
75	284	25.9	26.3	26.8	N/A	N/A	N/A	N/A	N/A	N/A	-	15.8	13.9	8.8	N/A	N/A	24.0	42.8	
100	379	25.9	26.3	26.8	N/A	N/A	N/A	N/A	N/A	N/A	-	23.3	21.4	16.3	N/A	N/A	24.0	42.8	
150	568	28.9	29.3	29.8	30.8	31.8	30.8	30.8	30.8	30.8	30.8	14.8	12.9	7.8	-2.4*	-12.6*	30.0	54.8	
200	757	28.9	29.3	29.8	30.8	31.8	30.8	30.8	30.8	30.8	30.8	21.8	19.9	14.8	4.6	-5.6*	-1.5*	30.0	54.8
250	946	28.9	29.3	29.8	30.8	31.8	30.8	30.8	30.8	30.8	30.8	28.3	26.4	21.3	11.1	0.9	5.0	30.0	54.8
300	1,136	28.9	29.3	29.8	30.8	31.8	30.8	30.8	30.8	30.8	30.8	35.3	33.4	28.3	18.1	7.9	12.0	30.0	54.8
350	1,325	28.9	29.3	29.8	30.8	31.8	30.8	30.8	30.8	30.8	30.8	41.8	39.9	34.8	24.6	14.4	18.5	30.0	54.8
400	1,514	28.9	29.3	29.8	30.8	31.8	30.8	30.8	30.8	30.8	30.8	48.8	46.9	41.8	31.6	21.4	25.5	30.0	54.8
450	1,703	28.9	29.3	29.8	30.8	31.8	30.8	30.8	30.8	30.8	30.8	55.3	53.4	48.3	38.1	27.9	32.0	30.0	54.8
500	1,893	34.9	35.3	35.8	36.8	37.8	36.8	36.8	36.8	36.8	36.8	33.3	31.4	26.3	16.1	5.9	10.0	36.0	66.8
600	2,271	34.9	35.3	35.8	36.8	37.8	36.8	36.8	36.8	36.8	36.8	41.3	39.4	34.3	24.1	13.9	18.0	36.0	66.8
700	2,650	34.9	35.3	35.8	36.8	37.8	36.8	36.8	36.8	36.8	36.8	48.8	46.9	41.8	31.6	21.4	25.5	36.0	66.8
800	3,028	34.9	35.3	35.8	36.8	37.8	36.8	36.8	36.8	36.8	36.8	56.3	54.4	49.3	39.1	28.9	33.0	36.0	66.8
900	3,407	34.9	35.3	35.8	36.8	37.8	36.8	36.8	36.8	36.8	36.8	63.8	61.9	56.8	46.6	36.4	40.5	36.0	66.8
1,000	3,785	34.9	35.3	35.8	36.8	37.8	36.8	36.8	36.8	36.8	36.8	71.3	69.4	64.3	54.1	43.9	48.0	36.0	66.8
1,100	4,164	38.9	39.3	39.8	40.8	41.8	40.8	40.8	40.8	40.8	40.8	48.0	46.2	41.1	30.8	20.6	24.8	42.0	78.8
1,200	4,542	38.9	39.3	39.8	40.8	41.8	40.8	40.8	40.8	40.8	40.8	52.5	50.7	45.6	35.3	25.1	29.3	42.0	78.8
1,300	4,921	38.9	39.3	39.8	40.8	41.8	40.8	40.8	40.8	40.8	40.8	57.0	55.2	50.1	39.8	29.6	33.8	42.0	78.8
1,400	5,300	38.9	39.3	39.8	40.8	41.8	40.8	40.8	40.8	40.8	40.8	61.5	59.7	54.6	44.3	34.1	38.3	42.0	78.8
1,500	5,678	38.9	39.3	39.8	40.8	41.8	40.8	40.8	40.8	40.8	40.8	66.5	64.7	59.6	49.3	39.1	43.3	42.0	78.8
1,600	6,057	44.9	45.3	45.8	46.8	47.8	46.8	46.8	46.8	46.8	46.8	50.0	48.2	43.1	32.8	22.6	26.8	48.0	90.8
1,700	6,435	44.9	45.3	45.8	46.8	47.8	46.8	46.8	46.8	46.8	46.8	53.0	51.2	46.1	35.8	25.6	29.8	48.0	90.8
1,800	6,814	44.9	45.3	45.8	46.8	47.8	46.8	46.8	46.8	46.8	46.8	56.0	54.2	49.1	38.8	28.6	32.8	48.0	90.8
1,900	7,192	44.9	45.3	45.8	46.8	47.8	46.8	46.8	46.8	46.8	46.8	59.5	57.7	52.6	42.3	32.1	36.3	48.0	90.8
2,000	7,571	44.9	45.3	45.8	46.8	47.8	46.8	46.8	46.8	46.8	46.8	62.5	60.7	55.6	45.3	35.1	39.3	48.0	90.8
2,100	7,949	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	47.5	45.7	40.6	30.3	20.1	24.3	54.0	102.8
