Toraflex® Rubber Expansions Joints

Double Sphere Expansion Joints with Threaded Unions

Attributes of Design

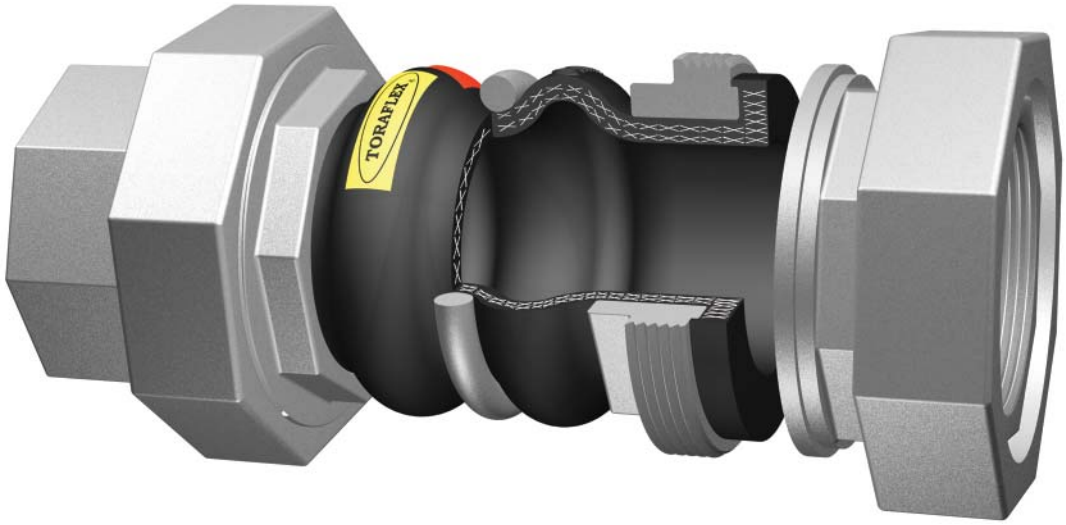
Art. Nr. 30SOTORA
Gummikompensator PN10, Baulänge: 200mm
Anschlüsse TG Holländer verzinkt
Balg aus EPDM mit Nyloncord-Einlage
mit Innengewinde

1 Double Sphere design for better strength and efficiency allow greater axial, lateral and angular movements subject to less effort and material wearing down during movements.

2 Precision injection moulded of synthetic rubber inserted into union threads.

3 Outer layer protects the bellows surface form eventual ozone attack, strikes and other environmental aggressions.

8 Root ring, compulsory for temperatures above 50ºC and/ or pressures above 10 bar.



5 Light and easy to install, little installation space required, easy maintenance of replaceable bellows, no need for counterflanges.

4 Rugged design with high burst pressure, to absorb noise and vibration and withstand water hammers to a certain extent.

6 Lot number punched for full traceability purpose.

7 Rubber material identification and maximum service pressure & temperature.

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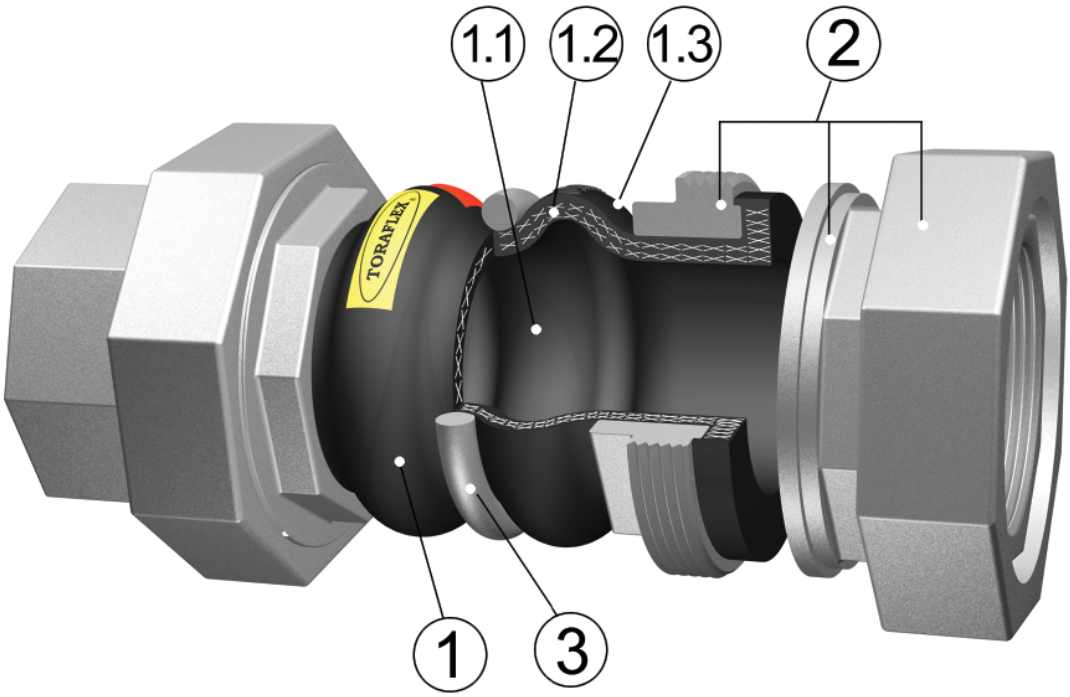
Parts and Materials



