TU TWIN SPHERE UNION – SCREW END

MATERIALS

Symbol	Parts Name	Material
1	Body (Outer Layer)	Special Synthetic Rubber
2	Body (Inner Layer)	Special Synthetic Rubber
3	Reinforcing Fabric	Nylon Fabric
4	Union Flange	Malleable Iron (Galv'd)
5	Union Nut	Malleable Iron (Galv'd)
6	Union Screw	Malleable Iron (Galv'd)

DIMENSIONS AND ALLOWABLE MOVEMENTS (mm)

Nominal Size		Neutral Length	Allowable Movements in Operation			
mm	inch	L	A.C.	A.E.	L.D.	A.D.
15	1/2"	165	22	6	22	30º
20	3/4"	165	22	6	22	30º
25	1"	175	22	6	22	30º
32	1-1/4"	186	22	6	22	30º
40	1-1/2"	186	22	6	22	30º
50	2"	200	22	6	22	20º
65	2-1/2"	218	22	6	22	15º
80	3"	260	22	6	22	15º

A.C.=Axial Compression   A.E.=Axial Elongation   L.D.=Lateral Deflection   A.M.=Angular Deflection
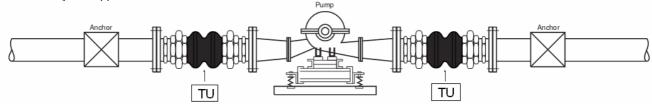
OPERATING CONDITIONS

✧ Operating Pressure: 16 Bar
✧ Operating Temperature: -10 to 80 ºC
✧ Vacuum Rating: 500 mm / Hg
✧ Applicable Fluids: Water, Warm Water, Sea Water, Air & Weak Acid
✧ Union: NPT & BSP Threaded

Operating Temperature against Operating Pressure

Operating Temperature ºF	Ambient	50	60	70	80
Maximum Operating Pressure (Bar)	16	9.6	7.5	6.2	5.0

NOTES

✦ Higher temperatures affect movement and pressure. As temperature increases, rated values must be reduced accordingly.
✦ Pressures shown are recommended "operating", test pressure is 1.5 times "operating".
✦ Vacuum rating is based on neutral installed length without external load. Products shall not be installed "elongated" on vacuum applications.
✦ Expansion joints may operate in pipelines or equipments carrying fluids at evaluated temperatures and pressures. Normal precautions shall be taken to make sure these parts are installed correctly and inspected regularly. Precautions shall be taken to protect personnel in the event of leakage or splash.
✦ For other kinds of applicable fluids, except the above, to which the rubber joint becomes applicable, please kindly consult your supplier or manufacturer.