

$$\text{Longitudinal stress: } S_L = M_b / Z + F_{ax} / A_m + P d_o / 4 t$$

$$\text{Shear stress: } \tau = M_T / 2 Z$$

$$\text{Hoop stress: } S_H = P d_o / 2 t$$

Calculations are illustrated for a 6-inch nominal diameter, standard wall pipe (assuming the piping loads are known):

**Cross sectional properties:**

$$d_o = 6.625 \text{ in}$$

$$d_i = 6.065 \text{ in}$$

$$t = 0.280 \text{ in}$$

$$Z = 8.496 \text{ in}^3$$

$$A_m = 5.5813 \text{ in}^2$$

**Piping loads:**

$$\text{Bending moment (} M_b \text{)} = 4247 \text{ ft-lb}$$

$$\text{Axial force (} F_{ax} \text{)} = 33488 \text{ lb}$$

$$\text{Pressure (} P \text{)} = 600 \text{ psi}$$

$$\text{Torsional Moment (} M_T \text{)} = 8495 \text{ ft-lb}$$

Longitudinal stress:

$$\begin{aligned} S_L &= 4247 \times 12 / 8.496 + 33488 / 5.5813 + 600 \times 6.625 / 4 (0.280) \\ &= 15547 \text{ psi} \end{aligned}$$

Shear stress:

$$\tau = 8495 \times 12 / 2 (8.496) = 5999 \text{ psi}$$

Hoop stress:

$$S_H = 600 \times 6.625 / 2 (0.280) = 7098 \text{ psi}$$

# Manual Calculation Pipe Stress Analysis

**Q. N. Truong, W. E. Short, L. I. Ezekoye**

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