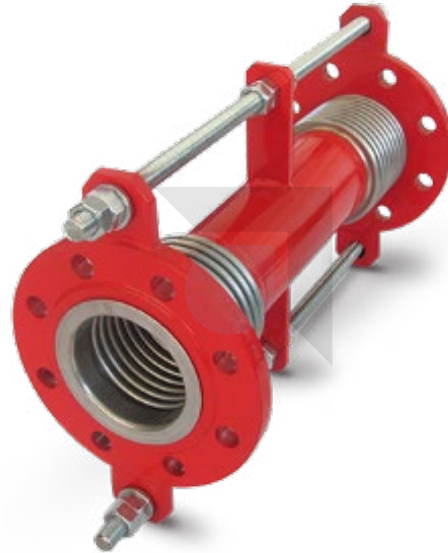




### Product Description

DENZ J13 Dilatation Expansion Joint, also known as a universal expansion joint, is made of two bellows separated by an intermediary pipe that absorbs wide lateral movements of the pipeline.



### Production References

Size Range	DN25-250
Pressure Range	PN10-16-25-40
Temperature	550°C
Design	EN 14917 & EJMA
Face to Face	EN 14917
Connection	EN 1092-2 Rotating Flanged, Fixed Flanged, Welding End
Testing	EN12266-1
Marking	EN 19
Expansion Range	L=30 mm. Y: 25-50-75-100mm L=60 mm. Y: 25-50-75-100mm





## Product Features

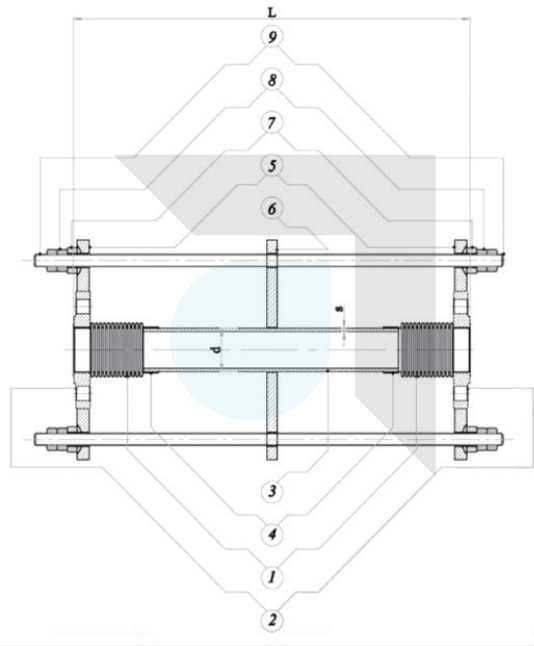


- An intermediate pipeline universal compensator separates two bellows. Designed to absorb large lateral movements.
- To prevent damage to the existing pipeline, it is generally used after crossing points on the basis of buildings with different floor exercises and building collapses.
- It is possible to increase the lateral movement of the expansion joint by increasing the length of the central pipe.
- Compared to a single tied expansion joint, it can take a greater amount of axial, lateral, and angular movement.
- When the universal tied expansion joint is designed with only two tie rods, evenly spaced 180°, the expansion joint will be able to accommodate both lateral and angular movements.
- In order to restrict the angular movement of the expansion joint, four tie rods are positioned at 90° intervals around its circumference.
- More than two tie rods will limit the flexibility of this type of expansion joint to lateral movement only.
- It is commonly used in transition points between buildings with different base levels, during ground movements, and in the event of building collapses to prevent pipeline damage.
- Adapts to thermal differences and absorbs differences.
- The liner option prevents erosion on the bellows that could occur at high flow rates due to vibrations and abrasions.
- Pumps, compressors, and other mechanical equipment will operate more efficiently when metal connectors are used.
- Permits balancing of pipeline lateral and angular movements.
- Due to the rotary flanges, this product is easy to install.
- Reduces the sound transmitted through solids on pumps and compressors caused by mechanical vibrations.
- Provides compensation for thermal movements and vibrations in flue gas ducts of boilers and engines.
- Pumps, fittings and plate heat exchangers may be assembled with the assistance of these tools.
- The use of expansion joints is widespread, particularly in applications that are concerned with safety, health, the environment, durability, and long-term performance.
- Bellows are made from stainless steel strip which is first welded to a thin walled tube and formed to a bellow afterwards.
- There are several types of connection types available, including rotary flanges, welding ends, and fixed flanges.
- A large quantity of stock has been accumulated for quick delivery.



