

Hinged Gimbal Assembly

Floating Flange x Fixed Flange,

bellows

AISI 304
AISI 316, 321 (Op.)

joint arm

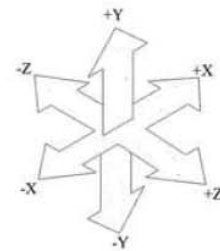
Carbon Steel
Stainless Steel (Op.)

flange

Carbon Steel
Stainless Steel (Op.)
TS EN 1092-1
ANSI, JIS, ISO (Op.)

intermediate pipe

Carbon Steel
Stainless Steel (Op.)



GENEL

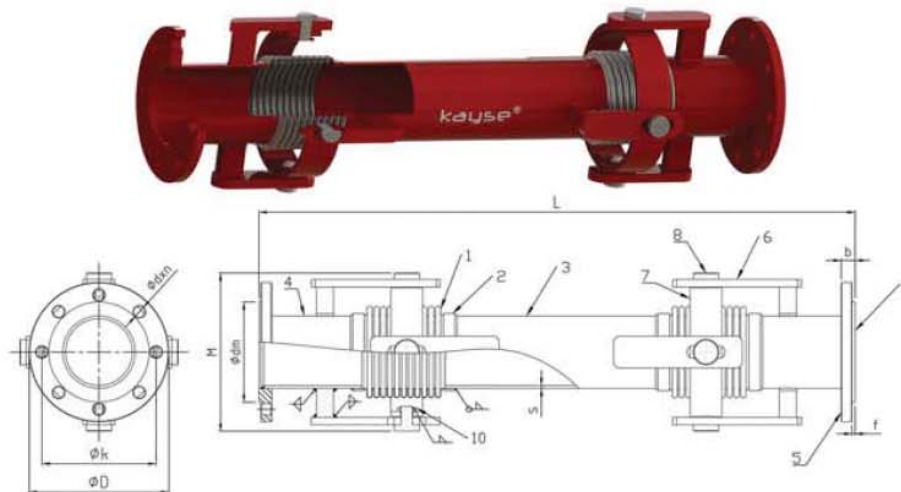
GENERAL

Angular expansion joints are flexible fittings that axially, laterally and angularly compensate the movement in 3 dimensions and absorb the risk of fractures that may result from seismic movements (EARTHQUAKE, COLLAPSE OF BUILDINGS...) and ensures continuous operation of the system by absorbing the stress on the rigid pipe.

They are suitable for use in fuel tanks, filling plants, building dilatation applications, fire lines and all kinds of pipelines.

When placing an order, the estimated load values, total amount of movements, type of the fluid inside the line, place of utilization, type of the connection, the operating pressure and temperature of the system must be specified.

- NOMINAL PRESSURE : 16 bar / max. 40 bar (Optional)
- TEMPERATURE : -90 °C +550 °C
- CONNECTION TYPES : Fixed or Floating Flange
- CONNECTION SIZES : DN25 (1") - ... - DN1000 (40")
- EXPANSION : See Page 7
- DESIGN : EJMA Standards
- APPROVALS : TSE 10880, CE



Part Number	Properties	
	Part Number	Material
1	Bellows	AISI 304 AISI 316 - AISI 321 (Op.)
2	Band	AISI 304 AISI 316 (Op.)
3	Intermediate Pipe	St 37.2 AISI 304 - AISI 316 (Op.)
4	Welded Neck	St 37.2 AISI 304 - AISI 316 (Op.)
5	Flange	St 37.2 AISI 304 - AISI 316 (Op.)
6	Joint Arm	St 37.2 AISI 304 - AISI 316 (Op.)
7	Joint Holder	St 37.2 AISI 304 - AISI 316 (Op.)
8	Connection Pin	St 37.2 AISI 304 - AISI 316 (Op.)
9	Collar	St 37.2 AISI 304 - AISI 316 (Op.)
10	Washer	St 37.2 AISI 304 - AISI 316 (Op.)

