

Corporate Headquarters
 2631 Highway J
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SOLUTIONS FOR EXTENDING EXCHANGER LIFE

Engineering & Manufacturing
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HYDRAULIC SLEEVE EXPANSION DATA SHEET

DATE	CONTACT	PHONE
HYDRAULIC EXPANSION END USER		JOB #

SCOPE OF APPLICATION AND SPECIFICATIONS

NEW OR RETUBE	NUMBER OF EXPANSIONS	APPROXIMATE START DATE
TYPE OF UNIT:		
<input type="radio"/> Heat Exchanger	<input type="radio"/> Boiler	
<input type="radio"/> Condenser	<input type="radio"/> Other (Describe):	
<input type="radio"/> Feedwater Heater		

PARENT TUBES

MATERIAL	MIN. YIELD	MIN. TENSILE
O.D.	WALL THICKNESS/GAGE	WALL (CIRCLE ONE): <i>Avg. / Min. / Nominal</i>
ACTUAL TUBE I.D. MEASUREMENT	TYPE: <i>Seamless / Welded</i>	
U-BEND OR STRAIGHT	OVERALL LENGTH OF TUBE	
SETTING OF TUBE TO TUBESHEET PRIMARY FACE: <i>(Recessed / Flush / Protruding, etc.)</i>		
PITCH	HOLE PATTERN	
ARE THE TUBES WELDED TO THE TUBESHEET:	<i>Yes / No</i>	<i>Seal / Strength</i>

TUBESHEET

TOTAL THICKNESS	MATERIAL	MIN. YIELD	MIN. TENSILE
CLAD: <i>Yes / No</i>	THICKNESS	MATERIAL	
SHELL ATTACHED: <i>Yes / No</i>	PARTITION PLATE: <i>Yes / No</i>		
IF "YES" TO EITHER OF THE ABOVE: SHORTEST DISTANCE BETWEEN HOLE CENTER LINE AND SHELL/PLATE			

SLEEVE

LENGTH	MAT'L	TYPE <i>(Seamless, Welded Drawn, etc.)</i>
OVERALL LENGTH	WALL THICKNESS/GAGE	
INLET SHAPE <i>(Straight, Rolled, Flared, etc.)</i>	OUTLET DESIGN <i>(Straight, Chamfered, etc.)</i>	

SPECIFICATIONS (IF APPLICABLE)

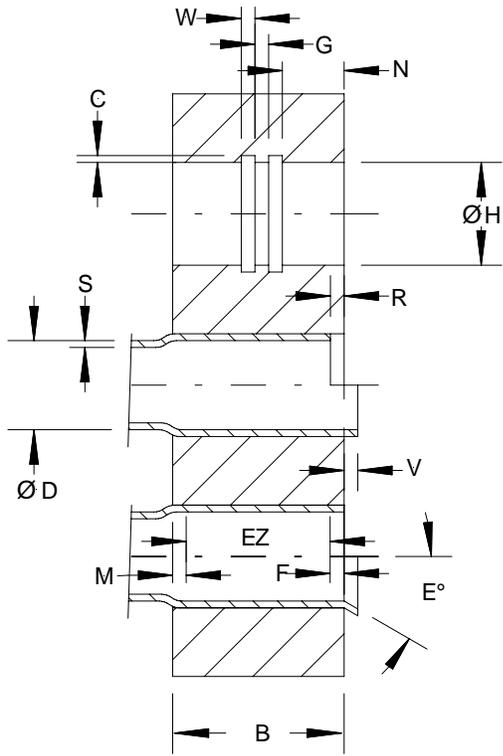
Please provide any available drawings, sketches, or blueprints, as well as performance requirements regarding working and test pressure of the vessel.

Drawings Supplied: *Yes / No*

Signature: _____ Date: _____

DATA SHEET SUPPLEMENT

The Data Sheet Supplement form is provided as an aid and can be useful when gathering information for filling out the data sheet. Only the completed Data Sheet must be sent in.

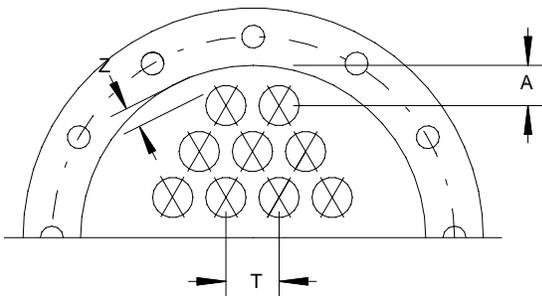


 Tube o.d. (D) _____
 Tube wall thickness (S) _____
 Tube material _____

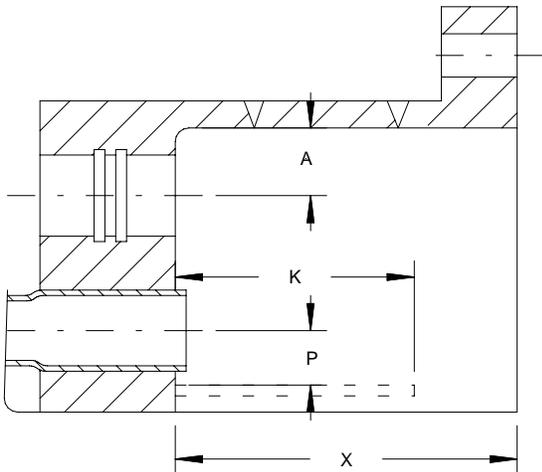
 Tube Hole Diameter (H) _____
 Tube Sheet Thickness (B) _____
 Tube sheet mat'l _____

 Quantity Grooves _____
 Groove width (W) _____
 Groove depth (C) _____
 Gap between grooves(G) _____
 Distance to 1st groove (N) _____

 Expansion zone (EZ) _____
 E.Z. front setback (F) _____
 E. Z. rear setback (M) _____
 Tube protrusion(V) _____
 Tube recess (R) _____
 Bell/Flare angle ° (E) _____



 Hole center -to-center (T) _____
 Center-to-shell (A) _____
 Hole o.d. \-to-shell (Z) _____



 Center-to-shell (A) _____
 (same as above)
 Division plate height (K) _____
 Hole Center to div. plate (P) _____
 Depth of channel (X) _____