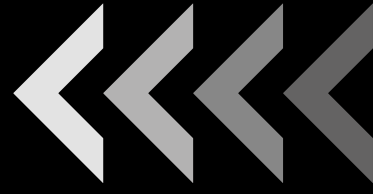


Flanged Type Materials <<<<

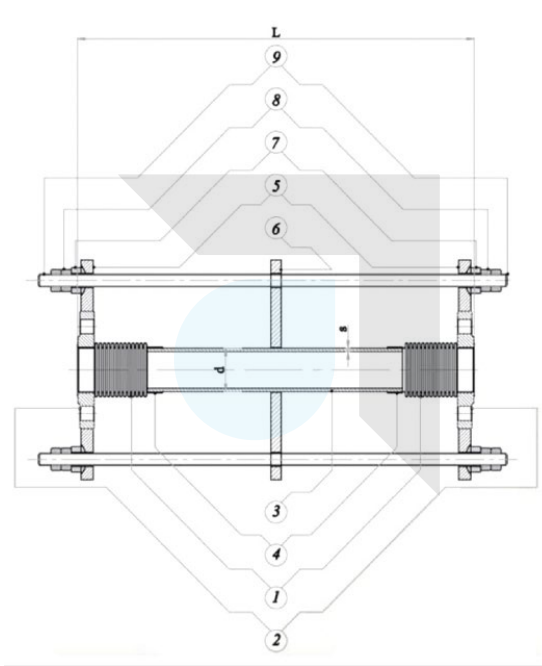


#	Part	Material
1	Bellow	Stainless Steel AISI 304 / AISI316 - AISI321
2	Flange	ST37 / AISI304 - AISI316
3	Body Pipe	ST37 / AISI304 - AISI316
4	Pipe Support	Stainless Steel AISI 304 / AISI316 - AISI321
5	Flange Lug	ST37 / AISI304 - AISI316
6	Middle Flange Lug	ST37 / AISI304 - AISI316
7	Ring	ST37 / AISI304 - AISI316
8	Bolt	ST37 / AISI304 - AISI316
9	Limit Rod	ST37 / AISI304 - AISI316





## Flanged Type Dimensions

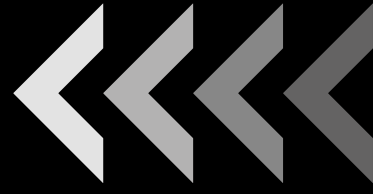


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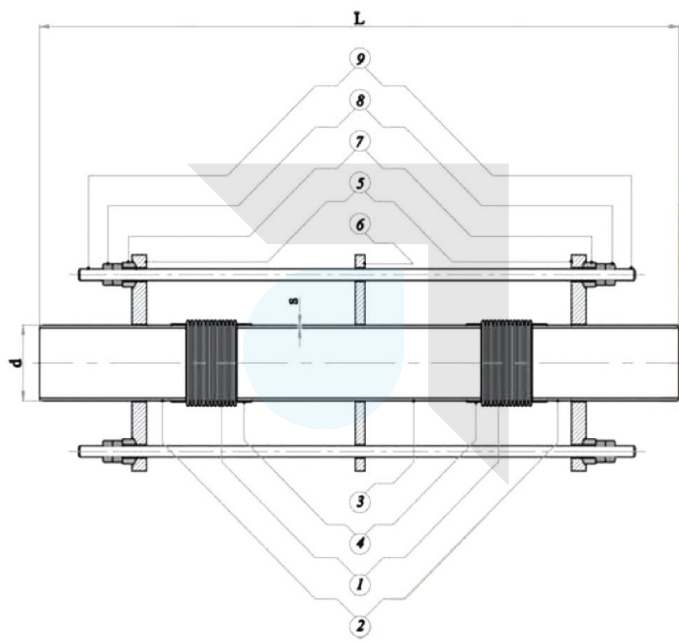
Nominal Size		L (mm.)					d	s	Bar
DN	Inch	X	Expansion Range (mm.)						
			Y-Z: 25mm.	Y-Z: 50mm.	Y-Z: 75mm.	Y-Z: 100mm.			
25	1"	30	260	360	460	560	33.7	3.2	16
32	1 1/4"	30	260	360	460	560	42.4	3.2	
40	1 1/2"	30	260	360	460	560	48.3	3.2	
50	2"	30	360	460	560	660	60.3	3.6	
65	2 1/2"	60	360	460	560	660	76.1	3.6	
80	3"	60	410	510	610	710	88.9	4	
100	4"	60	410	510	610	710	114.3	4.5	
125	5"	60	460	660	760	860	139.7	5	
150	6"	60	460	660	760	860	165	5	
200	8"	60	510	700	800	900	219.1	4.5	
250	10"	60	600	800	900	1000	273	5.6	