2,200	8,328	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	49.5	47.7	42.6	32.3	22.1	26.3	54.0	102.8
2,300	8,706	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	52.0	50.2	45.1	34.8	24.6	28.8	54.0	102.8
2,400	9,085	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	54.0	52.2	47.1	36.8	26.6	30.8	54.0	102.8
2,500	9,464	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	56.5	54.7	49.6	39.3	29.1	33.3	54.0	102.8
2,600	9,842	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	59.0	57.2	52.1	41.8	31.6	35.8	54.0	102.8
2,700	10,221	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	61.0	59.2	54.1	43.8	33.6	37.8	54.0	102.8
2,800	10,599	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	63.5	61.7	56.6	46.3	36.1	40.3	54.0	102.8
2,900	10,978	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	66.0	64.2	59.1	48.8	38.6	42.8	54.0	102.8
3,000	11,356	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	68.0	66.2	61.1	50.8	40.6	44.8	54.0	102.8
3,100	11,735	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	70.5	68.7	63.6	53.3	43.1	47.3	54.0	102.8
3,200	12,113	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	72.5	70.7	65.6	55.3	45.1	49.3	54.0	102.8
3,300	12,492	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	75.0	73.2	68.1	57.8	47.6	51.8	54.0	102.8
3,400	12,870	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	77.0	75.2	70.1	59.8	49.6	53.8	54.0	102.8
3,500	13,249	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	79.5	77.7	72.6	62.3	52.1	56.3	54.0	102.8
3,600	13,627	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	82.0	80.2	75.1	64.8	54.6	58.8	54.0	102.8
3,700	14,006	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	84.0	82.2	77.1	66.8	56.6	60.8	54.0	102.8
3,800	14,385	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	86.5	84.7	79.6	69.3	59.1	63.3	54.0	102.8
3,900	14,763	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	88.5	86.7	81.6	71.3	61.1	65.3	54.0	102.8
4,000	15,142	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	91.0	89.2	84.1	73.8	63.6	67.8	54.0	102.8
4,100	15,520	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	93.5	91.7	86.6	76.3	66.1	70.3	54.0	102.8
4,200	15,899	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	94.2	89.1	78.8	68.6	67.8	72.8	54.0	102.8
4,300	16,277	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	96.2	91.1	80.8	70.6	69.8	74.8	54.0	102.8
4,400	16,656	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	98.0	96.2	91.1	80.8	70.6	76.8	54.0	102.8
4,500	17,034	46.9	47.3	47.8	48.8	49.8	48.8	48.8	48.8	48.8	48.8	102.5	100.7	95.6	85.3	75.1	79.3	54.0	102.8

