Important Dash Pot Mechanism Formulas PDF

Formulas
Examples
with Units

List of 36
Important Dash Pot Mechanism Formulas

1) Length of Piston for Pressure Drop over Piston Formula

Evaluate Formula

Formula

$$L_P = \frac{\Delta Pf}{\left(6 \cdot \mu \cdot \frac{v_{piston}}{C_R^{\,3}}\right) \cdot \left(0.5 \cdot D + C_R\right)}$$

Example with Units

$$4.9632\,\text{m} = \frac{33\,\text{Pa}}{\left(6 \cdot 10.2\,\text{P} \cdot \frac{0.045\,\text{m/s}}{0.45\,\text{m}^{\,3}}\right) \cdot \left(0.5 \cdot 3.5\,\text{m} + 0.45\,\text{m}\right)}$$

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

Evaluate Formula

Formula

$$L_P = \frac{Fs}{\pi \cdot \mu \cdot v_{piston} \cdot \left(1.5 \cdot \left(\frac{D}{C_R}\right)^2 + 4 \cdot \left(\frac{D}{C_R}\right)\right)}$$

Example with Units

$$5.1221\,\text{m} = \frac{90\,\text{N}}{3.1416 \cdot 10.2\,\text{P} \cdot 0.045\,\text{m/s} \cdot \left(1.5 \cdot \left(\frac{3.5\,\text{m}}{0.45\,\text{m}}\right)^2 + 4 \cdot \left(\frac{3.5\,\text{m}}{0.45\,\text{m}}\right)\right)}$$

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

Evaluate Formula

Formula

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

Example with Units

$$5.0024\,\text{m} = \frac{320\,\text{N}}{0.045\,\text{m/s} \cdot 3.1416 \cdot 10.2\,\text{P} \cdot \left(0.75 \cdot \left(\left(\frac{3.5\,\text{m}}{0.45\,\text{m}}\right)^3\right) + 1.5 \cdot \left(\left(\frac{3.5\,\text{m}}{0.45\,\text{m}}\right)^2\right)\right)}$$

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

Evaluate Formula

Formula

$$\Delta Pf = \frac{F_v}{0.25 \cdot \pi \cdot D \cdot D}$$

Example with Units

$$33.2601\,\text{Pa} = \frac{320\,\text{N}}{0.25 \cdot 3.1416 \cdot 3.5\,\text{m} \cdot 3.5\,\text{m}}$$

5) Pressure Drop over Piston Formula

Evaluate Formula

Formula

$$\Delta Pf = \left(6 \cdot \mu \cdot v_{piston} \cdot \frac{L_P}{C_R^3}\right) \cdot \left(0.5 \cdot D + C_R\right)$$

Example with Units

$$33.2444\,\text{Pa} = \left(6 \cdot 10.2\,\text{P} \cdot 0.045\,\text{m/s} \cdot \frac{5\,\text{m}}{0.45\,\text{m}^3}\right) \cdot \left(0.5 \cdot 3.5\,\text{m} + 0.45\,\text{m}\right)$$

6) Pressure Gradient given Rate of Flow Formula

Evaluate Formula

Formula

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

Example with Units

$$8231.8319\,\text{N/m}^3 = \left(12 \cdot \frac{10.2\,\text{P}}{0.45\,\text{m}^3}\right) \cdot \left(\left(\frac{55\,\text{m}^3\text{/s}}{3.1416} \cdot 3.5\,\text{m}\right) + 0.045\,\text{m/s} \cdot 0.5 \cdot 0.45\,\text{m}\right)$$

7) Pressure Gradient given Velocity of Flow in Oil Tank Formula

Evaluate Formula

Formula

$$dp|dr = \frac{\mu \cdot 2 \cdot \left(u_{Oiltank} - \left(v_{piston} \cdot \frac{R}{C_H} \right) \right)}{R \cdot R - C_H \cdot R}$$

