



MICROFLEX INDUSTRIAL

**DOG BONE
EXPANSION JOINTS**

DESIGN

Microflex belt-type **dog bone expansion joints** are designed with an uncompromising standard of quality for years of maintenance free operation in steam turbine/condenser connections at full vacuum to 15 PSIG.

FEATURES

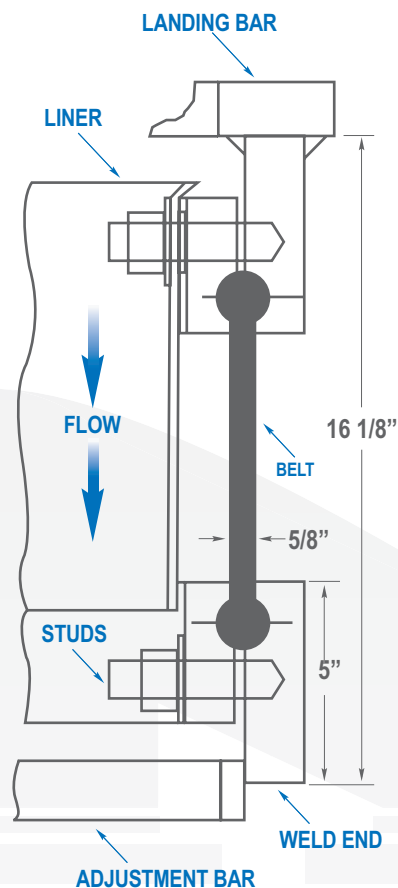
1 EXPANSION BELT

Microflex provides a multiply molded belt, **9 3/8" O.A.L.** with **5/8" thick center** and **1 1/4" diameter ends**. Polyester fabric reinforce the center, with a **1/2" diameter reinforcing cord** in each end. This construction provides a homogenous belt with an ultimate strength of **3000 PSI**.

Rate Movement: 1 3/16" Axial Compression
± 5/8" Lateral offset

Temperature: Neoprene 160°F continuous
275°F intermittent
EPDM 220°F continuous
350°F intermittent

Spring Rate: (lbs/in./perimeter ft.)
470 Axial, 1640 Lateral



2 CLAMP BARS

Precision machined from **1 1/2" thick** carbon steel to insure tight sealing of belt under full vacuum or **15 PSIG**. Frame corners are rounded to a **13 1/2" inside radius**.

3 STUDS

7/8" diameter studs and nuts are spaced on **4" centers**.

4 LINER

An internal flow liner of **1/8" thick 304SS** is provided to prevent flow induced vibration of expansion belt.

5 ENDS

The following methods of attachment are available:

Adjustment Bar (1): 1/2" thick x 1 1/2" wide for fillet welding to weld end of expansion joint and customers equipment.

Weld End (2): 1 1/2" thick square cut ends for fillet welding to customers equipment.

Flanges (3): Thickness and drilling to match customers equipment.

Landing Bar (5): 1 1/4" thick x 3" wide for fillet welding to customers equipment.

HOW TO ORDER > MICROFLEX DOG BONE EXPANSION JOINTS

1 SIZE

Inside dimensions of ends at belt centerline.

2 BELT MATERIAL

DBN: Neoprene: 160°F continuous, 275°F intermittent
DBE: EPDM: 220°F continuous, 350°F intermittent

3 ENDS

- (1): Adjustment bar one end
- (2): Weld end one end
- (3): Flange one end
- (5): Landing bar one end

EXAMPLE

SIZE	MATERIALS	ENDS
14"x-"x23'-5-1/2	DBN	51

DOG BONE

Microflex Inc.



WWW.MICROFLEXINC.COM



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Phone: 386.677.8100 | Fax: 386.672.7623 | microflexinc.com

1800 N. US Highway 1 | Ormond Beach, FL 32174