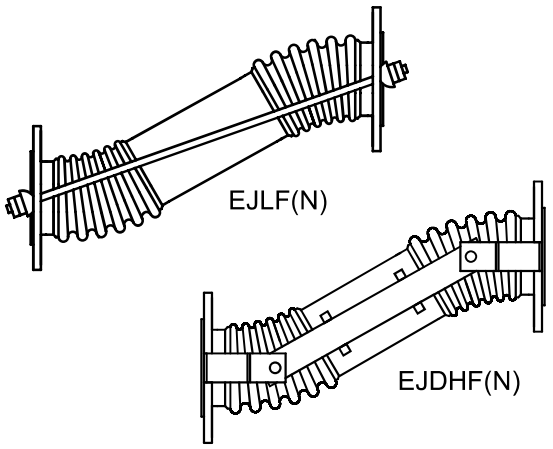
LATERAL EXPANSION JOINTS
Model EJLF + EJLFN, EJDHF + EJDHFN



APPLICATIONS

Lateral expansion joints are designed to accommodate thermal pipe expansion in a lateral direction. Two types are available; the most commonly used is the 'fully articulating' type as it permits lateral deflection in any direction, whereas the 'double hinged' type permits lateral deflection in one plane only.

These models have either mixed carbon steel / stainless steel internal parts OR stainless steel to ALL wetted parts, and can be used accordingly on steel, stainless steel or copper flanged pipe systems for the following applications:-

Low Temperature Heating (LTHW)
Medium Temp. Heating (MTHW)
High Temp. Heating (HTHW)
Domestic Hot Water (DHWS)
Steam and Condensate

Nominal Size DN (mm)	Installation Length (mm)	Lateral Deflection (mm)	Force to Deflect (N)	Spring Rate LAT (N/mm)	Product Code (MODEL-SIZE-OAL-MVT-ENDS)
40	500	25	80	3.2	EJLF / EJDHF(N)-040-0500-25-PN##
50	500	25	80	3.2	EJLF / EJDHF(N)-050-0500-25-PN##
65	500	25	100	4.0	EJLF / EJDHF(N)-065-0500-25-PN##
80	500	25	150	6.0	EJLF / EJDHF(N)-080-0500-25-PN##
100	500	25	170	6.8	EJLF / EJDHF(N)-100-0500-25-PN##
125	500	25	290	12	EJLF / EJDHF(N)-125-0500-25-PN##
150	500	25	700	28	EJLF / EJDHF(N)-150-0500-25-PN##
200	500	25	1400	56	EJLF / EJDHF(N)-200-0500-25-PN##
250	500	25	2500	100	EJLF / EJDHF(N)-250-0500-25-PN##
300	500	25	3600	144	EJLF / EJDHF(N)-300-0500-25-PN##
350	500	25	4000	160	EJLF / EJDHF(N)-350-0500-25-PN##
400	500	25	5100	204	EJLF / EJDHF(N)-400-0500-25-PN##
450	500	25	7200	288	EJLF / EJDHF(N)-450-0500-25-PN##
500	500	25	9650	386	EJLF / EJDHF(N)-500-0500-25-PN##

The data above is typical for SEP applications.
For more demanding applications, the length, movement, deflection force and spring rate will be dependant upon the design for the pressure and temperature of the fluid conveyed.

SPECIFICATION

EJLF - Flanged model with stainless steel bellows and internal flow sleeve (when fluid velocity dictates), carbon steel intermediate tube, carbon steel tie-rods and fixed flanges.

EJLFN - Flanged model with stainless steel bellows, internal flow sleeve (when fluid velocity dictates), intermediate tube, carbon steel tie-rods and flanges with stainless steel van-stone facing (lapped pipe end).

EJDHF - Flanged model with stainless steel bellows and internal flow sleeve (when fluid velocity dictates), carbon steel intermediate tube, carbon steel hinges and fixed flanges.

EJDHFN - Flanged model with stainless steel bellows, internal flow sleeve (when fluid velocity dictates), intermediate tube, carbon steel hinges and flanges with stainless steel van-stone facing (lapped pipe end).

Designed to EJMA* Standards. *Expansion Joint Manufacturers Association.

BS6129 Part 1 applies to the installation.

Conforms with PED* 97/23/EC. *Pressure Equipment Directive.

OPERATING PARAMETERS

Bespoke models are designed to suit the pressure and temperature of the fluid conveyed in compliance with PED 97/23/EC. As a guide, the operating parameters are based on pressure / temperature (p/T) ratings for material group 1E1 ferritic steel flanges from EN1092, where the operating pressure is reduced at elevated operating temperatures.

Operating Temp. Up to	Maximum non-shock Operating Pressure for PN6	PN10	PN16	PN25
50 °C.	6.0 Barg.	10.0 Barg.	16.0 Barg.	25.0 Barg.
100 °C.	4.8 Barg.	8.0 Barg.	12.8 Barg.	20.0 Barg.
150 °C.	4.5 Barg.	7.5 Barg.	11.9 Barg.	18.7 Barg.
200 °C.	4.1 Barg.	6.9 Barg.	11.0 Barg.	17.2 Barg.
250 °C.	3.6 Barg.	6.0 Barg.	9.7 Barg.	15.1 Barg.
300 °C.	3.1 Barg.	5.2 Barg.	8.3 Barg.	13.0 Barg.

NOTE: add 300mm to the length for each 25mm movement increase.