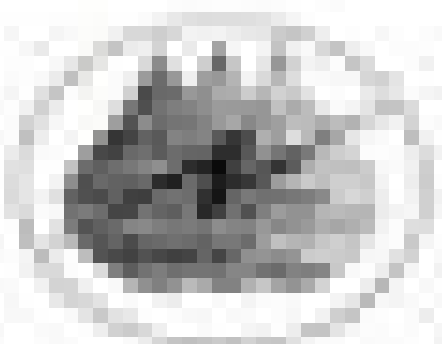


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## GENERAL GUIDELINES

1. Building Plan.
  - a) Daily water consumption.
  - b) Water source.
2. Foundation.
3. General Plan.
  - a) Electrical code listing.
  - b) Filtration.
  - c) Sewerage line / External water.
  - d) Heating.
  - e) Fueling around the plant.
  - f) Temporary site office.
4. Map-drawings and approvals.

## PRESSURE VESSEL HANDBOOK

*Twelfth Edition*

*with foreword by*  
**Paul Butted**  
*Professor of Chemical Engineering  
University of Tulsa  
Tulsa, Oklahoma*

**Eugene F. Megyesy**

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George H. Carter, Jr.

EXTERNAL PRESSURE FORMULAS

NOTATION  
 $P_s$  = External design pressure, psi  
 $P_w$  = Maximum allowable working pressure, psi  
 $R_o$  = Outside diameter of the head, in.  
 $R_i$  = Inside radius of sphere or hemispherical head, 4.50, for ellipsoidal heads, inside corner radius of flanged and rolled heads, in.  
 $t$  = Minimum required wall thickness, inches  
 $Y$  = Modulus of elasticity of material, psi (page 45)

**SPHERE and HEMISPHERICAL HEAD**  
The maximum allowable pressure  $P_s = \frac{2SE}{R_o}$   
The value of  $t$  shall be determined by the following procedure:  
1. Assume the value for  $t$  and calculate the value of  $P_s$  using the formula and (12.4.2) (page 45).  
2. Enter the appropriate material stress (page 45) at the value of  $P_s$  from outside of the applicable temperature line.  
3. From the temperature curve horizontally and read the value of  $t$  falling on the left of the graph.  
If the maximum allowable working pressure  $P_w$  is greater than the design pressure, a greater value for  $t$  must be selected and the design pressure revised.

**2:1 ELLIPSOIDAL HEAD**  
The required thickness shall be the greater of the following thicknesses:  
(1) The thickness as computed by the formulae given for internal pressure using a design pressure 1.33 times the external pressure and joint efficiency  $E = 1.0$ .  
(2) The thickness provided by formula  $P_s = \frac{2SE}{R_o}$ , where  $R_o = 1.5 D$ , and  $D$  to be determined as for sphere.

**ASME FLANGED AND RIMMED HEAD (CONSTRUCTION B)**  
The required thickness and maximum allowable pressure shall be computed by the provisions given for ellipsoidal heads. (See also (B) maximum  $D$ ).

EXAMPLES

DESIGN DATA:  
 $P = 15$  psig external design pressure  
 $D_o = 76$  inches outside diameter of head  
Material of the head SA-516C plate  
NOMT design temperature

Determine the required head thickness.  
SEE DESIGN DATA ABOVE  
Assume a head thickness:  $t = 0.25$  in.  $R_o = 48.00$  in.  
 $s = 0.125(48.00/25) = 0.0002$   
From Fig. 12.3-2, 3 (page 42)  $R = 1000$  determined by the procedure described on the facing page.  
 $P_s = 4500(48.00/25) = 43.27$  psi  
Since the maximum allowable working pressure  $P_w$  is considerably greater than the design pressure  $P_s$ , more thickness would be satisfactory.  
For a second trial, assume a head thickness:  $t = 0.1875$  in.  
 $R_o = 48.00$  in.  
 $s = 0.125(48.00/1875) = 0.0003$   
 $P_s = 4500$ , then sheet (page 45),  $P_s = 4040$ ,  $P_s = 4500(48) = 36.3$  psi.  
The assumed thickness:  $t = 0.1875$  in. is satisfactory.

SEE DESIGN DATA ABOVE. Provision (2)  
Assume a head thickness:  $t = 0.3125$  in.  $R_o = 0.9 \times 76 = 68.4$  in.  
 $s = 0.125(68.4/3125) = 0.0004$   
 $R = 1000$  from sheet (page 45),  $P_s = 8(P_s)/s = 4500(76) = 33.3$  psi.  
Since the maximum allowable pressure  $P_w$  is greater than the design pressure  $P_s$ , the assumed thickness is satisfactory.

SEE DESIGN DATA ABOVE. Provision (2)  
Assume a head thickness:  $t = 0.3125$  in.  $R_o = 76$  in.  
 $s = 0.125(76/3125) = 0.0004$   
 $P_s = 1500$  from sheet (page 45),  $P_s = 8(P_s)/s = 1300(76) = 14.93$  psi.  
Since the maximum allowable pressure  $P_w$  is greater than the design pressure  $P_s$ , the assumed thickness is satisfactory.

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In a mixture of gases, each constituent gas has a partial pressure which is the notional pressure of that constituent gas as if it alone occupied the entire volume of the original mixture at the same temperature. The total pressure of an ideal gas mixture is the sum of the partial pressures of the gases in the mixture (Dalton's Law). The partial pressure of a gas is a measure of ... Coronavirus - Service und Informationen Die Corona-Pandemie bedeutet drastische Einschnitte in allen Lebensbereichen. Auf dieser Seite finden Sie alle Informationen der Deutschen Rentenversicherung, die jetzt wichtig sind: Beratung und Erreichbarkeit, Online-Antragstellung, Servicetipps und vieles mehr. Drowning is a type of suffocation induced by the submersion or immersion of the mouth and nose in a liquid. Most instances of fatal drowning occur alone or in situations where others present are either unaware of the victim's situation or unable to offer assistance. 19/03/2021 · 日本ゴム協会東海支部講演会, 2017年11月16日, 名古屋. 山口政之 分子運動を利用した自己修復性 高分子の設計と課題; 高分子学会北陸支部研究発表会, 2017年11月18日-11月19日, 新潟. 猪俣俊樹、山口政之 非相溶系ポリマー-対における可塑剤の相間移動とその応用

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