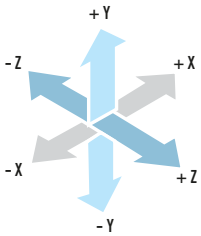
FM Code	Product Code	Definition
KMKBYF	KM100 - KBFM	Dilatation & Earthquake Expansion Joint FM Approved Welding Ends ±50mm Expansion
KMKBYF	KM200 - KBFM	Dilatation & Earthquake Expansion Joint FM Approved Welding Ends ±100mm Expansion
KMKBYF	KM300 - KBFM	Dilatation & Earthquake Expansion Joint FM Approved Welding Ends ±150mm Expansion
KMKBYF	KM400 - KBFM	Dilatation & Earthquake Expansion Joint FM Approved Welding Ends ±200mm Expansion

GENERAL

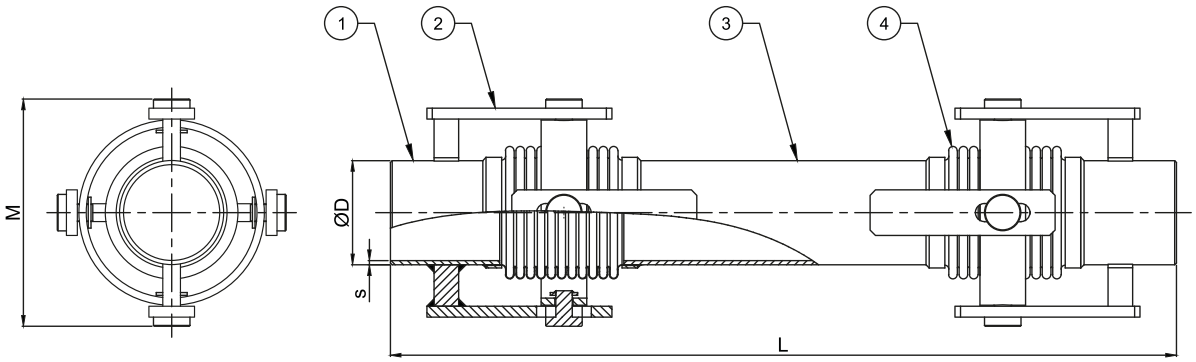
Dilatation & Earthquake expansion joints are the flexible connection elements that minimize the risk of breakage that may occur in the system as a result of seismic (earthquake, building collapses, etc.) movements by damping the three dimensional movement as axial, lateral and angular and provide the continuity of the system by removing the stress on the rigid pipe. The Dilatation & Earthquake Expansion joints, which are designed to meet the movement in three different directions (axial, lateral and angular) are widely used in fire circuits since they are FM approved. They can also be used in places such as all building passages, Dilatation points etc.



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
Welding Ends	1.0038 (St 37-2)	Stainless Steel
Intermediate Pipe	1.0038 (St 37-2)	Stainless Steel

Design Parameters	
Design Pressure	250 psi
Design Temperature	+20°C (-90°C...+550°C)
Diameters	DN25 (1")....DN300 (12")
Movements	X:±50mm ; Y,Z: ±50mm / Y,Z: ±100mm / Y,Z: ±150mm / Y,Z: ±200mm
Standards	EJMA, EN 14917
Certifications	FM Approved - TSE - CE Module H (Optional) - EAC

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



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

Diameters		LENGTH (L = mm) KMKBYF				ØD (mm)	s (mm)	M (mm)	Effective Area (cm^2)
		KM100-KBFM X: ±50mm Y: ±50mm Z: ±50mm	KM200-KBFM X: ±50mm Y: ±100mm Z: ±100mm	KM300-KBFM X: ±50mm Y: ±150mm Z: ±150mm	KM400-KBFM X: ±50mm Y: ±200mm Z: ±200mm				
DN25	1"	710	910	1110	1310	33,7	3,2	160	19,0
DN32	1 1/4"	710	910	1110	1310	42,4	3,2	160	19,0
DN40	1 1/2"	710	910	1110	1310	48,3	3,2	160	24,7
DN50	2"	770	970	1170	1380	60,3	3,6	185	38,7
DN65	2 1/2"	770	970	1220	1480	76,1	3,6	205	58,0
DN80	3"	820	1020	1250	1480	88,9	4	215	80,5
DN100	4"	820	1020	1280	1530	114,3	4,5	280	129,0
DN125	5"	950	1150	1460	1750	139,7	5	335	191,8
DN150	6"	950	1150	1460	1750	165,1	5	345	262,7
DN200	8"	1120	1340	1690	2040	219,1	6,3	435	453,5
DN250	10"	1120	1340	1690	2040	273	6,3	495	698,4
DN300	12"	1150	1525	1900	2265	323,9	7,1	565	967,0

** X,Y,Z value represents axial, lateral, angular movements. Please contact our technical department for different movement requirements.