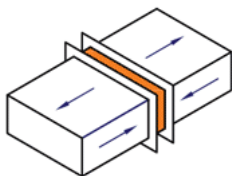


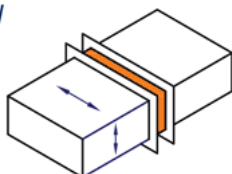
## Expansion Joints – Design Movements

*Axial*



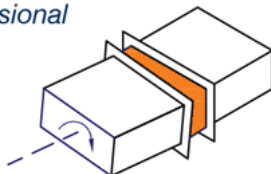
**Axial Extension / Compression** – The dimensional compression or extension of the expansion joint flange to flange dimension, parallel to its axis in longitude.

*Lateral*



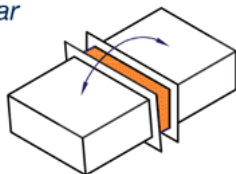
**Lateral Movement** – The amount of duct movement occurring in either of the two perpendicular planes to the longitudinal axis of the duct, which moves the expansion joint flanges out of alignment.

*Torsional*



**Torsional Deflection** – The amount of twisting movement (in degrees) occurring in the perpendicular planes to the longitudinal axis of the duct system.

*Angular*



**Angular Deflection** – The amount of rotation (in degrees) of the duct system which flexes the expansion joint flanges out of parallel position with each other.

TYPE	ACTIVE LENGTH	AXIAL COMPRESSION		AXIAL EXTENSION	RESULTANT LATERAL		MINIMUM SETBACK	
		OPERATING	EXCURSION		OPERATING	EXCURSION	FLANGED	BELT
BELT STYLE ELASTOMERIC EXPANSION JOINTS								
300E-A	6" (150 mm)	1" (25 mm)	2" (50 mm)	1" (25 mm)	1" (25 mm)	2" (50 mm)	2 1/2" (64 mm)	6" (152 mm)
300C-A	9" (230 mm)	2 1/4" (57 mm)	4 1/4" (108 mm)	1" (25 mm)	2 1/4" (57 mm)	3 3/4" (96 mm)	3 1/2" (89 mm)	6" (152 mm)
400F-A	12" (305 mm)	3 1/4" (83 mm)	6" (152 mm)	1" (25 mm)	3 1/4" (83 mm)	5" (127 mm)	4 1/2" (114 mm)	6" (152 mm)
400F-AW	16" (405 mm)	5" (127 mm)	8 1/2" (216 mm)	1" (25 mm)	5" (127 mm)	7" (178 mm)	5 1/2" (140 mm)	8" (203 mm)
FLANGED ELASTOMERIC EXPANSION JOINTS								
300E-A	6" (150 mm)	1" (25 mm)	2" (50 mm)	1" (25 mm)	1" (25 mm)	2" (50 mm)	2 1/2" (64 mm)	6" (152 mm)
300C-A	9" (230 mm)	2 1/4" (57 mm)	4 1/4" (108 mm)	1" (25 mm)	2 1/4" (57 mm)	3 3/4" (96 mm)	3 1/2" (89 mm)	6" (152 mm)
400F-A	12" (305 mm)	3 1/4" (83 mm)	6" (152 mm)	1" (25 mm)	3 1/4" (83 mm)	5" (127 mm)	4 1/2" (114 mm)	6" (152 mm)
400F-AW	16" (405 mm)	5" (127 mm)	8 1/2" (216 mm)	1" (25 mm)	5" (127 mm)	7" (178 mm)	5 1/2" (140 mm)	8" (203 mm)
HIGH TEMPERATURE COMPOSITE EXPANSION JOINTS								
500P-F	6" (150 mm)	1" (25 mm)		1" (25 mm)		1/2" (13 mm)		6" (152 mm)
600T-P	9" (230 mm)	2" (50 mm)		1" (25 mm)		1" (25 mm)		6" (152 mm)
800H-CP	12" (305 mm)	3" (75 mm)		1" (25 mm)		1 1/2" (38 mm)		6" (152 mm)
800H-CF	12" (305 mm)	3" (75 mm)	CONTACT	1" (25 mm)	CONTACT	1 1/2" (38 mm)	CONTACT	6" (152 mm)
1000H-CP	16" (405 mm)	4" (100 mm)	BAKER	1" (25 mm)	BAKER	2" (50 mm)	BAKER	8" (203 mm)
1000H-CF	16" (405 mm)	4" (100 mm)	ENERGY	1" (25 mm)	ENERGY	2" (50 mm)	ENERGY	8" (203 mm)
1200H-CP	16" (405 mm)	4" (100 mm)	GROUP	1" (25 mm)	GROUP	2" (50 mm)	GROUP	8" (203 mm)
1200H-CF	16" (405 mm)	4" (100 mm)		1" (25 mm)		2" (50 mm)		8" (203 mm)