Cemline Steel Tanks



Carbon Steel, Stainless Steel, Galvanized Steel, Copper A.S.M.E. Code, Non-Code







Cemline® Steel Tanks Construction and Design







Vertical Steel Tank with Angle Legs

Cemline manufactures tanks and pressure vessels to suit customer requirements. Tanks are custom fabricated as to size, working pressure, and openings. We can build any tank to whatever configuration is specified. For more information about Cemline products, contact the factory or our representative.

Standard Steel Tank Package

Features

Sizing......Cemline tanks are manufactured in a wide range of sizes. Tank diameter is measured over the outside of the head and length refers to the overall tank length.

Galvanizing......Cemline tanks through 60" diameter can be hot dip galvanized at customer request.

Paint Coatings Cemline tanks can be furnished with interior or exterior coated to customer specifications. Cemline can provide epoxy linings to meet cutomer requirements.

Send Cemline your requirements for a prompt quotation.

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Steel Tanks Gallon Capacities



The dimensions below are for Cemline steel tanks and are actual capacities in gallons.

Capacity Gallons																
Diameter																
Length	12″	14″	16″	18″	20″	24"	30″	36″	42″	48″	54"	60″	66"	72″	84"	96″
2′	11	14	20	22	28	40										
3′	17	22	30	35	44	63										
4′	23	30	40	48	60	87										
5′	30	38	50	61	76	110	170	240	320	410	510	590	740	785	1140	1440
6′	35	46	60	74	92	135	205	290	390	500	620	740	910	1010	1420	1820
7′	41	54	70	87	108	155	245	340	460	590	730	890	1080	1235	1700	2200
8′	47	62	80	100	124	180	280	395	530	680	850	1040	1250	1460	1980	2580
9′						200	315	445	600	770	970	1190	1420	1685	2260	2960
10′						220	350	495	670	860	1085	1330	1595	1880	2540	3340
11′						250	385	545	740	955	1200	1470	1775	2080	2820	3720
12′						265	425	605	810	1050	1310	1610	1940	2280	3105	4090
13′						292	465	650	880	1140	1430	1760	2110	2480	3380	4460
14′						315	500	700	950	1235	1550	1905	2290	2700	3660	4840
15′							535	750	1020	1320	1660	2040	2460	2900	3940	5220
16′							570	800	1090	1410	1780	2190	2630	3100	4220	5590
17′									1160	1500	1900	2330	2800	3325	4500	5960
18′									1230	1590	2015	2475	2980	3520	4780	6340
19′										1680	2130	2620	3150	3720	5060	6720
20′										1770	2240	2760	3320	3920	5340	7090
21′											2360	2910	3500	4140	5620	7460
22′											2470	3060	3670	4340	5900	7840
23′												3210	3840	4550	6180	8220
24′												3360	4010	4750	6460	8590
25′													4180	4960	6740	8960



Cemline steel tanks awaiting shipment.

Tanks



Rectangular Non-pressurized Tank. Cemline steel tanks are available in working pressure from 0# to 500# psi. Normally steel tanks are furnished for 125# working pressure. Openings, both threaded and flanged, can be located in the tank to suit the requirement of the application. typical uses are shown below.

Types	Uses	
Chilled Water Buffer Tanks		to the chiller. The CWB adds volume temperature control, erratic system
System Efficiency Buffer Tanks	the heating system by adding vol cycling and nuance shut downs.	lume to the system preventing short
Flash Tanks		g into low pressure lines and to flash
Condensate Tanks	Condensate tanks are used in stec it is needed to be returned to the k	am systems to store condensate until poiler.
Blow Down Tanks	Blow Down tanks are used to recei to cool before the blow down is di	ive blow-off from boilers and allow it scharged into the sewer system.
Expansion-Compression Tanks	Hydronic Heating Systems	
Air Receiver Tanks	Air storage in air systems.	
Unfired Steam Generators	Generate steam from steam or hig	gh temperature hot water.
Storage Tanks	Storage of liquids, gases or solids.	
Hoppers	For mixing and storage of solids or	liquids.
Tanks for Special Uses	To suit customer requirements.	
Rectangular Tanks	Custom rectangular tanks to meet	customer requirements.
	Any of the above tanks can be supplied in Carbo or Copper Nickel.	on Steel, Stainless Steel, Galvanized Steel,

Non-pressure tanks are also available.

Flash and Blow Down Tanks

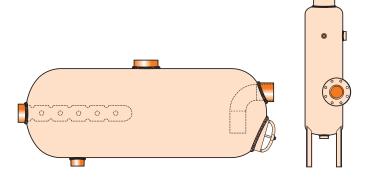


Pressure Tank with Conical Bottom.

Cemline manufactures a variety of flash and blow down tanks which are described in detail in separate brochures. Request brochures from your local representative or contact Cemline.

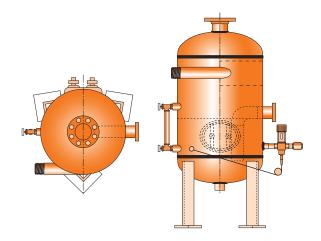
Flash Tanks

Request Cemline "FST Series" brochure.



