Pressure

1 lb per square inch	=	144 lb per square foot 2.0421 in. mercury at 62 F 2.309 ft water at 62 F 27.71 in. water at 62 F
1 oz per square inch	=	0.1276 in. mercury at 62 F 1.732 in. water at 62 F
1 atmosphere	=	14.7 lb per square inch 2117 lb per square foot 33.9 ft water at 62 F 30 in. mercury at 62 F 29.921 in. mercury at 32 F
1 in. water at 62 F	=	0.03609 lb per square inch 0.5774 oz per square inch 5.196 lb per square foot
1 ft water at 62 F	=	0.433 lb per square inch 62.35 lb per square foot
1 in. mercury at 62 F	=	0.49 lb per square inch 7.84 oz per square inch 1.131 ft water at 62 F 13.58 in. water at 62 F

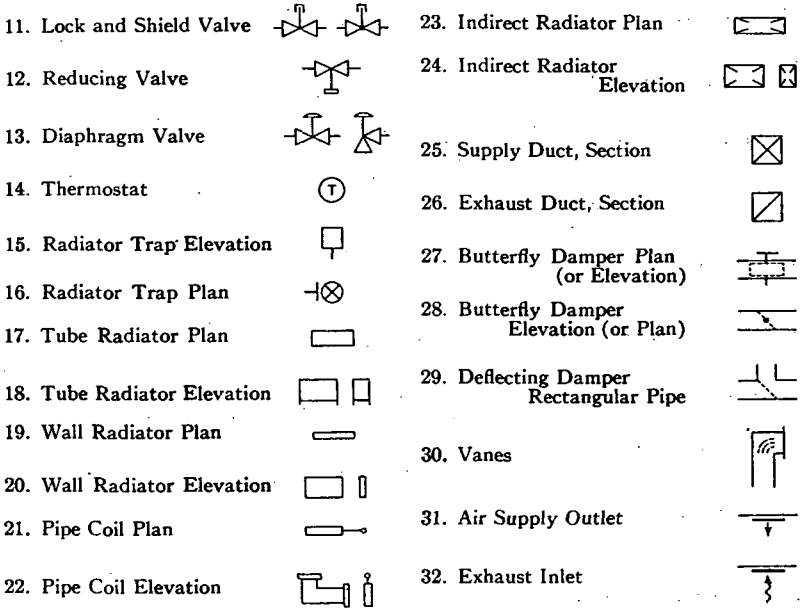
Metric Units

1 cm	= 0.3937 in.
1 in.	= 2.540 cm
1 m	= 3.281 ft
1 ft	= 0.3048 m
1 sq cm	= 0.155 sq in.
1 sq in.	= 6.452 sq cm
1 sq m	= 10.76 sq ft
1 sq ft	= 0.0929 sq m
1 cu cm	= 0.06102 cu in.
1 cu in.	= 16.39 cu cm
1 cu m	= 35.31 cu ft
1 cu ft	= 0.02831 cu m
1 liter	= 1000 cu cm = 0.2642 gal
1 kg	= 2.205 lb (avdp)
1 lb	= 0.4536 kg
1 metric ton	= 2205 lb (avdp)
1 gram	= 0.002205 lb (avdp)
1 kilometer per hour	= 0.6214 mph
1 gram per square centimeter	= 0.02905 in. mercury at 62 F 0.3944 in. water at 62 F
1 kg per sq cm (metric atmosphere)	= 14.22 lb per square inch
1 gram per cubic centimeter	= 0.03613 lb per cubic inch 62.43 lb per cubic foot
1 dyne	= 0.00007233 poundals
1 joule	= 10,000,000 ergs 0.7376 ft-lb
1 metric horsepower	= 75 kg-m per second 0.986 hp (U. S.)
1 kilogram-calorie per kilogram	= 1.8 Btu per pound
1 gram-calorie per square centimeter	= 3.687 Btu per square foot
1 gram-calorie per square centimeter per centimeter	= 1.452 Btu per sq ft per inch
1 gram-calorie per second per square centimeter for a temperature gradient of 1 deg C per centimeter.	= 2903 Btu per hour per square foot for a temperature gradient of 1 deg F per inch of thickness.

SYMBOLS FOR HEATING, VENTILATING AND AIR CONDITIONING DRAWINGS[6]

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 insofar as possible but the list cannot be expected to match exactly the existing practice of every drafting room.

1. General Piping
2. Steam Piping
3. Condensate Piping
4. Cold Water Piping
5. Hot Water Piping
6. Air Piping
7. Vacuum Piping
8. Gas Piping
9. Refrigerant Piping
10. Oil Piping



[6]From 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).