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.
- 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.

* **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.

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

PRE-PIPED HORIZONTAL BLADDER TANKS

OUTLINE DRAWING AND NORMAL VALVE POSITION CHART

B

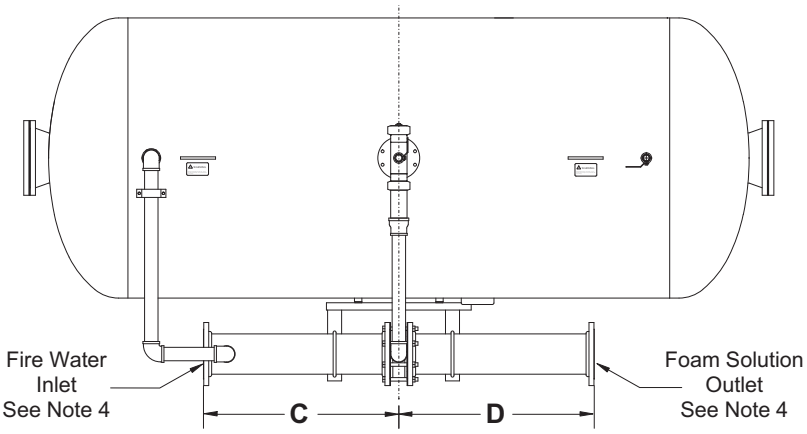
2.5" CR = 33.8" (585.5mm)
3" RC = 32.6" (828.7mm)
4" RC = 42.9" (1089.0mm)
6" RC = 63.4" (1609.7mm)
8" RC = 83.8" (2127.3mm)
6" UW = 72.3 (1835.2mm)

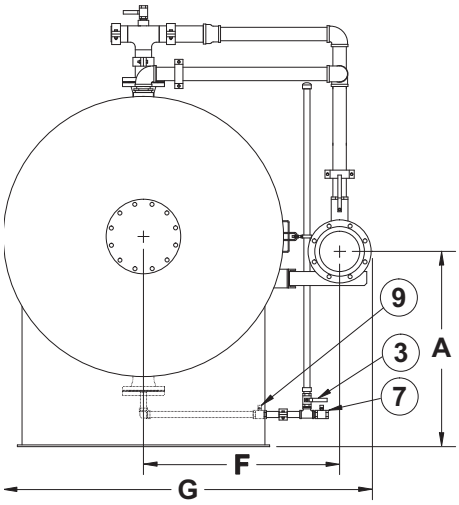
C

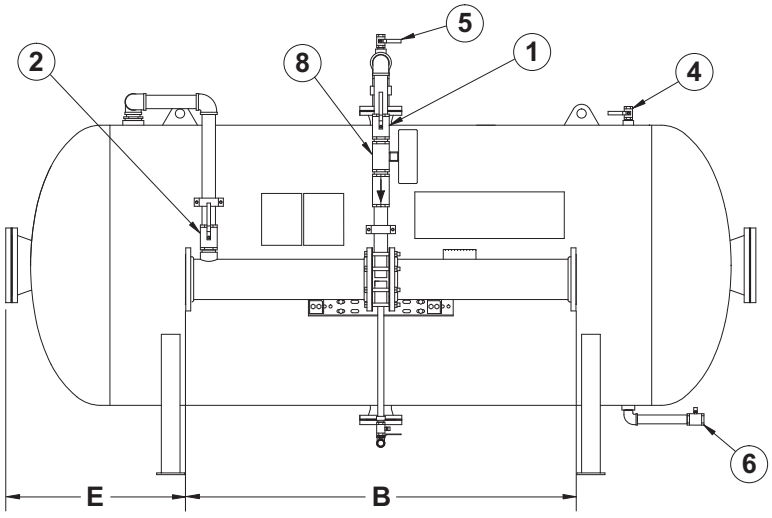
2.5" CR = 14.5" (368.3mm)
3" RC = 16.3" (414.3mm)
4" RC = 21.4" (544.5mm)
6" RC = 31.7" (804.9mm)
8" RC = 41.9" (1063.6mm)
6" UW = 37.8" (958.9mm)

D

2.5" CR = 19.3" (490.2mm)
3" RC = 16.3" (414.3mm)
4" RC = 21.5" (546.1mm)
6" RC = 31.7" (804.9mm)
8" RC = 41.9" (1063.6mm)
6" UW = 34.5" (876.3mm)







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:

1. Dimensions are approximate and subject to change without notice.
2. Dimensions marked with * under column E extend beyond the edge of the tank by the negative indicated.
3. Refer to standard horizontal bladder tank chart for overall and anchor dimensions.
4. Fire water inlet and foam solution discharge supplied with ANSI Class 150 Raised Face Flanges sized to match corresponding ratio flow controller.
5. 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.

