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THICKNESS

PITCH



Engineering & Manufacturing 2631 Highway J Bourbon, MO 65441 Phone (573) 732-3318 Fax (573) 732-9408

World Leaders in Equipment and Technology for Hydraulic Tube Expansion

HYDRAULIC EXPANSION DATA SHEET

DATE	CONTACT					PHONE	
HYDRAULIC EXPANSION END US					JOB#		
	FION AND C	DEGLEIGATIONS				·	
SCOPE OF APPLICATION OF RETUBE		PECIFICATIONS R OF EXPANSIONS		ADDDOVIM	ATE STADT DATE		
				APPROXIMATE START DATE			
TYPE OF UNIT: O Heat Exchanger		O <i>Boiler</i>	O Boiler				
O Condenser		O Other (Describe	O Other (Describe):				
O Feedwate	er Heater						
TUBES							
QTY TUBES			ACTUAL YIELD		ACTUA	ACTUAL TENSILE	
0.D.	WALL	THICKNESS/GAGE		WA	LL (CIRCLE ONE):	Avg. / Min. / Nominal	
ACTUAL TUBE I.D. MEASUREME	NT					mless / Welded Drawn	
U-BEND OR STRAIGHT	U-BEND OR STRAIGHT			H OF TUBE	<u> </u>		
SETTING OF TUBE TO TUBESHEE	F PRIMARY FACE:	Recessed / Flush	/ Protruding				
MAX. PROTRUSION OF TUBE ON	SECONDARY TUB	•	, <u>6</u>				
ARE THE TUBES TO BE WELDED 1	O THE TUBESHEE	T: Yes / No	HAVE TUBES BE	EN PROPERLY	ANNEALED: YA	es / No	
		100/ 110					
TUBESHEET							
TOTAL THICKNESS		MATERIAL	ACTU	AL YIELD	ACT	UAL TENSILE	
CLAD: Yes / No		THICKNESS	THICKNESS MATERIAL				
SHELL ATTACHED: Yes / No)	PARTITION PLATE: Ye	PARTITION PLATE: Yes / No				
IF "YES" TO EITHER OF THE ABOVE: SHORTEST DISTANCE BETWEEN HOLE CENTER LINE AND SHELL/PLATE							
HOLES							
DIAMETER		CHAMFER: Yes	/ No WHERE	IS THE CHAM	FER LOCATED: Fa	ace / Back	
DEGREE OF CHAMFER				DEPTH OF THE CHAMFER			
GROOVES							
NUMBER Note: as a	minimum, placen	nent of the 1st groove should	begin 1/2" from the	face of the tub	esheet or in the cer	nter based on tubesheet thickness.	
TEMA: Yes / No	"NO", PLEASE P	ROVIDE SPECIFICATIONS IN	THE AREA PROVIDED	ON PAGE 2.		-	
CUSTOMER RECEPTIVE TO HYDRAULIC EXPANSION GROOVE: Yes/No Note: hydraulic expansion groove is a single wide groove (centered in sheet if possible).							
1							
LIGAMENT							

HOLE PATTERN

HYDRAULIC EXPANSION DATA SHEET (CON'T)

EXPANSION ZONE						
START OF EXPANSION INSIDE TUBESHEET						
STOP OF EXPANSION DISTANCE FROM REAR OF	TUBESHEET					
TOTAL EXPANSION ZONE						
TUBE-TO-TUBESHEET WELD R	REQUIREMENTS					
RE TUBES TO BE WELDED: Yes / No IF "YES": Seal Welded / Strength Welded						
WILL YOU TUBE LOCK PRIOR TO WELD: Yes,	/ No					
WHAT IS THE MAXIMUM COUNTER SINK O.D. FO	DR WELD					
EXPANDING PRESSURE REQU	JIREMENTS					
CONTACT ONLY: Yes / No	HYDROTEST PRESSURE	APPROXIMATE START DATE				
NOTE: WHEN WELDING, THE FOLLOWING EXPAN						
1. TubePro; setting of tube	3. Hydraulic Expand	ammonded when budgeville eventies				
2. Weld Note: <u>No</u> weld rollover is recommended when hydraulic expanding						
Please provide any available drawings, sketche Drawings Supplied: Yes / No	s, or blueprints, as well as performance requi	rements regarding working and test pressure of the vessel.				
		plate, or any other obstruction, creating a situation where expansion would				
take place at a distance from the tubesheet face DISTANCE FROM OUTSIDE FACE OF SHELL OR P						
IS THERE ACCESS FOR A STOP COLLAR TO BE LO		SHELL: Voc. / No.				
IS THERE ASSESS FOR A STOT SOLEAR TO BE E	OUNTED AT TODESTIEET TAGE OR OUTSIDE OF	SHELL: Yes / No				
INTERNAL EXTENSIONS For expansions which require mandrel travel w opposite end.	ithin a tube, re: inner tubesheet of a dual tube	esheet application, baffle expansions, or expansion of a tubesheet through the				
DISTANCE FROM TUBESHEET FACE TO FACE OF	INNER TUBESHEET OR BAFFLE.					
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.

