



Design of Rigid Flange Coupling Formulas

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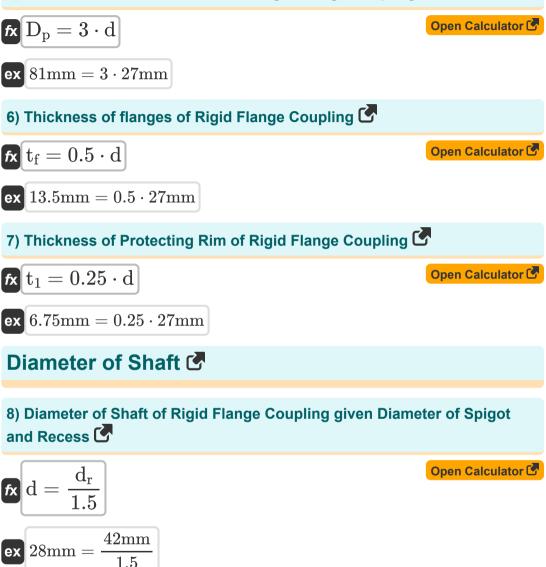








5) Pitch Circle Diameter of Bolts of Rigid Flange Coupling





()

9) Diameter of Shaft of Rigid Flange Coupling given Length of Hub



ex
$$26.66667 \text{mm} = \frac{40 \text{mm}}{1.5}$$

10) Diameter of Shaft of Rigid Flange Coupling given Outside Diameter of Flange

fx
$$d = \frac{D_o - 2 \cdot t_1}{4}$$

ex $27.85mm = \frac{125mm - 2 \cdot 6.8mm}{4}$

11) Diameter of Shaft of Rigid Flange Coupling given Outside Diameter of Hub

fx
$$\mathbf{d} = rac{\mathbf{d}_{\mathrm{h}}}{2}$$

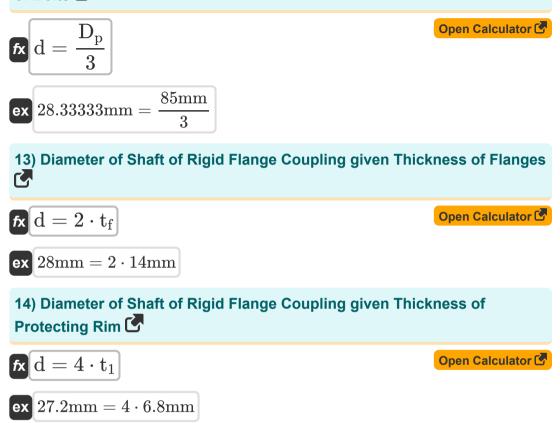
ex
$$27.5$$
mm $= \frac{55$ mm}{2}





Open Calculator

12) Diameter of Shaft of Rigid Flange Coupling given Pitch Circle Diameter of Bolts





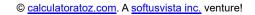
Variables Used

- **d** Diameter of Driving Shaft for Coupling (*Millimeter*)
- **d**_h Outside Diameter of Hub of Coupling (*Millimeter*)
- **D**_o Outside Diameter of Flange of Coupling (*Millimeter*)
- **D**_p Pitch Circle Diameter of Bolts of Coupling (*Millimeter*)
- **d**_r Diameter of Spigot & Recess of Coupling (*Millimeter*)
- I_h Length of Hub for Coupling (*Millimeter*)
- t₁ Thickness of Protecting Rim for Coupling (Millimeter)
- t_f Thickness of Flanges of Coupling (Millimeter)

Constants, Functions, Measurements used

• Measurement: Length in Millimeter (mm) Length Unit Conversion







Check other formula lists

 Design of Rigid Flange Coupling Formulas

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