(Op.) = Optional

Dimensions			Expansions (L=mm)				Dimensions					
DN	M	s	x=100, y=100,z=100	x=100, y=200,z=200	x=100, y=300,z=300	x=100, y=400,z=400	Ø D (mm)	Ø k (mm)	dm (mm)	f (mm)	b (mm)	d x η (mm)
DN 25	150	3,20	730	930	1130	1330	115	85	68	2	16	14 x 4
DN 32	150	3,20	730	930	1130	1330	140	100	78	2	18	18 x 4
DN 40	150	3,20	730	930	1130	1330	150	110	88	3	18	18 x 4
DN 50	176	3,60	790	990	1190	1400	165	125	102	3	20	18 x 4
DN 65	195	3,60	790	990	1240	1500	185	145	122	3	20	18 x 4
DN 80	204	4,00	840	1040	1270	1500	200	160	138	3	20	18 x 8
DN 100	259	4,50	840	1040	1300	1550	220	180	158	3	22	18 x 8
DN 125	313	5,00	970	1170	1480	1770	250	210	188	3	22	18 x 8
DN 150	313	5,00	970	1170	1480	1770	285	240	212	3	24	22 x 8
DN 200	405	6,30	1140	1360	1710	2060	340	295	268	3	26	22 x 12
DN 250	456	6,30	1140	1360	1710	2060	405	350	320	3	29	26 x 12

x, y and z expansions are total (+/-) values.
Flanges are TS EN 1092-1 norm.

Hinged Gimbal Assembly

With Welded Neck,
With Groved.



bellows

AISI 304
AISI 316, 321 (Op.)

joint arm

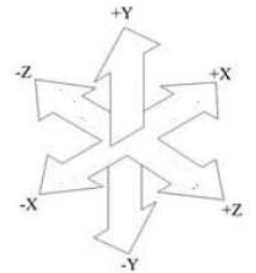
Carbon Steel
Stainless Steel (Op.)

welded neck

Carbon Steel
Stainless Steel (Op.)

intermediate pipe

Carbon Steel
Stainless Steel (Op.)



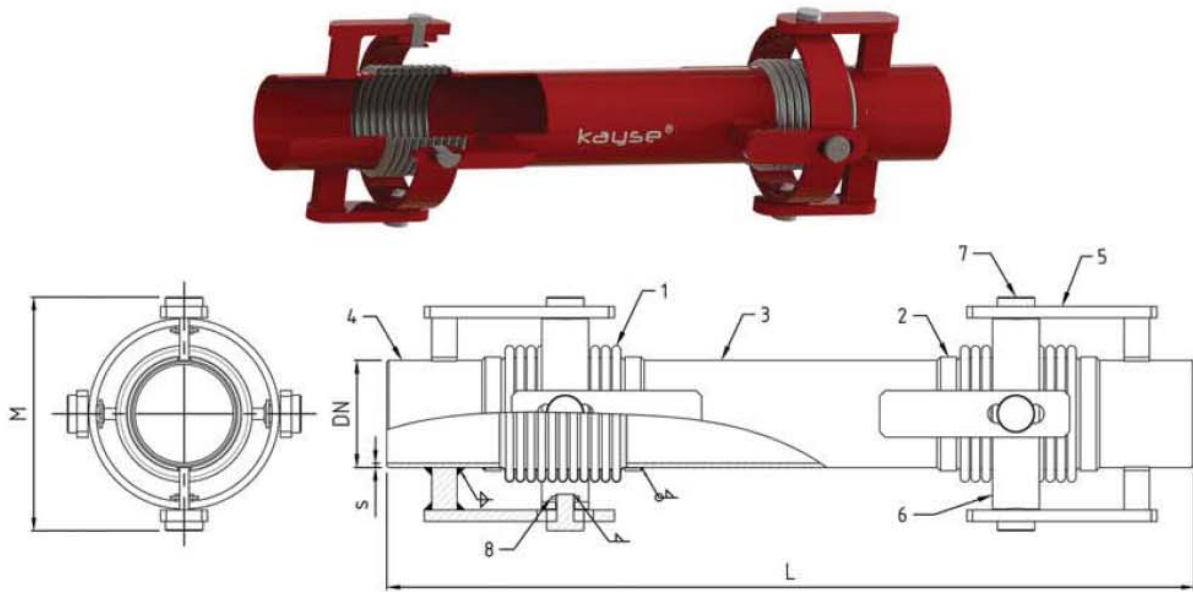
GENERAL

Angular expansion joints are flexible fittings that axially, laterally and angularly compensate the movement in 3 dimensions and absorb the risk of fractures that may result from seismic movements (EARTHQUAKE, COLLAPSE OF BUILDINGS...) and ensures continuous operation of the system by absorbing the stress on the rigid pipe.

