

SYMBOLS FOR HEATING, VENTILATING AND AIR CONDITIONING DRAWINGS⁵

1. The objects of this standard set of symbols are to insure the correct interpretation of drawings and to conserve drafting room time by establishing simple and unmistakable symbols for the component parts of the heating and ventilating systems. In preparing the list of symbols an effort has been made to follow existing practice in so far as possible but the list cannot be expected to match exactly the existing practice of every drafting room.

1. General Piping		6. Air Piping	
2. Steam Piping		7. Vacuum Piping	
3. Condensate Piping		8. Gas Piping	
4. Cold Water Piping		9. Refrigerant Piping	
5. Hot Water Piping		10. Oil Piping	
11. Lock and Shield Valve		23. Indirect Radiator Plan	
12. Reducing Valve		24. Indirect Radiator Elevation	
13. Diaphragm Valve		25. Supply Duct, Section	
14. Thermostat		26. Exhaust Duct, Section	
15. Radiator Trap Elevation		27. Butterfly Damper Plan (or Elevation)	
16. Radiator Trap Plan		28. Butterfly Damper Elevation (or Plan)	
17. Tube Radiator Plan		29. Deflecting Damper Rectangular Pipe	
18. Tube Radiator Elevation		30. Vanes	
19. Wall Radiator Plan		31. Air Supply Outlet	
20. Wall Radiator Elevation		32. Exhaust Inlet	
21. Pipe Coil Plan			
22. Pipe Coil Elevation			

⁵From A.S.H.V.E. Code of Minimum Requirements for the Heating and Ventilation of Buildings, edition of 1929, and American Standard Drawings and Drafting Room Practice Graphical Symbols (American Standards Association, Z14.2—1935).

33. Joint
34. Elbow—90 deg
35. Elbow—45 deg
36. Elbow—Turned Up
37. Elbow—Turned Down
38. Elbow—Long Radius
39. Side Outlet Elbow—Outlet Down
40. Side Outlet Elbow—Outlet Up
41. Base Elbow
42. Double Branch Elbow
43. Single Sweep Tee
44. Double Sweep Tee
45. Reducing Elbow
46. Tee
47. Tee—Outlet Up
48. Tee—Outlet Down
49. Side Outlet Tee—Outlet Up
50. Side Outlet Tee—Outlet Down
51. Cross

Flanged	Screwed	Bell and Spigot	Welded	Soldered