

300mm and 400mm Lateral Movement

# LS-Connector G-type

It can protect a pipeline from rapid crustal movement caused by an earthquake and from the resulting ground deformation, and also has satisfactory durability.



Make-to-order products

## Features

### Absorption of Movements

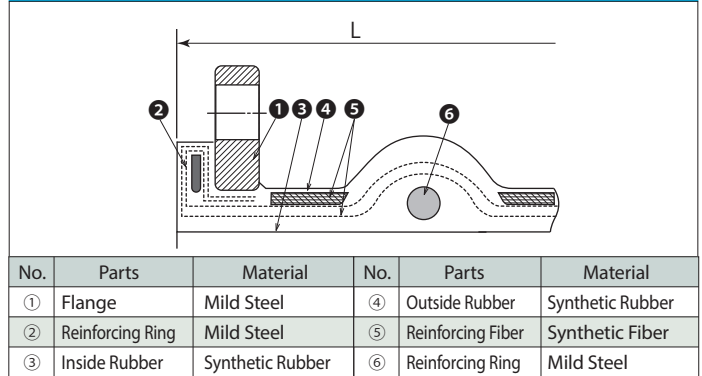
All parts except flanges are flexible. Large movements can be absorbed with small overall length.

## Classification

Lateral Movement	Aboveground / Underground Applications	Max. Working Pressure MPa (kgf/cm <sup>2</sup> )	Max. Working Temp.
For 300 mm and 400 mm	Combined use of aboveground and underground. Negative Pressure: -0.1 MPa (-760 mmHg)	Less than 0.5 (5.1)	Pressure consult us.

For higher pressure application, please consult us.

## Construction



- The products is for combined use for aboveground and underground applications.
- Please note of flat inner rubber.
- For 150 A to 600 A, the shape of reinforcing ring of part No.2 will be different.

## Dimensions and Allowable Movements 300 mm Lateral Movement

Nominal Dia. [mm]	No. of Bellows	Overall Length [mm]	Allowable Movement				Allowable Torsion Limit [°]	Mass [kg]
			L.M.[mm]	Elon.[mm]	Comp.[mm]	A.M.[°]		
20	5	550	300	60	50	30	15	3.5
25	5	550	300	60	50	30	15	4.6
32	5	550	300	60	50	30	15	5.7
40	5	550	300	60	50	30	15	6.0
50	5	550	300	60	50	30	15	7.3
65	5	650	300	60	50	30	15	10
80	5	650	300	60	50	30	15	11
100	5	650	300	60	50	30	15	13
125	5	650	300	60	50	30	15	16
150	5	650	300	60	60	30	15	25
200	5	700	300	80	60	30	15	32
250	5	700	300	80	60	20	15	45
300	5	800	300	80	60	20	15	54
350	5	900	300	80	60	15	15	74
400	5	900	300	80	70	15	15	95
450	5	900	300	80	70	15	15	116
500	5	900	300	80	70	10	15	134
600	6	1000	300	80	70	10	15	189

L. = Overall Length    Elon. = Elongation    Comp. = Compression

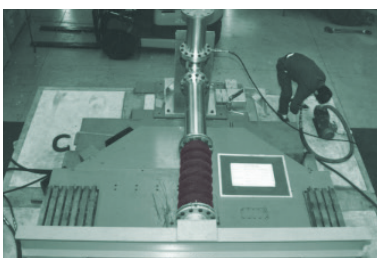
- Mass indicates the weight for underground type.
- Please use each movement within allowable movements.

## Dimensions and Allowable Movements 400 mm Lateral Movement

Nominal Dia. [mm]	No. of Bellows	Overall Length [mm]	Allowable Movement				Allowable Torsion Limit [°]	Mass [kg]
			L.M.[mm]	Elon.[mm]	Comp.[mm]	A.M.[°]		
20	7	750	400	80	50	30	15	4.2
25	7	750	400	80	50	30	15	5.5
30	7	750	400	80	50	30	15	6.7
40	7	750	400	80	50	30	15	7.0
50	7	750	400	80	50	30	15	8.0
65	6	750	400	80	50	30	15	11
80	6	750	400	80	50	30	15	12
100	6	750	400	80	50	30	15	14
125	6	750	400	80	50	30	15	18
150	6	750	400	100	60	30	15	27
200	7	850	400	100	60	30	15	39
250	7	850	400	100	60	20	15	52
300	7	950	400	100	60	20	15	62
350	7	1100	400	100	60	20	15	89
400	7	1100	400	100	70	15	15	113
450	7	1100	400	100	70	15	15	138
500	7	1100	400	100	70	15	15	158
600	7	1250	400	100	70	10	15	215

- Please note that the information in the above table is for single movement only. In case of complex movements, please do adjustment by using the following formula.  

$$C.A.E. (C.A.C.) = A.A.E.(A.A.C.) \times \left\{ 1 - \left( \frac{T.M.}{A.T.M.} + \frac{A.M.}{A.A.M.} \right) \right\}$$
 C.A.E. (C.A.C.): Correct Elongation Movement (Correct Compression Movement)  
 A.A.E. (A.A.C.): Allowable Elongation Movement (Allowable Compression Movement)  
 A.T.M.: Allowable Transverse Movement  
 A.A.M.: Allowable Angular Movement



Note: This brochure may be revised without prior notice. We apologize in advance for any inconvenience this may cause.

Agent

**TOZEN Corporation**

8-4, Asahi, Yoshikawa  
Saitama 342-0008 Japan

