

**EXPANSION JOINT SPECIFICATION
LAMINATED, ULTRA-LOW PRESSURE FORCE, INTERNALLY GUIDED
SERIES 1501/1502 HYRISER**

Hyriser Expansion joints must be low area, three-ply, single, internally pressurized designs incorporating an internal guide liner. The Expansion Joint Manufacturers Association (EJMA) must certify the manufacturer. Integral pipe attachments must have a radius where the bellows neck is received. Expansion joints with larger effective area or axial spring rate, welded to the pipe OD, not of three plies, without internal alignment guide, or attached to a pipe without a radius WILL NOT BE ACCEPTED. 5-Year limited warranty required. Expansion joints will be Hyspan series 1501/1502 HYRISER, 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 guide liners of stainless steel are required and must remain within the joint over all dimensions under design motions and self-drain.

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

Flanges, if specified for 1501 Hyriser Series, 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, if specified for 1502 Hyriser Series, are schedule standard A53 Gr. B (or A106 Gr. B).

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

Pipe Size	Effective Area (in ²)	Axial Spring Rate (lbs/in)
4"	15.4	155
5"	23.5	190
6"	33.3	348
8"	56.8	325
10"	87.2	411
12"	122.0	614

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