**HORIZONTAL BLADDER TANKS - PREPARED ARRANGEMENT**

**Pre-Piped Horizontal Bladder Tanks - Capacity & Dimensions Chart**

Capacity	Gallons	Tank Dimensions - Millimeters														
		A			B			C			D			E		
50	189	658.8	666.8	679.5	N/A	N/A	N/A	See Diagram	See Diagram	See Diagram	2.5" RC	4" RC	6" UW	-	-	-
75	284	658.8	666.8	679.5	N/A	N/A	N/A	See Diagram	See Diagram	See Diagram	209.6	163.5	33.3	N/A	N/A	609.6
100	379	658.8	666.8	679.5	N/A	N/A	N/A	See Diagram	See Diagram	See Diagram	400.1	354.0	223.8	N/A	N/A	609.6
150	568	735.0	743.0	755.7	782.6	808.0	782.6	See Diagram	See Diagram	See Diagram	374.7	328.6	198.4	-60.9*	-320.0*	-215.9*
200	757	735.0	743.0	755.7	782.6	808.0	782.6	See Diagram	See Diagram	See Diagram	525.5	506.4	376.2	115.9	-142.2*	-38.1*
250	946	735.0	743.0	755.7	782.6	808.0	782.6	See Diagram	See Diagram	See Diagram	717.6	671.5	541.3	281.0	222.2	127.0
300	1,136	735.0	743.0	755.7	782.6	808.0	782.6	See Diagram	See Diagram	See Diagram	849.4	849.3	719.1	458.8	200.0	304.8
350	1,325	735.0	743.0	755.7	782.6	808.0	782.6	See Diagram	See Diagram	See Diagram	1,060.5	1,014.4	884.2	623.9	365.1	762.0
400	1,514	735.0	743.0	755.7	782.6	808.0	782.6	See Diagram	See Diagram	See Diagram	1,203.6	1,192.4	1,062.0	801.7	542.9	647.7
450	1,703	735.0	743.0	755.7	782.6	808.0	782.6	See Diagram	See Diagram	See Diagram	1,403.4	1,357.3	1,227.1	966.8	708.0	812.8
500	1,893	887.4	895.4	908.1	935.0	960.4	935.0	See Diagram	See Diagram	See Diagram	844.6	798.5	668.3	408.0	149.2	254.0
600	2,271	887.4	895.4	908.1	935.0	960.4	935.0	See Diagram	See Diagram	See Diagram	1,047.8	1,001.7	871.5	611.2	352.4	457.2
700	2,650	887.4	895.4	908.1	935.0	960.4	935.0	See Diagram	See Diagram	See Diagram	1,238.3	1,192.2	1,062.0	801.7	542.9	647.7
800	3,028	887.4	895.4	908.1	935.0	960.4	935.0	See Diagram	See Diagram	See Diagram	1,428.8	1,382.7	1,252.5	992.2	733.4	838.2
900	3,407	887.4	895.4	908.1	935.0	960.4	935.0	See Diagram	See Diagram	See Diagram	1,619.3	1,573.2	1,443.0	1,182.7	923.9	1,028.7
1,000	3,785	887.4	895.4	908.1	935.0	960.4	935.0	See Diagram	See Diagram	See Diagram	1,809.8	1,763.7	1,633.5	1,373.2	1,114.4	914.4
1,100	4,164	989.0	997.0	1,009.7	1,036.6	1,062.0	1,036.6	See Diagram	See Diagram	See Diagram	2,191.2	1,173.2	1,043.0	782.6	523.9	628.7
1,200	4,542	989.0	997.0	1,009.7	1,036.6	1,062.0	1,036.6	See Diagram	See Diagram	See Diagram	2,270.0	1,224.0	1,093.8	833.4	574.7	679.5
1,300	4,921	989.0	997.0	1,009.7	1,036.6	1,062.0	1,036.6	See Diagram	See Diagram	See Diagram	2,346.2	1,300.2	1,170.6	1,011.2	752.5	857.3
1,400	5,300	989.0	997.0	1,009.7	1,036.6	1,062.0	1,036.6	See Diagram	See Diagram	See Diagram	2,562.1	1,516.1	1,385.9	1,125.5	866.8	971.6
1,500	5,678	989.0	997.0	1,009.7	1,036.6	1,062.0	1,036.6	See Diagram	See Diagram	See Diagram	2,689.1	1,643.1	1,425.5	1,252.5	903.8	1,098.6
1,600	6,057	1,141.4	1,149.4	1,162.1	1,189.0	1,214.4	1,189.0	See Diagram	See Diagram	See Diagram	2,720.0	1,224.0	1,093.8	833.4	574.7	679.5
1,700	6,435	1,141.4	1,149.4	1,162.1	1,189.0	1,214.4	1,189.0	See Diagram	See Diagram	See Diagram	2,346.2	1,300.2	1,170.6	1,011.2	752.5	857.3
1,800	6,814	1,141.4	1,149.4	1,162.1	1,189.0	1,214.4	1,189.0	See Diagram	See Diagram	See Diagram	2,422.4	1,376.4	1,246.2	985.8	727.1	831.9
