JVT1511
Metal Axial Expansion Joint
General Purpose Duty
Stainless Steel Bellows
Butt Welded

The JVT1511 metal axial expansion joint helps to alleviate stress in systems by absorbing longitudinal expansion and compression in pipework.

Features & Benefits

- Suitable for a wide range of applications
- Horizontal or vertical position
- External protection
- Internal liner
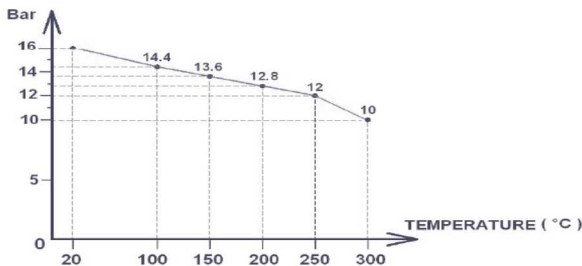
Pressure & Temperature

Pressure range:-

16 bar
(see graph below)

Temperature range:-

-20°C to 300°C

SIZE	25	32	40	50	65	80	100	125	150	200	250
L	185	185	200	270	260	275	310	310	350	330	360
L1	55	55	50	75	80	75	60	85	60	65	60
ØBW	38	42.4	48.3	60.3	76.1	88.9	114.3	139.7	168.3	219.1	273
Ødo	48.8	55.6	61	77	96	112	141	165	201	252	325.8
Ød1	32	36	41.4	53.5	70	78	103.5	127.3	156	207	261
s	2.6	2.6	2.6	2.9	2.9	3.2	3.6	4	4.5	6.3	6.3
t	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.6	0.8	1
Waves Nbre	17	17	17	20	16	15	20	16	20	16	14
Axial	±11	±10	±13	±20	±20	±25	±32	±33	±40	±33	±40
Weight Kg	0.37	0.44	0.53	1.11	1.37	1.86	2.94	3.89	5.85	9.4	13.97

Pressure / Temperature Graph

MATERIALS	
Ends	Steel (37.2)
Bellows	Stainless Steel (AISI 321)
Band	Stainless Steel (AISI 321)
Liner	Stainless Steel (AISI 321)

The following considerations should be noted during installation :

- The route of the pipeline is straight.
- The fixes points are dimensioned so that they can absorb the reaction forces and stiffness rate that arise during use.
- The pipeline is limited by fixed points.
- Check that the expansion joint is not subjected to the weight of the pipeline.
- Sagging is prevented by using fixed or loose bearings.
- The distance between expansion joint and the 1st bearing may be a maximum of 4 times the pipe diameter. The distance between the 1st and the 2nd bearing may be a maximum of 14 times the pipe diameter. The distance between the remaining bearings may be a maximum of 21 times the pipe diameter. The distance may be reduced where this is required for the inherent stability of the pipe.

Example Layout