

Estimating Pressure Vessels Weights

It is important to be able to estimate vessel weights, since most cost estimating procedures start with the weight of the vessel. The vessel weight, both empty and full with water, may be necessary to adequately design a foundation or to assure that the vessel can be lifted or erected once it gets to the construction site.

The weight of a vessel is made up of the weight of the shell, the weight of the heads, and the weight of internals, nozzles, pedestals, and skirts. The last two terms are defined in Figure 12-3.

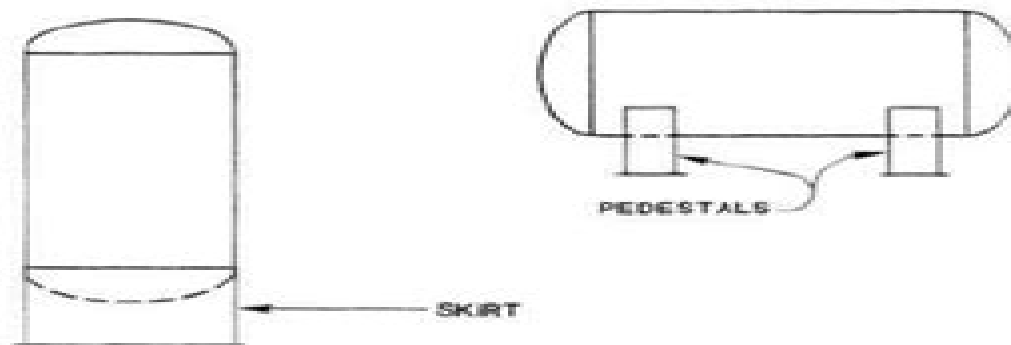


Figure 12-3. Vessel support devices.

The shell weight can be estimated from:

$$W = 11dsL \quad (12-5)$$

where W = weight, lb
 d = ID, in.
 t = wall thickness, in.
 L = shell length, ft.

The weight of one 2:1 ellipsoidal head is approximately:

$$W = 0.34d^2 + 1.9td \quad (12-6)$$

The weight of a cone is:

$$W = \frac{0.23\pi d^2}{\sin \alpha} \quad (12-7)$$

α = one half the cone apex angle.

The weight of nozzles and internals can be estimated at 5 to 10% of the sum of the shell and head weights. The weight of a skirt can be estimated as the same weight per foot as the shell with a length given by Equation 12-8 for an ellipsoidal head and Equation 12-9 for a conical head.

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Table of Contents Richardson Estimating Manual Pressure Vessels

1. Understanding the eBook Richardson Estimating Manual Pressure Vessels
 - The Rise of Digital Reading Richardson Estimating Manual Pressure Vessels
 - Advantages of eBooks Over Traditional Books
2. Identifying Richardson Estimating Manual Pressure Vessels
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Richardson Estimating Manual Pressure Vessels
 - User-Friendly Interface
4. Exploring eBook Recommendations from Richardson Estimating Manual Pressure Vessels
 - Personalized Recommendations
 - Richardson Estimating Manual Pressure Vessels User Reviews and Ratings
 - Richardson Estimating Manual Pressure Vessels and Bestseller Lists
5. Accessing Richardson Estimating Manual Pressure Vessels Free and Paid eBooks
 - Richardson Estimating Manual Pressure Vessels Public Domain eBooks
 - Richardson Estimating Manual Pressure Vessels eBook Subscription Services
 - Richardson Estimating Manual Pressure Vessels Budget-Friendly Options
6. Navigating Richardson Estimating Manual Pressure Vessels eBook Formats
 - ePub, PDF, MOBI, and More
 - Richardson Estimating Manual Pressure Vessels Compatibility with Devices
 - Richardson Estimating Manual Pressure Vessels Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Richardson Estimating Manual Pressure Vessels
 - Highlighting and Note-Taking Richardson Estimating Manual Pressure Vessels
 - Interactive Elements Richardson Estimating Manual Pressure Vessels

8. Staying Engaged with Richardson Estimating Manual Pressure Vessels
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Richardson Estimating Manual Pressure Vessels
9. Balancing eBooks and Physical Books Richardson Estimating Manual Pressure Vessels
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Richardson Estimating Manual Pressure Vessels
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Richardson Estimating Manual Pressure Vessels
 - Setting Reading Goals Richardson Estimating Manual Pressure Vessels
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Richardson Estimating Manual Pressure Vessels
 - Fact-Checking eBook Content of Richardson Estimating Manual Pressure Vessels
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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