1,900	7,192	1,141.4	1,149.4	1,162.1	1,189.0	1,214.4	1,189.0	See Diagram	See Diagram	See Diagram	2,511.3	1,465.3	1,335.1	1,1074.7	816.0	920.8
2,000	7,571	1,141.4	1,149.4	1,162.1	1,189.0	1,214.4	1,189.0	See Diagram	See Diagram	See Diagram	2,587.5	1,541.5	1,411.3	1,150.9	892.2	997.0
2,100	7,949	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,065.5	1,160.5	1,030.3	769.9	511.2	616.0
2,200	8,328	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,257.3	1,211.3	1,081.1	820.7	562.0	666.8
2,300	8,706	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,320.8	1,274.8	1,144.6	884.2	625.5	730.3
2,400	9,085	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,371.6	1,325.6	1,195.4	935.0	676.3	781.1
2,500	9,464	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,435.1	1,389.1	1,258.9	998.5	739.8	844.6
2,600	9,842	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,498.6	1,452.6	1,322.4	1,062.0	803.3	908.1
2,700	10,221	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,549.4	1,503.4	1,373.2	1,112.8	854.1	958.9
2,800	10,599	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,612.9	1,566.9	1,436.7	1,176.3	917.6	1,022.4
2,900	10,978	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,676.4	1,630.4	1,500.2	1,239.8	981.1	1,085.9
3,000	11,356	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,727.2	1,681.2	1,551.0	1,290.6	1,031.9	1,136.7
3,100	11,735	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,790.7	1,744.7	1,614.5	1,354.1	1,095.4	1,200.2
3,200	12,113	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,841.5	1,795.5	1,665.3	1,404.9	1,146.2	1,251.0
3,300	12,492	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,905.0	1,859.0	1,728.8	1,468.4	1,209.7	1,314.5
3,400	12,870	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,955.8	1,909.8	1,779.6	1,519.2	1,260.5	1,365.3
3,500	13,249	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,019.3	1,973.3	1,843.1	1,582.7	1,324.0	1,428.8
3,600	13,627	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,082.8	2,036.8	1,906.6	1,646.2	1,387.5	1,492.3
3,700	14,006	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,133.6	2,087.6	1,957.4	1,697.0	1,438.3	1,543.1
3,800	14,385	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,197.1	2,151.1	2,020.9	1,760.5	1,501.8	1,606.6
3,900	14,763	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,247.9	2,201.9	2,071.7	1,811.3	1,552.6	1,657.4
4,000	15,142	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,311.4	2,265.4	2,135.2	1,874.8	1,371.6	2,609.9
4,100	15,520	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,374.9	2,328.9	2,198.7	1,938.3	1,679.6	1,784.4
4,200	15,899	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,438.4	2,392.4	2,262.2	2,001.8	1,743.1	1,847.9
4,300	16,277	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,489.2	2,443.2	2,313.0	2,052.6	1,793.9	1,898.7
4,400	16,656	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,540.0	2,494.0	2,363.8	2,103.4	1,844.7	1,949.5
4,500	17,034	1,192.2	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	See Diagram	See Diagram	See Diagram	2,603.5	2,557.5	2,427.3	2,166.9	1,908.2	2,013.0

