

INSTALLATION AND OPERATING INSTRUCTIONS

AET Series

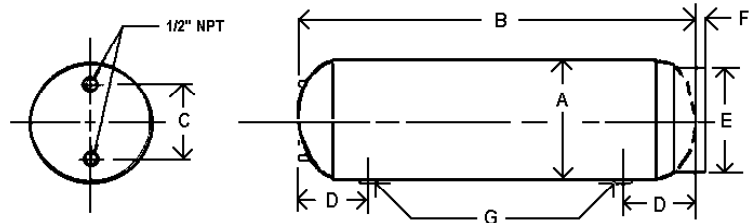
(Vertical and Horizontal Mount)

ASME PLAIN STEEL EXPANSION TANKS FOR HEATING & COOLING SYSTEMS

VESSEL DESCRIPTION

Armstrong Type AET Tanks are ASME constructed, plain steel, expansion tanks. They are designed to absorb the expansion forces and control the pressure in heating / cooling systems.

The system's expanded water enters the tank and further compresses the pressure controlling air cushion.



CONSTRUCTION DETAILS

MATERIALS OF CONSTRUCTION	
Shell	Carbon Steel
Heads	Carbon Steel

MAXIMUM OPERATING CONDITIONS		
Working Temperature		450°F (232°C)
Working Pressure	Models AET 12X33 to AET 16x72	150 psi (1034 kPa)
	Models AET 20X62 to AET 42x96	125 psi (862 kPa)

STEPS & PROCEDURE

- Visually inspect tank for damage, which may occur during transit..
- Install sight-glass trim as required by design engineer.
- Set tank in place and pipe system connection to system. Be sure to include isolation valve(s) and drain.
- Allow system water to enter and compress tank air cushion. Approximately one half (1/2) of the tank volume will be displaced with system water to reach 15 psi.
- The following table is a guideline to achieve proper water level:

System Fill Pressure (psi)	Water Volume (%)	Air Volume (%)
12	45	55
15	50	50
20	58	42
25	63	37
30	67	33
35	70	30
40	73	27

- It is recommended that the sight-glass water level be checked every six (6) months to ensure proper system protection and vessel's long-life.
- If tank becomes waterlogged, isolate tank and drain off stored water. Then, re-introduce system water into the tank and observe water level.

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