Pre-Piped Horizontal Bladder Tanks - Capacity & Dimensions Chart																			
Capacity		Tank Dimensions - Inches																	
Gallons	Liters	A						B	C	D	E							F	G
		2.5" RC	3" RC	4" RC	6" RC	8" RC	6" UW	-	-	-	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	See Diagram	See Diagram	See Diagram	8.3	6.4	1.3	N/A	N/A	N/A	24.0	42.8
75	284	25.9	26.3	26.8	N/A	N/A	N/A	See Diagram	See Diagram	See Diagram	15.8	13.9	8.8	N/A	N/A	N/A	24.0	42.8
100	379	25.9	26.3	26.8	N/A	N/A	N/A	See Diagram	See Diagram	See Diagram	23.3	21.4	16.3	N/A	N/A	N/A	24.0	42.8
150	568	28.9	29.3	29.8	30.8	31.8	30.8	See Diagram	See Diagram	See Diagram	14.8	12.9	7.8	-2.4*	-12.6*	-8.5*	30.0	54.8
200	757	28.9	29.3	29.8	30.8	31.8	30.8	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	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	See Diagram	See Diagram	See Diagram	96.0	94.2	89.1	78.8	68.6	72.8	54.0	102.8
4,300	16,277	46.9	47.3	47.8	48.8	49.8	48.8	See Diagram	See Diagram	See Diagram	98.0	96.2	91.1	80.8	70.6	74.8	54.0	102.8
4,400	16,656	46.9	47.3	47.8	48.8	49.8	48.8	See Diagram	See Diagram	See Diagram	100.0	98.2	93.1	82.8	72.6	76.8	54.0	102.8
4,500	17,034	46.9	47.3	47.8	48.8	49.8	48.8	See Diagram	See Diagram	See Diagram	102.5	100.7	95.6	85.3	75.1	79.3	54.0	102.8

