

# Product Catalog

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## Double Arch Rubber Joint



Double arch rubber joints, also known as double sphere rubber joints, are designed for piping systems to absorb pipe movements, relieve stress, reduce system noise/vibration, compensate for misalignment/offset and to protect rotating mechanical equipment against start-up surge forces.

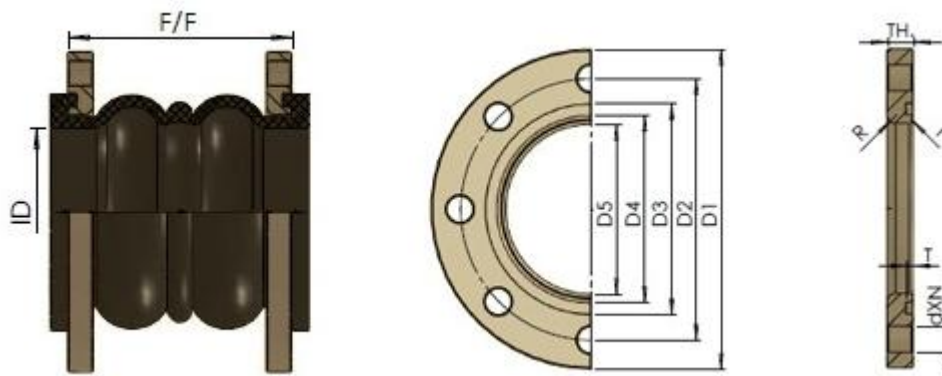
### Features and Benefits

- Absorbs directional movement
- Absorbs vibration, noise and shock
- Compensates for misalignment
- Double arch design, more flexibility
- Economical fully molded construction
- Special grooved flange ring design, prevent rubber end pulling out
- Solid galvanized steel floating flanges speed the installation time
- No gaskets required; integrally rubber flanged design

### Specifications

Supply Range:	DN25mm to DN1000mm
Maximum working pressure:	2.5 Mpa
Vacuum KPa(mmHg)	44.9(350)
Operating temperature:	-20°C-100°C
Applicable media	Sea water, drinking water, slurry, industrial sewage.

SIZE I.D. (mm)	LENGTH F/F (mm)	MAX Pressure (bar)	VACUUM Rating (mm Hg)	Movement Capability(mm)					Flange details-DIN PN16					Prox. Weight (kg)
				Comp. (mm)	Ext. (mm)	Lateral (mm)	Angular (degree)	Torsional (degree)	O.D. (mm)	B.C. (mm)	Holes (no.)	Hole (mm)	TH. (mm)	
40	175	16	760	50	30	45	35	10	150	110	4	18	14	3
50	175	16	760	50	30	45	35	9.5	165	125	4	18	14	4
65	175	16	760	50	30	45	35	7.5	185	145	4	18	15	5
80	175	16	760	50	30	45	35	6.2	200	160	8	18	15	7
100	225	16	760	50	35	40	35	5.6	220	180	8	18	15	9
125	225	16	760	50	35	40	35	4.5	250	210	8	18	15	11
150	225	16	760	50	35	40	35	3.6	285	240	8	23	20	14
200	325	16	700	50	35	35	30	2.8	340	295	12	23	20	21
250	325	16	700	60	35	35	30	2.2	405	355	12	26	20	30
300	325	16	700	60	35	35	30	1.8	460	410	12	26	22	37
350	325	10	700	60	35	35	30	1.7	520	470	16	26	22	53
400	325	10	600	60	35	35	30	1.5	580	525	16	30	22	69
450	325	10	600	60	35	35	30	1.3	640	585	20	30	25	81
500	325	10	600	60	35	35	30	1	715	650	20	34	25	111
600	325	10	600	60	35	35	30	1	840	770	20	36	25	156



Item	Part	Material
1	Tube	EPDM/NBR/Hypalon
2	Ring Flange	Ductile Iron/Carbon Steel/SS304/SS316
3	Support Ring	Mild Steel
4	Rubber Flange	EPDM/NBR/Hypalon
5	Carcass	Nylon

**NOTES:**

1. Nonstandard items beyond above tables available, contact GYLDT before placing an order.

2. The rated pressure 2.5MPa products will only be sold with control units.
3. Pressure rating is based on 30 °C operating temperature. The pressure rating is reduced at higher temperatures.
4. Weights in the above table are joints with DIN PN16 drilling retaining ring flanges.
5. Movements shown in the above table are non-concurrent.
6. Rated pressure in the above table is the maximum "working pressure". Test pressure is 1.5 times "working pressure", Burst pressure is 4 times "work pressure".
7. Normally, the flange drilling is based on DIN PN16, ANSI 150/250/300 lbs, BS PN10, JIS 10K are also available upon request.

**PS:**

1. Other Tubes material available upon request, contact GYLDT for more information.
2. Other Flange material available upon request, contact GYLDT for more information.
3. Other Flange standard available upon request, contact GYLDT for more information.

## Wide Arch Rubber Joint



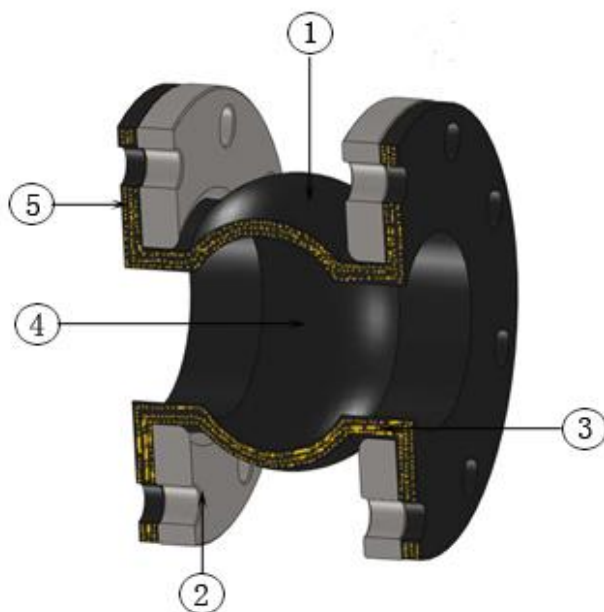
Full face type rubber expansion joints are molded wide arch designed, completed with full face rubber flanges, with no embedded metal ring. All rubber impregnated construction will extend service life, molded integral rubber flange prevents pushing out under pressure, but only DIN and part of ANSI drilling available, other drilling standard only supply on request.

