

### DESCRIPTION (FEATURES)

Small diameter piping systems can present real problems when stress alleviation is required. Space is generally critical. Conventional flanged expansion joints cannot be used without relocating piping runs. QFTU type solves this problem because of their screw ends.

### TYPICAL APPLICATIONS

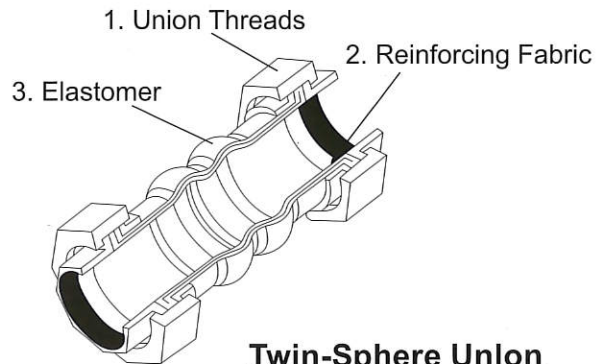
1. Building equipment, piping systems for industrial plants and piping systems for private residence.
2. Prevention of disasters due to earthquakes and subsidence of ground.
3. Waterworks, sewerage and sanitary lines ( feed - water and drainage ).



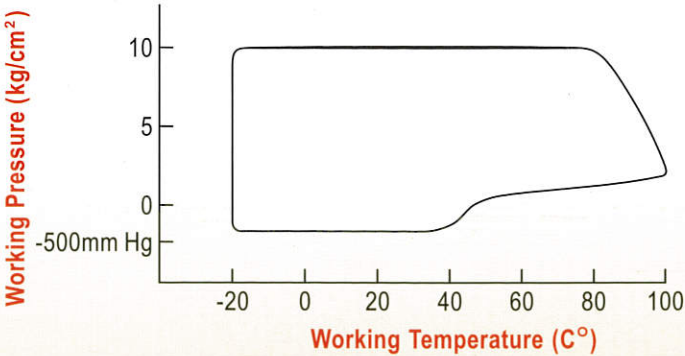
### OPERATING CONDITIONS

( based on Neoprene Rubber Material )

<b>Operating Pressure</b>	10kg / cm <sup>2</sup>
<b>Burst Pressure</b>	Over 50kg / cm <sup>2</sup> (711psi)
<b>Negative Pressure</b>	500mm Hg
<b>Working Temperature</b>	-20 °C to 100 °C ( -4 °F to 212 °F )
<b>Working Fluids</b>	Water, Hot Water, Sea Water, Compressed Air, Steam, Solvent, Acid, Weak Alkalies.



**Twin-Sphere Union**



Item	Part	Material
1	UNION	Malleable Iron
2	Reinforcing Cloth	Nylon Fabric
3	Elastomer	Synthetic Rubber

\* Standard rubber material uses EPDM & Neoprene or may be replaced by other special synthetic rubber.

### DIMENSION AND ALLOWABLE TOLERANCE / MOVEMENT

Nominal Bore ( Inner Dia. ) Size	Installation Length		Transverse Movement ( ± mm )	Axial Elongation ( mm )	Axial Compression ( mm )	Angular Deflection
	End to End Distance L ( mm )	Total Acceptable Tolerance ( -mm )				
3/4" 20mm	190	2	22	6	10	20°
1" 25mm	202	2	22	6	10	20°
1 1/4" 32mm	198	2	22	6	15	20°
1 1/2" 40mm	198	2	22	6	15	20°
2" 50mm	202	2	22	6	15	20°
2 1/2" 65mm	225	2	30	6	15	12°
3" 80mm	225	2	30	6	15	10°