Example with Units

$$50.9776\,\text{N/m}^3 = \frac{10.2\,\text{P} \cdot 2 \cdot \left(12\,\text{m/s} - \left(0.045\,\text{m/s} \cdot \frac{0.7\,\text{m}}{50\,\text{mm}} \right) \right)}{0.7\,\text{m} \cdot 0.7\,\text{m} - 50\,\text{mm} \cdot 0.7\,\text{m}}$$

8) Shear Force Resisting Motion of Piston Formula

Evaluate Formula

Formula

$$Fs = \pi \cdot L_P \cdot \mu \cdot v_{piston} \cdot \left(1.5 \cdot \left(\frac{D}{C_R} \right)^2 + 4 \cdot \left(\frac{D}{C_R} \right) \right)$$

Example with Units

$$87.8546\,\text{N} = 3.1416 \cdot 5\,\text{m} \cdot 10.2\,\text{P} \cdot 0.045\,\text{m/s} \cdot \left(1.5 \cdot \left(\frac{3.5\,\text{m}}{0.45\,\text{m}} \right)^2 + 4 \cdot \left(\frac{3.5\,\text{m}}{0.45\,\text{m}} \right) \right)$$

9) Total Forces Formula

Evaluate Formula

Formula

$$T_f = F_v + Fs$$

Example with Units

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

10) Velocity of Flow in Oil Tank Formula

Evaluate Formula

Formula

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

Example with Units

$$12.7524\,\text{m/s} = \left(60\,\text{N/m}^3 \cdot 0.5 \cdot \frac{0.7\,\text{m} \cdot 0.7\,\text{m} - 50\,\text{mm} \cdot 0.7\,\text{m}}{10.2\,\text{P}} \right) - \left(0.045\,\text{m/s} \cdot \frac{0.7\,\text{m}}{50\,\text{mm}} \right)$$

11) Vertical Force given Total Force Formula

Evaluate Formula

Formula

$$F_v = Fs - F_{Total}$$

Example with Units

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

12) Vertical Upward Force on Piston given Piston Velocity Formula

Evaluate Formula

Formula

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

Example with Units

$$319.849\,\text{N} = 5\,\text{m} \cdot 3.1416 \cdot 10.2\,\text{P} \cdot 0.045\,\text{m/s} \cdot \left(0.75 \cdot \left(\left(\frac{3.5\,\text{m}}{0.45\,\text{m}} \right)^3 \right) + 1.5 \cdot \left(\left(\frac{3.5\,\text{m}}{0.45\,\text{m}} \right)^2 \right) \right)$$

13) Dynamic Viscosity Formulas

13.1) Dynamic Viscosity for Pressure Reduction over Length of Piston Formula

Evaluate Formula

Formula

$$\mu = \frac{\Delta Pf}{\left(6 \cdot v_{piston} \cdot \frac{L_P}{C_R^3} \right) \cdot \left(0.5 \cdot D + C_R \right)}$$

Example with Units

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

13.2) Dynamic Viscosity for Shear Force Resisting Motion of Piston Formula

Evaluate Formula

Formula

$$\mu = \frac{Fs}{\pi \cdot L_P \cdot v_{piston} \cdot \left(1.5 \cdot \left(\frac{D}{C_R} \right)^2 + 4 \cdot \left(\frac{D}{C_R} \right) \right)}$$

Example with Units

$$10.4491\,\text{P} = \frac{90\,\text{N}}{3.1416 \cdot 5\,\text{m} \cdot 0.045\,\text{m/s} \cdot \left(1.5 \cdot \left(\frac{3.5\,\text{m}}{0.45\,\text{m}} \right)^2 + 4 \cdot \left(\frac{3.5\,\text{m}}{0.45\,\text{m}} \right) \right)}$$

13.3) Dynamic Viscosity given Rate of Flow Formula

Evaluate Formula

Formula

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

Example with Units

$$0.0743\,\text{P} = \frac{60\,\text{N/m}^3 \cdot \frac{0.45\,\text{m}^3}{12}}{\left(\frac{55\,\text{m}^3/\text{s}}{3.1416} \cdot 3.5\,\text{m}\right) + 0.045\,\text{m/s} \cdot 0.5 \cdot 0.45\,\text{m}}$$

