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Dash-Pot Mechanism Formulas

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List of 36 Dash-Pot Mechanism Formulas

Dash-Pot Mechanism ↗

1) Length of Piston for Pressure Drop over Piston ↗

$$fx \quad L_P = \frac{\Delta P f}{\left(6 \cdot \mu_{\text{viscosity}} \cdot \frac{v_{\text{piston}}}{C_R^3}\right) \cdot (0.5 \cdot D + C_R)}$$

[Open Calculator ↗](#)

$$ex \quad 4.963235m = \frac{33Pa}{\left(6 \cdot 10.2P \cdot \frac{0.045m/s}{(0.45m)^3}\right) \cdot (0.5 \cdot 3.5m + 0.45m)}$$

2) Length of Piston for Shear Force Resisting Motion of Piston ↗

$$fx \quad L_P = \frac{F_s}{\pi \cdot \mu_{\text{viscosity}} \cdot v_{\text{piston}} \cdot \left(1.5 \cdot \left(\frac{D}{C_R}\right)^2 + 4 \cdot \left(\frac{D}{C_R}\right)\right)}$$

[Open Calculator ↗](#)

$$ex \quad 5.122097m = \frac{90N}{\pi \cdot 10.2P \cdot 0.045m/s \cdot \left(1.5 \cdot \left(\frac{3.5m}{0.45m}\right)^2 + 4 \cdot \left(\frac{3.5m}{0.45m}\right)\right)}$$


3) Length of Piston for Vertical Upward Force on Piston ↗

$$fx \quad L_P = \frac{F_v}{v_{\text{piston}} \cdot \pi \cdot \mu_{\text{viscosity}} \cdot \left(0.75 \cdot \left(\left(\frac{D}{C_R}\right)^3\right) + 1.5 \cdot \left(\left(\frac{D}{C_R}\right)^2\right)\right)}$$

[Open Calculator ↗](#)

$$ex \quad 5.00236m = \frac{320N}{0.045m/s \cdot \pi \cdot 10.2P \cdot \left(0.75 \cdot \left(\left(\frac{3.5m}{0.45m}\right)^3\right) + 1.5 \cdot \left(\left(\frac{3.5m}{0.45m}\right)^2\right)\right)}$$



4) Pressure Drop over Length of Piston given Vertical Upward Force on Piston 

$$\text{fx } \Delta P_f = \frac{F_v}{0.25 \cdot \pi \cdot D \cdot D}$$

[Open Calculator !\[\]\(cbe80b694ebd74fcfe136a095b608235_img.jpg\)](#)

$$\text{ex } 33.26014\text{Pa} = \frac{320\text{N}}{0.25 \cdot \pi \cdot 3.5\text{m} \cdot 3.5\text{m}}$$

5) Pressure Drop over Piston 

$$\text{fx } \Delta P_f = \left(6 \cdot \mu_{\text{viscosity}} \cdot v_{\text{piston}} \cdot \frac{L_P}{C_R^3} \right) \cdot (0.5 \cdot D + C_R)$$

[Open Calculator !\[\]\(3e2231b1ad3ca8da8658228c00dd08e0_img.jpg\)](#)

$$\text{ex } 33.24444\text{Pa} = \left(6 \cdot 10.2\text{P} \cdot 0.045\text{m/s} \cdot \frac{5\text{m}}{(0.45\text{m})^3} \right) \cdot (0.5 \cdot 3.5\text{m} + 0.45\text{m})$$

6) Pressure Gradient given Rate of Flow 

fx

[Open Calculator !\[\]\(0d5ec72f61334709c3fc9450209b754f_img.jpg\)](#)

$$\text{dp|dr} = \left(12 \cdot \frac{\mu_{\text{viscosity}}}{C_R^3} \right) \cdot \left(\left(\frac{Q}{\pi} \cdot D \right) + v_{\text{piston}} \cdot 0.5 \cdot C_R \right)$$

$$\text{ex } 8231.832\text{N/m}^3 = \left(12 \cdot \frac{10.2\text{P}}{(0.45\text{m})^3} \right) \cdot \left(\left(\frac{55\text{m}^3/\text{s}}{\pi} \cdot 3.5\text{m} \right) + 0.045\text{m/s} \cdot 0.5 \cdot 0.45\text{m} \right)$$