HORIZONTAL BLADDER TANKS - PREPIPED ARRANGEMENT

Pre-Piped Horizontal Bladder Tanks - Capacity & Dimensions Chart																			
Capacity		Tank Dimensions - Millimeters																	
Gallons	Liters	A						B	C	D	E						F	G	
		2.5" RC	3" RC	4" RC	6" RC	8" RC	6" UW	-	-	-	2.5" RC	3" RC	4" RC	6" RC	8" RC	6" UW	-	-	
50	189	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	N/A	609.6	1,085.9	
75	284	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	N/A	609.6	1,085.9	
100	379	658.8	666.8	679.5	N/A	N/A	N/A	See Diagram	See Diagram	See Diagram	590.6	544.5	414.3	N/A	N/A	N/A	609.6	1,085.9	
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*	762.0	1,390.7	
200	757	735.0	743.0	755.7	782.6	808.0	782.6	See Diagram	See Diagram	See Diagram	552.5	506.4	376.2	115.9	-142.2*	-38.1*	762.0	1,390.7	
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	22.2	127.0	762.0	1,390.7	
300	1,136	735.0	743.0	755.7	782.6	808.0	782.6	See Diagram	See Diagram	See Diagram	895.4	849.3	719.1	458.8	200.0	304.8	762.0	1,390.7	
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	469.9	762.0	1,390.7	
400	1,514	735.0	743.0	755.7	782.6	808.0	782.6	See Diagram	See Diagram	See Diagram	1,238.3	1,192.2	1,062.0	801.7	542.9	647.7	762.0	1,390.7	
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	762.0	1,390.7	
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	914.4	1,695.5	
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	914.4	1,695.5	
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	914.4	1,695.5	
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	914.4	1,695.5	
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	914.4	1,695.5	
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	1,219.2	914.4	1,695.5	
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	1,219.2	1,173.2	1,043.0	782.6	523.9	628.7	1,066.8	2,000.3	
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	1,333.5	1,287.5	1,157.3	896.9	638.2	743.0	1,066.8	2,000.3	
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	1,447.8	1,401.8	1,271.6	1,011.2	752.5	857.3	1,066.8	2,000.3	
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	1,562.1	1,516.1	1,385.9	1,125.5	866.8	971.6	1,066.8	2,000.3	
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	1,689.1	1,643.1	1,512.9	1,252.5	993.8	1,098.6	1,066.8	2,000.3	
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	1,270.0	1,224.0	1,093.8	833.4	574.7	679.5	1,219.2	2,305.1	
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	1,346.2	1,300.2	1,170.0	909.6	650.9	755.7	1,219.2	2,305.1	
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	1,422.4	1,376.4	1,246.2	985.8	727.1	831.9	1,219.2	2,305.1	
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	1,511.3	1,465.3	1,335.1	1,074.7	816.0	920.8	1,219.2	2,305.1	
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	1,587.5	1,541.5	1,411.3	1,150.9	892.2	997.0	1,219.2	2,305.1	
2,100	7,949	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	1,206.5	1,160.5	1,030.3	769.9	511.2	616.0	1,371.6	2,609.9	
2,200	8,328	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	1,257.3	1,211.3	1,081.1	820.7	562.0	666.8	1,371.6	2,609.9	
2,300	8,706	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	1,320.8	1,274.8	1,144.6	884.2	625.5	730.3	1,371.6	2,609.9	
2,400	9,085	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	1,371.6	1,325.6	1,195.4	935.0	676.3	781.1	1,371.6	2,609.9	
2,500	9,464	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	1,435.1	1,389.1	1,258.9	998.5	739.8	844.6	1,371.6	2,609.9	
2,600	9,842	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	1,498.6	1,452.6	1,322.4	1,062.0	803.3	908.1	1,371.6	2,609.9	
2,700	10,221	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	1,549.4	1,503.4	1,373.2	1,112.8	854.1	958.9	1,371.6	2,609.9	
2,800	10,599	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	1,612.9	1,566.9	1,436.7	1,176.3	917.6	1,022.4	1,371.6	2,609.9	
2,900	10,978	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	1,676.4	1,630.4	1,500.2	1,239.8	981.1	1,085.9	1,371.6	2,609.9	
3,000	11,356	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	1,727.2	1,681.2	1,551.0	1,290.6	1,031.9	1,136.7	1,371.6	2,609.9	
3,100	11,735	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	1,790.7	1,744.7	1,614.5	1,354.1	1,095.4	1,200.2	1,371.6	2,609.9	
3,200	12,113	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	1,841.5	1,795.5	1,665.3	1,404.9	1,146.2	1,251.0	1,371.6	2,609.9	
3,300	12,492	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	1,905.0	1,859.0	1,728.8	1,468.4	1,209.7	1,314.5	1,371.6	2,609.9	
3,400	12,870	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	1,955.8	1,909.8	1,779.6	1,519.2	1,260.5	1,365.3	1,371.6	2,609.9	
3,500	13,249	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	2,019.3	1,973.3	1,843.1	1,582.7	1,324.0	1,428.8	1,371.6	2,609.9	
3,600	13,627	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	2,082.8	2,036.8	1,906.6	1,646.2	1,387.5	1,492.3	1,371.6	2,609.9	
3,700	14,006	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	2,133.6	2,087.6	1,957.4	1,697.0	1,438.3	1,543.1	1,371.6	2,609.9	
3,800	14,385	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	2,197.1	2,151.1	2,020.9	1,760.5	1,501.8	1,606.6	1,371.6	2,609.9	
3,900	14,763	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	2,247.9	2,201.9	2,071.7	1,811.3	1,552.6	1,657.4	1,371.6	2,609.9	
4,000	15,142	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	2,311.4	2,265.4	2,135.2	1,874.8	1,616.1	1,720.9	1,371.6	2,609.9	
4,100	15,520	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	2,374.9	2,328.9	2,198.7	1,938.3	1,679.6	1,784.4	1,371.6	2,609.9	
4,200	15,899	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	2,438.4	2,392.4	2,262.2	2,001.8	1,743.1	1,847.9	1,371.6	2,609.9	
4,300	16,277	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	2,489.2	2,443.2	2,313.0	2,052.6	1,793.9	1,898.7	1,371.6	2,609.9	
4,400	16,656	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	2,540.0	2,494.0	2,363.8	2,103.4	1,844.7	1,949.5	1,371.6	2,609.9	
4,500	17,034	1,192.2	1,200.2	1,212.9	1,239.8	1,265.2	1,239.8	See Diagram	See Diagram	See Diagram	2,603.5	2,557.5	2,427.3	2,166.9	1,908.2	2,013.0	1,371.6	2,609.9	

HORIZONTAL BLADDER TANKS - PREPIPED 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
02 - Red Enamel Exterior/Coal Tar Epoxy Internal Coating
03 - Red Enamel Exterior/Custom Internal Coating
04 - Red Epoxy Exterior/No Internal Coating
05 - Red Epoxy Exterior/Coal Tar Epoxy Internal Coating
06 - Red Epoxy Exterior/Custom Internal Coating
07 - Custom Exterior/No Internal Coating
08 - Custom Exterior/Coal Tar Epoxy Internal Coating
09 - Custom Exterior/Custom Internal Coating

Proprortioner/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

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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

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