

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

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

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

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:

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

# Piping Stress Analysis Manual Calculation

**Keith Escoe**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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*Piping and Pipelines Assessment Guide* Keith Escoe, 2006-04-10 Whether it's called fixed equipment at ExxonMobil stationary equipment at Shell or static equipment in Europe this type of equipment is the bread and butter of any process plant Used in the petrochemical industry pharmaceutical industry food processing industry paper industry and the manufacturing process industries stationary equipment must be kept operational and reliable for companies to maintain production and for employees to be safe from accidents This series the most comprehensive of its kind uses real life examples and time tested rules of thumb to guide the mechanical engineer through issues of reliability and fitness for service This volume on piping and pipeline assessment is the only handbook that the mechanical or pipeline engineer needs to assess pipes and pipelines for reliability and fitness for service Provides essential insight to make informed decisions on when to run alter repair monitor or replace equipment How to perform these type of assessments and calculations on pipelines is a hot issue in the petrochemical industry at this time There is very little information on the market right now for pipers and pipeliners with regard to pipe and pipeline fitness for service

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Coulson, 2013-10-22 An introduction to the art and practice of design as applied to chemical processes and equipment It is intended primarily as a text for chemical engineering students undertaking the design projects that are set as part of undergraduate courses in chemical engineering in the UK and USA It has been written to complement the treatment of chemical engineering fundamentals given in Chemical Engineering volumes 1 2 and 3 Examples are given in each chapter to illustrate the design methods presented      *PIPING ENGINEERING* Prabhu TL, Unlock the intricate world of piping engineering with this comprehensive guide that delves deep into the art and science of fluid conveyance systems Whether you re an aspiring engineer seeking to refine your skills or a seasoned professional looking to expand your expertise Piping Engineering offers a wealth of knowledge to elevate your understanding of this critical discipline The Art of Fluid Conveyance Step into the heart of fluid transport as Piping Engineering takes you on a journey through the principles and practices of piping design analysis and optimization From fluid dynamics to material selection each aspect is meticulously explored providing a solid foundation for engineering success Key Themes Explored Fluid Mechanics Master the principles of fluid behavior flow rates and pressure gradients to create efficient piping systems Piping Design Layout Learn the art of

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**Chemical Engineering: Chemical engineering design** John Metcalfe Coulson, John Francis Richardson, 1993

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Chemical Engineering John Metcalfe Coulson, R. K. Sinnott, John Francis Richardson, 1983 An introduction to the art and practice of design as applied to chemical processes and equipment It is intended primarily as a text for chemical engineering students undertaking the design projects that are set as part of undergraduate courses in chemical engineering in the UK and USA It has been written to complement the treatment of chemical engineering fundamentals given in Chemical Engineering volumes 1 2 and 3 Examples are given in each chapter to illustrate the design methods presented

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hg are compressed to 725 mm hg at constant temperature what is the new volume a gas with a volume of 4 l at a pressure of 205kpa is allowed to expand to a volume of 12 l

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v v ideal gas equation pv nrt ideal gas equation pv nrt ideal gas equation example 2 31 g of some gas has the volume of 0.706 l at 2.5 atm and room temperature 25 °C

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mm mv  $d = \frac{70.9 \text{ g}}{22.4 \text{ l}}$  3.17 g/l 2 molar volume is the volume when n = 1.00 mole

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