7) Pressure Gradient given Velocity of Flow in Oil Tank 

$$\text{fx } \text{dp|dr} = \frac{\mu_{\text{viscosity}} \cdot 2 \cdot \left(u_{\text{Oil tank}} - \left(v_{\text{piston}} \cdot \frac{R}{C_H} \right) \right)}{R \cdot R - C_H \cdot R}$$

[Open Calculator !\[\]\(84f47badaad7772cd95667a7c387a639_img.jpg\)](#)

$$\text{ex } 50.97758\text{N/m}^3 = \frac{10.2\text{P} \cdot 2 \cdot \left(12\text{m/s} - \left(0.045\text{m/s} \cdot \frac{0.7\text{m}}{50\text{mm}} \right) \right)}{0.7\text{m} \cdot 0.7\text{m} - 50\text{mm} \cdot 0.7\text{m}}$$



8) Shear Force Resisting Motion of Piston 

fx

Open Calculator 

$$F_s = \pi \cdot L_P \cdot \mu_{\text{viscosity}} \cdot v_{\text{piston}} \cdot \left(1.5 \cdot \left(\frac{D}{C_R} \right)^2 + 4 \cdot \left(\frac{D}{C_R} \right) \right)$$

$$\text{ex } 87.85464\text{N} = \pi \cdot 5\text{m} \cdot 10.2\text{P} \cdot 0.045\text{m/s} \cdot \left(1.5 \cdot \left(\frac{3.5\text{m}}{0.45\text{m}} \right)^2 + 4 \cdot \left(\frac{3.5\text{m}}{0.45\text{m}} \right) \right)$$

9) Total Forces 

fx

Open Calculator 

$$T_f = F_v + F_s$$

$$\text{ex } 410\text{N} = 320\text{N} + 90\text{N}$$

10) Velocity of Flow in Oil Tank 


fx

Open Calculator 

$$u_{\text{Oiltank}} = \left(dp|dr \cdot 0.5 \cdot \frac{R \cdot R - C_H \cdot R}{\mu_{\text{viscosity}}} \right) - \left(v_{\text{piston}} \cdot \frac{R}{C_H} \right)$$

ex

$$12.75235\text{m/s} = \left(60\text{N/m}^3 \cdot 0.5 \cdot \frac{0.7\text{m} \cdot 0.7\text{m} - 50\text{mm} \cdot 0.7\text{m}}{10.2\text{P}} \right) - \left(0.045\text{m/s} \cdot \frac{0.7\text{m}}{50\text{mm}} \right)$$

11) Vertical Force given Total Force 

fx

Open Calculator 

$$F_v = F_s - F_{\text{Total}}$$

$$\text{ex } 87.5\text{N} = 90\text{N} - 2.5\text{N}$$



12) Dynamic Viscosity for Pressure Reduction over Length of Piston 

fx

Open Calculator 

$$F_v = L_P \cdot \pi \cdot \mu_{\text{viscosity}} \cdot v_{\text{piston}} \cdot \left(0.75 \cdot \left(\left(\frac{D}{C_R} \right)^3 \right) + 1.5 \cdot \left(\left(\frac{D}{C_R} \right)^2 \right) \right)$$

ex

$$319.849\text{N} = 5\text{m} \cdot \pi \cdot 10.2\text{P} \cdot 0.045\text{m/s} \cdot \left(0.75 \cdot \left(\left(\frac{3.5\text{m}}{0.45\text{m}} \right)^3 \right) + 1.5 \cdot \left(\left(\frac{3.5\text{m}}{0.45\text{m}} \right)^2 \right) \right)$$

Dynamic Viscosity 13) Dynamic Viscosity for Pressure Reduction over Length of Piston 

fx

Open Calculator 

$$\mu_{\text{viscosity}} = \frac{\Delta P f}{\left(6 \cdot v_{\text{piston}} \cdot \frac{L_P}{C_R^3} \right) \cdot (0.5 \cdot D + C_R)}$$

ex

$$10.125\text{P} = \frac{33\text{Pa}}{\left(6 \cdot 0.045\text{m/s} \cdot \frac{5\text{m}}{(0.45\text{m})^3} \right) \cdot (0.5 \cdot 3.5\text{m} + 0.45\text{m})}$$

