

Ellipsoidal Pressure Vessel Head

Ellipsoidal heads are used as end caps on pressure vessels and tanks. The ellipsoidal head is made from steel and withstands internal pressure, suitable for chemical processing, oil and gas, and power generation.



Overview

Ellipsoidal Pressure Vessel Head

These ellipsoidal heads, also known as elliptical heads, serve as critical end caps for pressure vessels and tanks. Engineered from high-quality steel, they are designed to withstand significant internal pressure while offering superior structural strength compared to hemispherical alternatives. Their optimized geometry requires less material than torispherical heads, making them an efficient choice for demanding industrial applications.

Technical Specifications

Head Shape	Ellipsoidal (Elliptical)
Material	High-quality steel
Compliance	ASME Compliant, Pressure Vessel Standard

Key Features

Design Advantages

- Superior strength-to-weight ratio
- Optimized material usage compared to torispherical heads
- High internal pressure resistance
- Welding-ready edge preparation

Applications

Suitable Industries

Chemical Processing • Oil & Gas • Power Generation