



Data Sheet - Type SG - Single Gimbal Expansion Joints

Single Gimbal expansion joints are designed to move in TWO angular planes. They are designed to absorb large amounts of Lateral and Angular movements in more than one plane while containing the pressure thrust forces. This is achieved by using in sets of two or three at a time.

The hinges and pins prevent the bellows exerting thrust when subject to pressure. This results in the lowest possible stress on anchors and adjacent machinery, the only forces being the combined spring rate of the bellows & the friction of the pipe guides. This type of bellows is mainly used in sets of 2 or 3.

The movement that can be absorbed depends on the distance between the pins, which when increased, easily caters for large movements.



Standard Construction

- 316 stainless steel membranes
- 304 stainless steel sleeves
- Mild steel pipe
- Mild steel flanges
- Mild steel hinge pins and brackets

Working Conditions

- Design Pressure: 16 bar
- Design Temp: 300°C
- Cold Test Pressure: 24 Bar

Options

- **Vanstone Ends to give all wetted parts in stainless steel**
- Membranes in special alloys
- Flanges to suit BS, JIS, DIN, ASA
- External covers / Insulation
- Wetted parts in stainless steel

Codes	DN		Angular Movement (°)	Overall Length (mm)
	(ins)	(mm)		
SG050	2	50	6	180
SG065	2 ½	65	6	180
SG080	3	80	6	180
SG100	4	100	6	180
SG125	5	125	6	225
SG150	6	150	6	225
SG200	8	200	6	250
SG250	10	250	6	250
SG300	12	300	6	250