

# QFTC Twin Sphere Joints

## Rubber Flexible Joints

Pipe Size	50 PSI	100 PSI	150 PSI	200 PSI	225 PSI	300 PSI
2				X	X	X
2 1/2				X	X	X
3				X	X	X
4				X	X	X
5				X	X	X
6			X	X	X	X
8		X	X	X	X	X
10		X	X	X	X	X
12		X	X	X	X	X

\* Note : X use control tie rods.

### DIMENSION AND ALLOWABLE TOLERANCE / MOVEMENT

Nominal Bore ( Inner Dia. ) Size	Length of Bellows (mm)		Transverse Movement +/- (mm)	Axial Elongation (mm)	Axial Compression (mm)	Angular Deflection
	Face to Face Distance (mm)	Total Acceptable Tolerance +/- (mm)				
2" 50mm	145	3	15	15	20	25°
2 1/2" 65mm	145	3	15	15	20	25°
3" 80mm	225	3	20	20	25	25°
4" 100mm	225	3	20	20	25	25°
5" 125mm	235	3	25	20	25	25°
6" 150mm	225	3	20	20	25	25°
8" 200mm	325	3	20	20	25	25°
10" 250mm	325	3	30	25	30	25°
12" 300mm	325	3	30	25	30	25°

\* Although the dimensional allowance for installation is as given in the table above, when installing this connector for suction purposes do not allow for its elongation.



### STRUCTURE

Item	Part	Material
1	Flange	* Mild Steel
2	Wire	Hard Steel Wire
3	Body	** Heat Resisting Rubber
4	Body	Nylon

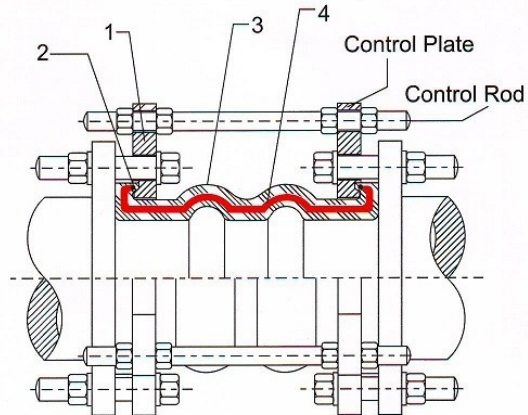
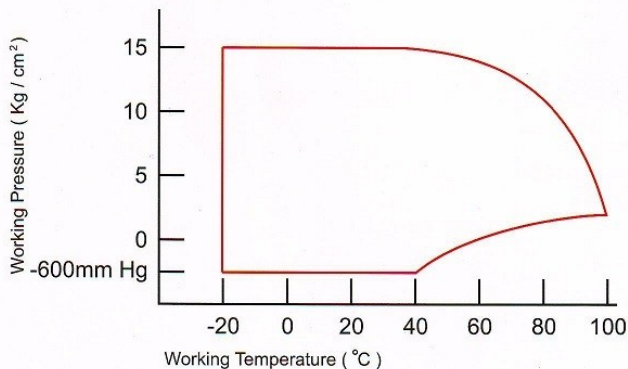
\* Flange material can be changed to Ductile Iron ( BS 2789 ) Grade 500-7 Epoxy Coating.

\*\* Standard rubber material uses Neoprene, may be replaced by other special synthetic rubber.

### OPERATING CONDITIONS

( based on Neoprene Rubber Material )

	50mm - 300mm
Operating Pressure	16kg / cm <sup>2</sup> ( 228psi )
Burst Pressure	Over 50kg / cm <sup>2</sup> ( 711 psi )
Negative Pressure	600mm Hg
Working Temperature	-20°C to 100°C ( -4°F to 212°F )
Working Fluids	Water, Hot Water, Sea Water, Compressed Air, Steam, Solvent, Acid, Weak Alkalies.



### ACCEPTANCE OF MOTION

