

OMEGA



THERMO PRODUCTS

TANK COMPONENTS: TANK HEADS

WWW.OMEGATHERMOPRODUCTS.COM



LEADING IN HEAT TRANSFER TECHNOLOGY

Omega Thermo Products is one of the few suppliers that can supply tank heads with Laser Plates under ASME, CE-PED, and CRN certifications. Our tank heads are used for process tanks, with a full vacuum or high pressure prevailing in the tank. We can supply tank heads either with or without laser plate heat transfer. Our tank heads are used in the food and beverage, chemical, pharmaceutical and many other applications and industries.

Design

Two flat sheets of stainless steel are welded together and after this process the flat heads are then formed. If heat transfer is added to the head, the Laser Plate covers 80% of the heads surface to allow the head to be formed without damaging the laser welded portion. The forming is hydro formed or bump formed depending on the size of the head. The heads are sent to the customer fully formed, trimmed and ready to be installed on the tank. The heads can be supplied either uninflated or inflated depending on what is requested by the customer.

Advantages

Using a laser welded head is a cost savings over welding on pre-formed dimple. There is also flexibility in design for isolations of tank connections and openings.

Dished Heads

Plate material thickness: 12 ga. - 1/2"
Material types: 304 or 316L stainless steel
Finish: 2B, #4, MILL
KR: 3/4", 1", 2", 3", 4", 5", 6", 7"
SF: Up to 2"



Standard F&D Heads

Dish Radius is equal to 100% of Diameter
Diameter: 18"-147"



Shallow F&D Heads

Dish Radius is equal to 120-150% of Diameter
Diameter: 18"-147"



Reverse F&D Heads

Dish Radius is equal to 150% of Diameter

Diameter: 48"–72"

Thickness: 12ga–3/8"

KR: 3/4"–5"



ASME F&D Heads

Dish Radius is equal to 100% of Diameter

Knuckle Radius is equal to 6%

Diameter: 18"–132"

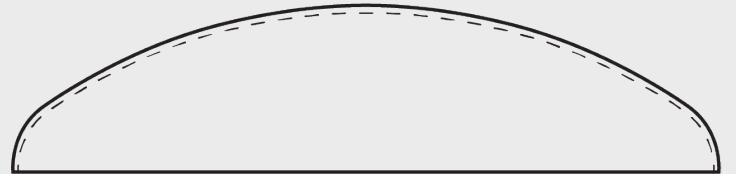


ASME 80/10 F&D Heads

Dish Radius is equal to 80% of Diameter

Knuckle Radius is equal to 10%

Diameter: 24"–72"



Dished Only Heads

Dish Radius is equal to 100% of Diameter

Diameter: 24"–149"



2:1 Elliptical Heads

Diameter: 24"–48"

Thickness: 7ga–3/8"



Flat Flanged Heads

Diameter: 14"–144"

KR: 3/8", 3/4", 1", 2", 3", 4"

Thickness: 14ga–1/4"

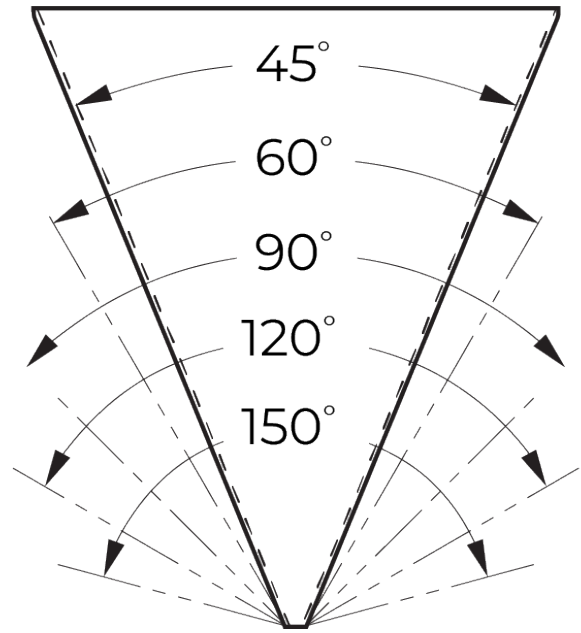
Type: 304, 316L

Finish: 2B, #4, MILL



Conical Heads

Round, Rectangular
Concentric, Eccentric
Includes angles from 45°-150°
Diameter: 24"-144"
Thickness: 14ga-1/4"
Type: 304, 316L
Finish: 2B, #4, MILL
KR: 3/4", 1", 2", 3", 4", 5", 6", 7"
SF: Up to 2"



Special Plate Sizes & 5-Axis Cutting:

All Omega plates are CNC laser welded, which allows us to create virtually any size or configuration plate for new equipment design or direct replacement needs. We offer state-of-the-art 5-axis cutting technology allowing any angle or shape to be cut or trimmed for connections or specific geometry needs.

Engineering & Design

Information included in this literature illustrates standard tank head features and options. Omega has on staff engineers prepared to help with any thermal sizing or special design needs.



Tank Head forming press

RFQ FORM

CUSTOMER:		REF #:		DATE:	
RFQ NOTES:					

ITEM SPECS

1	HEAD TYPE			DIAMETER		ID/OD	
	DISH RADIUS (Std,SP)		DEG (INCL)		MATL		GRADE
	KR		SF		FINISH ID		FINISH OD
	HTS (Yes/No)		HTS GA		PVC (ID,OD, P2S)		EDGE (SQ,B,T)
	NOTES:				CODE (Yes/No)		MTRs (Yes/No)

ITEM SPECS

2	HEAD TYPE			DIAMETER		ID/OD	
	DISH RADIUS (Std,SP)		DEG (INCL)		MATL		GRADE
	KR		SF		FINISH ID		FINISH OD
	HTS (Yes/No)		HTS GA		PVC (ID,OD, P2S)		EDGE (SQ,B,T)
	NOTES:				CODE (Yes/No)		MTRs (Yes/No)

HEAD TYPES:	Standard F&D
ASME F&D	Reverse F&D
2:1 Elliptical	Shallow F&D
80:10 F&D	Dished Only
Flat Flanged	Cone

DISH RADIUS:	PVC:
Std = Standard	ID Only
SP = Special*	OD Only
*Specify DR	P2S = Both Sides

EDGE:
SQ = Square
B = Bevel*
T = Taper*

**Cone Degree Specified as Interior/Included Angle*

**MUST SPECIFY ID/OD*

Omega Thermo Products Certifications

OMEGA THERMO PRODUCTS
 212700 LASER DRIVE
 STRATFORD, WI 54484
 PHONE: 715.687.8102
 OMEGA@LASER-PLATE.COM



ASME U-stamp, Canadian Registration Number, PED

