

Double-Sphere Connectors

Features

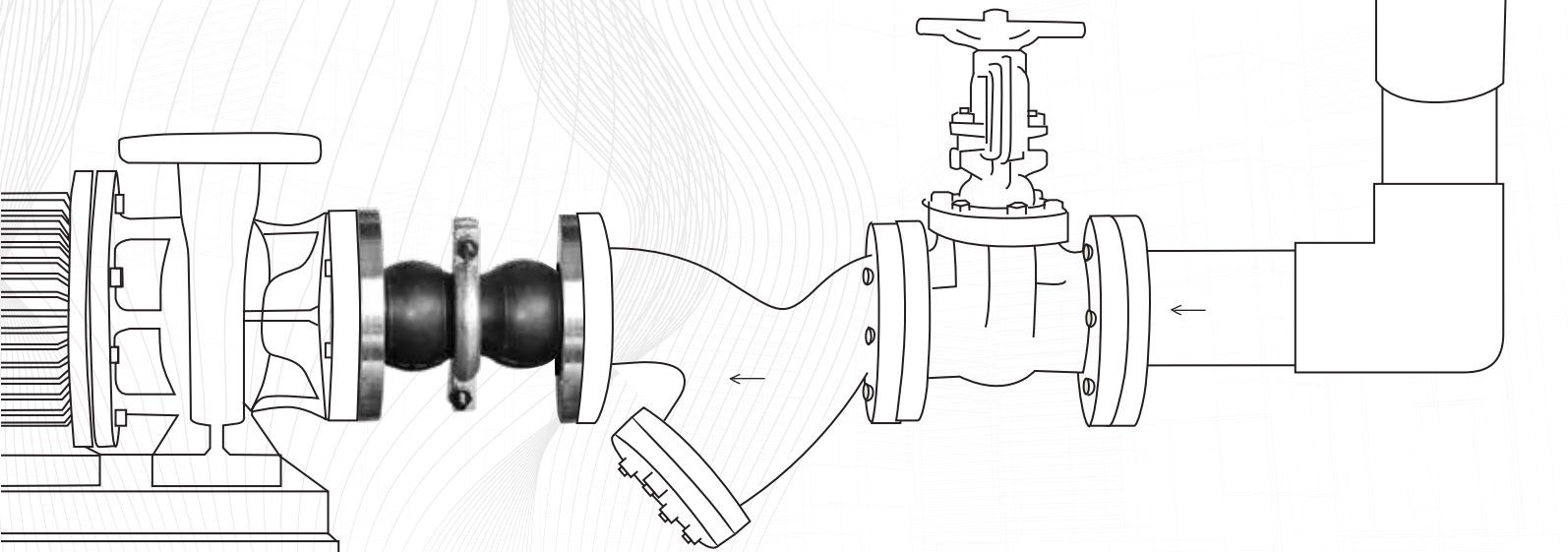
Four ways greater movements provide high level of installation flexibility.

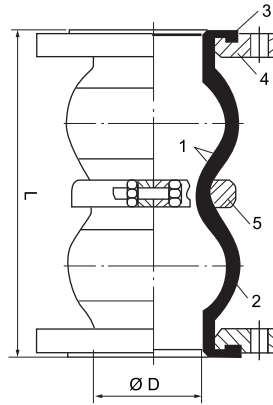
Precision molded of synthetic rubber reinforced with nylon cord.

Excellent ability to absorb vibration and sound, withstand high pressure.

Has a certain resistance to aging, heat resistance, ozone resistance.

Easy to install, use floating flanges.





Structure

Item No	Part	Material
1	Body	EPDM
2	Reinforce	Nylon Cord Fabric
3	Wire	Hard Steel Wire
4	Floating Flange	Mild Steel Zinc Planted RS 37-2
5	Ring for $\text{Ø D} \geq 6$ inch	Malleable Iron

Specification

Nominal Diameter		Face to Face L	Temp. °C	Travel mm	Allowable Movement (mm)				Pressures	
					Axial Compression	Axial Extension	Lateral Deflection	Angular Deflection	Positive P.S.I.G. at 80 °C	Negative Vacuum mmHg
Inch	mm	Inch	Min-Max	Extended						
1-1/4"	32	7	-30-110	125-205	50	30	38	38	10 bar	660
1-1/2"	40	7	-30-110	125-205	50	30	38	38	10 bar	660
2"	50	7	-30-110	125-205	50	30	38	38	10 bar	660
2-1/2"	65	7	-30-110	125-205	50	30	38	36	10 bar	660
3"	80	7	-30-110	125-205	50	30	38	36	10 bar	660
4"	100	9	-30-110	175-260	50	35	32	30	10 bar	660
5"	125	9	-30-110	175-260	50	35	32	25	10 bar	660
6"	160	9	-30-110	175-260	50	35	32	21	10 bar	660
8"	200	13	-30-110	265-360	60	35	28	17	10 bar	660
10"	250	13	-30-110	265-360	60	35	28	13	10 bar	660
12"	300	13	-30-110	265-360	60	35	28	9	10 bar	660
14"	350	14	-30-110	265-360	45	30	25	8	10 bar	550
16"	400	14	-30-110	265-360	45	30	25	7	10 bar	450
18"	450	14	-30-110	265-360	45	30	25	6	10 bar	400
20"	500	14	-30-110	265-360	45	30	25	6	10 bar	350

