

**EXTERNAL PRESSURIZED TYPE SINGLE EXPANSION JOINT**

**SJT4100**

Besides the large amount of axial movement, another special feature of external pressure balanced type expansion joint is the self-draining convolutions. It can prevent any the acumination of corrosive or solid particles from building up. Liquid media can 100% drains away from the drain connection, if needed,assists by the purging.



**Feature**

**External Pressurized Type accompanies large number of convolutions.**

The external pressurized Expansion Joint is designed so that the pressure is external to the bellows whilst the inside is at atmospheric pressure and it has many convolutions to allow a large amount of axial movement. But under external pressure the bellows will retain its shape completely stable. Besides external pressurized bellows is protected from external damage by a heavy wall shroud and is isolated from flow impingement by an internal sleeve.

**Maximize the productivity**

Standard design of movement and material maximizes the productivity while the custom design maximizes the suitability for special applications.

**Reliability**

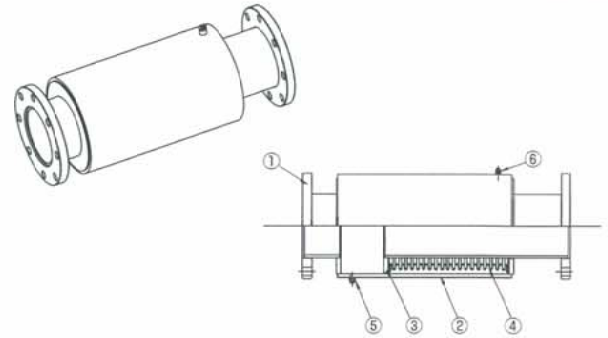
Computer designed bellows element complies with EJMA criteria.

**Quality**

All products are tested before delivery according to relevant code or ISO quality control system.

Design Working Pressure	1.0 MPa
Design Working Temperature	200°C
Applicable Fluid	Water, Hot Water, Oil, Steam, Gas, and Exhaust Air

**Structure**



No.	Qty	Parts	Material
①	2	Standard Flange	SS400
②	1	Outer Pipe	CS
③	1	Guide Ring	SS400
④	1	Bellow	SUS316L
⑤	1	Drain plug (R 1/2")	FCMB
⑥	1	Purge Connection (R 1/2")	CS

**Applications**

Bellows type metal Expansion Joints are successfully utilized in refineries, chemical plants, fossil and power systems, heating and cooling system, and cryogenic plants.

**Dimensions and Allowable Movements**

Nominal Diameter		Length (L) [mm]	Axial Movement [mm]	Effective Cross Section Area [cm <sup>2</sup> ]	Spring Constant [N/mm]	Mass [kg]
[mm]	[inch]					
25	1	475	-45,+5	27.4	10.7	7.10
32	1-1/4	475	-45,+5	27.4	10.7	8.20
40	1-1/2	475	-45,+5	27.4	10.7	9.10
50	2	500	-45,+5	44.5	20.7	13.10
65	2-1/2	550	-45,+5	62.8	33.4	20.20
80	3	750	-70,+5	97.0	26.4	30.70
100	4	800	-95,+5	161.7	24.0	50.50
125	5	800	-95,+5	228.3	31.5	58.80
150	6	850	-95,+5	381.9	43.0	82.90

**Installation Guide**

SUS 304 bellows and pipe are available upon requested  
 Shipping devices (painted yellow) must be removed prior to start-up or testing the system.  
 For steam application, it is advised using steam trap with the drain connection which eliminates the possibility of any condensate liquid "flashing" to vapor during startups.  
 Please consult us for other material, pressure, temperature and movement designs.  
 Please read the instruction before designing and installation.

**Note:** The content of this catalog is subject to change without prior notice.

**AGENT**

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