**HORIZONTAL BLADDER TANKS - PREPARED ARRANGEMENT**

## **ORDERING INFORMATION**

Please specify the following:

- Type of tank required - Horizontal or Vertical
- Size of tank
- Exterior finish of tank
- Whether required for salt water environment
- Any other options required

*Below is the format for Pre-Piped Chemguard Bladder Tanks:*

**Model:** CHBT-TDP

**Size:** 50 to 4500 Gallon (Horizontal Tanks)

**Exterior Coating (Option 1):**

- |  |  |
|--|--|
| 01 - Red Enamel Exterior/No Internal Coating             | 06 - Red Epoxy Exterior/Custom Internal Coating      |
| 02 - Red Enamel Exterior/Coal Tar Epoxy Internal Coating | 07 - Custom Exterior/No Internal Coating             |
| 03 - Red Enamel Exterior/Custom Internal Coating         | 08 - Custom Exterior/Coal Tar Epoxy Internal Coating |
| 04 - Red Epoxy Exterior/No Internal Coating              | 09 - Custom Exterior/Custom Internal Coating         |
| 05 - Red Epoxy Exterior/Coal Tar Epoxy Internal Coating  |  |

**Proportioner/Foam Type (Option 2):**

01 - 2.5" (C103)	21 - 3" (C103)	41 - 4" (C103)	61 - 6" (C103)	81 - 8" (C103)
02 - 2.5" (C303)	22 - 3" (C303)	42 - 4" (C303)	62 - 6" (C303)	82 - 8" (C303)
03 - 2.5" (CUG)	23 - 3" (CUG)	43 - 4" (CUG)	63 - 6" (CUG)	83 - 8" (CUG)
04 - 2.5" (C603)	24 - 3" (C603)	44 - 4" (C603)	64 - 6" (C603)	84 - 8" (C603)
05 - 2.5" (C363-3)	25 - 3" (C363-3)	45 - 4" (C363-3)	65 - 6" (C363-3)	85 - 8" (C363-3)
06 - 2.5" (C363-6)	26 - 3" (C363-6)	46 - 4" (C363-6)	66 - 6" (C363-6)	86 - 8" (C363-6)
07 - 2.5" (CX)	27 - 3" (CX)	47 - 4" (CX)	67 - 6" (CX)	87 - 8" (CX)
08 - 2.5" (C2)	28 - 3" (C2)	48 - 4" (C2)	68 - 6" (C2)	88 - 8" (C2)
09 - 2.5" (C3FP)	29 - 3" (C3FP)	49 - 4" (C3FP)	69 - 6" (C3FP)	89 - 8" (C3FP)
10 - 2.5" (C301MS)	30 - 3" (C301MS)	50 - 4" (C301MS)	70 - 6" (C301MS)	90 - 8" (C301MS)
11 - 2.5" (C302)	31 - 3" (C302)	51 - 4" (C302)	71 - 6" (C302)	91 - 8" (C302)
12 - 2.5" (C361-3)	32 - 3" (C361-3)	52 - 4" (C361-3)	72 - 6" (C361-3)	92 - 8" (C361-3)
13 - 2.5" (C361-6)	33 - 3" (C361-6)	53 - 4" (C361-6)	73 - 6" (C361-6)	93 - 8" (C361-6)
14 - 2.5" (C601MS)	34 - 3" (C601MS)	54 - 4" (C601MS)	74 - 6" (C601MS)	94 - 8" (C601MS)
U1 - 6" UW (C302)				
U2 - 6" UW (CUG)				