They are suitable for use in fuel tanks, filling plants, building dilatation applications, fire lines and all kinds of pipelines.

When placing an order, the estimated load values, total amount of movements, type of the fluid inside the line, place of utilization, type of the connection, the operating pressure and temperature of the system must be specified.

NOMINAL PRESSURE	: 16 bar / max. 40 bar (Opsiyonel Optional)
TEMPERATURE	: -90 °C +550 °C
CONNECTION TYPES	: With Welded Neck Kaynak Boyunlu
CONNECTION SIZES	: DN25 (1") - ... - DN1000 (40")
EXPANSION	: See Page 9 bkz. Sayfa 9
DESIGN	: EJMA Standards EJMA Standartları
APPROVALS	: TSE 10880, CE

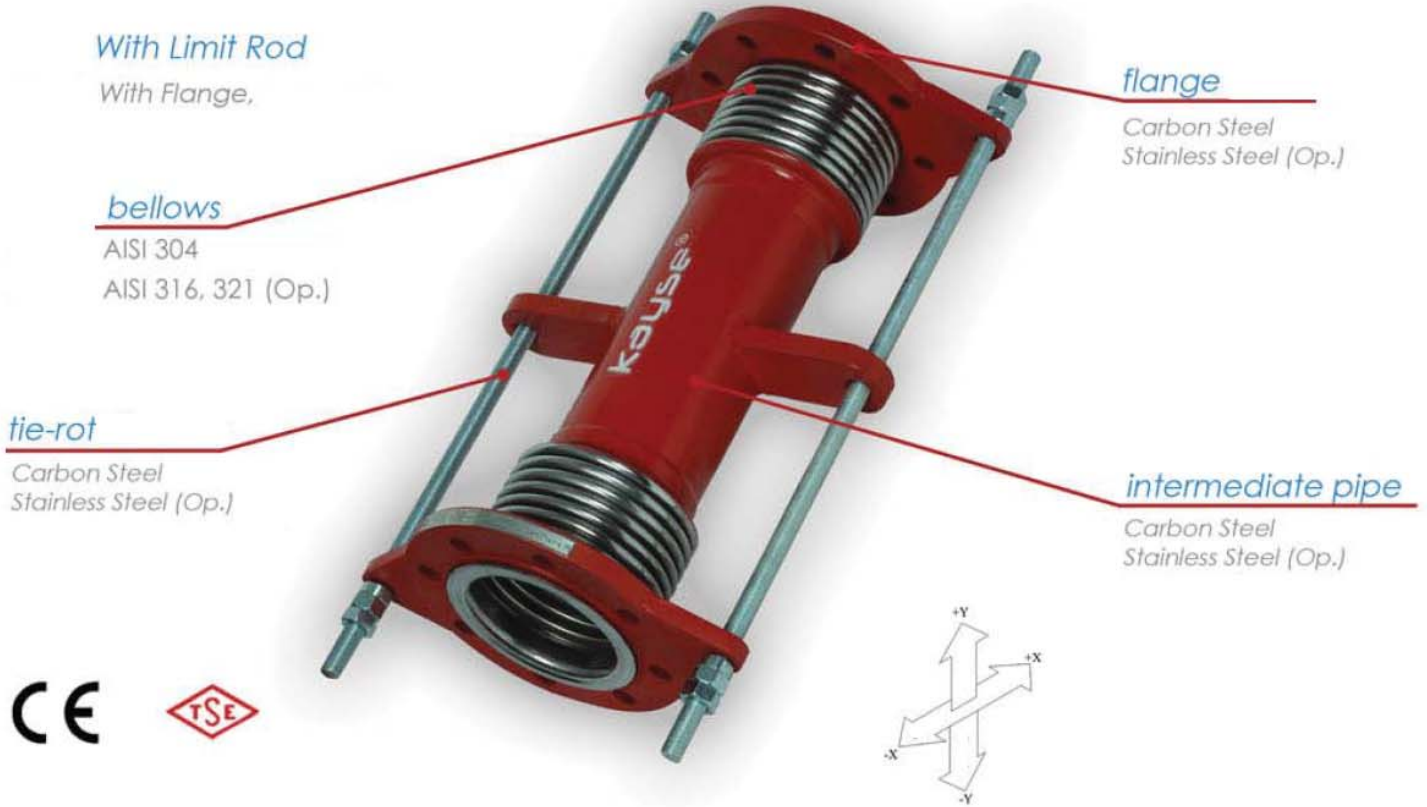


Part Number	Properties	
	Part Number	Material
1	Bellocs	AISI 304 AISI 316 - AISI 321 (Op.)
2	Band	AISI 304 AISI 316 (Op.)
3	Intermediate Pipe	Carbon Steel Stainless Steel (Op.)
4	Welded Neck	Carbon Steel Stainless Steel (Op.)
5	Joint Arm	Carbon Steel Stainless Steel (Op.)
6	Joint Holder	Carbon Steel Stainless Steel (Op.)
