Helpful Equations

- To find the circumference of a circle, multiply diameter by 3.1416.
- To find the diameter of a circle, multiply circumference by .31831.
- To find the area of a circle, multiply square of diameter by .7859.
- To find the area of a triangle, multiply base by 1/2 perpendicular height.
- To find the area of a parallelogram, multiply base by height.
- To find cubic inches in a ball, multiply cube of diameter by .5236.
- To find cubic contents of a cone, multiply area of base by 1/3 the altitude.
- To find the area of an ellipse, multiply product of both diameters by .7854.
- Doubling the diameter of a pipe increases its capacity 4 times.
- A gallon of water (U.S. Standard) weighs 8 1/3 lbs. and contains 231 cubic inches.
- To find the pressure in pounds per sq. inch of a column of water, multiply the height of the column in feet by .434.
- To find capacity of tanks any size, given dimensions of a cylinder in inches, to find its capacity in U.S. gallons: square the diameter, multiply by the length and by .0034.
- Pipe and round tube weight per foot: O.D. in inches minus wall thickness x wall thickness x 10.68.