4.19.1 Metric Form Specification Sheet For ASME Section VIII, Division 2 Bellows Expansion Joints, Metric Units					
Date:		Appli	Applicable ASME Code Edition:		
1. Item Number:		Vess	Vessel Manufacturer:		
2. Drawing/Tag/Serial/Job Number:		Vess	Vessel Owner:		
3. Quantity:		Insta	Installation Location:		
4. Size:ODID mm		Expa	Expansion Joint Overall Length: mm		
5. Internal Pressure: Design	MPa				
6. External Pressure: Design	MPa				
7. Vessel Manufacturer Hydrotest Pressure		Interr	nal MPa	External MPa	
8. Temperature	Design °C	Oper	rating °C	Upset °C	
9. Vessel rating	MAWP MPa	ME	OMT °C	Installed Position:	
10. Design Movements: Axial Compression: (–)mm Axial Extension: (+)mm Lateral:mm Angular:deg					
11. Specified number of Cycles:					
12. Shell Material: Bellows Material:				_	
13. Shell thickness mm Shell Corrosion Allowance: Internal: mm External: mm					
14. Shell Radiography: Spot / Full					
15. End Preparation: Square Cut Outside Bevel Inside Bevel Double Bevel (Describe in Line 23 if special)					
16. Heat Exchanger Tube Length Between Inner Tubesheet Faces: mm					
17. Maximum Bellows Spring Rate:		No	Yes	N/mm	
18. Internal Liner:		No	Yes – Material		
19. Drain Holes in Liner:		No	Yes – Quantity/Size:		
20. Liner Flush with Shell ID:		No	Yes – Telescoping Liners	? No Yes	
21. External Cover:		No	Yes – Material:		
22. Pre-Production Approvals Required:		No	Yes – Drawings / Bellows	Calculations / Weld Procedures	
23. Additional Recommendations: (i.e. bellows pre-set, ultrasonic examination, etc.)					
Temporary shipping bars are required to maintain assembly length during shipping and vessel fabrication only, and ARE NOT to be used during vessel hydrotest for expansion joint pressure restraint (see paragraph 4.19.3.1(c) and 4.19.3.1(d).					