7	Connection Pin	St 37.2 AISI 304 - AISI 316 (Op.)
8	Washer	St 37.2 AISI 304 - AISI 316 (Op.)

(Op.) = Optional

Dimensions			Expansions (L=mm)			
DN	M	s	x=100, y=100,z=100	x=100, y=200,z=200	x=100, y=300,z=300	x=100, y=400,z=400
DN 25	150	3,20	710	910	1110	1310
DN 32	150	3,20	710	910	1110	1310
DN 40	150	3,20	710	910	1110	1310
DN 50	176	3,60	770	970	1170	1380
DN 65	195	3,60	770	970	1220	1480
DN 80	204	4,00	820	1020	1250	1480
DN 100	259	4,50	820	1020	1280	1530
DN 125	313	5,00	950	1150	1460	1750
DN 150	313	5,00	950	1150	1460	1750
DN 200	405	6,30	1120	1340	1690	2040
DN 250	456	6,30	1120	1340	1690	2040

x, y and z expansions are total (+/-) values.



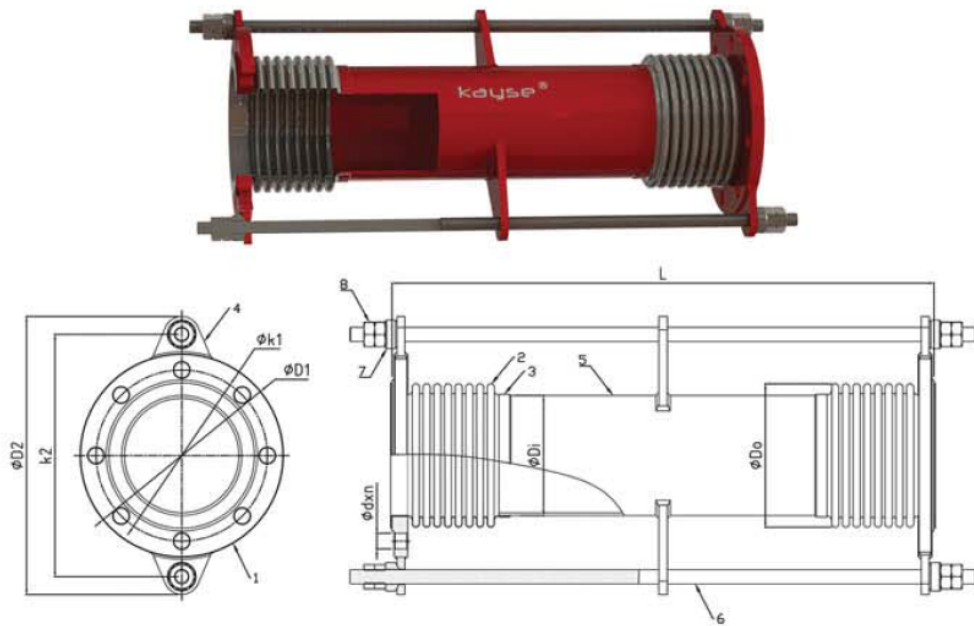
GENERAL

Dilatation expansion joints are intermediate fittings that ensure uninterrupted and efficient operation of the system by absorbing the tensions and ruptures and lateral offsets in the pipelines resulting from building collapses and earthquakes, at the dilatation points of the buildings that have different foundations.