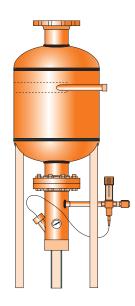
Blow Off Tanks

Request Cemline "BOT Series" brochure.



Centrifugal Blow Off/ Condensate Cooler

Request Cemline "CBO Series" brochure.

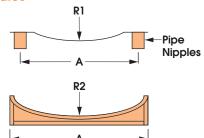


Tank Supports



Cemline offers a variety of supports for both horizontal and vertical tanks. Standard supports are shown below.

Saddles



24" through 36"

R1 = Tank radius (1/2 diameter)

42" through 96"

R2 = Tank radius (1/2 diameter)

Dia.	"A"		
24"	22"		
30"	24"		
36"	26"		
42"	18"		
48"	20"		

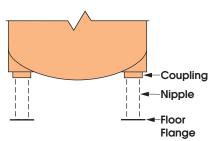
Dia.	"A"		
54"	22"		
60"	24"		
66"	28"		
72"	30"		
84"	42"		
96"	42"		

Note:

Normally two saddles are used on tanks up to 16' length.

Three saddles over 16' tank length.

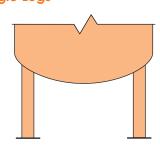
Supports for Pipe Legs



Most popular type of vertical support—Allows installer to level to fit floor by adjusting pipe nipples.

Tank Diameter	Coupling Size	Number of Flanges
12" - 20"]"	3
24" - 36"	1 1/2"	3
42"	2"	4
48"	2"	4
54" - 60"	2 1/2"	4
72" - up	3"	4

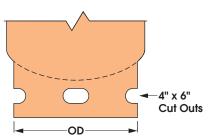
Angle Legs



Tanks can be furnished with three or four angle legs.

Tank Diameter	Angle Size	Number of Legs
24" - 30"	1 1/2" x 1 1/2" x 3/16"	3
36"	2" x 2" x 1/4"	3
42" - 48"	3" x 3" x 1/4"	4
54" - 60"	3" x 3" x 1/4"	4
66" - up	4" x 4" x 1/4"	4

Ring Base

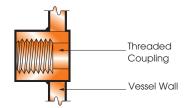


Normally used with air receivers—not recommended for water tanks as external corrosion can occur in ring.

Note:

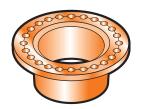
Outside diameter of ring is 6" less than diameter of tank.

Openings in Tanks



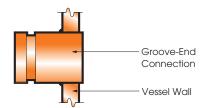
Threaded Openings

NPT (National Pipe Thread) openings are available from 1/4" through 3". Normally openings above this size are flanged.



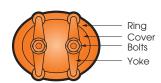
Flanged Openings

Flanged openings are available from 1" through 24". Normally ANSI Standard flanges are 150# rating. Flanged openings of other styles and pressures are available.



Groove-End Connections

Groove- end connections are furnished as required. 6" and below are schedule 40 pipe, 8" and above are schedule 30 pipe.

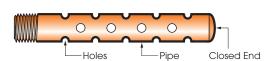


Manholes and Handholes

Manholes are furnished in the following sizes:

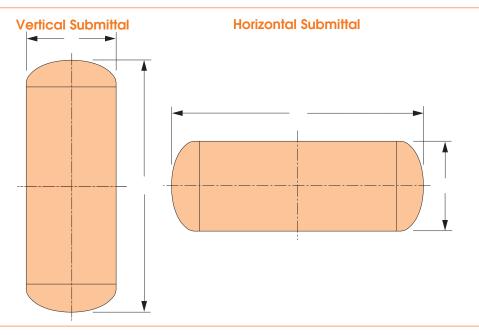
12" x 16" 14" x 18" Handholes are furnished in the following sizes:

4" x 6" 6" x 8"



Internal Pipes

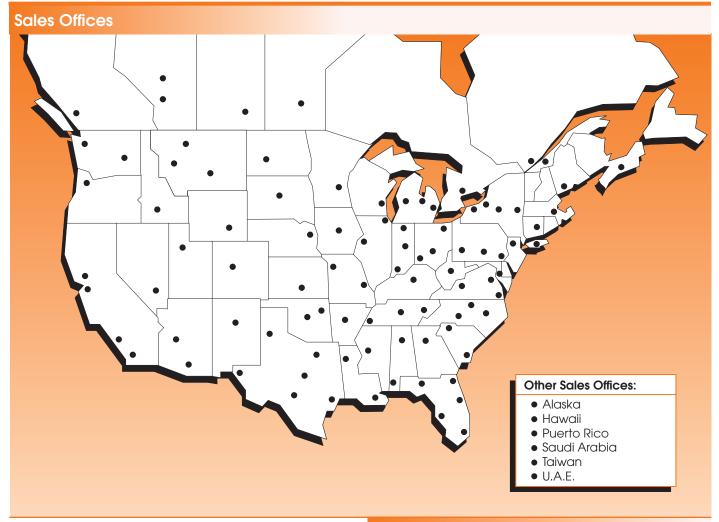
Internal pipes and perforated pipes in all sizes can be furnished.





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CEMLINE CORPORATION P.O. BOX 55 CHESWICK, PENNSYLVANIA 15024

Phone: (724) 274-5430 FAX: (724) 274-5448