

# J12

Vibration Expansion Joint

## Product Description

DENZ J12 Vibration Absorber Expansion Joints are generally used at absorption pressure lines for the purpose of isolating vibration. Furthermore, J12 Vibration Expansion Joints absorb vibrations caused by pumps, compressors, motors, etc., in addition to compensating thermal expansions.



Material Selection		
Body	Flange	Liner
1.4301 - AISI 304	1.0037 - ST 37 Steel	1.4301 - AISI 304
1.4401 - AISI 316	1.4301 - AISI 304	1.4401 - AISI 316
1.4541 - AISI 321	1.4401 - AISI 316	1.4541 - AISI 321

Production References	
Size Range	DN25-1000
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
Testing	EN12266-1
Marking	EN 19
Expansion Range	30 mm. (-20 +10)

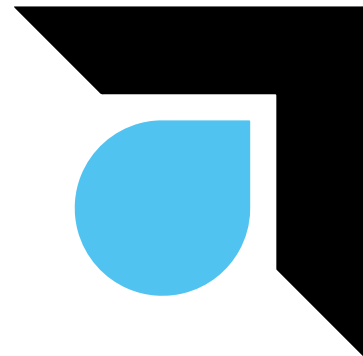




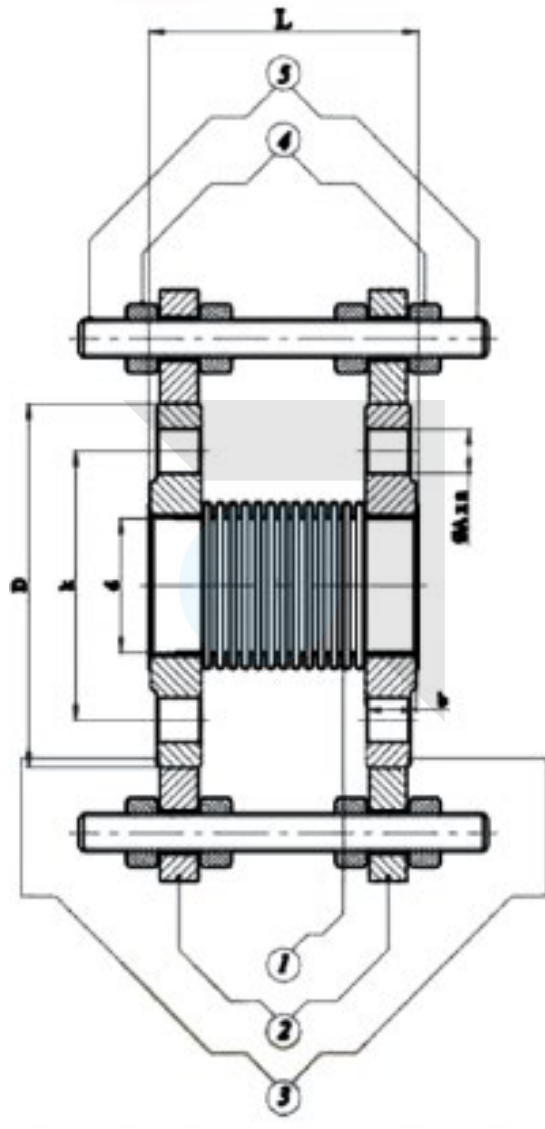
## Product Features



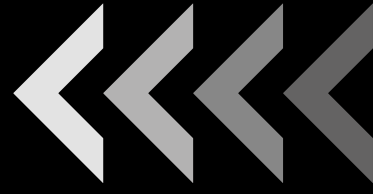
- When corrosive fluids are used in high pressure and pump connection installations, these compact and flexible absorbers can be replaced with rubber joints.
- The bellows are composed of multilayers and have a compact structure.
- The purpose of this joint is to eliminate vibrations at the pump inlet and outlet.
- The flow is replaced by high pressure and cavitation rather than rubber expansion joints.
- Fluid pressure is limited by the axial movement of the limit rods, which absorbs unwanted forces. In this case, there is no need for a fixed support.
- Through the use of existing limit rods, the flow pressure forces are eliminated, and there is no need for a fixed support.
- Welding does not deteriorate the material as a result of the assembly process.
- Stainless steel bellows are used in the standard range. Each bellow is covered with several very thin layers of stainless steel. Using this design, the bearings deliver maximum performance in terms of: pressure and temperature bearing capacity, noise and vibration absorption, and overall cyclic service life.
- Vibration absorbers can resolve any mechanical vibration related problems, and their pressure and temperature capacities are greater than rubber bellows.
- When used outdoors, stainless steel bellows are not subject to atmospheric damage as are rubber expansion joints.
- A large quantity of stock has been accumulated for quick delivery.



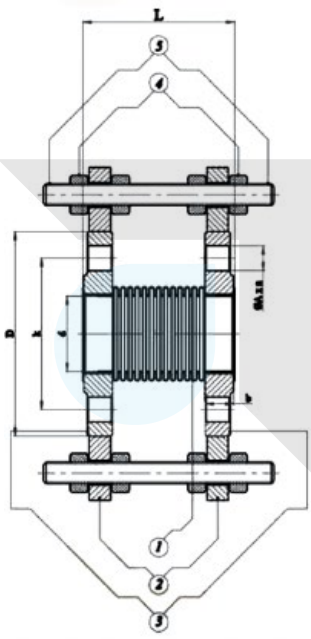
Materials



#	Part	Material
1	Bellow	AISI 304 / AISI316 - AISI321
2	Flange Lug	ST37 / AISI304 - AISI316
3	Flange Lug	ST37 / AISI304 - AISI316
4	Nut	ST37 / AISI304 - AISI316
5	Limit Rod	ST37 / AISI304 - AISI316



## Dimensions



Nominal Size		L (mm.)		D	d	k	b	n	A	Effective Area (cm <sup>2</sup> )	Pressure (bar)
DN	Inch	Expansion Range (mm.)	30								
25	1"	110	115	43	85	18	4	14	18	16	
32	1 1/4"	110	140	43	100	18	4	18	18		
40	1 1/2"	120	150	49	110	18	4	18	22		
50	2"	120	165	61	125	18	4	18	36		
65	2 1/2"	120	185	77	145	18	4	18	58		
80	3"	120	200	89	160	20	8	18	78		
100	4"	120	220	115	180	20	8	18	124		
125	5"	125	250	140	210	22	8	18	180		
150	6"	130	285	169	240	22	8	22	252		
200	8"	150	340	220	295	24	12	22	430		
250	10"	165	405	274	355	26	12	26	660	10	
300	12"	165	445	324	400	26	12	22	910		
350	14"	170	505	356	460	26	16	22	1060		
400	16"	170	565	407	515	26	16	26	1420		
450	18"	185	615	458	565	28	20	26	1750		
500	20"	195	670	509	620	28	20	26	2180	6	
600	24"	170	755	611	705	24	20	26	3110		
700	28"	190	860	712	810	24	24	26	4250		
800	32"	170	975	815	920	24	24	30	5510		
900	36"	190	1075	916	1020	26	24	30	6900		
1000	40"	165	1175	1018	1120	26	28	30	8580		

Units: mm / indicative dimensions & weights

