



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

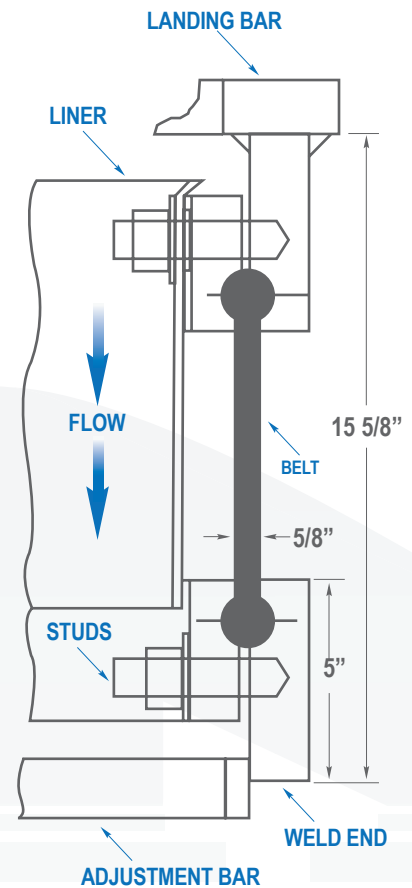
1 EXPANSION BELT

Microflex provides a multiply molded belt, with **5/8" thick center** and **1 1/4" diameter ends**. Nylon fabric reinforces the center, with a **5/8" diameter reinforcing cord** in each end. This construction provides a homogenous belt with an ultimate strength of **2850 PSI**.

Rated Movement: 1" Axial Compression
± 1/2" Lateral offset

Temperature: Neoprene 230°F continuous
280°F intermittent

Spring Rate: (lbs/in./perimeter ft.)
350 Axial, 1120 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 (other thicknesses available).

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

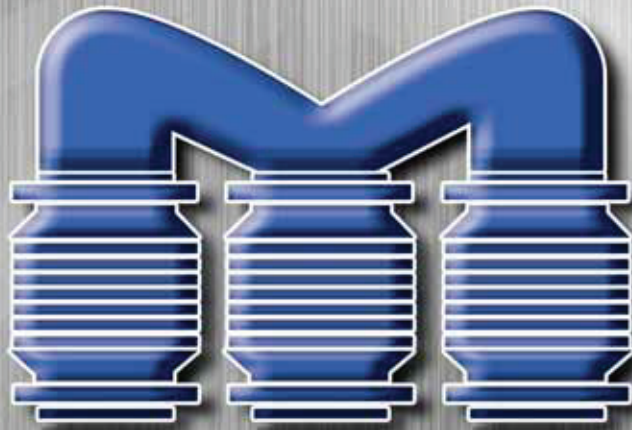
DBN: Neoprene: 230°F continuous, 280°F intermittent

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-1"x23'-5-1/2"	DBN	51



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