They are used in all kinds of dilatation applications in the buildings.

When placing an order, the estimated load values, total amount of movements, type of the fluid inside the line, place of utilization, type of the connection, the operating pressure and temperature of the system must be specified.

NOMINAL PRESSURE	: 16 bar / max. 40 bar (Opsiyonel Optional)
TEMPERATURE	: -90 °C +550 °C
CONNECTION TYPES	: With Flange Flanşlı
CONNECTION SIZES	: DN25 (1") - ... - DN1000 (40")
EXPANSION	: See Page 11 bkz. Sayfa 11
DESIGN	: EJMA Standards EJMA Standartları
APPROVALS	: TSE 10880, CE



Part Number	Properties	
	Part Number	Material
1	Flange	St 37.2 AISI 304 - AISI 316 (Op.)
2	Bellows	AISI 304 AISI 316 - AISI 321 (Op.)
3	Band	AISI 304 AISI 316 (Op.)
4	Limit Rod Holder	St 37.2 AISI 304 - AISI 316 (Op.)
5	Intermediate Pipe	Carbon Steel Stainless Steel (Op.)
6	Limit Rod	Carbon Steel Stainless Steel (Op.)
7	Ring	Carbon Steel Stainless Steel (Op.)
8	Nut	Carbon Steel Stainless Steel (Op.)

(Op.) = Optional

Size	Bellows			Expansions (L=mm)					Dimensions				
	QTY x Ondulation	Ø Di (mm)	Ø Do (mm)	x (mm)	y=25 (mm)	y=50 (mm)	y=75 (mm)	y=100 (mm)	Ø D1 (mm)	Ø k1 (mm)	Ø D2 (mm)	k2 (mm)	d x n (mm)
DN 25	2 x 10	33,7	69,0	30	260	360	460	560	115	85	195	165	14 x 4
DN 32	2 x 9	42,4	69,0	30	260	360	460	560	140	100	240	200	18 x 4
DN 40	2 x 9	48,3	69,0	30	260	360	460	560	150	110	254	212	18 x 4
DN 50	2 x 9	60,3	79,0	30	360	460	560	660	165	125	273	229	18 x 4
DN 65	2 x 8	76,1	95,0	60	360	460	560	660	185	145	285	241	18 x 4
DN 80	2 x 8	88,9	110,0	60	410	510	610	710	200	160	308	264	18 x 8
DN 100	2 x 8	114,3	143,0	60	410	510	610	710	220	180	328	284	18 x 8
DN 125	2 x 8	139,7	170,0	60	460	660	760	860	250	210	358	314	18 x 8
DN 150	2 x 8	168,3	200,0	60	460	660	760	860	285	240	413	361	22 x 8
DN 200	2 x 8	219,1	266,0	60	510	700	800	900	340	295	468	416	22 x 12
DN 250	2 x 6	273,0	318,0	60	600	800	900	1000	405	350	557	501	26 x 12

x, y and z expansions are total (+/-) values.

