Single Sphere Rubber Expansion Joint

Fig. W500

Specification

Design in accordance with GB/T26121,HCRJ-070

Flanges comply with GB/T9115,GB / T 17241.6

Testing standards comply with GB/T26121

Technical data

Working Pressure: 16Kg/cm² / 10Kg/cm²

Burst Pressure: 48Kg/cm² / 30Kg/cm²

Vacuum Rating: 500 mmHg / 400 mmHg

Size: 50mm(2")~600mm(24")

Medium Temperature: -15℃ ~ 115℃
(according to material)

Ambient Temperature: -40℃ ~ 60℃

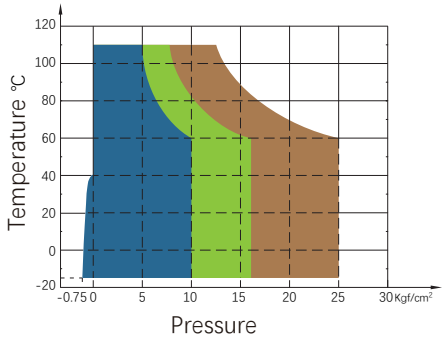
Working medium: Cold/hot water or 50% glycol solution

Material Specifications

Part Name	Materials	Material
Flange	Ductile Iron Carbon Steel	QT450 Q235
Reinforcing Ring	Carbon Steel	Steel wire
Inner Rubber	Rubber	EPDM/NBR/CR
Outer Rubber	Rubber	EPDM/NBR/CR
Reinforcing Cord	Synthetic Fibre	-

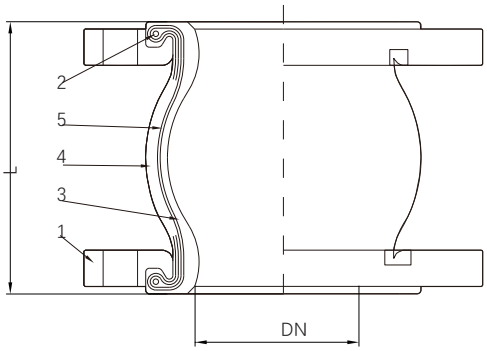
Flange Material (default): Ductile Iron (DN300 and below)
Carbon steel (DN350 and above)

Performance Table



Working Temperature vs. Working Pressure

Schematic



Dimensions

DN mm	NPS inches	length L	Allowable displacement value				Allowable installation deviation			
			Streth A.E.	Compression A.C.	Lateral Displacement T.M.	Angle of deflection A.M.	Streth A.E.	Compression A.C.	Lateral Displacement T.M.	Angle of deflection A.M.
32	1 1/4"		9	13	13	15°	3	6	4	5°
40	1 1/2"		9	13	13	15°	3	6	4	5°
50	2"		9	13	13	15°	3	6	5	5°
65	2 1/2"		9	13	13	15°	3	6	5	5°
80	3"		9	13	13	15°	3	6	6	5°
100	4"		9	15	13	15°	3	6	6	3°
125	5"		9	15	13	15°	3	6	6	3°
150	6"		9	15	13	10°	3	6	7	2°
200	8"		9	15	13	10°	3	6	7	2°
250	10"		13	19	19	10°	3	6	8	2°
300	12"		13	19	19	10°	3	6	8	2°
350	14"		13	19	19	10°	3	6	8	2°
400	16"		13	19	19	10°	3	6	8	2°
450	18"		13	19	19	10°	3	6	8	2°
500	20"		13	19	19	10°	3	6	8	2°
600	24"		13	19	19	10°	3	6	8	2°

Size: mm
Angle: °

WARCO reserves the right to change dimensions without notice.