1- Vulcanised Rubber Bellow:	1.1 Rubber core (inner)
	1.2 Nylon tire cord
	1.3 Rubber cover (outer)
Rubber options: EPDM, NBR, Hypalon, Neoprene, Viton, Natural Rubber, Butyl Rubber	
2- Unions with threaded ends:	
Standard Material: Malleable Iron Zinc Plated EN-GJMB-350-10 according to EN1562 (old GTS 35-10 according to DIN 1692)	
3- Root ring:	
Standard Material: Malleable Iron Zinc Plated EN-GJMB-350-10 according to EN1562 (old GTS 35-10 according to DIN 1692)	

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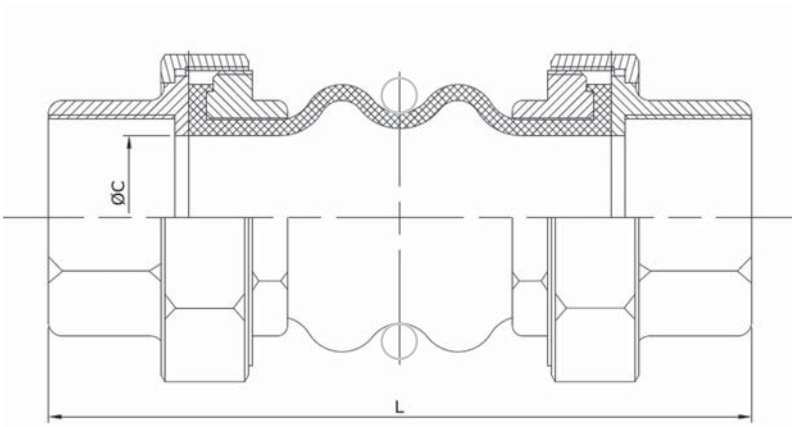
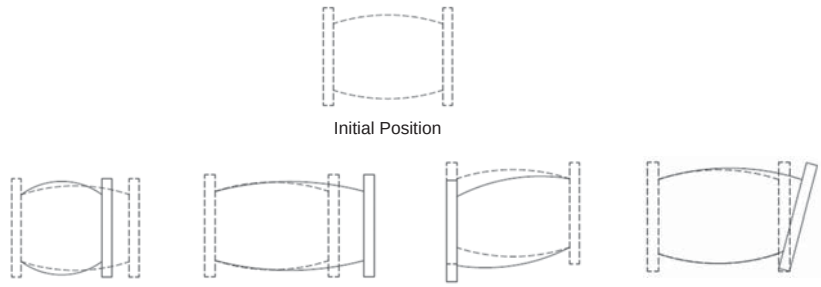
Dimensional Details



Permissible Movements



DN		BUILDING LENGTH (mm)		MAX. PERMISSIBLE MOVEMENTS FROM INITIAL POSITION*					
Inch	mm	INITIAL (L)	TOLERANCE INSTALLED (min-max)	AXIAL COMPRESSION (mm)	AXIAL EXPANSION (mm)	LATERAL DEFLECTION (mm)	ANGULAR DEFLECTION	ΦC (mm)	Approx. Weight (kg)
¾”	20	200	194-203	22	6	22	45º	17	0,7
1”	25	200	194-203	22	6	22	45º	25	1,2
1.1/4”	32	200	194-203	22	6	22	45º	32	1,4
1.1/2”	40	200	194-203	22	6	22	45º	39	2
2”	50	200	194-203	22	6	22	45º	47	2,6
2.1/2”	65	240	234-243	22	6	22	45º	60	3,8
3”	80	240	234-243	22	6	22	45º	70	5,2

Dimensions are expressed in mm, and subjected to manufacturing tolerances. Data can be altered without notice by our Design Department for the product benefit.

** The stated movements are solely valid with the joint subject to a single movement direction. Values are proportionally reduced along with the movement combination.*
** Increasing temperatures reduce the permissible movements capacity and number of cycles.*