

# QFSC Single Sphere Joints

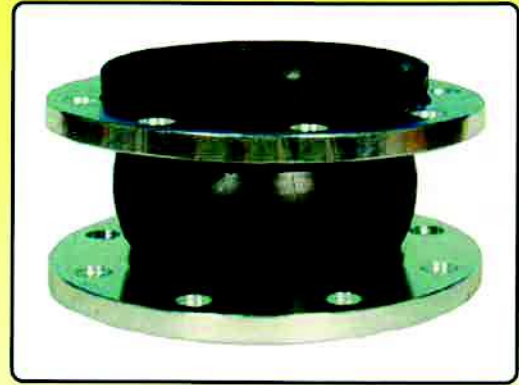
## Rubber Flexible Joints



Pipe Size	50 PSI	100 PSI	150 PSI	200 PSI	228 PSI
32mm 1 1/4"					X
40mm 1 1/2"					X
50mm 2"					X
65mm 2 1/2"					X
80mm 3"					X
100mm 4"					X
125mm 5"					X
150mm 6"				X	X
200mm 8"				X	X
250mm 10"				X	X
300mm 12"			X	X	X

Pipe Size	50 PSI	100 PSI	120 PSI
350mm 14"			X
400mm 16"		X	X
450mm 18"		X	X
500mm 20"		X	X
300mm 22"		X	X
600mm 24"		X	X

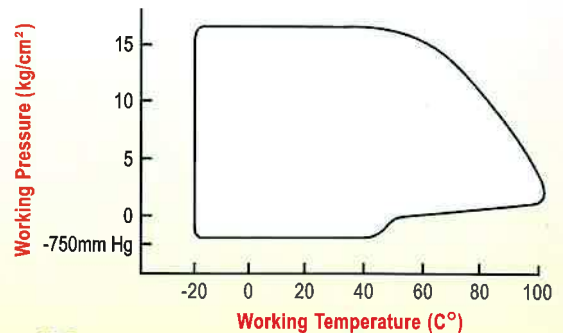
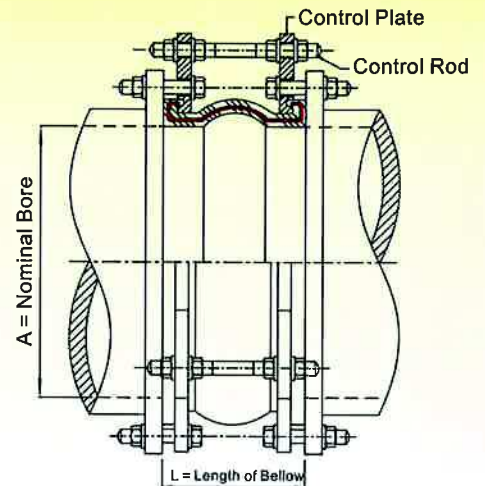
\* Note : X use control tie rods.



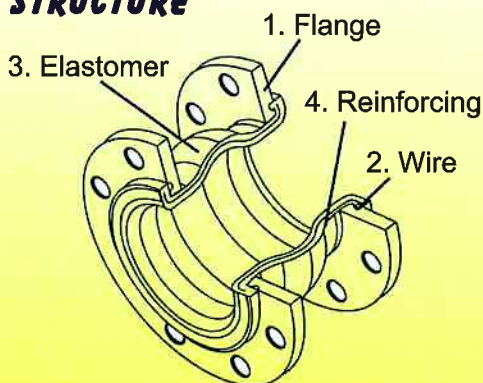
### DIMENSION AND ALLOWABLE TOLERANCE / MOVEMENT

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)				
32mm 1 1/4"	95	3	5	5	10	15°
40mm 1 1/2"	95	3	5	5	10	15°
50mm 2"	115	3	10	10	10	15°
65mm 2 1/2"	125	3	10	10	10	15°
80mm 3"	150	3	10	10	15	15°
100mm 4"	150	3	10	10	15	15°
125mm 5"	150	3	10	10	15	15°
150mm 6"	150	3	10	10	20	15°
200mm 8"	150	3	10	10	20	15°
250mm 10"	200	3	20	15	20	15°
300mm 12"	205	3	20	15	20	15°
350mm 14"	205	3	20	15	20	15°
400mm 16"	210	3	20	15	25	15°
450mm 18"	210	3	20	15	25	15°
500mm 20"	205	3	20	15	25	15°
600mm 24"	255	3	25	20	25	15°

\* 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



### OPERATING CONDITIONS

(based on Neoprene Rubber Material)

	32mm - 300mm	350mm - 600mm
Operating Pressure	16kg / cm <sup>2</sup> (228 psi)	8kg / cm <sup>2</sup> (114 psi)
Burst Pressure	Over 50kg / cm <sup>2</sup> (711 psi)	Over 30kg / cm <sup>2</sup> (427 psi)
Negative Pressure	750mm 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.	

### Single - Sphere

Item	Part	Material
1	Flanges	SS41 (changeable)
2	Wire	Hard Steel Wire
3	Elastomer	Synthetic Rubber
4	Reinforcing Fabric	Nylon Fabric

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

### ACCEPTANCE OF MOTION