14) Dynamic Viscosity for Shear Force Resisting Motion of Piston 

fx

Open Calculator 

$$\mu_{\text{viscosity}} = \frac{F_s}{\pi \cdot L_P \cdot v_{\text{piston}} \cdot \left(1.5 \cdot \left(\frac{D}{C_R} \right)^2 + 4 \cdot \left(\frac{D}{C_R} \right) \right)}$$

ex

$$10.44908\text{P} = \frac{90\text{N}}{\pi \cdot 5\text{m} \cdot 0.045\text{m/s} \cdot \left(1.5 \cdot \left(\frac{3.5\text{m}}{0.45\text{m}} \right)^2 + 4 \cdot \left(\frac{3.5\text{m}}{0.45\text{m}} \right) \right)}$$



15) Dynamic Viscosity given Rate of Flow [Open Calculator !\[\]\(eafc244b53721dd1ec133f0772f70fc7_img.jpg\)](#)


$$\text{fx } \mu_{\text{viscosity}} = \frac{dp|dr \cdot \frac{C_R^3}{12}}{\left(\frac{Q}{\pi} \cdot D\right) + v_{\text{piston}} \cdot 0.5 \cdot C_R}$$

$$\text{ex } 0.074346\text{P} = \frac{60\text{N/m}^3 \cdot \frac{(0.45\text{m})^3}{12}}{\left(\frac{55\text{m}^3/\text{s}}{\pi} \cdot 3.5\text{m}\right) + 0.045\text{m/s} \cdot 0.5 \cdot 0.45\text{m}}$$

16) Dynamic Viscosity given Velocity of Flow in Oil Tank [Open Calculator !\[\]\(10f8862fc183b400327470ea85afe9ae_img.jpg\)](#)

$$\text{fx } \mu_{\text{viscosity}} = 0.5 \cdot dp|dr \cdot \frac{R \cdot R - C_H \cdot R}{u_{\text{Oiltank}} + \left(v_{\text{piston}} \cdot \frac{R}{C_H}\right)}$$

$$\text{ex } 10.8076\text{P} = 0.5 \cdot 60\text{N/m}^3 \cdot \frac{0.7\text{m} \cdot 0.7\text{m} - 50\text{mm} \cdot 0.7\text{m}}{12\text{m/s} + \left(0.045\text{m/s} \cdot \frac{0.7\text{m}}{50\text{mm}}\right)}$$

Velocity of Piston 17) Velocity of Piston for Shear Force Resisting Motion of Piston [Open Calculator !\[\]\(ab4e2b3fc7e7887b7a72f548aa6f5e60_img.jpg\)](#)

$$\text{fx } v_{\text{piston}} = \frac{F_s}{\pi \cdot \mu_{\text{viscosity}} \cdot L_P \cdot \left(1.5 \cdot \left(\frac{D}{C_R}\right)^2 + 4 \cdot \left(\frac{D}{C_R}\right)\right)}$$

$$\text{ex } 0.046099\text{m/s} = \frac{90\text{N}}{\pi \cdot 10.2\text{P} \cdot 5\text{m} \cdot \left(1.5 \cdot \left(\frac{3.5\text{m}}{0.45\text{m}}\right)^2 + 4 \cdot \left(\frac{3.5\text{m}}{0.45\text{m}}\right)\right)}$$



18) Velocity of Piston for Vertical Upward Force on Piston 

fx

Open Calculator 

$$v_{\text{piston}} = \frac{F_v}{L_P \cdot \pi \cdot \mu_{\text{viscosity}} \cdot \left(0.75 \cdot \left(\left(\frac{D}{C_R} \right)^3 \right) + 1.5 \cdot \left(\left(\frac{D}{C_R} \right)^2 \right) \right)}$$

ex

$$0.045021\text{m/s} = \frac{320\text{N}}{5\text{m} \cdot \pi \cdot 10.2\text{P} \cdot \left(0.75 \cdot \left(\left(\frac{3.5\text{m}}{0.45\text{m}} \right)^3 \right) + 1.5 \cdot \left(\left(\frac{3.5\text{m}}{0.45\text{m}} \right)^2 \right) \right)}$$

