

Instruction Sheet

CW Expansion/Storage Tanks

SUPERSEDES: New

EFFECTIVE: August 1, 2010

- Note location on the tank of the system connection (bottom) and charging valve enclosure (top 1 1/2" enclosure). Note labels are provided on the tank or refer to Figure No. 1 (Location of Tank Fittings).
- Carefully remove the threaded connection on the system connection. Pause before completely removing to allow any trapped air to escape without "popping" the plug. There should not be much, if any, air pressure under this plug.

CAUTION: Do not remove the pipe plugs (located on the tank side and bottom) or the flanged covers (at the top and bottom). These closures should never be removed unless necessary and then only after the air pressure within the tank has been bled off to zero gauge pressure and the tank has been isolated from the system with a shut-off valve.

Before bleeding off any air from the air charge always isolate the tank from the system with a shut-off valve.

- Before making any connections to the tank, check the tank air charge. Use an accurate automotive or similar type gauge on the air valve located near the top of the tank. The air charge pressure must be equal to the minimum specified system pressure for the system. Refer to the label on the tank for the factory supplied pre-charge pressure. Use Figure No. 2 (Air Charge Check Chart) to correct the value read on the pressure gauge for the ambient temperature at the tank location.
- The pipe connection to the system may now be made. Pitch the piping connection up away from the tank and use automatic air vents where necessary to prevent air from accumulating within the tank.
- A combination shut-off and drain valve should be located in the connection piping to provide for tank isolation during the initial hydrostatic system testing and future maintenance.

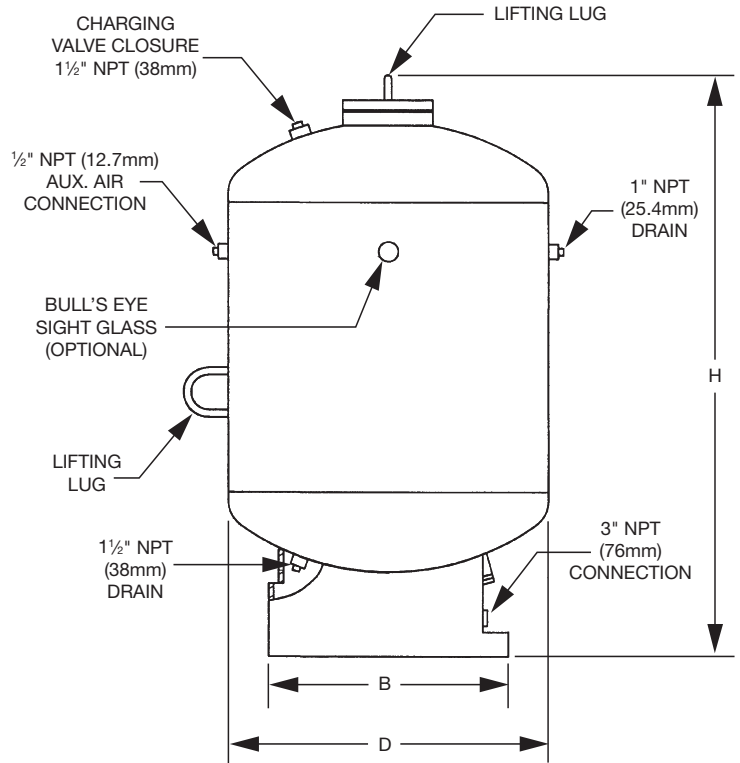


Figure No. 1 – Location of Tank Fittings

Specified Pre-Charge Pressure P.S.I. (at 68°F)	Ambient Temperature (°F)								
	36	44	52	60	68	76	84	92	100
12	10.4	10.8	11.2	11.6	12.0	12.4	12.8	13.2	13.6
20	17.9	18.4	18.9	19.5	20.0	20.5	21.1	21.6	22.1
30	27.3	28.0	28.6	29.3	30.0	30.7	31.4	32.0	32.7
40	36.7	37.5	38.2	39.2	40.0	40.8	41.6	42.5	43.3
50	46.1	47.1	48.0	49.0	50.0	51.0	52.0	52.9	53.9
60	55.5	56.6	57.7	58.9	60.0	61.1	62.3	63.4	64.5
70	64.9	66.1	67.4	68.7	70.0	71.3	72.6	73.9	75.1

Figure No. 2 – Air Charge Check Chart