**Foam Discharge Piping (Top)/Foam Trim Valves (Option 3):**

- |  |  |
|--|--|
| 01 - Brass Pipe/Brass Valves - 2.5" Proportioner                         |  |
| 02 - Carbon Steel Pipe/Brass Valves - 2.5" Proportioner                  |  |
| 03 - 316 Stainless Steel Pipe/Stainless Steel Valves - 2.5" Proportioner |  |
| 11 - Brass Pipe/Brass Valves - 3" Proportioner                           |  |
| 12 - Carbon Steel Pipe/Brass Valves - 3" Proportioner                    |  |
| 13 - 316 Stainless Steel Pipe/Stainless Steel Valves - 3" Proportioner   |  |
| 21 - Brass Pipe/Brass Valves - 4" Proportioner                           |  |
| 22 - Carbon Steel Pipe/Brass Valves - 4" Proportioner                    |  |
| 23 - 316 Stainless Steel Pipe/Stainless Steel Valves - 4" Proportioner   |  |
| 31 - Brass Pipe/Brass Valves - 6" Proportioner                           |  |

*(continued on next page)*

- 32 - Carbon Steel Pipe/Brass Valves - 6" Proportioner
- 33 - 316 Stainless Steel Pipe/Stainless Steel Valves - 6" Proportioner
- 41 - Brass Pipe/Brass Valves - 8" Proportioner
- 42 - Carbon Steel Pipe/Brass Valves - 8" Proportioner
- 43 - 316 Stainless Steel Pipe/Stainless Steel Valves - 8" Proportioner
- 51 - Brass Pipe/Brass Valves - 6" UW Proportioner
- 52 - Carbon Steel Pipe/Brass Valves - 6" UW Proportioner
- 53 - 316 Stainless Steel Pipe/Stainless Steel Valves - 6" UW Proportioner

**Water To Tank/Water Trim Valves (Option 4):**

- 01 - Brass Pipe/Brass Valves - 2.5" Proportioner
- 02 - Carbon Steel Pipe/Brass Valves - 2.5" Proportioner
- 03 - 316 Stainless Steel Pipe/Stainless Steel Valves - 2.5" Proportioner
- 11 - Brass Pipe/Brass Valves - 3" Proportioner
- 12 - Carbon Steel Pipe/Brass Valves - 3" Proportioner
- 13 - 316 Stainless Steel Pipe/Stainless Steel Valves - 3" Proportioner
- 21 - Brass Pipe/Brass Valves - 4" Proportioner
- 22 - Carbon Steel Pipe/Brass Valves - 4" Proportioner
- 23 - 316 Stainless Steel Pipe/Stainless Steel Valves - 4" Proportioner
- 31 - Brass Pipe/Brass Valves - 6" Proportioner
- 32 - Carbon Steel Pipe/Brass Valves - 6" Proportioner
- 33 - 316 Stainless Steel Pipe/Stainless Steel Valves - 6" Proportioner
- 41 - Brass Pipe/Brass Valves - 8" Proportioner
- 42 - Carbon Steel Pipe/Brass Valves - 8" Proportioner
- 43 - 316 Stainless Steel Pipe/Stainless Steel Valves - 8" Proportioner
- 51 - Brass Pipe/Brass Valves - 6" UW Proportioner
- 52 - Carbon Steel Pipe/Brass Valves - 6" UW Proportioner
- 53 - 316 Stainless Steel Pipe/Stainless Steel Valves - 6" UW Proportioner

**Fire Water/Foam Solution Piping (Option 5):**

- 01 – Carbon Steel Pipe - 2.5" Proportioner
- 02 – Carbon Steel/Galvanized Pipe - 2.5" Proportioner
- 03 – 316 Stainless Steel Pipe - 2.5" Proportioner
- 11 – Carbon Steel Pipe - 3" Proportioner
- 12 – Carbon Steel/Galvanized Pipe - 3" Proportioner
- 13 – 316 Stainless Steel Pipe - 3" Proportioner
- 21 – Carbon Steel Pipe - 4" Proportioner
- 22 – Carbon Steel/Galvanized Pipe - 4" Proportioner
- 23 – 316 Stainless Steel Pipe - 4" Proportioner
- 31 – Carbon Steel Pipe - 6" Proportioner
- 32 – Carbon Steel/Galvanized Pipe - 6" Proportioner
- 33 – 316 Stainless Steel Pipe - 6" Proportioner
- 41 – Carbon Steel Pipe - 8" Proportioner
- 42 – Carbon Steel/Galvanized Pipe - 8" Proportioner
- 43 – 316 Stainless Steel Pipe - 8" Proportioner
- 51 – Carbon Steel Pipe – 6" UW Proportioner
- 52 – Carbon Steel/Galvanized Pipe - 6" UW Proportioner
- 53 – 316 Stainless Steel Pipe - 6" UW Proportioner

