

## Data Sheet - Single Hinged Angular Expansion Joints – Type SH

The SH range of single hinged angular expansion joints are designed to absorb the thermal expansion that occurs where there are changes in pipe work direction. They are suitable for many liquids and gasses including LTHW, MTHW, HTHW and Steam.

They are designed to move in only one angular plane and when used in a two or three pin hinge system can easily cater for large amounts of movement by simply increasing the distance between the pins.



The hinges and pins prevent the bellows exerting pressure thrust forces resulting in the lowest possible stress being placed on the anchors and adjacent machinery. The only forces therefore being the combined spring rate of the bellows and the friction of the pipe guides.

The SH range can also be custom made to suit each customers individual requirements including different lengths and movements etc. Please contact our sales team for more information.

### Standard Construction

- 316 stainless steel membranes
- 304 stainless steel sleeves
- Carbon steel pipe
- Carbon steel flanges
- Carbon steel hinge pins & brackets

### Working Conditions

- Design Pressure: 10 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 M'ment (°)	Overall Length (mm)
	(“)	(mm)		
SH050	2	50	6	133
SH065	2 ½	65	6	133
SH080	3	80	6	133
SH100	4	100	6	133
SH125	5	125	6	202
SH150	6	150	6	202
SH200	8	200	6	218
SH250	10	250	6	218
SH300	12	300	6	218

Single Hinged Angular Expansion Joints must be securely anchored & adequately guided to ensure their correct performance. Omitting anchors & guides may result in failure of the system. All Quick-Steel Ltd products should be installed in accordance with our fitting instructions.