

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

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

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

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:

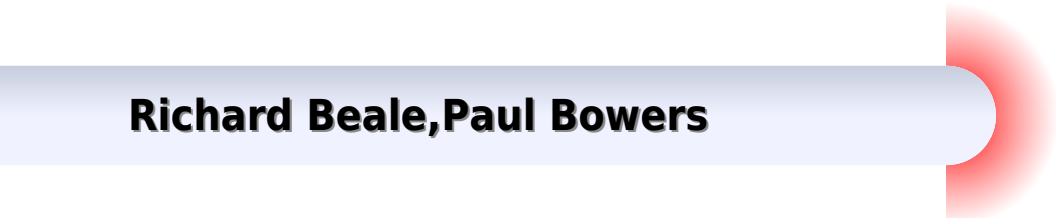
$$\tau = 8495 \times 12 / 2 (8.496) = 5999 \text{ psi}$$

Hoop stress:

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

Manual Calculation Of Piping Stress

Richard Beale, Paul Bowers



Manual Calculation Of Piping Stress:

Piping and Pipeline Calculations Manual Philip Ellenberger, 2014-01-22 Piping and Pipeline Calculations Manual Second Edition provides engineers and designers with a quick reference guide to calculations codes and standards applicable to piping systems The book considers in one handy reference the multitude of pipes flanges supports gaskets bolts valves strainers flexibles and expansion joints that make up these often complex systems It uses hundreds of calculations and examples based on the author's 40 years of experiences as both an engineer and instructor Each example demonstrates how the code and standard has been correctly and incorrectly applied Aside from advising on the intent of codes and standards the book provides advice on compliance Readers will come away with a clear understanding of how piping systems fail and what the code requires the designer manufacturer fabricator supplier erector examiner inspector and owner to do to prevent such failures The book enhances participants understanding and application of the spirit of the code or standard and form a plan for compliance The book covers American Water Works Association standards where they are applicable Updates to major codes and standards such as ASME B31 1 and B31 12 New methods for calculating stress intensification factor SIF and seismic activities Risk based analysis based on API 579 and B31 G Covers the Pipeline Safety Act and the creation of PhMSA

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The Planning Guide to Piping Design Richard Beale, Paul Bowers, 2013-11-25 Fresh off of volume two of his piping series Advanced Piping Design Peter Smith has joined forces with skilled consultants to take his piping series to the next level The Planning Guide to Piping Design covers the entire process of planning a plant model project from conceptual to mechanical completion and explains where the piping lead falls in the process along with his roles and responsibilities Piping Engineering Leads or PEL's used to only receive on the job training to learn the operation of producing a process plant Over time more schools and programs have developed a more advanced curriculum for piping engineers and designers However younger generations of engineers and designers are growing up with

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