**Sight Glass (Option 6):**

- 01 – None (Brass Trim Piping)
- 02 – None (Carbon Steel Trim Piping)
- 03 – None (316 SS Trim Piping)
- 04 – PVC/Brass Valve
- 05 – PVC/Stainless Steel Valve

*(continued on next page)*

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**Hydraulic Operated Ball Valve (Option 7):**

- 01 - Brass Thd. HOV/Brass Pipe/Brass Valves - 2.5" Proportioner
- 02 - Brass Thd. HOV/Carbon Steel Pipe/Brass Valves - 2.5" Proportioner
- 03 - Stainless Steel Flg. HOV/316 Stainless Steel Pipe/Stainless Steel Valves - 2.5" Proportioner
- 11 - Brass Thd. HOV/Pipe/Brass Valves - 3" Proportioner
- 12 - Brass Thd. HOV/Carbon Steel Pipe/Brass Valves - 3" Proportioner
- 13 - Stainless Steel Flg. HOV/316 Stainless Steel Pipe/Stainless Steel Valves - 3" Proportioner
- 21 - Brass Thd. HOV/Brass Pipe/Brass Valves - 4" Proportioner
- 22 - Brass Thd. HOV/Carbon Steel Pipe/Brass Valves - 4" Proportioner
- 23 - Stainless Steel Flg. HOV/316 Stainless Steel Pipe/Stainless Steel Valves - 4" Proportioner
- 31 - Brass Thd. HOV/Brass Pipe/Brass Valves - 6" Proportioner
- 32 - Brass Thd. HOV/Carbon Steel Pipe/Brass Valves - 6" Proportioner
- 33 - Stainless Steel Flg. HOV/316 Stainless Steel Pipe/Stainless Steel Valves - 6" Proportioner
- 41 - Brass Thd. HOV/Brass Pipe/Brass Valves - 8" Proportioner
- 42 - Brass Thd. HOV/Carbon Steel Pipe/Brass Valves - 8" Proportioner
- 43 - Stainless Steel Flg. HOV/316 Stainless Steel Pipe/Stainless Steel Valves - 8" Proportioner
- 51 - Brass Thd. HOV/Brass Pipe/Brass Valves - 6" UW Proportioner
- 52 - Brass Thd. HOV/Carbon Steel Pipe/Brass Valves - 6" UW Proportioner
- 53 - Stainless Steel Flg. HOV/316 Stainless Steel Pipe/Stainless Steel Valves - 6" UW Proportioner

**Solenoid/Water Regulator For Hydraulic Operated Ball Valve (Option 8):**

- 01 - No Solenoid or Water Regulator
- 02 - Water Regulator Only
- 03 - 24 VDC Solenoid Only
- 04 - 24 VDC Solenoid and Water Regulator
- 05 - 120 VAC Solenoid Only
- 06 - 120 VAC Solenoid and Water Regulator

**Relief Valve (Option 9):**

- 01 - None (Brass Foam Discharge Piping)
- 02 - None (Carbon Steel Foam Discharge Piping)
- 03 - None (316 Stainless Steel Foam Discharge Piping)
- 04 - Thermal Relief Valve
- 05 - ASME (Full Flow), Brass Foam Discharge Piping
- 06 - ASME (Full Flow), Carbon Steel Foam Discharge Piping
- 07 - ASME (Full Flow), 316 Stainless Steel Foam Discharge Piping

**Sample Part Number: CHBT-TDP-200-01-22-11-11-11-04-11-01-01**



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