**Features and Benefit:**

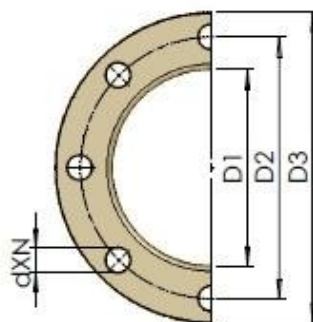
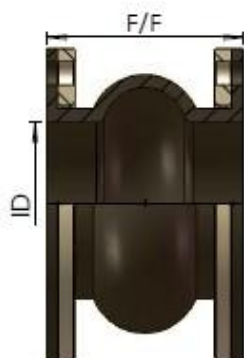
- Absorbs directional movement
- Absorbs vibration, noise and shock
- Compensates for more misalignment
- Wide flowing arch design
- Integral rubber flange design, prevent rubber end pulling out
- No gaskets required; integrally rubber flanged design

**Specifications:**

Supply Range:	DN40mm to DN3000mm
Maximum Design Pressure:	2.5 Mpa
Vacuum KPa(mmHg):	101.3(760)
Operating Temperature:	-20°C-80°C
Applicable Fluid:	Sea water, slurry, industrial sewage.



Item	Part	Material
1	Tube	EPDM/NBR/Hapylon
2	Ring Flange	Carbon Steel/Ductile Iron/SS304/SS316
3	Carcass	Nylon
4	Inner Layer	EPDM/NBR/Hapylon
5	Rubber Flange	EPDM/NBR/Hapylon





SIZE I.D.	LENGTH F/F	MAX Pressure	VACUUM Rating	Movement Capability(mm)					Spring Rate		
				Comp.	Ext.	Lateral	Angular	Torsional	Comp.	Ext.	Lateral
(mm)	(mm)	(bar)	(mm Hg)	(mm)	(mm)	(mm)	(degree)	(degree)	N/mm	N/mm	N/mm
40	95	20	760	10	6	9	39	4.0	37	49	64
50	105	20	760	10	7	10	33	4.0	37	48	64
65	115	20	760	13	7	11	28	3.8	48	60	67
80	135	20	760	15	8	12	22	3.7	56	71	75
100	150	20	760	19	10	13	18	3.6	77	99	83
125	165	20	760	19	12	13	15	3.4	94	123	99
150	180	20	760	20	12	14	15	3.2	114	147	110
200	210	18	600	25	16	22	15	3.1	126	163	134
250	230	18	600	25	16	22	15	3.0	158	206	143
300	245	18	600	25	16	22	15	2.9	165	218	170
350	255	16	600	25	16	22	15	2.8	177	228	198
400	255	16	600	25	16	22	15	2.7	189	245	230
450	255	12	550	25	16	22	15	2.6	213	275	254
500	255	12	550	25	16	22	15	2.5	214	306	283
600	260	10	500	25	16	22	15	2.3	283	369	304
700	260	10	500	25	16	22	12	2.2	357	466	384
800	350	8	400	25	16	22	12	2.1	437	569	469
900	350	8	400	25	16	22	12	2.0	472	610	503
1000	350	8	400	26	18	24	12	1.9	496	640	528
1200	350	6	400	26	18	24	12	1.8	556	727	597
1400	350	6	400	25	16	22	15	2.8	675	879	725
1600	350	6	400	25	16	22	15	2.7	740	974	803
1800	350	6	400	25	16	22	15	2.6	860	1120	924
2000	350	6	400	25	16	22	15	2.5	966	1258	1037
2200	400	6	200	25	16	22	15	2.6	1051	1375	1152
2400	400	6	200	25	16	22	15	2.6	1138	1518	1296
2600	400	6	200	25	16	22	12	2.4	1205	1688	1413
2800	400	6	200	25	16	22	12	2.4	1283	1819	1532

**Notes:**

1. Supply range can be more than DN3000, detailed data can be offered upon request.
2. Control units must be used when piping is not properly anchored.
3. The rated pressure 2.5MPa products will only be sold with control units.
4. Pressure rating is based on 30 °C operating temperature. The pressure rating is reduced at higher temperatures.
5. Weights in the above table are joints with DIN PN16 drilling retaining ring flanges.
6. Movements shown in the above table are non-concurrent.
7. Rated pressure in the above table is the maximum "working pressure". Test pressure is 1.5 times "working pressure", Burst pressure is 3 times "work pressure".

8. Normally, the flange drilling is based on DIN PN16, ANSI 150/250/300 lbs, BS PN10, JIS 10K are also available upon request.

## Double Sphere Type Rubber Joint



Double arch rubber joints, also known as double sphere rubber joints, are designed for piping systems to absorb pipe movements, relieve stress, reduce system noise/vibration, compensate misalignment/offset and protect rotating mechanical equipment against start-up surge forces.

### Features and Benefits

- Absorbs directional movement
- Absorbs vibration, noise and shock
- Compensate misalignment
- Double arch design, more flexibility
- Economical fully molded construction
- Special grooved flange ring design, prevent rubber end pulling out
- Solid galvanized steel floating flanges speed the installation time
- No gaskets required; integrally rubber flanged design

Nominal diameter:	DN25mm to DN1000mm
Maximum working pressure:	2.5 Mpa
Vacuum KPa(mmHg)	44.9(350)
Operating temperature:	-20℃-100℃

Corrosion resistance	Good
Applicable media	Sea water, drinking water, slurry, industrial sewage.

