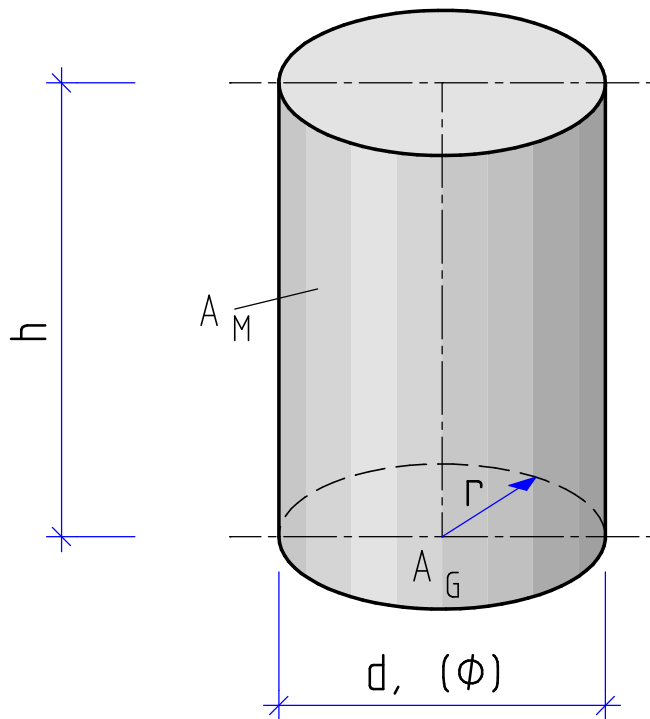


Zylinder



d = Durchmesser

r = Radius

h = Höhe

V = Volumen

A_0 = Oberfläche

A_G = Grundfläche

A_M = Mantelfläche

U = Umfang der
Grundfläche

π = 3,1416

Volumen: $[m^3]$

$$V = r^2 * \pi * h$$

$$V = \frac{d^2 * \pi}{4} * h$$

oder

$$V = A_G * h$$

Oberfläche: $[m^2]$

$$A_0 = A_M + 2 * A_G$$

$$A_M = U_G * h$$

$$U_G = 2 * r * \pi$$

$$A_G = r^2 * \pi$$

$$A_0 = 2 * r * \pi * h + 2 * r^2 * \pi$$