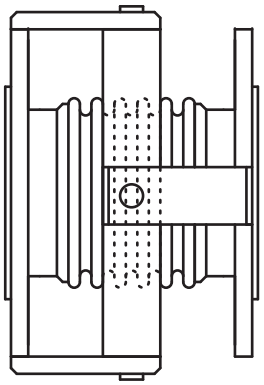
GIMBAL EXPANSION JOINTS
Model EJGF + EJGFN



EJGF(N)

APPLICATIONS

Gimbal expansion joints are designed to accommodate thermal pipe expansion when used in sets of two or three.

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 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)	Angular Deflection (deg)	Force to Deflect (N)	Spring Rate ANG (Nm/deg)	Product Code (MODEL-SIZE-OAL-MVT-ENDS)
40	200	5	41.5	8.3	EJGF(N)-040-200-5-PN##
50	180	5	41.5	8.3	EJGF(N)-050-180-5-PN##
65	180	5	50.5	10.1	EJGF(N)-065-180-5-PN##
80	180	5	157.0	31.4	EJGF(N)-080-180-5-PN##
100	180	5	304.0	60.8	EJGF(N)-100-180-5-PN##
125	225	6	217.2	36.2	EJGF(N)-125-225-6-PN##
150	225	6	331.8	55.3	EJGF(N)-150-225-6-PN##
200	250	7	749.7	107.1	EJGF(N)-200-250-7-PN##
250	250	7	1344	192	EJGF(N)-250-250-7-PN##
300	250	7	2135	305	EJGF(N)-300-250-7-PN##
350	270	5	2945	589	EJGF(N)-350-270-5-PN##
400	270	5	4220	844	EJGF(N)-400-270-5-PN##
450	290	5	6070	1214	EJGF(N)-450-290-5-PN##
500	300	5	8105	1621	EJGF(N)-500-300-5-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

EJGF - Flanged model with stainless steel bellows and internal flow sleeve (when fluid velocity dictates), carbon steel hinges, gimbal ring and fixed flanges .

EJGFN - Flanged model with stainless steel bellows and internal flow sleeve (when fluid velocity dictates), carbon steel hinges, gimbal ring 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.	Maximum non-shock Operating Pressure for			
Up to	PN6	PN10	PN16	PN25
50 ºC.	6.0 Barg.	10.0 Barg.	16.0 Barg.	25.0 Barg.
100 ºC.	4.8 Barg.	8.0 Barg.	12.8 Barg.	20.0 Barg.
150 ºC.	4.5 Barg.	7.5 Barg.	11.9 Barg.	18.7 Barg.
200 ºC.	4.1 Barg.	6.9 Barg.	11.0 Barg.	17.2 Barg.
250 ºC.	3.6 Barg.	6.0 Barg.	9.7 Barg.	15.1 Barg.
300 ºC.	3.1 Barg.	5.2 Barg.	8.3 Barg.	13.0 Barg.

NOTE: the force to deflect assumes 1m between the hinge pins of 2 units.