13.4) Dynamic Viscosity given Velocity of Flow in Oil Tank Formula

Evaluate Formula

Formula

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

Example with Units

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

14) Velocity of Piston Formulas

14.1) Velocity of Piston for Shear Force Resisting Motion of Piston Formula

Evaluate Formula

Formula

$$v_{piston} = \frac{Fs}{\pi \cdot \mu \cdot L_P \cdot \left(1.5 \cdot \left(\frac{D}{C_R}\right)^2 + 4 \cdot \left(\frac{D}{C_R}\right)\right)}$$

Example with Units

$$0.0461\,\text{m/s} = \frac{90\,\text{N}}{3.1416 \cdot 10.2\,\text{P} \cdot 5\,\text{m} \cdot \left(1.5 \cdot \left(\frac{3.5\,\text{m}}{0.45\,\text{m}}\right)^2 + 4 \cdot \left(\frac{3.5\,\text{m}}{0.45\,\text{m}}\right)\right)}$$

14.2) Velocity of Piston for Vertical Upward Force on Piston Formula

Evaluate Formula

Formula

$$v_{piston} = \frac{F_V}{L_P \cdot \pi \cdot \mu \cdot \left(0.75 \cdot \left(\left(\frac{D}{C_R}\right)^3\right) + 1.5 \cdot \left(\left(\frac{D}{C_R}\right)^2\right)\right)}$$

Example with Units

$$0.045\,\text{m/s} = \frac{320\,\text{N}}{5\,\text{m} \cdot 3.1416 \cdot 10.2\,\text{P} \cdot \left(0.75 \cdot \left(\left(\frac{3.5\,\text{m}}{0.45\,\text{m}}\right)^3\right) + 1.5 \cdot \left(\left(\frac{3.5\,\text{m}}{0.45\,\text{m}}\right)^2\right)\right)}$$

14.3) Velocity of Piston given Velocity of Flow in Oil Tank Formula

Evaluate Formula

Formula

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

Example with Units

$$0.0987\,\text{m/s} = \left(\left(0.5 \cdot 60\,\text{N/m}^3 \cdot \frac{0.7\,\text{m} \cdot 0.7\,\text{m} - 50\,\text{mm} \cdot 0.7\,\text{m}}{10.2\,\text{P}}\right) - 12\,\text{m/s}\right) \cdot \left(\frac{50\,\text{mm}}{0.7\,\text{m}}\right)$$

14.4) Velocity of Pistons for Pressure Drop over Length of Piston Formula

Evaluate Formula

Formula

$$v_{piston} = \frac{\Delta Pf}{\left(6 \cdot \mu \cdot \frac{L_P}{C_R^3}\right) \cdot \left(0.5 \cdot D + C_R\right)}$$

Example with Units

$$0.0447\,\text{m/s} = \frac{33\,\text{Pa}}{\left(6 \cdot 10.2\,\text{P} \cdot \frac{5\,\text{m}}{0.45\,\text{m}^3}\right) \cdot \left(0.5 \cdot 3.5\,\text{m} + 0.45\,\text{m}\right)}$$

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

15.1) Clearance given Pressure Drop over Length of Piston Formula

Evaluate Formula

Formula

$$C_R = \left(3 \cdot D \cdot \mu \cdot v_{piston} \cdot \frac{L_P}{\Delta Pf}\right)^{\frac{1}{3}}$$

Example with Units

$$0.418\,\text{m} = \left(3 \cdot 3.5\,\text{m} \cdot 10.2\,\text{P} \cdot 0.045\,\text{m/s} \cdot \frac{5\,\text{m}}{33\,\text{Pa}}\right)^{\frac{1}{3}}$$

15.2) Clearance given Shear Stress Formula

Evaluate Formula

Formula

$$C_H = \sqrt{1.5 \cdot D \cdot \mu \cdot \frac{v_{piston}}{\tau}}$$

Example with Units

$$50.8758\,\text{mm} = \sqrt{1.5 \cdot 3.5\,\text{m} \cdot 10.2\,\text{P} \cdot \frac{0.045\,\text{m/s}}{93.1\,\text{Pa}}}$$

