

RUBBER BELLOWS

A Rubber bellow is a flexible joint made from heat resisting synthetic elastomers and moulded in a spherical shape with metal floating flanges.

Rubber Bellows (Flexible Rubber Joints) are installed in piping systems to absorb movements in three directions:

1. Axial – the movement of elongation and compression along the centre line
2. Lateral – offset movement from the centre line
3. Angular – offset bending about the centre line

Applications – Air, Compressed Air, Water, Sea Water, Hot Water, Weak Acid.

Single Sphere Style 10

Single sphere expansion joint style 10 is capable of handling water, warm water, seawater, weak acids, alkalies, etc. The product comes with a wide selection of flange drilling: JIS, DIN, ANSI, BS, and other standard drilling. Style 10 is manufactured with any of the following material: Neoprene, Butyl, Nitrile, EPDM, Hypalon, Natural Rubber, etc. Not only does style 10 give you many choices, it is so strong that it can withstand burst pressure 60 bars for size 5/4" to 8" and 40 bars for sizes 10" to 24".

Double Sphere Style 20 without Root Ring

The double sphere connector of Style 20 allows greater compression, elongation, and deflection, and it requires little force to cause movement. With this product, you will not have problem installing it, because Style 20 is easy to install and uses floating-flanges. Style 20 is capable of handling water, warm water, seawater, weak acids, alkalies, etc.. The product comes with a wide selection of flange drilling: JIS, DIN, ANSI, BS, and other standard drilling. It is manufactured with any of the following material: Neoprene, Butyl, Nitrile, EPDM, Hypalon, Natural Rubber, etc.

Not only does style 20 give you many choices, it is so strong that it can withstand burst pressure 60kg/cm² for size 5/4" to 8" and 40kg/ cm² for sizes 10" to 12".

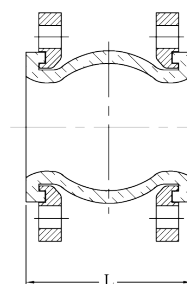
Double Sphere Threaded Unions Style 30 without Root Ring

The double sphere threaded unions style 30 product provides the benefits of superb absorption of vibration, low cost installation, and operation. It is effective for large eccentricity thermal and bending angle. Style 30 is available in BS and ANSI unions.

For more information regarding the different flanges used, please refer to the 'Flanges' section.

Single Sphere Expansion Joint - AS2129 Table E

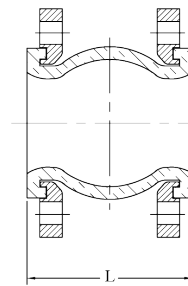
Code	NB (mm)	Length (mm)	Allowable Movement (mm)				Operating Condition		
			Axial Compression	Axial Elongation	Transverse Deflection	Angular Deflection	Max Pressure bar	Max Temperature	Vacuum Rating
FLFLEX/032TE	32	95	10	6	10	25	16	80°C	700
FLFLEX/050TE	50	105	10	6	10	25	16	80°C	700
FLFLEX/065TE	65	115	15	8	12	25	16	80°C	700
FLFLEX/080TE	80	135	15	8	12	25	16	80°C	700
FLFLEX/100TE	100	150	20	12	16	15	16	80°C	700
FLFLEX/125TE	125	165	20	12	16	15	16	80°C	700
FLFLEX/150TE	150	180	20	12	16	15	16	80°C	700
FLFLEX/200TE	200	210	20	12	16	15	16	80°C	700
FLFLEX/250TE	250	230	30	14	25	8	16	80°C	700
FLFLEX/300TE	300	230	30	14	25	8	16	80°C	700
FLFLEX/350TE	350	265	30	14	25	8	16	80°C	700



RUBBER BELLOWS

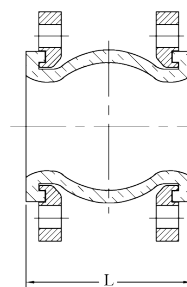
Single Sphere Expansion Joint - EN1092-1 PN16

Code	NB (mm)	Length (mm)	Allowable Movement (mm)				Operating Condition		
			Axial Compression	Axial Elongation	Transverse Deflection	Angular Deflection	Max Pressure bar	Max Temperature	Vacuum Rating
FLFLEX/050/PN16	50	105	10	6	10	25	16	80°C	700
FLFLEX/065/PN16	65	115	15	8	12	25	16	80°C	700
FLFLEX/080/PN16	80	135	15	8	12	25	16	80°C	700
FLFLEX/100/PN16	100	150	20	12	16	15	16	80°C	700
FLFLEX/125/PN16	125	165	20	12	16	15	16	80°C	700
FLFLEX/150/PN16	150	180	20	12	16	15	16	80°C	700
FLFLEX/200/PN16	200	210	20	12	16	15	16	80°C	700
FLFLEX/250/PN16	250	230	30	14	25	8	16	80°C	700



Single Sphere Expansion Joint - AS2129 Table E - EN1092-1 PN16

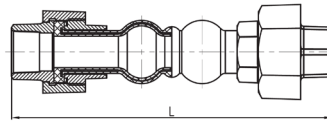
Code	NB (mm)	Length (mm)	Allowable Movement (mm)				Operating Condition		
			Axial Compression	Axial Elongation	Transverse Deflection	Angular Deflection	Max Pressure bar	Max Temperature	Vacuum Rating
FLFLEX/080TE16	80	135	15	8	12	25	16	80°C	700
FLFLEX/100TE16	100	150	20	12	16	15	16	80°C	700
FLFLEX/150TE16	150	180	20	12	16	15	16	80°C	700
FLFLEX/200TE16	200	210	20	12	16	15	16	80°C	700



RUBBER BELLOWS

Double Sphere BSP Threaded Unions

Code	NB (mm)	Length (mm)	Allowable Movement (mm)				Operating Condition		
			Axial Compression	Axial Elongation	Transverse Deflection	Angular Deflection	Max Pressure bar	Max Temperature	Vacuum Rating
FLFLEX/025BSP	25	200	22	6	22	40	16	80	500
FLFLEX/032BSP	32	200	22	6	22	40	16	80	500
FLFLEX/040BSP	40	200	22	6	22	40	16	80	500
FLFLEX/050BSP	50	200	22	6	22	40	16	80	500



Double Sphere Expansion Joint - AS2129 Table E

Code	NB (mm)	Length (mm)	Allowable Movement (mm)				Operating Condition		
			Axial Compression	Axial Elongation	Transverse Deflection	Angular Deflection	Max Pressure bar	Max Temperature	Vacuum Rating
FLFLEX/080TED	80	175	50	35	40	30	16	80	650
FLFLEX/100TED	100	225	50	35	40	30	16	80	650
FLFLEX/150TED	150	225	60	35	35	15	16	80	650
FLFLEX/200TED	200	325	60	35	35	15	16	80	650
FLFLEX/250TED	250	325	60	35	35	15	16	80	650
FLFLEX/300TED	300	325	60	35	35	15	16	80	650

