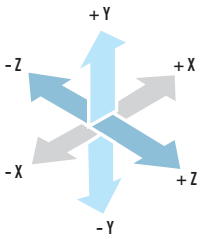
Product Code	Definition
KM100-FDB	Seismic Isolation Expansion Joint Flanged ±50mm Expansion
KM200-FDB	Seismic Isolation Expansion Joint Flanged ±100mm Expansion
KM300-FDB	Seismic Isolation Expansion Joint Flanged ±150mm Expansion
KM400-FDB	Seismic Isolation Expansion Joint Flanged ±200mm Expansion

GENERAL

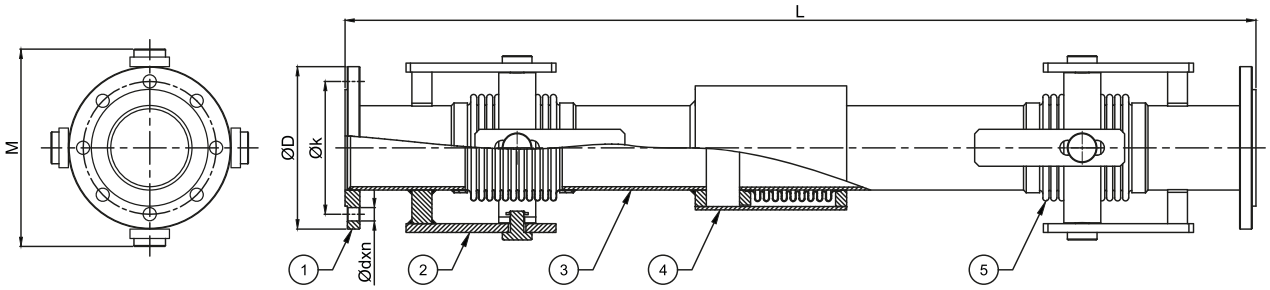
Seismic expansion joints are the flexible connection elements that minimize the risk of breakage that may occur in the system as a result of seismic (earthquake, building collapses, etc.) movements by damping the three dimensional movement as axial,- lateral and angular and provide the continuity of the system by removing the stress on the rigid pipe. Seismic Expansion joints which are designed such as to accommodate the movement in three different directions (axial, lateral and angular), are widely used in systems such as heating, cooling, fire and sanitary systems of the structures where seismic isolators are used and the amount of movement is very high. They can also be used in places such as all building passages, Dilatation points etc. In the order phase, the prescribed amount of motion in the system, fluid type in the line, place of use, connection type, the working pressure and temperatureof the system should be specified.



Standard Product Materials		Optional Product Materials
Bellows	1.4301 (AISI 304)	1.4541 / 1.4401 / Titanium / Incoloy 800H / Inconel etc.
Joint Arms	1.0038 (St 37-2)	Stainless Steel
Flanges	1.0038 (St 37-2)	Stainless Steel

Design Parameters	
Design Pressure	16 Bar (1 Bar…64 Bar)
Design Temperature	+20°C (-90°C…+550°C)
Diameters	DN25 (1")….DN2500 (100")
Movements	X:100mm (±50); Y,Z:±50mm / Y,Z:±100mm / Y,Z:±150mm / Y,Z:±200mm
Standards	EJMA, EN 14917
Certifications	TSE - CE Module H (Optional) - EAC

**Please contact our sales team for your special requests.



Part Number	Specifications	
	Name	Material
1	Flange	1.0038 (S235JR / St37-2)
2	Joint Arm	1.0038 (S235JR / St37-2)
3	Intermediate Pipe	1.0038 (S235JR / St37-2)
4	Outside Pipe	1.0038 (S235JR / St37-2)
5	Bellows	1.4301 (AISI 304)

Diameters		LENGTH (L = mm)				ØD (mm)	Øk (mm)	Ødxn (mm)	M (mm)	Effective Area (cm²)
		KM100-FDB	KM200-FDB	KM300-FDB	KM400-FDB					
		X: ±50mm Y: ±50mm Z: ±50mm	X: ±50mm Y: ±100mm Z: ±100mm	X: ±50mm Y: ±150mm Z: ±150mm	X: ±50mm Y: ±200mm Z: ±200mm					
DN25	1"	1290	1370	1470	1570	115	85	14*4	170	19,0
DN32	1 1/4"	1290	1370	1470	1570	140	100	18*4	170	19,0
DN40	1 1/2"	1270	1370	1470	1570	150	110	18*4	170	24,7
DN50	2"	1320	1420	1520	1620	165	125	18*4	195	38,7
DN65	2 1/2"	1400	1500	1600	1700	185	145	18*4	210	58,0
DN80	3"	1470	1570	1670	1770	200	160	18*8	220	80,5
DN100	4"	1550	1650	1750	1850	220	180	18*8	265	129,0
DN125	5"	1620	1720	1820	1920	250	210	18*8	310	191,8
DN150	6"	1645	1745	1845	1945	285	240	22*8	335	262,7
DN200	8"	1730	1830	1930	2030	340	295	22*12	425	453,5
DN250	10"	1820	1920	2020	2120	405	355	26*12	470	698,4
DN300	12"	1930	2030	2130	2230	460	410	26*12	570	967,0
DN350	14"	1950	2050	2150	2330	520	470	26*16	620	1149,6
DN400	16"	1995	2095	2195	2550	580	525	30*16	700	1517,7
DN450	18"	2030	2130	2350	2900	640	585	30*20	745	1884,2
DN500	20"	2030	2130	2550	3200	715	650	33*20	815	2282,5

** X,Y,Z value represents axial, lateral, angular movements. Please contact our technical department for different movement requirements.
** Flange diameters are according to PN16 pressure class.