

Multi-Plane Expansion Joint

Universal joint for combined axial, lateral and angular movement.

Multi-plane expansion joints combine two bellows and a center spool to absorb axial, lateral and angular movement in multiple planes. They are used in complex piping layouts where a single-plane joint cannot accommodate the movement.

KEY FEATURES

- Combined axial, lateral and angular movement
- Two bellows with center spool
- Tie rods for pressure thrust control
- Custom movement combinations

SPECIFICATION

ITEM	VALUE
Size range	6–60 in
Pressure class	150 / 250 psi
Axial movement	±3 in
Lateral movement	±2 in
Angular movement	±4°
Design code	EJMA

STANDARDS AND MATERIALS

Standards: EJMA; ASME B31.3; ASTM A240 / A312.
Materials: ASTM A312 TP304; ASTM A312 TP316L.

ORDERING RANGE

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

SIZE	PRESSURE	MOVEMENT	MATERIAL	PART NUMBER
8"	150 psi	±3 in axial	TP304	BGI-MP-0800-150-304
12"	150 psi	±3 in axial	TP304	BGI-MP-1200-150-304
16"	250 psi	±2 in lateral	TP316L	BGI-MP-1600-250-316L
24"	250 psi	±2 in lateral	TP316L	BGI-MP-2400-250-316L

APPLICATIONS

- Complex piping layouts
- Plant interconnections
- Retrofit expansion
- Multi-plane movement

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-MULTI-PLANE-EXPANSION-JOINT · Rev. 04.

Ordering and technical support

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