## Components/Materials/Functions

NO.	Components	Materials	Functions
1	Rubber Bellows	EPDM/NR/NBR	Body
2	Ring Flange	Carbon Steel	Fasten
3	Steel Ring	Mild Steel	Reinforce
4	Tire Cord	Nylon	Reinforce
5	Arch Design	EPDM/NR/NBR	Reduce turbulence
6	Holding-on Design	/	Prevent Pulling Out

SIZE	LENG TH	MAX	VACUU M	Movement Capability(mm)					Flange details-DIN PN1 6					Prox.
I.D.	F/F	Press ure	Rating	Com p.	Ext.	Later al	Angula r	Torsion al	O.D .	B.C.	Hole s	Hol e	TH.	Weig ht
(mm)	(mm)	(bar)	(mm H g)	(mm)	(mm )	(mm)	(degre e)	(degre e)	(mm )	(mm )	(no.)	(mm )	(mm )	(kg)
40	175	16	760	50	30	45	35	10	150	110	4	18	14	3
50	175	16	760	50	30	45	35	9.5	165	125	4	18	14	4
65	175	16	760	50	30	45	35	7.5	185	145	4	18	15	5
80	175	16	760	50	30	45	35	6.2	200	160	8	18	15	7
100	225	16	760	50	35	40	35	5.6	220	180	8	18	15	9
125	225	16	760	50	35	40	35	4.5	250	210	8	18	15	11
150	225	16	760	50	35	40	35	3.6	285	240	8	23	20	14
200	325	16	700	50	35	35	30	2.8	340	295	12	23	20	21
250	325	16	700	60	35	35	30	2.2	405	355	12	26	20	30



300	325	16	700	60	35	35	30	1.8	460	410	12	26	22	37
350	325	10	700	60	35	35	30	1.7	520	470	16	26	22	53
400	325	10	600	60	35	35	30	1.5	580	525	16	30	22	69
450	325	10	600	60	35	35	30	1.3	640	585	20	30	25	81
500	325	10	600	60	35	35	30	1	715	650	20	34	25	111
600	325	10	600	60	35	35	30	1	840	770	20	36	25	156

**NOTES:**

1. Control units must be used when piping is not properly anchored.
2. The rated pressure 2.5MPa products will only be sold with control units.
3. Pressure rating is based on 30 °C operating temperature. The pressure rating is reduced at higher temperatures.
4. Weights in the above table are joints with DIN PN16 drilling retaining ring flanges.
5. Movements shown in the above table are non-concurrent.
6. Rated pressure in the above table is the maximum "working pressure". Test pressure is 1.5 times "working pressure", Burst pressure is 4 times "work pressure".
7. Normally, the flange drilling is based on DIN PN16, ANSI 150/250/300 lbs, BS PN10, JIS 10K are also available upon request.

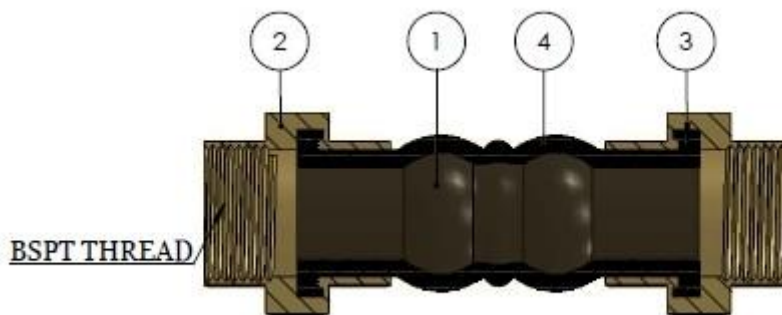
## Threaded Union Type Rubber Joint



Threaded union type rubber expansion joints completed with BSPT threaded union, twin spherical arch design. It is the economical choice to connect threaded pipes. Threaded union type rubber expansion joint allows increased compression, elongation and angular movement. The unique twin sphere design improves noise and vibration isolation and dampens hydraulic surge and shock. Refer to the Product Data Sheets for more information.

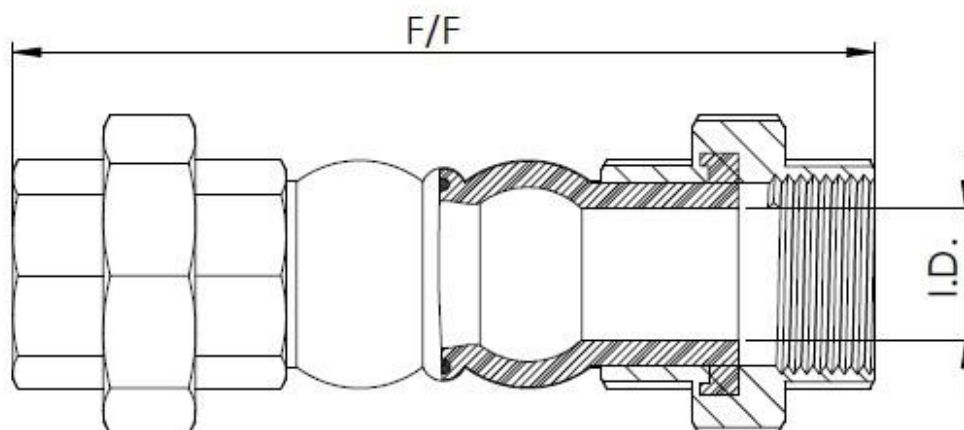
## Features and Benefits

- Economical
- Solid galvanized cast iron union ends
- BSPT and NPT are available
- Less weight, easy installation
- High tensile aircraft cable is embedded in the raised face rubber ends to prevent pull out and avoids the sharp cutting edge of solid steel rings.
- No gaskets required



## Specifications

Supply Range:	DN15mm to DN80mm
Maximum Design Pressure:	2.5 Mpa
Vacuum KPa(mmHg):	101.3(760)
Operating Temperature:	-20°C-80°C
Applicable Fluid:	Sea water, slurry, industrial sewage.



SIZE I.D	LENGTH F/F	MAX Pressure	VACUUM Rating	Movement Capability(mm)					Prox. Weight
				Comp.	Ext.	Lateral	Angular	Torsional	
(mm)	(mm)	(bar)	(mm Hg)	(mm)	(mm)	(mm)	(degree)	(degree)	(kg)
15	200	20	760	22	6	22	45°	5	0.6
20	200	20	760	22	6	22	45°	4.8	0.8
25	200	20	760	22	6	22	45°	4.5	1.2
32	200	20	760	22	6	22	45°	4	1.4
40	200	20	700	22	6	22	45°	3.8	1.5
50	200	20	700	22	6	22	45°	3.2	2.6
65	265	20	700	24	10	24	45°	3	4.0
80	280	20	700	24	10	24	45°	3	5.5

**NOTES:**

1. Pressure/Vacuum rating is based on neutral installed length(F/F).
2. Pressure rating is based on 30 °C operating temperature. The pressure rating is reduced at higher temperatures.
3. Weights in the above table are joints with BSPT Malleable Cast Iron threaded connections.
4. Movements shown in the above table are non-concurrent.
5. Rated pressure in the above table is the maximum "working pressure". Test pressure is 1.5 times "working pressure", Burst pressure is 4 times "work pressure".
6. Normally, the connections are based on BSPT, NPT or other standards are available upon request.

