



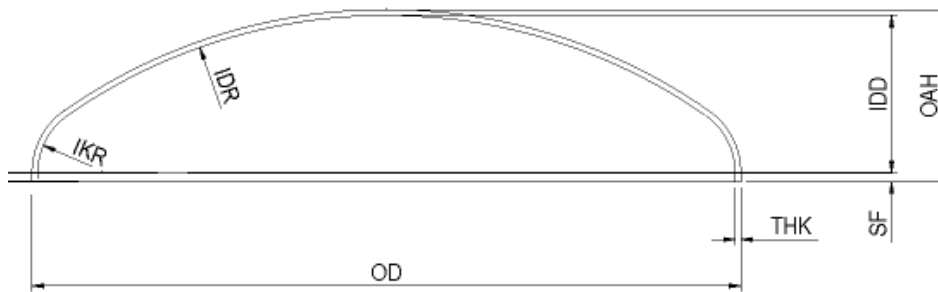
ASME 80-10

Specifications

Inside Dish Radius:	80% of diameter (See ASME Section VIII, Division I, UG-32 for clarification)
Inside Knuckle Radius:	10% of diameter (See ASME Section VIII, Division I, UG-32 for clarification)
Typical Thin Out Allowance:	1/2" and Under - Add .0625" to the minimum Over 1/2" - Add 15% to 20% of minimum depending on thickness and diameter

Why use an 80-10?

As the inside diameter of high alloy pressure vessel heads increases in size, savings in material cost can be achieved by designing 80-10 Torispherical heads rather than standard ASME Torispherical or Ellipsoidal shapes. It features a dish radius equal to 80% of the diameter, and an inside knuckle radius equal to 10% of the head diameter. The 80-10 is typically only 66% the thickness of the ASME Torispherical. The Ellipsoidal head is slightly thinner, but cost savings will be offset by added labor cost and a larger blank size. The 80-10 head, developed by Brighton Corporation, meets all the requirements of the ASME Unfired Pressure Vessel Code.



- IKR:** Inside Knuckle Radius
- IDR:** Inside Dish Radius
- THK:** Thickness
- OD:** Outside Diameter
- SF:** Straight Flange
- IDD:** Inside Depth of Dish
- OAH:** Overall Height

Capabilities

Diameter	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-3/8"	1-1/2"	1-3/4"
18	●	●	●	●								
24	●	●	●	●	●							
40	●	●	●	●	●	●						
48	●	●	●	●	●	●	●	●				
60	●	●	●	●	●	●	●	●				
72	●	●	●	●	●	●	●	●	●	●	●	
84	●	●	●	●	●	●	●	●	●	●	●	●
96	●	●	●	●	●	●	●	●	●	●	●	●
108		●	●	●	●	●	●	●	●	●	●	●
120		●	●	●	●	●	●	●	●	●	●	●
144		●	●	●	●	●	●	●	●	●	●	●
156			●	●	●	●	●	●	●	●	●	●
164			●	●	●	●	●	●	●	●	●	●
180			●	●	●	●	●	●	●	●	●	●
192			●	●	●	●	●	●	●	●	●	
216				●	●	●	●	●	●			
240				●	●	●	●	●	●			
268				●	●	●	●	●	●			
276				●	●	●	●	●	●			

Heads over 276" can be fabricated as segmented heads. Heads over 1½" on application. Parameters are given as reference only. Please contact a sales representative for specific inquiries. Other sizes and thicknesses, including light gauge jacket heads, are available upon application.