DILATATION EXPANSION JOINTS

kayse®



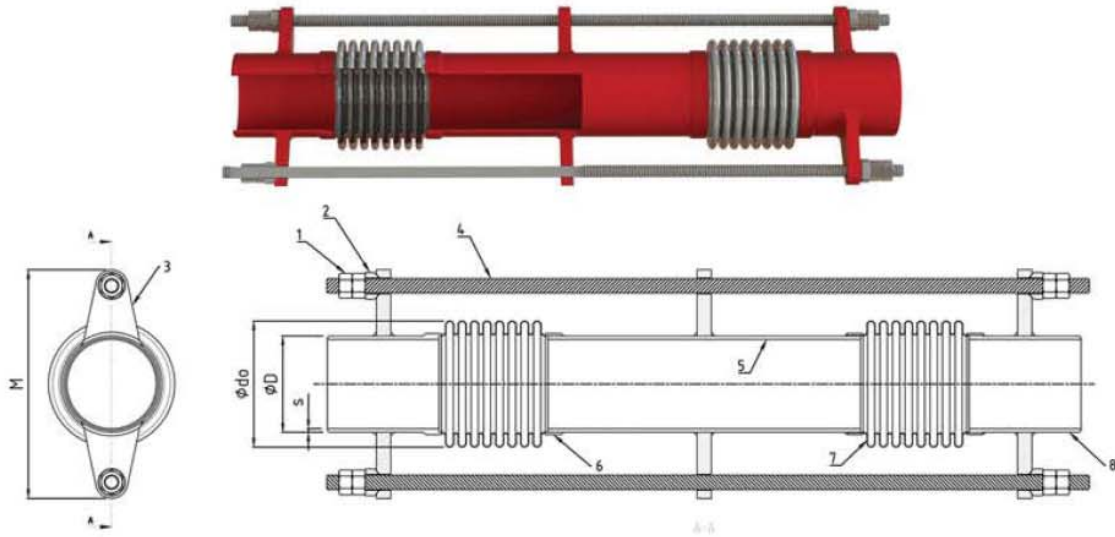
GENERAL

Dilatation expansion joints are intermediate fittings that ensure uninterrupted and efficient operation of the system by absorbing the tensions and ruptures and lateral offsets in the pipelines resulting from building collapses and earthquakes, at the dilatation points of the buildings that have different foundations.

They are used in all kinds of dilatation applications in the buildings.

When placing an order, the estimated load values, total amount of movements, type of the fluid inside the line, place of utilization, type of the connection, the operating pressure and temperature of the system must be specified.

NOMINAL PRESSURE	: 16 bar / max. 40 bar (Opsiyonel Optional)
TEMPERATURE	: -90 °C +550 °C
CONNECTION TYPES	: With Welded Neck Kaynak Boyunlu
CONNECTION SIZES	: DN25 (1") - ... - DN1000 (40")
EXPANSION	: See Page 13 bkz. Sayfa 13
DESIGN	: EJMA Standards EJMA Standartları
APPROVALS	: TSE 10880, CE



Part Number	Properties	
	Part Number	Material
1	Nut	Carbon Steel Stainless Steel (Op.)
2	Ring	Carbon Steel Stainless Steel (Op.)
3	Limit Rod Holder	St 37.2 AISI 304 - AISI 316 (Op.)
4	Limit Rod	Carbon Steel Stainless Steel (Op.)
5	Intermediate Pipe	Carbon Steel Stainless Steel (Op.)
6	Band	AISI 304 AISI 316 (Op.)
7	Bellows	AISI 304 AISI 316 - AISI 321 (Op.)
8	Welded Neck	Carbon Steel Stainless Steel (Op.)

(Op.) = Opsiyonel / Optional

Dimensions			Bellows / Flange			Expansions (L=mm)				
DN	Ø D	s	QTY x Ondulation	M (mm)	do (mm)	x (mm)	y=25 (mm)	y=50 (mm)	y=75 (mm)	y=100 (mm)
DN 25	33,2	3,2	2 x 10	147	69	30	550	650	750	850
DN 32	42,4	3,2	2 x 9	147	69	30	550	650	750	850
DN 40	48,3	3,2	2 x 9	147	69	30	550	650	750	850
DN 50	60,3	3,6	2 x 9	161	79	30	620	720	820	920
DN 65	76,1	3,6	2 x 8	189	95	60	620	720	820	920
DN 80	88,9	4,0	2 x 8	211	110	60	670	770	870	970
DN 100	114,3	4,5	2 x 8	250	143	60	670	770	870	970
DN 125	139,7	5,0	2 x 8	302	170	60	710	910	1010	1110
DN 150	168,3	5,0	2 x 8	397	200	60	710	910	1010	1110
DN 200	219,1	6,3	2 x 8	473	266	60	760	960	1050	1160
DN 250	273,0	6,3	2 x 6	553	318	60	860	1060	1150	1260