Price List:

PS: unit price including one rubber Tube and two threaded unions.

**PS1:**

1. Ductile iron and SUS304 threaded unions GYLDT has in stock, other materials available upon request.
2. Other bellows material available, contact GYLDT for prices.
3. Hypalon/NR is Hypalon covered NR tubes.
4. Normal threaded union standard is BSPT, NPT available upon request.

PS2:

1. When order amount less than \$1000, the prices in above table are EXW basis. If CIF by sea needed, GYLDT will ask \$500 for all the other costs.
2. When order amount between \$1000 and \$5000, the prices in above table are FOB China sea port basis. If CIF by sea needed, GYLDT will ask \$200 for all the other costs.
3. When order amount between \$5000 and \$20000, the prices in above table are CIF to indicated port by sea basis.
4. When order amount more than \$20000, please contact GYLDT for discount.
5. When urgent delivery need to be by air, please contact GYLDT for air freight.

# Threaded Union Rubber Joint



Threaded union rubber joints, also known as union twin sphere rubber joints, are designed for piping systems to absorb pipe movements, relieve stress, reduce system noise/vibration, compensate for misalignment/offset and to protect rotating mechanical equipment against start-up surge forces.

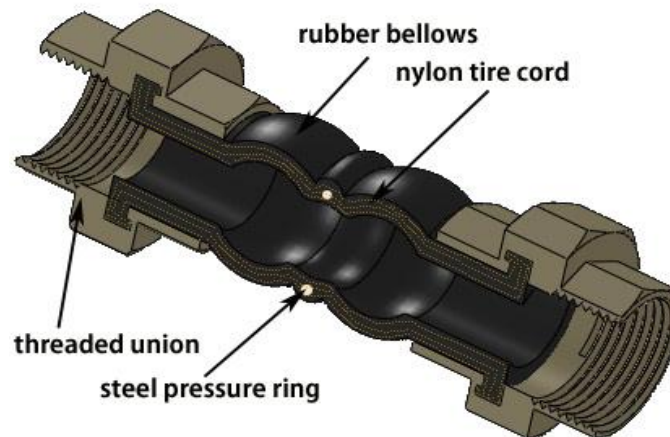
## Features and Benefits

- Versatile hand-built construction. Made in China
- Absorbs directional movement
- Absorbs vibration, noise and shock
- Compensates for misalignment
- More compensation capability
- Embedded steel reinforce ring enable the pressure resistance
- Solid galvanized steel union ends with BSPT female threads
- Less weight, easy to install
- High tensile aircraft cable is embedded in the raised face rubber ends to prevent pull out and avoids the sharp cutting edge of solid steel rings
- No gaskets required\

## Specifications

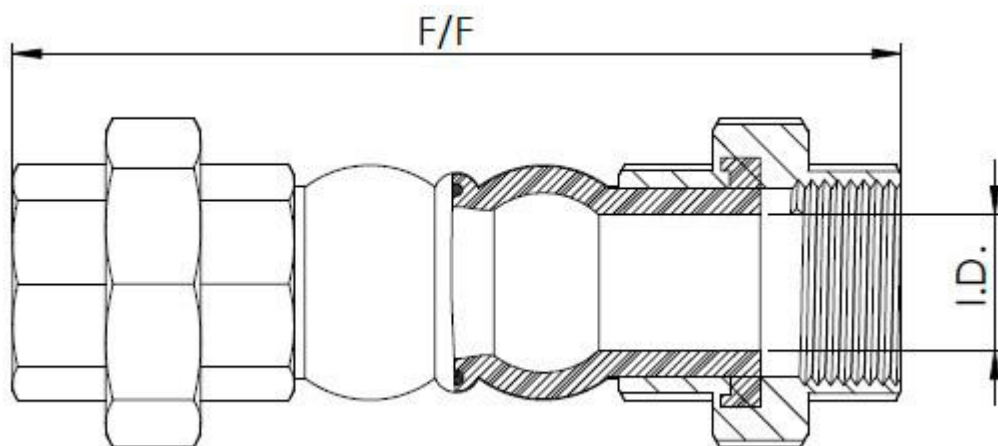
Nominal diameter:	DN15mm to DN80mm
Maximum working pressure:	2.5 Mpa
Vacuum KPa(mmHg)	101.3(760)
Operating temperature:	-20℃-100℃

Corrosion resistance	Good
Applicable media	Sea water, drinking water, slurry, industrial sewage.



Components	Materials	Functions
Rubber Bellows	EPDM/NR/NBR	Body
Ring Flange	Carbon Steel/SS	Fasten
Steel Pressure Ring	Mild Steel	Reinforce
Nylon Tire Cord	Nylon	Reinforce

### Components/Materials/Functions Data Sheet:



SIZE	LENGTH	MAX	VACUUM	Movement Capability(mm)	Prox.
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I.D	F/F	Pressure	Rating	Comp.	Ext.	Lateral	Angular	Torsional	Weight
(mm)	(mm)	(bar)	(mm Hg)	(mm)	(mm)	(mm)	(degree)	(degree)	(kg)
15	200	20	760	22	6	22	45°	5	0.6
20	200	20	760	22	6	22	45°	4.8	0.8
25	200	20	760	22	6	22	45°	4.5	1.2
32	200	20	760	22	6	22	45°	4	1.4
40	200	20	700	22	6	22	45°	3.8	1.5
50	200	20	700	22	6	22	45°	3.2	2.6
65	265	20	700	24	10	24	45°	3	4.0
80	280	20	700	24	10	24	45°	3	5.5

**NOTES:**

1. Pressure/Vacuum rating is based on neutral installed length(F/F).
3. Pressure rating is based on 30 °C operating temperature. The pressure rating is reduced at higher temperatures.
4. Weights in the above table are joints with BSPT Malleable Cast Iron threaded connections.
5. Movements shown in the above table are non-concurrent.
6. Rated pressure in the above table is the maximum "working pressure". Test pressure is 1.5 times "working pressure", Burst pressure is 4 times "work pressure".
7. Normally, the connections are based on BSPT, NPT or other standards are available upon request.