15.3) Diameter of Piston for Pressure Drop over Length Formula

Evaluate Formula

Formula

$$D = \left(\frac{\Delta Pf}{6 \cdot \mu \cdot v_{piston} \cdot \frac{L_P}{C_R^3}} \right) \cdot 2$$

Example with Units

$$4.3676\,\text{m} = \left(\frac{33\,\text{Pa}}{6 \cdot 10.2\,\text{P} \cdot 0.045\,\text{m/s} \cdot \frac{5\,\text{m}}{0.45\,\text{m}^3}} \right) \cdot 2$$

15.4) Diameter of Piston given Shear Stress Formula

Evaluate Formula

Formula

$$D = \frac{\tau}{1.5 \cdot \mu \cdot \frac{v_{piston}}{C_H \cdot C_H}}$$

Example with Units

$$3.3805\,\text{m} = \frac{93.1\,\text{Pa}}{1.5 \cdot 10.2\,\text{P} \cdot \frac{0.045\,\text{m/s}}{50\,\text{mm} \cdot 50\,\text{mm}}}$$

15.5) Dynamic Viscosity for Pressure Drop over Length Formula

Evaluate Formula

Formula

$$\mu = \frac{\Delta Pf}{\left(6 \cdot v_{piston} \cdot \frac{L_P}{C_R^3}\right) \cdot \left(0.5 \cdot D\right)}$$

Example with Units

$$12.7286\,\text{P} = \frac{33\,\text{Pa}}{\left(6 \cdot 0.045\,\text{m/s} \cdot \frac{5\,\text{m}}{0.45\,\text{m}^3}\right) \cdot \left(0.5 \cdot 3.5\,\text{m}\right)}$$

15.6) Dynamic Viscosity given Shear Stress in Piston Formula

Evaluate Formula

Formula

$$\mu = \frac{\tau}{1.5 \cdot D \cdot \frac{v_{piston}}{C_H \cdot C_H}}$$

Example with Units

$$9.8519\,\text{P} = \frac{93.1\,\text{Pa}}{1.5 \cdot 3.5\,\text{m} \cdot \frac{0.045\,\text{m/s}}{50\,\text{mm} \cdot 50\,\text{mm}}}$$

15.7) Dynamic Viscosity given Velocity of Fluid Formula

Evaluate Formula

Formula

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

Example with Units

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

15.8) Dynamic Viscosity given velocity of piston Formula

Evaluate Formula

Formula

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

Example with Units

$$7.9725\,\text{P} = \frac{2.5\,\text{N}}{3.1416 \cdot 0.045\,\text{m/s} \cdot 5\,\text{m} \cdot \left(0.75 \cdot \left(\left(\frac{3.5\,\text{m}}{0.45\,\text{m}}\right)^3\right) + 1.5 \cdot \left(\left(\frac{3.5\,\text{m}}{0.45\,\text{m}}\right)^2\right)\right)}$$

15.9) Length of Piston for Pressure Reduction over Length of Piston Formula

Evaluate Formula

Formula

$$L_P = \frac{\Delta Pf}{\left(6 \cdot \mu \cdot \frac{v_{piston}}{C_R^3}\right) \cdot \left(0.5 \cdot D\right)}$$

Example with Units

$$6.2395\,\text{m} = \frac{33\,\text{Pa}}{\left(6 \cdot 10.2\,\text{P} \cdot \frac{0.045\,\text{m/s}}{0.45\,\text{m}^3}\right) \cdot \left(0.5 \cdot 3.5\,\text{m}\right)}$$

15.10) Pressure Drop over Lengths of Piston Formula

Evaluate Formula

Formula

$$\Delta Pf = \left(6 \cdot \mu \cdot v_{piston} \cdot \frac{L_P}{C_R^3}\right) \cdot \left(0.5 \cdot D\right)$$