Units: mm / indicative dimensions & weights



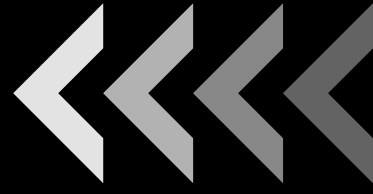


## Welded End Materials

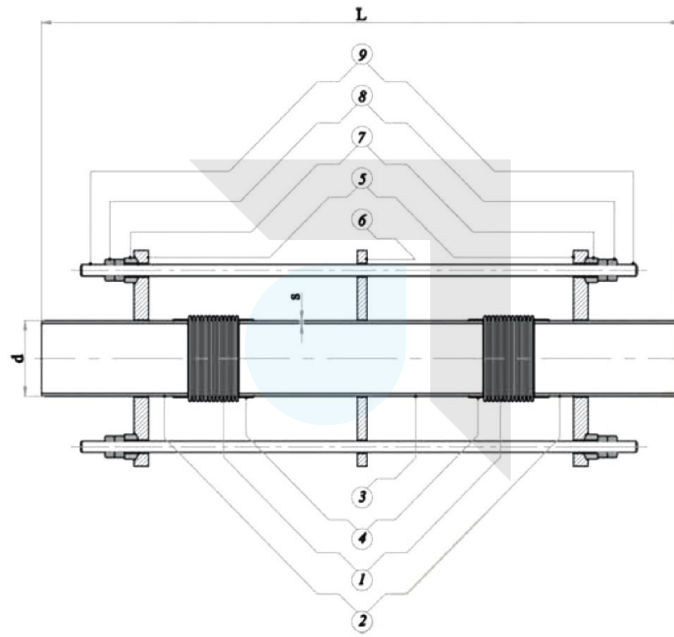


#	Part	Material
1	Bellow	Stainless Steel AISI 304 / AISI316 - AISI321
2	Flange	ST37 / AISI304 - AISI316
3	Body pipe	ST37 / AISI304 - AISI316
4	Pipe support	Stainless Steel AISI 304 / AISI316 - AISI321
5	Flange Lug	ST37 / AISI304 - AISI316
6	Middle Flange Lug	ST37 / AISI304 - AISI316
7	Ring	ST37 / AISI304 - AISI316
8	Bolt	ST37 / AISI304 - AISI316
9	Limit Rod	ST37 / AISI304 - AISI316





Welded End Dimensions



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Nominal Size		L (mm.)					d	s	Bar
DN	Inch	X	Expansion Range (mm.)						
			Y-Z: 25mm.	Y-Z: 50mm.	Y-Z: 75mm.	Y-Z: 100mm.			
25	1"	30	550	650	750	850	33.7	3.2	16
32	1 1/4"	30	550	650	750	850	42.4	3.2	
40	1 1/2"	30	550	650	750	850	48.3	3.2	
50	2"	30	620	720	820	920	60.3	3.6	
65	2 1/2"	60	620	720	820	920	76.1	3.6	
80	3"	60	670	770	870	970	88.9	4	
100	4"	60	670	770	870	1110	114.3	4.5	
125	5"	60	710	910	1010	1110	139.7	5	
150	6"	60	710	910	1010	1160	165	5	
200	8"	60	760	960	1050	1260	219.1	4.5	
250	10"	60	860	1060	1150	1000	273	5.6	

Units: mm / indicative dimensions & weights