19) Velocity of Piston given Velocity of Flow in Oil Tank 

fx

Open Calculator 

$$v_{\text{piston}} = \left(\left(0.5 \cdot dp|dr \cdot \frac{R \cdot R - C_H \cdot R}{\mu_{\text{viscosity}}} \right) - u_{\text{Oil tank}} \right) \cdot \left(\frac{C_H}{R} \right)$$

ex

$$0.098739\text{m/s} = \left(\left(0.5 \cdot 60\text{N/m}^3 \cdot \frac{0.7\text{m} \cdot 0.7\text{m} - 50\text{mm} \cdot 0.7\text{m}}{10.2\text{P}} \right) - 12\text{m/s} \right) \cdot \left(\frac{50\text{mm}}{0.7\text{m}} \right)$$

20) Velocity of Pistons for Pressure Drop over Length of Piston 

fx

Open Calculator 

$$v_{\text{piston}} = \frac{\Delta P_f}{\left(6 \cdot \mu_{\text{viscosity}} \cdot \frac{L_P}{C_R^3} \right) \cdot (0.5 \cdot D + C_R)}$$

ex

$$0.044669\text{m/s} = \frac{33\text{Pa}}{\left(6 \cdot 10.2\text{P} \cdot \frac{5\text{m}}{(0.45\text{m})^3} \right) \cdot (0.5 \cdot 3.5\text{m} + 0.45\text{m})}$$



When Piston Velocity is Negligible to Average Velocity of Oil in Clearance Space

21) Clearance given Pressure Drop over Length of Piston

[Open Calculator !\[\]\(6605b201d6f14d9b3bcb8ab5f274d107_img.jpg\)](#)

$$fx \quad C_R = \left(3 \cdot D \cdot \mu_{\text{viscosity}} \cdot v_{\text{piston}} \cdot \frac{L_P}{\Delta P_f} \right)^{\frac{1}{3}}$$

$$ex \quad 0.417977m = \left(3 \cdot 3.5m \cdot 10.2P \cdot 0.045m/s \cdot \frac{5m}{33Pa} \right)^{\frac{1}{3}}$$

22) Clearance given Shear Stress

[Open Calculator !\[\]\(e8fb589d58dad1692debababa5e928b6_img.jpg\)](#)

$$fx \quad C_H = \sqrt{1.5 \cdot D \cdot \mu_{\text{viscosity}} \cdot \frac{v_{\text{piston}}}{\tau}}$$

$$ex \quad 50.87579mm = \sqrt{1.5 \cdot 3.5m \cdot 10.2P \cdot \frac{0.045m/s}{93.1Pa}}$$

23) Diameter of Piston for Pressure Drop over Length

[Open Calculator !\[\]\(4688aadfd656ded00cd6bdfae55089a9_img.jpg\)](#)

$$fx \quad D = \left(\frac{\Delta P_f}{6 \cdot \mu_{\text{viscosity}} \cdot v_{\text{piston}} \cdot \frac{L_P}{C_R^3}} \right) \cdot 2$$

$$ex \quad 4.367647m = \left(\frac{33Pa}{6 \cdot 10.2P \cdot 0.045m/s \cdot \frac{5m}{(0.45m)^3}} \right) \cdot 2$$

24) Diameter of Piston given Shear Stress

[Open Calculator !\[\]\(4146d17f71dced09c6ad789cacceaa6d_img.jpg\)](#)

$$fx \quad D = \frac{\tau}{1.5 \cdot \mu_{\text{viscosity}} \cdot \frac{v_{\text{piston}}}{C_H \cdot C_H}}$$

$$ex \quad 3.380537m = \frac{93.1Pa}{1.5 \cdot 10.2P \cdot \frac{0.045m/s}{50mm \cdot 50mm}}$$



25) Dynamic Viscosity for Pressure Drop over Length 

$$\mu_{\text{viscosity}} = \frac{\Delta P f}{\left(6 \cdot v_{\text{piston}} \cdot \frac{L_P}{C_R^3}\right) \cdot (0.5 \cdot D)}$$

Open Calculator 


$$\text{ex } 12.72857\text{P} = \frac{33\text{Pa}}{\left(6 \cdot 0.045\text{m/s} \cdot \frac{5\text{m}}{(0.45\text{m})^3}\right) \cdot (0.5 \cdot 3.5\text{m})}$$

26) Dynamic Viscosity given Shear Stress in Piston 

$$\mu_{\text{viscosity}} = \frac{\tau}{1.5 \cdot D \cdot \frac{v_{\text{piston}}}{C_H \cdot C_H}}$$