Example with Units

$$26.4444\,\text{Pa} = \left(6 \cdot 10.2\,\text{P} \cdot 0.045\,\text{m/s} \cdot \frac{5\,\text{m}}{0.45\,\text{m}^3}\right) \cdot \left(0.5 \cdot 3.5\,\text{m}\right)$$

15.11) Pressure Gradient given Velocity of Fluid Formula

Evaluate Formula

Formula

$$dp|dr = \frac{u_{Oiltank}}{0.5 \cdot \frac{R \cdot R - C_H \cdot R}{\mu}}$$

Example with Units

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

15.12) Velocity of Fluid Formula

Evaluate Formula

Formula

$$u_{Oiltank} = dp|dr \cdot 0.5 \cdot \frac{R \cdot R - C_H \cdot R}{\mu}$$

Example with Units

$$13.3824\,\text{m/s} = 60\,\text{N/m}^3 \cdot 0.5 \cdot \frac{0.7\,\text{m} \cdot 0.7\,\text{m} - 50\,\text{mm} \cdot 0.7\,\text{m}}{10.2\,\text{P}}$$

15.13) Velocity of Piston for Pressure reduction over Length of Piston Formula

Evaluate Formula

Formula

$$v_{piston} = \frac{\Delta Pf}{\left(3 \cdot \mu \cdot \frac{L_P}{C_R^3}\right) \cdot (D)}$$

Example with Units

$$0.0562\,\text{m/s} = \frac{33\,\text{Pa}}{\left(3 \cdot 10.2\,\text{P} \cdot \frac{5\,\text{m}}{0.45\,\text{m}^3}\right) \cdot (3.5\,\text{m})}$$

15.14) Velocity of Piston given Shear Stress Formula

Evaluate Formula

Formula

$$v_{piston} = \frac{\tau}{1.5 \cdot D \cdot \frac{\mu}{C_H \cdot C_H}}$$

Example with Units

$$0.0435\,\text{m/s} = \frac{93.1\,\text{Pa}}{1.5 \cdot 3.5\,\text{m} \cdot \frac{10.2\,\text{P}}{50\,\text{mm} \cdot 50\,\text{mm}}}$$

15.15) When Shear Force is Negligible Formulas

15.15.1) Dynamic Viscosity for Total Force in piston Formula

Evaluate Formula

Formula

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

Example with Units

$$0.1002\,\text{P} = \frac{2.5\,\text{N}}{0.75 \cdot 3.1416 \cdot 0.045\,\text{m/s} \cdot 5\,\text{m} \cdot \left(\left(\frac{3.5\,\text{m}}{0.45\,\text{m}}\right)^3\right)}$$

15.15.2) Length of Piston for Total Force in Piston Formula

Evaluate Formula

Formula

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

Example with Units

$$4.913\,\text{m} = \frac{2.5\,\text{N}}{0.75 \cdot 3.1416 \cdot 10.2\,\text{P} \cdot 0.045\,\text{m/s} \cdot \left(\left(\frac{3.5\,\text{m}}{0.45\,\text{m}}\right)^3\right)}$$

Variables used in list of Dash Pot Mechanism Formulas above

- 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)*
- **Fs** 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 *(Meter per Second)*
- $u_{Oiltank}$ Fluid Velocity in Oil Tank *(Meter per Second)*
- v_{piston} Velocity of Piston *(Meter per Second)*
- **ΔPf** Pressure Drop due to Friction *(Pascal)*
- **μ** Dynamic Viscosity *(Poise)*
- τ Shear Stress *(Pascal)*

Constants, Functions, Measurements used in list of Dash Pot Mechanism Formulas above

- constant(s): **pi**, 3.14159265358979323846264338327950288 *Archimedes' constant*
- Functions: **sqrt**, sqrt(Number) *A square root function is a function that takes a non-negative number as an input and returns the square root of the given input number.*
- 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 (m^3/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/m^3) *Pressure Gradient Unit Conversion*
- Measurement: **Stress** in Pascal (Pa) *Stress Unit Conversion*

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