## High Pressure Rubber Joint



High Pressure Rubber Joints, is also one type of single arch rubber joints, are integral rubber flanged designed for piping systems to absorb pipe movements, relieve stress, reduce system noise/vibration, compensate for misalignment/offset and to protect rotating mechanical equipment against start-up surge forces.

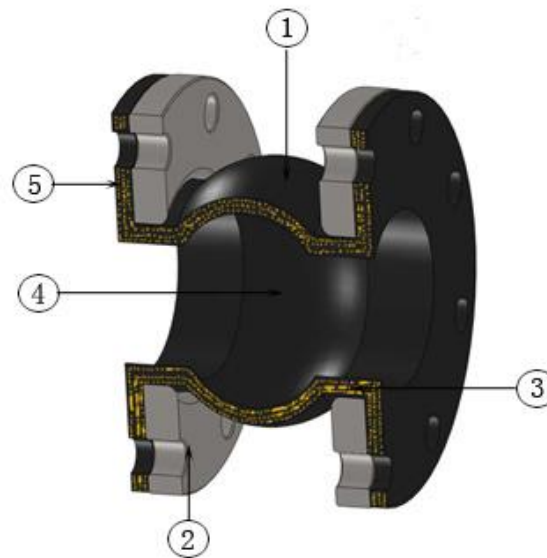
### Features and Benefit:

- Absorbs directional movement
- Absorbs vibration, noise and shock
- Compensates for more misalignment
- Wide flowing arch design
- Economical fully molded construction
- Integral rubber flange design, prevent rubber end pulling out
- Control units supplied for safety
- No gaskets required; integrally rubber flanged design

### Specifications

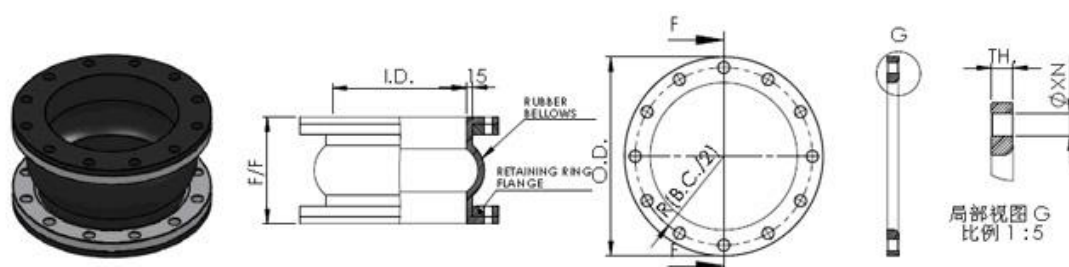
Nominal diameter:	DN25mm to DN300mm
Maximum working pressure:	2.5 Mpa
Vacuum KPa(mmHg)	44.9(350)
Operating temperature:	-20℃-100℃
Corrosion resistance	Good
Applicable media	Sea water, drinking water, slurry, industrial sewage.

## Components/Materials/Functions



NO.	Components	Materials	Functions
1	Rubber Bellows	EPDM/NR/NBR	Body
2	Ring Flange	Carbon Steel	Fasten
3	Tire Cord	Nylon	Reinforce
4	Arch Design	EPDM/NR/NBR	Reduce turbulence
5	Rubber flange	/	Prevent Pulling Out

## Data Sheet:



SIZE	LENGTH	MAX	VACUUM	Movement Capability(mm)				
I.D.	F/F	Pressure	Rating	Comp.	Ext.	Lateral	Angular	Torsional
(mm)	(mm)	(bar)	(mm/Hg)	(mm)	(mm)	(mm)	(degree)	(degree)
32	95	20	760	9	6	9	44	4.1
40	95	20	760	10	6	9	39	4.0
50	105	20	760	10	7	10	33	4.0
65	115	20	760	13	7	11	28	3.8
80	135	20	760	15	8	12	22	3.7
100	150	20	760	19	10	13	18	3.6
125	165	20	760	19	12	13	15	3.4
150	180	20	760	20	12	14	15	3.2
200	210	18	600	25	16	22	15	3.1
250	230	18	600	25	16	22	15	3.0
300	245	18	600	25	16	22	15	2.9

Flange details-DIN PN16					Spring Rate			Prox.
O.D.	B.C.	Holes	Hole	TH.	Comp.	Ext.	Lateral	Weight
(mm)	(mm)	(no.)	(mm)	(mm)	N/mm	N/mm	N/mm	(kg)
140	100	4	18	14	36	51	64	2
150	110	4	18	14	37	49	64	2
165	125	4	18	14	37	48	64	2
185	145	4	18	15	48	60	67	3
200	160	8	18	15	56	71	75	4
220	180	8	18	15	77	99	83	5
250	210	8	18	15	94	123	99	6
285	240	8	23	20	114	147	110	7
340	295	12	23	20	126	163	134	10
405	355	12	26	20	158	206	143	15
460	410	12	26	22	165	218	170	20

**Notes:**

1. Supply range can be up to DN300, detailed data can be offered upon request.
2. Control units must be used when piping is not properly anchored.
3. The rated pressure 2.5MPa products will only be sold with control units.
4. Pressure rating is based on 30 °C operating temperature. The pressure rating is reduced at higher temperatures.
5. Weights in the above table are joints with DIN PN16 drilling retaining ring flanges.
6. Movements shown in the above table are non-concurrent.
7. Rated pressure in the above table is the maximum "working pressure". Test pressure is 1.5 times "working pressure", Burst pressure is 4 times "work pressure".
8. Normally, the flange drilling is based on DIN PN16, ANSI 150/250/300 lbs, BS PN10, JIS 10K are also available upon request.

