

**Built on Tradition**



**Highland Tank®**



## ASME Fire Protection Vessels

HT-1122

Fire Protection Tanks (FPT) are hydropneumatic water storage tanks specifically designed for use in private fire protection systems.

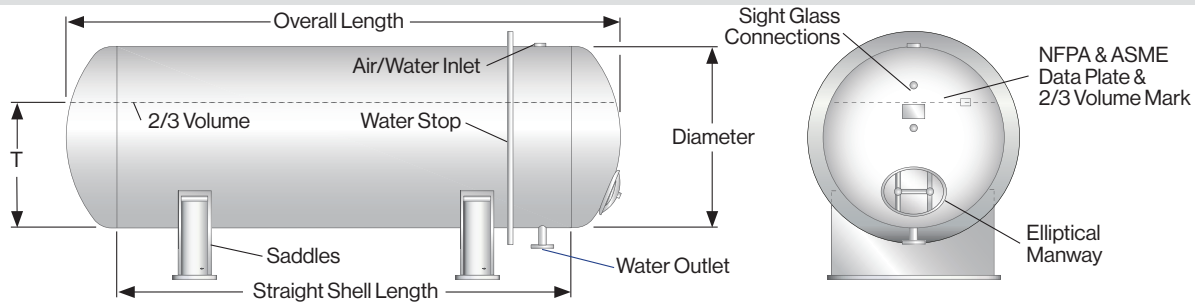
These ASME pressure vessels are required by fire codes in many commercial, industrial and institutional buildings for use with automatic sprinkler systems for fire suppression. FPT are designed, fabricated, tested, inspected and installed in accordance with the National Fire Protection Association NFPA Standard No. 22, "Water Tanks for Private Fire Protection."

During normal operation, this ASME pressure vessel is filled with water to 2/3 the volume of the tank and then pressurized with air to 125 psi. FPT can be located underground with all of the fittings located on one head that protrudes into the basement or a vault.

The outlet flange is located at the bottom of the vessel near this head and projects a minimum of 4" into the vessel. A water-stop with link-seal prevents water intrusion. FPT are fully compliant with factory-applied internal and external coatings with optional cathodic protection system on the buried end of the vessel.

**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:**

1. 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.
2. Thicknesses are calculated per ASME Section VIII, Division I – UG 27.
3. Fitting details/locations are typical.
4. 11" X 15" elliptical manway is typical for an inspection opening. All lined vessels require a 12" X 16" minimum elliptical manway.
5. Tanks with different/larger volumes, dimensions and pressures are available upon request.
6. 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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