

# HYDRAULICS

$$\rho = \frac{m}{v} : \frac{kg}{m^3} \text{ Density}$$

$$V_s = \frac{1}{\rho} : \frac{m^3}{kg} \text{ Specific Volume}$$

$$\gamma = \frac{w}{v} = \rho g : \frac{N}{m^3} \text{ Unit Weight}$$

$$G_s = \frac{\rho_s}{\rho_w} = \frac{\rho_s}{\rho_w} = \frac{\gamma_s}{\gamma_w} \text{ Specific gravity}$$

water at 4°C  
 $\gamma = 62.5 \text{ lb/ft}^3 = 9.81 \text{ kN/m}^3$   
 $\rho = 1.94 \text{ slugs/ft}^3 = 1000 \text{ kg/m}^3$   
 $s = 1$

$$\mu = \frac{\tau}{\frac{du}{dy}} : \text{po} : \text{sec Absolute Viscosity}$$

where  
 $\tau = \text{lb/ft}^2 \text{ or Pa}$   
 $\mu = \text{lb} \cdot \text{sec/ft}^2 \text{ or Pa} \cdot \text{sec}$   
 $y = \text{ft or m}$   
 $U = \text{ft/s or m/s}$

$$\nu = \frac{\mu}{\rho} : \text{m}^2/\text{s Kinetic Viscosity}$$

where  
 $\mu = \text{Pa} \cdot \text{sec}$   
 $\rho = \text{kg/m}^3$   
 note:  
 1 poise = 1 dyne · s/cm<sup>2</sup>  
 1 stroke = 0.0001 m<sup>2</sup>/s  
 1 dyne = 10<sup>-5</sup> N

$$p = \frac{4\sigma}{d} : \frac{N}{m} \text{ Surface Tension } \sigma$$

$$h = \frac{4\sigma \cos \theta}{\gamma d} : \text{m Capillary}$$

$$h = \frac{4\sigma}{\gamma d} : \text{m Capillary (non circular)}$$

$$h = \frac{2\sigma \cos \theta}{\rho g r} : \text{m Capillary (tube)}$$

$$I_g = \frac{bh^3}{36} : \text{Triangle}$$

Flow rate

$Q = Av$  : Volume flow rate

$M = \rho Q$  : Mass flow rate

$W = \gamma Q$  : Weight flow rate

where

$Q$  = discharge : m<sup>3</sup>/s

$A$  = cross-sectional Area m<sup>2</sup>

$v$  = velocity : m/s

$\rho$  = density : kg/m<sup>3</sup>

$\gamma$  = weight density : N/m<sup>3</sup>

$z$  : Elevation Head

$$E_s = \frac{\Delta P}{\frac{\Delta V}{V}} : \text{MPa Bulk Modulus}$$

$$\beta = \frac{1}{E_s} : \frac{1}{\text{MPa}} \text{ Compressibility}$$

$$p = \frac{P}{RT} : \text{Ideal Gas}$$

where

$P$  = absolute Pressure : Pa

$R$  = J/kg · °K

$T$  = °K

$R = 287 \text{ J/kg} \cdot \text{°K} = 1.716 \text{ lb} \cdot \text{ft/slug} \cdot \text{°K}$

°K = °C + 273 = °F + 460

$$\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2} : \text{New Ideal Gas}$$

$$P_1 V_1 = P_2 V_2 : \text{Isothermal}$$

$$\frac{V_1}{T_1} = \frac{V_2}{T_2} : \text{Isobaric}$$

$$C = \sqrt{\frac{E_s}{\rho}} = \sqrt{\frac{1}{\beta \rho}} : \text{Pressure Disturbance}$$

$$P_{abs} = P_{gauge} + P_{atm} \text{ Pressure abs}$$

$P_{atm} = 101.325 \text{ kPa}$

$$p = \frac{F}{A} : \text{stress formula}$$

$$h = \frac{p}{\gamma} : \text{m Pressure Head}$$

$$F = pA : \text{N force on plane surface}$$

$$F = \gamma \bar{h} A \text{ Force}$$

$\bar{h}$  = distance from centroid

$$F = pA : \text{N force on plane surface}$$

$$I_g = \frac{bh^3}{12} : \text{Triangle}$$

$$Q_1 = Q_2 = Q_3$$

$$A_1 v_1 = A_2 v_2 = A_3 v_3 : \text{Incompressible}$$

$$\rho_1 A_1 v_1 = \rho_2 A_2 v_2 = \rho_3 A_3 v_3 : \text{Compressible}$$

$$\gamma_1 A_1 v_1 = \gamma_2 A_2 v_2 = \gamma_3 A_3 v_3 : \text{Compressible}$$

$$\frac{v^2}{2g} : \text{Velocity Head}$$

$$\frac{p}{\gamma} : \text{Pressure Head}$$

$$E = \frac{v^2}{2g} + \frac{p}{\gamma} + z : \text{Total Head}$$

$$T = \frac{PD}{2} : \text{Tensile Force}$$

$$s = \frac{PD}{2t} : \text{Tensile (thickness)}$$

$$P = \gamma_w h : \text{Kpa Pressure}$$

$$Bf = W : \text{Bouyancy Force}$$

$$\gamma V = W$$

$$Bf = W_{obj} + W_{applied} : \text{Total BF}$$

$$\tan \theta = \frac{a}{g} : \text{Horizontal}$$

$$\tan \theta = \frac{a_h}{g \pm a_v} : \text{Inclined}$$

$$p = \delta h \left( 1 \pm \frac{a}{g} \right) : \text{Vertical}$$

Note:

downward -  
 upward +  
 acceleration +  
 deceleration -

Rotating Vessels

$$y = \frac{\omega^2 r^2}{2g} : (\text{radius})$$

$$y = \frac{\omega^2 x^2}{2g} : (x \text{ is given})$$

where

$\omega$  = Angular velocity (rpm)

$y$  = height

note

$$1 \text{ rev} = 2\pi \text{ rad}$$

$$1 \frac{\text{rad}}{\text{sec}} = \frac{30}{\pi} \text{ rpm}$$

$P = Q\gamma E$  : Power

$$\eta = \frac{\text{Output}}{\text{Input}} \times 100\% : \text{Efficiency}$$

note

$$1 \text{ hp} = 746 \text{ Watts} = 550 \text{ ft} \cdot \text{lb/sec}$$

$$1 \text{ watt} = 1 \text{ N} \cdot \text{m/s} = 1 \text{ joules/sec}$$

$$RN = \frac{VD}{\nu} : \text{Reynolds Number}$$

Where

$V$  = Velocity

$D$  = Inside Diameter

$\nu$  = kinetic Density

$$RN = \frac{VD}{\nu}$$

where

$\rho$  = density

$\mu$  = dynamic viscosity

note

< 2100 - Laminar

> 2100 - turbulent

# Hidrolic Engineering Formulas

**Dr. Ashay Devidas Shende, Dr.  
Shrikant Arunrao Tekade, Prof.  
Mahendra Umare**



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