## Rubber Reducer Expansion Joint



Rubber reducers, also known as reducing rubber joints/connectors, including concentric rubber reducers and eccentric rubber reducers, are special designed for piping systems to compensate more misalignment/offset, absorb pipe movements, relieve stress, reduce system noise/vibration, and to protect rotating mechanical equipment against start-up surge forces.

### Features and Benefits

- Absorbs directional movement
- Absorbs vibration, noise and shock
- Compensates for more misalignment
- Wide flowing arch design
- Economical fully molded construction
- Special grooved flange ring design, prevent rubber end pulling out

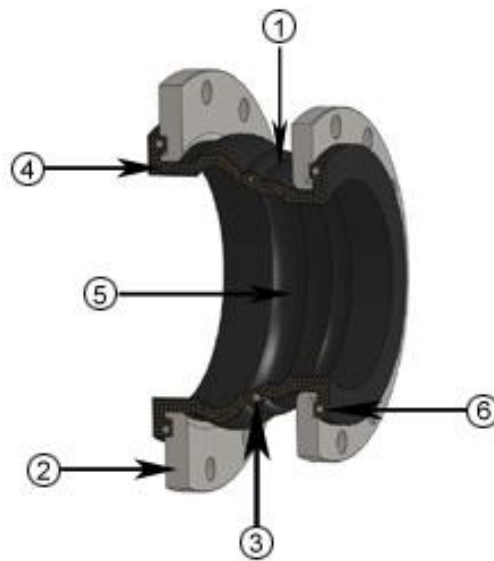


- Solid galvanized steel floating flanges speed the installation time
- No gaskets required; integrally rubber flanged design

## Specifications

Nominal diameter:	DN25mm to DN3000mm
Maximum working pressure:	2.5 Mpa
Vacuum KPa(mmHg)	44.9(350)
Operating temperature:	-20℃-100℃
Corrosion resistance	Good
Applicable media	Sea water, drinking water, slurry, industrial sewage.

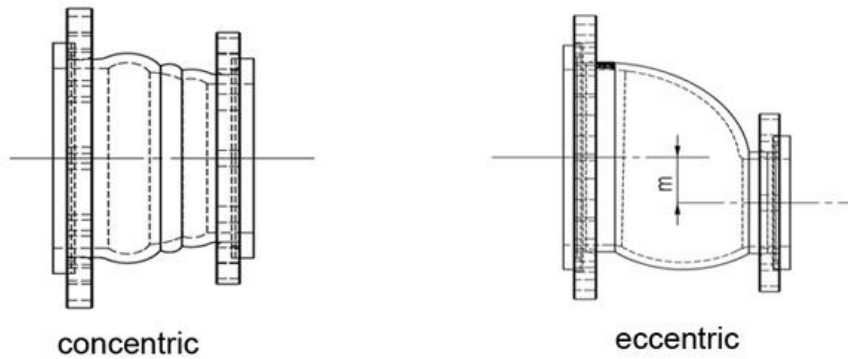
## Components/Materials/Functions



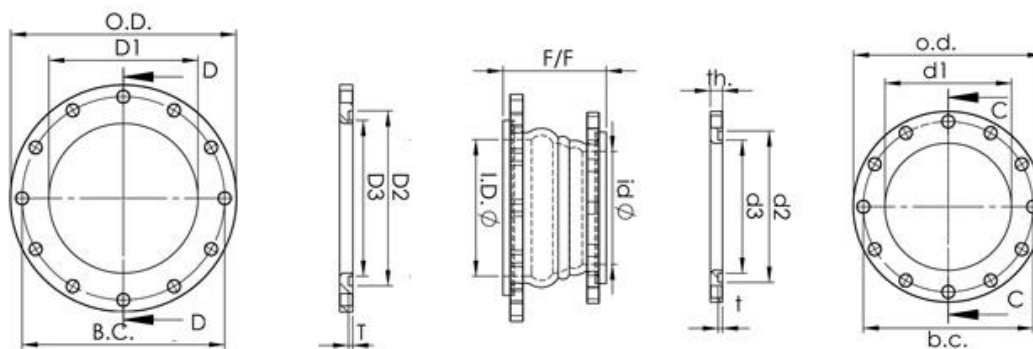
NO.	Components	Materials	Functions
1	Rubber Bellows	EPDM/NR/NBR	Body
2	Ring Flange	Carbon Steel	Fasten
3	Steel Ring	Mild Steel	Reinforce
4	Tire Cord	Nylon	Reinforce
5	Arch Design	EPDM/NR/NBR	Reduce turbulence

6	Holding-on Design	/	Prevent Pulling Out
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## Design:



## Concentric Data Sheet:

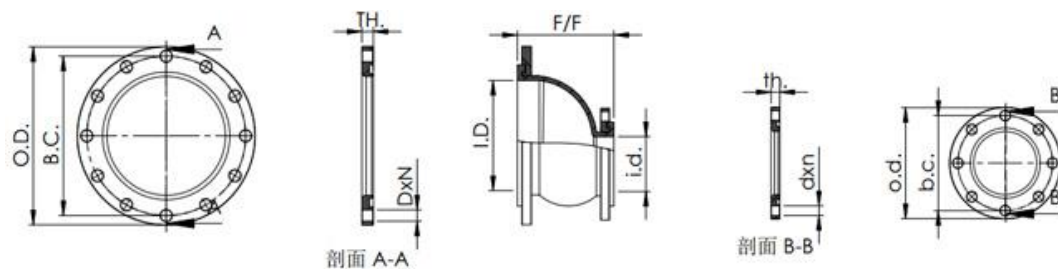


SIZE	LENGTH	MAX	VACUUM	Movement Capability(mm)					Prox.
I.D×i.d.	F/F	Pressure	Rating	Comp.	Ext.	Lateral	Angular	Torsional	Weight
(mm)	(mm)	(bar)	(mm Hg)	(mm)	(mm)	(mm)	(degree)	(degree)	(kg)
40×25	160	20	500	25	16	45	35°	4	3
40×32	120	20	500	25	16	45	35°	4	3
50×32	180	20	500	25	16	45	35°	4	3
50×40	180	20	500	25	16	45	35°	4	3
65×40	180	20	500	25	16	45	35°	3.8	4
65×50	180	20	500	25	16	45	35°	3.8	4
80×40	180	20	450	30	20	45	35°	3.5	4