Open Calculator 


$$\text{ex } 9.851852\text{P} = \frac{93.1\text{Pa}}{1.5 \cdot 3.5\text{m} \cdot \frac{0.045\text{m/s}}{50\text{mm} \cdot 50\text{mm}}}$$

27) Dynamic Viscosity given Velocity of Fluid 

$$\mu_{\text{viscosity}} = dp|dr \cdot 0.5 \cdot \left(\frac{R^2 - C_H \cdot R}{u_{\text{Fluid}}}\right)$$

Open Calculator 

$$\text{ex } 0.455\text{P} = 60\text{N/m}^3 \cdot 0.5 \cdot \left(\frac{(0.7\text{m})^2 - 50\text{mm} \cdot 0.7\text{m}}{300\text{m/s}}\right)$$

28) Dynamic Viscosity given velocity of piston 

$$\mu_{\text{viscosity}} = \frac{F_{\text{Total}}}{\pi \cdot v_{\text{piston}} \cdot L_P \cdot \left(0.75 \cdot \left(\left(\frac{D}{C_R}\right)^3\right) + 1.5 \cdot \left(\left(\frac{D}{C_R}\right)^2\right)\right)}$$

Open Calculator 

$$\text{ex } 7.972511\text{P} = \frac{2.5\text{N}}{\pi \cdot 0.045\text{m/s} \cdot 5\text{m} \cdot \left(0.75 \cdot \left(\left(\frac{3.5\text{m}}{0.45\text{m}}\right)^3\right) + 1.5 \cdot \left(\left(\frac{3.5\text{m}}{0.45\text{m}}\right)^2\right)\right)}$$



29) Length of Piston for Pressure Reduction over Length of Piston 

$$fx \quad L_P = \frac{\Delta P_f}{\left(6 \cdot \mu_{\text{viscosity}} \cdot \frac{v_{\text{piston}}}{C_R^3}\right) \cdot (0.5 \cdot D)}$$

Open Calculator 


$$ex \quad 6.239496\text{m} = \frac{33\text{Pa}}{\left(6 \cdot 10.2\text{P} \cdot \frac{0.045\text{m/s}}{(0.45\text{m})^3}\right) \cdot (0.5 \cdot 3.5\text{m})}$$

30) Pressure Drop over Lengths of Piston 

$$fx \quad \Delta P_f = \left(6 \cdot \mu_{\text{viscosity}} \cdot v_{\text{piston}} \cdot \frac{L_P}{C_R^3}\right) \cdot (0.5 \cdot D)$$

Open Calculator 

$$ex \quad 26.44444\text{Pa} = \left(6 \cdot 10.2\text{P} \cdot 0.045\text{m/s} \cdot \frac{5\text{m}}{(0.45\text{m})^3}\right) \cdot (0.5 \cdot 3.5\text{m})$$

31) Pressure Gradient given Velocity of Fluid 

$$fx \quad dp|dr = \frac{u_{\text{Oiltank}}}{0.5 \cdot \frac{R \cdot R - C_H \cdot R}{\mu_{\text{viscosity}}}}$$

Open Calculator 

$$ex \quad 53.8022\text{N/m}^3 = \frac{12\text{m/s}}{0.5 \cdot \frac{0.7\text{m} \cdot 0.7\text{m} - 50\text{mm} \cdot 0.7\text{m}}{10.2\text{P}}}$$

32) Velocity of Fluid 

$$fx \quad u_{\text{Oiltank}} = dp|dr \cdot 0.5 \cdot \frac{R \cdot R - C_H \cdot R}{\mu_{\text{viscosity}}}$$

Open Calculator 

$$ex \quad 13.38235\text{m/s} = 60\text{N/m}^3 \cdot 0.5 \cdot \frac{0.7\text{m} \cdot 0.7\text{m} - 50\text{mm} \cdot 0.7\text{m}}{10.2\text{P}}$$




33) Velocity of Piston for Pressure reduction over Length of Piston 

$$fx \quad v_{\text{piston}} = \frac{\Delta P f}{\left(3 \cdot \mu_{\text{viscosity}} \cdot \frac{L_P}{C_R^3}\right) \cdot (D)}$$

Open Calculator 

$$ex \quad 0.056155\text{m/s} = \frac{33\text{Pa}}{\left(3 \cdot 10.2\text{P} \cdot \frac{5\text{m}}{(0.45\text{m})^3}\right) \cdot (3.5\text{m})}$$

