

**FORM 26-1 SPECIFICATION SHEET FOR ASME SECTION VIII, DIVISION 1  
MANDATORY APPENDIX 26 BELLOWS EXPANSION JOINTS**

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- Date \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_                      Applicable ASME Code Edition \_\_\_\_\_
1. Item Number \_\_\_\_\_                      Vessel Manufacturer \_\_\_\_\_
2. Drawing/Tag/Serial/Job Number \_\_\_\_\_                      Vessel Owner \_\_\_\_\_
3. Quantity \_\_\_\_\_                      Installation Location \_\_\_\_\_
4. Size \_\_\_\_\_ O.D. \_\_\_\_\_ I.D. in.                      Expansion Joint Overall Length \_\_\_\_\_ in.
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5. Internal Pressure: Design \_\_\_\_\_ psig
6. External Pressure: Design \_\_\_\_\_ psig
7. Vessel Manufacturer Hydrotest Pressure:                      Internal \_\_\_\_\_ psig                      External \_\_\_\_\_ psig
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8. Temperature: Design \_\_\_\_\_ °F                      Operating \_\_\_\_\_ °F                      Upset \_\_\_\_\_ °F
9. Vessel Rating: MAWP \_\_\_\_\_ psig                      MDMT \_\_\_\_\_ °F                      Installed Position: Horiz.                      Vert.
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10. Design Movements [Note (1)]:  
Axial Compression (-) \_\_\_\_\_ in. Axial Extension (+) \_\_\_\_\_ in. Lateral \_\_\_\_\_ in. Angular \_\_\_\_\_ deg
11. Specified Number of Cycles \_\_\_\_\_
12. Design Torsion: Moment \_\_\_\_\_ in.-lb                      or                      Twist Angle \_\_\_\_\_ deg
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13. Shell Material \_\_\_\_\_                      Bellows Material \_\_\_\_\_
14. Shell Thickness \_\_\_\_\_ in.                      Shell Corrosion Allowance: Internal \_\_\_\_\_ in.                      External \_\_\_\_\_ in.
15. Shell Radiography:                      None                      Spot                      Full
16. End Preparation: Square Cut                      Outside Bevel                      Inside Bevel                      Double Bevel                      (Describe in Line 24 if special)
17. Heat Exchanger Tube Length Between Inner Tubesheet Faces \_\_\_\_\_ in.
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18. Maximum Bellows Spring Rate:      N      Y - \_\_\_\_\_ lb/in.
19. Internal Liner:                              N      Y - Material \_\_\_\_\_
20. Drain Holes in Liner:                      N      Y - Quantity/Size \_\_\_\_\_
21. Liner Flush With Shell I.D.:              N      Y - Telescoping Liners? N \_\_\_\_ Y \_\_\_\_
22. External Cover:                              N      Y - Material \_\_\_\_\_
23. Preproduction Approvals Required:      N      Y - Drawings / Bellows Calculations / Weld Procedures
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24. Additional Requirements (e.g., bellows preset, ultrasonic inspection):

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**NOTE:**

- (1) For multiple movements, Design movements (line 10) can be replaced by operating movements, which should then be described under "Additional Requirements" (line 24). For each one of them, axial compression or axial extension, lateral deflection and angular rotation at each extremity of cycle, together with the specified number of cycles, should be indicated. When known, the order of occurrence of the movements should also be indicated.