80×50	180	20	450	30	20	45	35°	3.5	4
80×65	180	20	450	30	20	45	35°	3.5	5
100×50	180	18	450	30	20	45	35°	3.4	5
100×65	180	18	450	30	20	45	35°	3.4	6
100×80	180	18	450	30	20	45	35°	3.2	6
125×65	180	18	400	30	20	45	35°	3.2	6
125×80	180	18	400	30	20	45	35°	3.2	7
125×100	200	18	400	30	20	45	35°	3.1	7
150×50	190	18	350	30	20	45	35°	3	7
150×65	200	18	350	30	20	45	35°	2.9	8
150×80	180	18	350	30	20	45	35°	2.8	8
150×100	200	16	350	30	20	45	35°	2.7	9
150×125	200	16	350	30	20	45	35°	2.6	9
200×100	200	16	350	30	22	40	35°	2.5	11
200×125	220	16	350	35	25	40	35°	2.4	12
200×150	200	16	350	30	22	40	35°	2.3	13
250×125	220	14	320	35	25	40	35°	2.2	16
250×150	220	14	320	35	25	40	35°	2.1	18
250×200	220	14	320	35	25	40	35°	2	20
300×150	220	14	320	35	25	40	35°	1.9	21
300×200	220	14	320	35	25	40	35°	1.8	22
300×250	220	14	320	35	25	40	35°	1.7	26
350×200	230	14	320	35	25	40	35°	1.6	29
350×250	230	14	300	35	25	40	35°	1.5	33
350×300	230	14	300	35	25	40	35°	1.4	36
400×200	230	12	300	35	25	40	35°	1.3	35
400×250	240	12	300	35	25	40	35°	1.2	39
400×300	240	12	300	35	25	40	35°	1	42
400×350	260	12	300	35	25	40	35°	1	49

450×300	240	12	300	38	25	35	35°	1	47
450×350	240	12	280	38	25	35	35°	1	54
450×400	240	12	280	38	25	35	35°	1	60
500×300	280	9	280	40	28	35	35°	1	60
500×350	240	9	280	40	28	35	35°	1	67
500×400	230	9	280	40	28	35	35°	1	73
500×450	240	9	280	40	28	35	35°	1	78
600×400	240	8	280	40	28	35	35°	1	94
600×500	240	8	280	40	28	35	35°	1	112
700×600	260	6	280	40	28	35	35°	1	132

### Eccentric Data Sheet:



SIZE	LENGTH	MAX	VACUUM	Movement Capability(mm)					Prox.
I.D×i.d.	F/F	Pressure	Rating	Comp.	Ext.	Lateral	Angular	Torsional	Weight
(mm)	(mm)	(bar)	(mm Hg)	(mm)	(mm)	(mm)	(degree)	(degree)	(kg)
40×25	180	16	450	25	16	45	35	4	3
40×32	180	16	450	25	16	45	35	4	3
50×32	180	14	450	25	16	45	35	4	3
50×40	180	14	450	25	16	45	35	4	3
65×40	180	13	450	25	16	45	35	3.8	4
65×50	180	13	450	25	16	45	35	3.8	4
80×40	180	13	400	30	20	45	35	3.5	4
80×50	180	13	400	30	20	45	35	3.5	4

80×65	180	12	400	30	20	45	35	3.5	5
100×50	180	12	350	30	20	45	35	3.4	5
100×65	180	12	350	30	20	45	35	3.4	6
100×80	180	12	350	30	20	45	35	3.2	6
125×65	180	11	350	30	20	45	35	3.2	6
125×80	180	11	350	30	20	45	35	3.2	7
125×100	180	10	350	30	20	45	35	3.1	7
150×65	200	11	350	30	20	45	35	3	8
150×80	200	10	350	30	20	45	35	2.9	8
150×100	200	9	320	30	20	45	35	2.8	9
150×125	200	9	320	30	20	45	35	2.7	9
200×100	220	8	320	30	22	40	35	2.6	11
200×125	220	8	320	35	25	40	35	2.5	12
200×150	220	8	320	30	22	40	35	2.4	13
250×125	220	7	320	35	25	40	35	2.3	16
250×150	220	7	320	35	25	40	35	2.2	18
250×200	220	7	300	35	25	40	35	2.1	20
300×150	220	7	300	35	25	40	35	2	21
300×200	220	6	300	35	25	40	35	1.9	22
300×250	220	6	300	35	25	40	35	1.8	26
350×200	230	6	300	35	25	40	35	1.7	29
350×250	230	6	300	35	25	40	35	1.6	33
350×300	230	6	300	35	25	40	35	1.5	36
400×200	240	5	280	35	25	40	35	1.4	35
400×250	240	5	280	35	25	40	35	1.3	39
400×300	240	5	280	35	25	40	35	1.2	42
400×350	260	5	280	35	25	40	35	1	49

**NOTES:**

1. Pressure/Vacuum rating is based on neutral installed length(F/F).



2. Pressure rating is based on 30 °C operating temperature. The pressure rating is reduced at higher temperatures.
3. Weights in the above table are joints with DIN PN16 drilling retaining ring flanges.
4. Movements shown in the above table are non-concurrent.
5. Control units must be used when piping is not properly anchored.
6. Rated pressure in the above table is the maximum "working pressure". Test pressure is 1.5 times "working pressure", Burst pressure is 4 times "work pressure".
7. Normally, the flange drilling is based on DIN PN16, ANSI 150/250/300 lbs, BS PN10, JIS 10K are also available upon request.

## Single Arch Rubber Joint



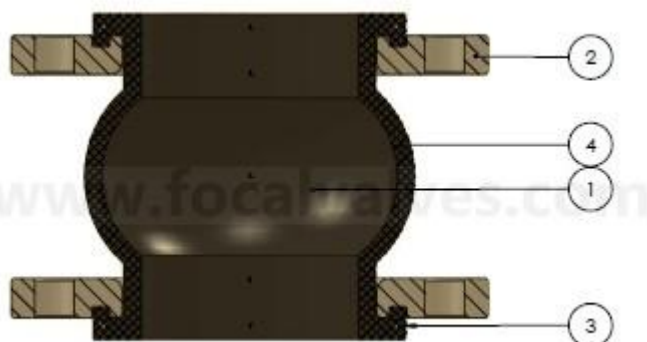
Single Arch type rubber expansion joints completed with molded arch tube and solid floating flanges, the flange drilling can be drilling according to DIN PN10/16/25, ANSI class 150, JIS 10K or Table D/E, etc. It is the economical choice to absorb movements and stress on piping systems, compensate for pipe misalignment, reduce vibration and system noise. They also protect against start-up forces as well as system surges. Refer to the Product Data Sheets for more information.

