**EXPANSION JOINT SPECIFICATION**
**LAMINATED, ULTRA-LOW PRESSURE FORCE**
**SERIES 1501-1506**

Expansion joints must be low area, three-ply, internally pressurized designs. The Expansion Joint Manufacturers Association (EJMA) must certify the manufacturer. Use single or dual configurations as specified. Integral pipe attachments must have a radius where the bellows neck is received. Expansion joints with larger effective area, welded to the pipe OD, not of three plies, or attached to a pipe without a radius WILL NOT BE ACCEPTED. Expansion joints will be Hyspan series 1501-1506, or engineer approved equal.

Bellows must be three plies of *304 or 321 stainless steel, with the effective areas listed, and attached to the pipe ID.

Internal liners of stainless steel are required and must remain within the joint over all dimensions under design motions.

Bellows receivers of A53 Gr. B (or A106 Gr. B) standard weight pipe, with internal radii.

Flanges, if specified, are A36 carbon steel plate, or A105 forged, with ANSI B16.5 drilling and outside diameter. Flanges may be fixed or lap joint stub end as specified.

Butt weld ends of schedule standard A53 Gr. B (or A106 Gr. B).

Dual joints must include an intermediate anchor base.

Design Pressure: 150 PSIG
Test Pressure: 225 PSIG
Maximum Temperature: 500° F.

Design Pressure: 300 PSIG
Test Pressure: 450 PSIG
Maximum Temperature: 500° F.

| Pipe Size | Effective Area ($in^2$) | Pipe Size | Effective Area ($in^2$) |
|---|---|---|---|
| 1-1/2″ | 2.3 | 6″ | 33.3 |
| 2″ | 4.1 | 8″ | 56.8 |
| 2-1/2″ | 5.8 | 10″ | 87.2 |
| 3″ | 8.8 | 12″ | 122.0 |
| 4″ | 15.4 | 14″ | 152.0 |
| 5″ | 23.5 | | |

*Use Alloy 625 bellows when chloride-ion, stress-corrosion cracking is a concern.

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