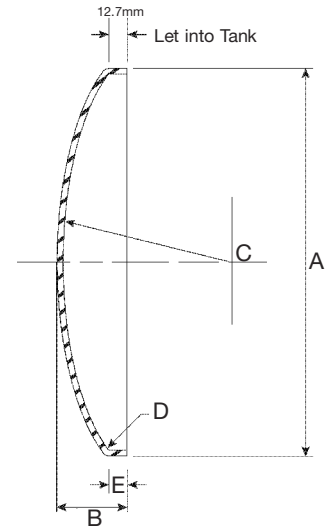


Other Information

Volumes & Surface Areas

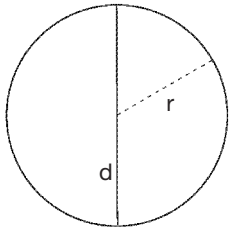
Dished End

A Diameter	B Height	C Spherical Radius	D Corner Radius	E Straight Flange	Volume of Two Ends (litres)
1494	192	2286	38	38	340
1900	210	3200	38	38	613
2486	447	2500	95	30	2462
2743	335	3600	38	38	2201
2984	575	3000	180	35	4808
3350	472	3810	50	50	4850
4000	596	4000	38	38	8792

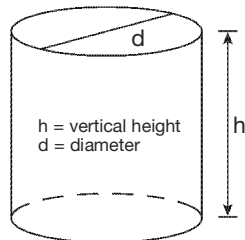


Circle

Area = πr^2 or $\pi d^2/4$
Circumference = πd or $2\pi r$

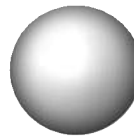


Cylinder



Volume = $\frac{\pi d^2}{4} \times h$
Surface Area Ends = $\frac{\pi d^2}{4} \times 2$
Surface Area of Cylinder = $\pi d \times h$

Sphere



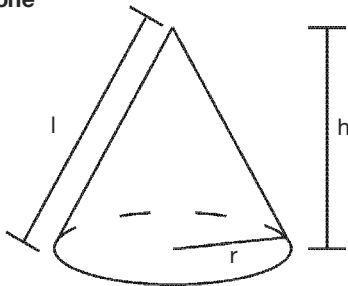
Volume = $\frac{4}{3} \pi r^3$
Surface Area = $4 \pi r^2$

Rectangle

Area = LB
Perimeter = 2L + 2B



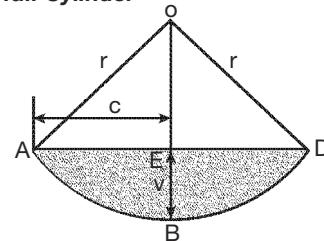
Cone



Volume = $\frac{1}{3} \pi r^2 h$ (h=vertical height)
Curved Surface Area = $\pi r l$ (l = slant height)
Total Surface Area = $\pi r l + \pi r^2$

Calculation of Volume. Part full Cylinder

c = half length of cord
r = radius
v = versed sine = rise
 $r = \frac{v^2 + c^2}{2v}$
 $v = r - \sqrt{r^2 - c^2}$
 $c = \sqrt{v(2r-v)}$



Areas
Sector OABD = $\frac{1}{2}$ (Length of arc. ABD x Radius, r)
 $\frac{\text{area of circle} \times \text{angle AOD in degrees}}{360} = \frac{\pi \cdot r^2 \cdot \alpha}{360}$
Segment ABDE = area of sector OABD minus area of triangle OAD.

Useful Conversions

To convert	Multiply by
Metres - Yards	1.0936
Metres - Feet	3.2808
Millimetres - Inches	0.0394
Yards - Metres	0.9144
Feet - Metres	0.3048
Inches - Millimetres	25.40
Sq. Metres - Sq. Yards	1.196
Sq. Metres - Sq. Feet	10.7639
Sq. Yards - Sq. Metres	0.8361
Sq. Feet - Sq. Metres	0.0929

To convert	Multiply by
Cu. Metres - Cu. Yards	1.3079
Cu. Metres - Cu. Feet	35.3146
Cu. Yards - Cu. Metres	0.7645
Cu. Feet - Cu. Metres	0.0283
Litres - Gallons	0.2199
Litres - Pints	1.7598
Gallons - Litres	4.5459
Pints - Litres	0.5682
Tonnes - Tons	0.984
Kilos - Pounds	2.2046

To convert	Multiply by
Grammes - Ounces	0.0353
Tons - Tonnes	1.016
Pounds - Kilos	0.4536
Ounces - Grammes	28.3495
p.s.i - bar	0.069
Bar - p.s.i	14.50
p.s.i - kN/m ²	6.985
kN/m ² - p.s.i	0.1432
Cu. Feet - Gallons	6.25
°C - °F	1.8 (+ 32)