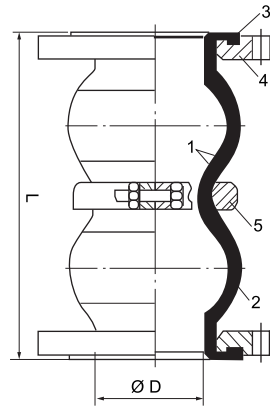
Operating Conditions

Size	Working Pressure	Burst Pressure	NOTES
1-1/4" - 12"	10 bar	40 bar	
14" - 20"	10 bar	30 bar	tie rod installed request



Structure

Item No	Part	Material
1	Body	EPDM
2	Reinforce	Nylon Cord Fabric
3	Wire	Hard Steel Wire
4	Floating Flange	Mild Steel Zinc Planted RS 37-2
5	Ring	Malleable Iron

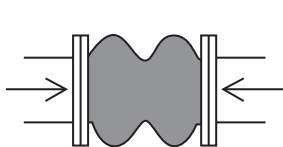


Specification

Nominal Diameter		Face to Face (L)	Temp.	Travel mm	Allowable Movement (mm)				Pressures	
			°C	Total Compressed Extended	Axial Compression	Axial Extension	Lateral Deflection	Angular Deflection	Positive P.S.I.G. at 80 °C	Negative Vacuum mmHg
Inch	mm	Inch	Min-Max							
1-1/4"	32	7	-30-110	125-205	50	30	38	38	20 bar	660
1-1/2"	40	7	-30-110	125-205	50	30	38	38	20 bar	660
2"	50	7	-30-110	125-205	50	30	38	38	20 bar	660
2-1/2"	65	7	-30-110	125-205	50	30	38	36	20 bar	660
3"	80	7	-30-110	125-205	50	30	38	36	20 bar	660
4"	100	9	-30-110	175-260	50	35	32	30	20 bar	660
5"	125	9	-30-110	175-260	50	35	32	25	20 bar	660
6"	160	9	-30-110	175-260	50	35	32	21	20 bar	660
8"	200	13	-30-110	265-360	60	35	28	17	20 bar	660
10"	250	13	-30-110	265-360	60	35	28	13	20 bar	660
12"	300	13	-30-110	265-360	60	35	28	9	20 bar	660
14"	350	14	-30-110	265-360	45	30	25	8	16 bar	550
16"	400	14	-30-110	265-360	45	30	25	7	16 bar	450
18"	450	14	-30-110	265-360	45	30	25	6	16 bar	400
20"	500	14	-30-110	265-360	45	30	25	6	16 bar	350

Operating Conditions

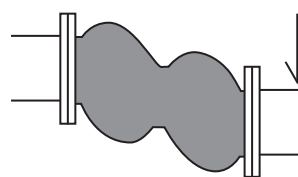
Size	Working Pressure	Burst Pressure	NOTES
1-1/4" - 6"	20 bar	60 bar	
8" - 12"	20 bar	50 bar	suggest tie rod installed
14" - 20"	16 bar	40 bar	tie rod installed request



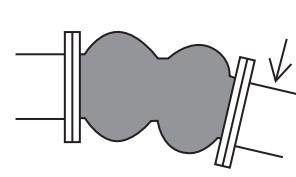
Axial compression



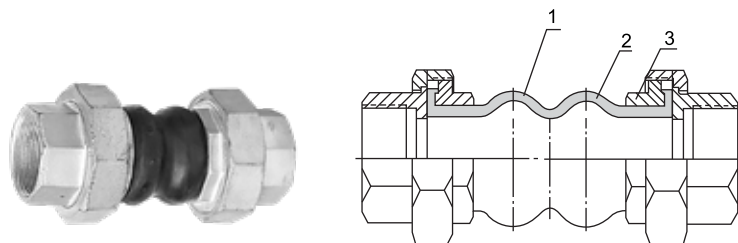
Axial extension



Lateral deflection



Angular deflection



Structure

Item No	Part	Material
1	Body	EPDM
2	Reinforce	Nylon Cord Fabric
3	Union	Malleable Iron

Features

1. Four way greater movements provide high level of installation flexibility.
2. Precision molded of synthetic rubber reinforced with nylon cord.
3. Excellent ability to absorb vibration and sound, withstand high pressure.
4. Withstand chemical corrosion, to resist acid and ozone attack.
5. Easy to install, use floating flanges.
6. BSPT screw connection

Specification

Nominal Diameter		Installed Neutral Length	Length Minimum Maksimum Installed	Temp.	Travel mm	Allowable Movement (mm)				Pressures	
				°C		Total Compressed xtended	Axial Compression	Axial Extension	Lateral Deflection	Angular Deflection	Positive P.S.I.G. at 80 °C
Inch	mm	mm	Min-Max								
1/2"	15	203	186-206	-30-110	181-209	22	6	22	32	16 bar	660
3/4"	20	203	186-206	-30-110	181-209	22	6	22	32	16 bar	660
1"	25	203	186-206	-30-110	181-209	22	6	22	25	16 bar	660
1-1/4"	32	203	186-206	-30-110	181-209	22	6	22	25	16 bar	660
1-1/2"	40	203	186-206	-30-110	181-209	22	6	22	20	16 bar	660
2"	50	203	186-206	-30-110	181-209	22	6	22	15	16 bar	660

Operating Conditions

Size	Working Pressure	Burst Pressure
1/2" - 2"	16 kg/cm ²	50 kg/cm ²
2½" - 3"	10 kg/cm ²	30 kg/cm ²

* For vacuum application, please contact sales for professional advise pressure rating is valid if and only if vacuum ring is utilized

* Please consult to our sales for product sizes that are not listed in the brochure.

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Sinar Mas Andhika

For Stress-Free Piping System