



## Hydropneumatic Tanks

HT-1120

Hydropneumatic Tanks (HPT) are ASME vessels that contain both water and air under pressure. They provide an adequate “quick demand” water supply and help regulate proper system pressure range, both necessary for the efficient operation of a water supply system.

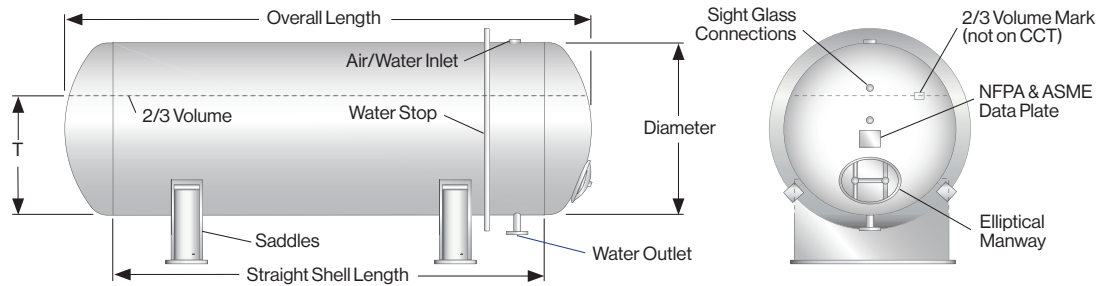
They are used in large capacity pumping systems as “buffer tanks” to control surges caused by pump start-ups and shutdowns, and they absorb water hammer shocks due to rapid valve actuations eliminating catastrophic failure of pipeline, pumps, valves and system control loss.

Other common applications are in well water systems and fire protection systems. HPT are lined with epoxy or polyurethane potable water linings. They are often located aboveground or underground, with one head protruding into a vault or basement.

All of the fittings are located on the head located inside the building or vault. Vessels installed underground are furnished with advanced corrosion protection systems.

**Premium ASME Pressure Vessels  
from the Industry Leader**

# Drawing & Details



Volume 100% - 2/3 Gallons	Nominal Dimensions Straight Shell Diameter	Length	Depth of ASME Head Inches	Overall Length	T Dimension @2/3Volume
300 - 200	3'-0"	5'-0"	10.5	6'-9"	22"
500 - 330	3'-6"	6'-0"	12.0	8'-0"	26"
1,000 - 667	4'-0"	10'-0"	13.5	12'-3"	29"
1,500 - 1,000	4'-0"	15'-6"	13.5	17'-9"	29"
2,000 - 1,320	4'-0"	21'-0"	13.5	23'-3"	29"
2,000 - 1,320	4'-6"	16'-0"	15.0	18'-6"	33"
3,000 - 2,000	4'-0"	32'-0"	13.5	34'-3"	29"
3,000 - 2,000	4'-6"	24'-6"	15.0	27'-0"	33"
3,000 - 2,000	5'-0"	20'-0"	16.5	22'-9"	36"
4,000 - 2,640	5'-0"	28'-0"	16.5	30'-9"	35"
4,000 - 2,640	6'-0"	18'-0"	19.5	21'-3"	44"
5,000 - 3,300	6'-0"	24'-0"	19.5	27'-3"	42"
5,000 - 3,300	7'-0"	16'-0"	22.5	19'-9"	51"
6,000 - 4,000	6'-0"	28'-0"	19.5	31'-3"	44"
6,000 - 4,000	7'-0"	20'-0"	22.5	23'-9"	51"
7,000 - 4,620	7'-0"	24'-0"	22.5	27'-9"	50"
7,500 - 5,000	7'-0"	25'-0"	22.5	28'-9"	52"
7,500 - 5,000	8'-0"	18'-6"	25.5	22'-9"	59"
8,000 - 5,280	7'-0"	27'-0"	22.5	30'-9"	51"
8,000 - 5,280	8'-0"	20'-0"	25.5	24'-3"	58"
9,000 - 6,000	7'-0"	30'-0"	22.5	33'-9"	52"
9,000 - 6,000	8'-0"	22'-2"	25.5	26'-5"	60"
10,000 - 6,600	8'-0"	25'-0"	25.5	29'-3"	59"
12,000 - 8,000	8'-0"	31'-0"	25.5	35'-3"	59"
15,000 - 10,000	8'-0"	40'-0"	25.5	44'-3"	58"
20,000 - 13,200	10'-0"	32'-0"	31.5	37'-3"	74"
25,000 - 16,500	10'-6"	38'-0"	33.0	43'-6"	75"
30,000 - 20,000	10'-6"	44'-0"	33.0	49'-6"	79"

**Notes:**

- Tanks are built in accordance with the latest edition of the ASME Unfired Pressure Vessel Code. All ASME vessels are welded, tested and inspected per ASME Code requirements and the stamped name plate.
- Thicknesses are calculated per ASME Section VIII, Division I – UG 27.
- Fitting details/locations are typical.
- 11" X 15" elliptical manway is typical for an inspection opening. All lined vessels require a 12" X 16" minimum elliptical manway.
- Tanks with different/larger volumes, dimensions and pressures are available upon request.
- ASME stamped vessels are required in most states. Where applicable, non-code hydropneumatic tanks are available upon request.

All Highland Tank storage tank drawings are available for viewing or downloading in PDF or AutoCAD DXF format at [highlandtank.com](http://highlandtank.com)



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