

Hinged Expansion Joint

Single-plane angular movement with hinge pins and structural supports.

Hinged expansion joints absorb angular movement in a single plane using hinge pins and structural supports. The hinge carries pressure thrust, so the joint can be used without additional tie rods in the plane of movement.

KEY FEATURES

- Single-plane angular movement
- Hinge pins carry pressure thrust
- No tie rods required in the movement plane
- Heavy-duty structural hinges

SPECIFICATION

ITEM	VALUE
Size range	4–36 in
Pressure class	150 / 300 psi
Angular movement	±12° to ±15°
Hinge	Structural pins and plates
Connection	Flanged or weld end
Design code	EJMA

STANDARDS AND MATERIALS

Standards: EJMA; ASME B31.3; ASTM A240 / A312.

Materials: ASTM A312 TP316L; ASTM A240 321.

ORDERING RANGE

Representative configurations. The full size, material and connection range is confirmed on the order acknowledgement.

SIZE	PRESSURE	MOVEMENT	MATERIAL	PART NUMBER
4"	150 psi	±15°	TP316L	BGI-HJ-0400-150-316L
6"	150 psi	±15°	TP316L	BGI-HJ-0600-150-316L
10"	300 psi	±12°	321	BGI-HJ-1000-300-321
14"	300 psi	±12°	321	BGI-HJ-1400-300-321

APPLICATIONS

- Single-plane piping
- Steam lines
- Expansion loops
- Turbine connections

ORDERING NOTES

Confirm size, pressure class, facing or connection, material and quantity when ordering. For critical service, include the project specification, NDE requirements and documentation package. Alternative materials, coatings, tappings and special dimensions are quoted on request.

Range: Expanders. Document reference: DS-HINGED-EXPANSION-JOINT · Rev. 04.

Ordering and technical support

sales@belvantaglobal.com · +1 (713) 555-0140 · www.belvantaglobal.com

1200 Industrial Parkway, Houston, TX 77032, United States

Quotations are prepared against the released specification. Certified drawings are issued with the order.