### Features and Benefits

- Economical, any flange standards available
- Solid floating flanges, easy to install
- High tensile aircraft cable is embedded in the raised face rubber ends to prevent pull out and avoids the sharp cutting edge of solid steel rings
- No gaskets required

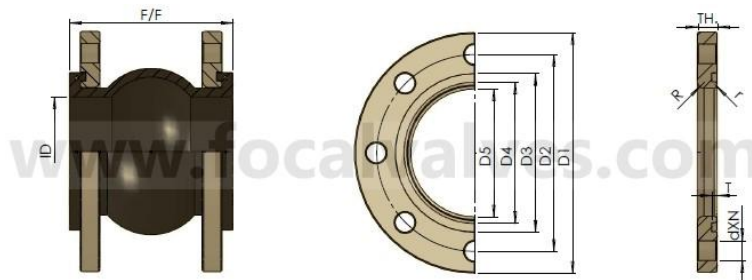
**Specifications:**

Supply Range:	DN25mm to DN1200mm
Maximum Design Pressure:	2.5 Mpa
Vacuum KPa(mmHg):	101.3(760)
Operating Temperature:	-20°C-80°C
Applicable Fluid:	Sea water, slurry, industrial sewage.



Item	Part	Material
1	Tube	EPDM/NBR/Hapylon
2	Ring Flange	Carbon Steel/Ductile Iron/SS304/SS316
3	Support Ring	Mild Steel
4	Carcass	Nylon

SIZE I.D. (mm)	LENGTH F/F (mm)	MAX Pressure (bar)	VACUUM Rating (mm Hg)	Movement Capability(mm)					Flange details-Drilling/TH.(mm)				
				Comp. (mm)	Ext. (mm)	Lateral (mm)	Angular (degree)	Torsional (degree)	PN10 TH.	PN16 TH.	Class150 TH.	JIS 10K TH.	Table D/E TH.
25	95	20	760	9	6	9	15	4	16	16	14	14	14
32	95	20	760	9	6	9	15	4	16	16	16	16	14
40	95	20	760	10	6	9	15	3.5	16	16	18	16	14
50	105	20	760	10	7	10	15	3.3	18	18	20	16	16
65	115	20	760	13	7	11	15	3.2	18	18	22	18	16
80	135	20	760	15	8	12	15	3.1	20	20	24	18	16
100	150	16	700	19	10	13	15	2.9	20	20	24	18	16
125	165	16	700	19	12	13	15	2.8	22	22	24	20	18
150	180	16	700	20	12	14	15	2.7	22	22	26	22	18
200	210	16	700	25	16	22	15	2.6	24	24	28	22	20
250	230	16	700	25	16	22	15	2.5	26	26	30	24	22
300	245	16	700	25	16	22	15	2.4	26	28	32	24	24
350	255	10	600	25	16	22	15	2.3	28	30	34	26	28
400	255	10	600	25	16	22	15	2.2	32	32	36	28	32
450	255	10	600	25	16	22	15	2.1	38	38	40	30	34
500	255	10	600	25	16	22	15	1.8	38	38	42	30	38
600	260	10	600	25	16	22	15	1.6	40	42	48	32	46
700	260	6	550	25	16	22	15	1.4	40	44	52	34	/
800	260	6	550	25	16	22	15	1.2	44	50	56	36	/
900	260	6	550	25	16	22	15	1	48	54	60	38	/
1000	260	6	550	26	18	24	15	1	50	60	64	40	/
1200	260	6	550	26	18	24	15	1	54	68	70	44	/

**NOTES:**

1. F/F length can be customized, detailed data can be offered upon request.
2. Control units must be used when piping is not properly anchored.
3. The rated pressure can be above 2.5MPa, but products will only be sold with control units.
4. Pressure rating is based on 30 °C operating temperature. The pressure rating is

reduced at higher temperatures.

5. Weights in the above table are joints with DIN PN16 drilling retaining ring flanges.
6. Movements shown in the above table are non-concurrent.
7. Rated pressure in the above table is the maximum "working pressure". Test pressure is 1.5 times "working pressure", Burst pressure is 4 times "work pressure".
8. Normally, the flange drilling is based on DIN PN16, ANSI 150/250/300 lbs, BS PN10, JIS 10K are also available upon request.

## Slip-On Type Rubber Joint



Rubber: EPDM, Natural Rubber, Neoprene, Nitrile, Hapylon, etc.

Clamp: 304ss

Bolts & Nuts: 304ss

Design Pressure: 6 Barg

Applicable Temperature: -20 °C to 80 °C

SIZE	LENGTH	MAX	VACUUM	Movement Capability(mm)					Prox.
I.D. (mm)	F/F (mm)	Pressure (bar)	Rating (mm Hg)	Comp. (mm)	Ext. (mm)	Lateral (mm)	Angular (degree)	Torsional (degree)	Weight (kg)
50	180	6	350	45	20	20	15	3.3	1.5
65	180	6	350	45	20	20	15	3.2	2.0
80	180	6	350	45	20	20	15	3.1	3.0
100	180	6	350	45	20	20	15	2.9	3.5
125	180	4	350	45	20	20	15	2.8	4.5
150	180	4	350	45	20	20	15	2.7	5.5
200	200	4	350	45	20	20	15	2.6	7.0
250	200	3	350	45	20	20	15	2.5	9.0
300	200	3	350	45	20	20	15	2.4	12.0
350	200	3	350	45	20	20	15	2.3	16.0
400	200	2	350	45	20	20	15	2.2	22.0
450	200	2	350	45	20	20	15	2.1	26.0
500	200	2	350	45	20	20	15	2.0	32.0