34) Velocity of Piston given Shear Stress 

$$fx \quad v_{\text{piston}} = \frac{\tau}{1.5 \cdot D \cdot \frac{\mu_{\text{viscosity}}}{C_H \cdot C_H}}$$

Open Calculator 

$$ex \quad 0.043464\text{m/s} = \frac{93.1\text{Pa}}{1.5 \cdot 3.5\text{m} \cdot \frac{10.2\text{P}}{50\text{mm} \cdot 50\text{mm}}}$$


When Shear Force is Negligible 35) Dynamic Viscosity for Total Force in piston 

$$fx \quad \mu_{\text{viscosity}} = \frac{F_{\text{Total}}}{0.75 \cdot \pi \cdot v_{\text{piston}} \cdot L_P \cdot \left(\left(\frac{D}{C_R}\right)^3\right)}$$

Open Calculator 

$$ex \quad 0.100226\text{P} = \frac{2.5\text{N}}{0.75 \cdot \pi \cdot 0.045\text{m/s} \cdot 5\text{m} \cdot \left(\left(\frac{3.5\text{m}}{0.45\text{m}}\right)^3\right)}$$



36) Length of Piston for Total Force in Piston Open Calculator 

$$\text{fx } L_P = \frac{F_{\text{Total}}}{0.75 \cdot \pi \cdot \mu_{\text{viscosity}} \cdot v_{\text{piston}} \cdot \left(\left(\frac{D}{C_R} \right)^3 \right)}$$

$$\text{ex } 4.913032\text{m} = \frac{2.5\text{N}}{0.75 \cdot \pi \cdot 10.2\text{P} \cdot 0.045\text{m/s} \cdot \left(\left(\frac{3.5\text{m}}{0.45\text{m}} \right)^3 \right)}$$











Variables Used

- C_H Hydraulic Clearance (Millimeter)
- C_R Radial Clearance (Meter)
- D Diameter of Piston (Meter)
- dp/dr Pressure Gradient (Newton per Cubic Meter)
- F_{Total} Total Force in Piston (Newton)
- F_V Vertical Component of Force (Newton)
- F_s Shear Force (Newton)
- L_P Piston Length (Meter)
- Q Discharge in Laminar Flow (Cubic Meter per Second)
- R Horizontal Distance (Meter)
- T_f Total Force (Newton)
- u_{Fluid} Fluid Velocity in Pipe (Meter per Second)
- $u_{Oiltank}$ Fluid Velocity in Oil Tank (Meter per Second)
- V_{piston} Velocity of Piston (Meter per Second)
- ΔP_f Pressure Drop due to Friction (Pascal)
- $\mu_{viscosity}$ Dynamic Viscosity (Poise)
- τ Shear Stress (Pascal)



Constants, Functions, Measurements used

- **Constant:** **pi**, 3.14159265358979323846264338327950288
Archimedes' constant
- **Function:** **sqrt**, sqrt(Number)
Square root function
- **Measurement:** **Length** in Meter (m), Millimeter (mm)
Length Unit Conversion 
- **Measurement:** **Pressure** in Pascal (Pa)
Pressure Unit Conversion 
- **Measurement:** **Speed** in Meter per Second (m/s)
Speed Unit Conversion 
- **Measurement:** **Force** in Newton (N)
Force Unit Conversion 
- **Measurement:** **Volumetric Flow Rate** in Cubic Meter per Second (m³/s)
Volumetric Flow Rate Unit Conversion 
- **Measurement:** **Dynamic Viscosity** in Poise (P)
Dynamic Viscosity Unit Conversion 
- **Measurement:** **Pressure Gradient** in Newton per Cubic Meter (N/m³)
Pressure Gradient Unit Conversion 
- **Measurement:** **Stress** in Pascal (Pa)
Stress Unit Conversion 



Check other formula lists

- [Dash-Pot Mechanism Formulas](#) 
- [Laminar Flow around a Sphere–Stokes' Law Formulas](#) 
- [Laminar Flow between Parallel Flat Plates, one plate moving and other at rest, Couette Flow Formulas](#) 
- [Laminar Flow between Parallel Plates, both plates at rest Formulas](#) 
- [Laminar Flow of Fluid in an Open Channel Formulas](#) 
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