

Corporate Headquarters  
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SOLUTIONS FOR EXTENDING EXCHANGER LIFE

Engineering & Manufacturing  
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## HYDRAULIC EXPANSION DATA SHEET

DATE	CONTACT	PHONE
HYDRAULIC EXPANSION SITE / PLANT LOCATION		JOB #

### SCOPE OF APPLICATION AND SPECIFICATIONS

NEW OR RETUBE	NUMBER OF EXPANSIONS	APPROXIMATE START DATE
TYPE OF UNIT:		

### TUBES

QTY TUBES	MATERIAL	O.D.	I.D.
<i>Seamless / Welded Drawn</i>	WALL THICKNESS/GAGE	WALL (CIRCLE ONE): <i>Avg. / Min. / Other</i>	
SETTING OF TUBE TO TUBESHEET PRIMARY FACE:	<i>Recessed / Flush / Protruding</i>	(CIRCLE ONE):	<i>U-Bend / Straight</i>
ARE THE TUBES TO BE WELDED TO THE TUBESHEET:	<i>Yes / No</i>	ANNEALED CONDITION:	<i>Yes / No</i>

### TUBESHEET

TOTAL THICKNESS	MATERIAL	THICKNESS	MATERIAL
CLAD: <i>Yes / No</i>	THICKNESS	CLAD MATERIAL	
SHELL ATTACHED: <i>Yes / No</i>	PARTITION PLATE: <i>Yes / No</i>		

### HOLES

ID	CHAMFER: <i>Yes / No</i>	WHERE IS THE CHAMFER LOCATED: <i>Face / Back / Both</i>
DEGREE OF CHAMFER(s)		DEPTH OF THE CHAMFER(s)

### GROOVES

NUMBER	Note: as a minimum, placement of the 1 <sup>st</sup> groove should begin 1/2" from the face of the tubesheet or in the center based on tubesheet thickness.
TEMA: <i>Yes / No</i>	IF "NO", PLEASE PROVIDE SPEC.(s)

### LIGAMENT

THICKNESS	PITCH	HOLE PATTERN
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### EXPANSION ZONE

TOTAL EXPANSION ZONE:	
START OF EXPANSION INSIDE TUBESHEET:	STOP OF EXPANSION DISTANCE FROM REAR OF TUBESHEET:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_