



HAS BEEN IMITATED, NEVER BEEN SURPASSED



Shanghai Songjiang Shock Absorber Group Co., Ltd

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Product Catalog

Shanghai Songjiang Shock Absorber Group Co., Ltd.



**SHANGHAI SONGJIANG
SHOCK ABSORBER
GROUP CO. LTD**



SONGJIANGFLEX

ENHANCE THE IMAGE OF CHINA'S VIBRATION ISOLATION
AND NOISE REDUCTION INDUSTRY
ACHIEVE SUSTAINABLE INDUSTRY LEADER





Catalog

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SongJiang Group Introduction

Shanghai Songjiang Shock Absorber Group Co., Ltd. is a conglomerate engaged in the research, development, production, and sales of industrial vibration isolator. It enjoys high reputation and influence in industries such as petroleum, chemical, metallurgy, power, construction, thermal energy, and water supply. Product quality has always been the goal pursued by Songjiang.

Our company boasts strong technical capabilities, complete production equipment, and the ability to develop various types of vibration isolation. We have advanced laboratory equipment and sophisticated testing methods. Our rubber expansion joints have obtained ISO9001-2015 international quality system certification, OHSAS18001 occupational health system certification, ISO14001 environmental management system certification, American Bureau of Shipping (ABS) certification, and TUV certification from Germany's TUV Rheinland. We have been recognized as a Shanghai enterprise complying with safety production standards, a qualified supplier of Shanghai Pudong Water Group, and a qualified supplier of rubber expansion joints for China Nuclear Gansu Nuclear Technology. We possess qualification certificates such as edible-grade rubber expansion joint testing report, water immersion testing report, type test report, and flame retardant testing report. ^{在2018年}we successfully ^{粘贴}provided rubber expansion joints for the Chinese commercial aircraft C919. Leveraging our years of research and production experience, we optimize and combine our products to ensure stable quality. Our product range includes flexible rubber expansion joints, spring vibration isolators, rubber vibration isolators, stainless steel metal hoses, corrugated compensators, automotive vibration isolators, and more. Our products are suitable for various applications such as water pumps, fans, air conditioning units, power generators, diesel engine units, compressors, sound systems, punching machines, power test benches, soundproof chambers, and transformers, providing fundamental vibration isolation.



In 2017, Songjiang Group invested 120 million in the Shuangdian Industrial Zone of Nantong City to construct the "Annual Production of 1.2 Million vibration isolation Project." In December 2018, the construction was completed, and the company relocated to the Nantong factory. The new factory introduced a large number of automated intelligent equipment, including automatic batching machines, automatic feeding machines, automatic rubber refining machines, CNC feeding machines, CNC cutting machines, automatic molding machines, automatic vulcanization machines, CNC system center, CNC lathes, automatic packaging machines, automatic winding machines, and automatic wrapping machines. The Nantong factory has its own testing center equipped with 3-liter internal mixers, 6-inch open mills, rubber vulcanizers, universal tensile testers, low-temperature testers, high-temperature testers, wear resistance testers, hardness testers, water pressure testers, burst testers, fatigue testers, spectrometers, chloride ion detectors, simulated vibration test benches, and other testing and testing equipment.

Shanghai Songjiang Shock Absorber Group Co., Ltd. adheres to the motto "Quality is the life of Songjiang Group" and provides vibration isolation and noise reduction solutions to society. We contribute our efforts to create a quiet living environment for humanity.





Team Style



Tug of war



Group photo in Nantong



Employee rewards



Employee training



Outside training



Factory fire drill



Shanghai team



Shanghai Fire Drill



Provide vibration isolation and noise reduction solutions for super high-rise buildings



MAINSTREAM PRODUCTS





► Factory Environment ◀



Factory gate



Factory region



Office and Exhibition Hall



Production workshop

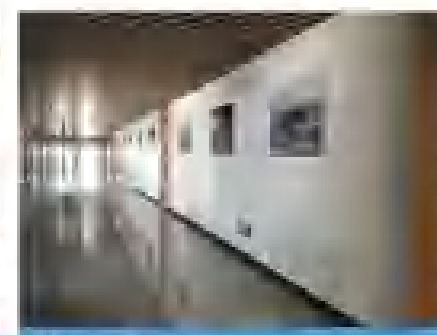
Work together Create a win-win situation



► Office And Exhibition ◀



Conference room



Reception area



Factory Direct Sales Area



Learning Center and R&D



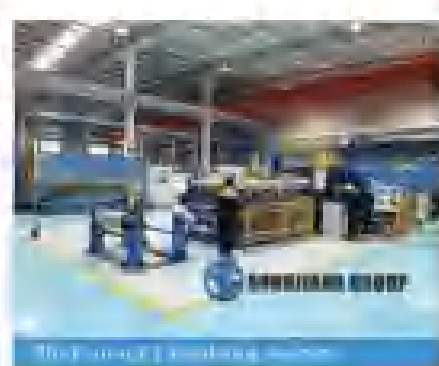
Shanghai Fair (Shanghai) 2014



Hannover Fair 2014



✦ Mixing Workshop ✦



✦ Production Workshop ✦





▶ Testing Center ◀



Rubber internal mixer testing machine



Rubber Vulcanizer



Universal Tension Testing Machine



X-ray wire position analyzer



Water pressure testing machine



Hydraulic Burst Testing Machine



▶ Warehouse Delivery ◀



Large industrial machinery component



Large industrial machinery component



Large industrial machinery component



Large industrial machinery component



Large industrial machinery component



Large industrial machinery component



► Industry Case ◀



上海交通大学
Shanghai Jiao Tong University



哈尔滨工业大学
HARBIN INSTITUTE OF TECHNOLOGY



武汉大学
WUHAN UNIVERSITY



Hainan Changjiang nuclear power station



Qinshan Nuclear Power Station



Fangshenggang nuclear power station



Beijing Daxing Airport



National Convention and Exhibition Center



Hong Kong-Zhuhai-Macao Bridge



Xiamen World Trade Building



Wuhan World Trade Center



Changsha IFS Center



► Industry Case ◀



Hilton



MARRIOTT



Sheraton



Alibaba Ding computer room project



China Mobile Shanghai Jiaxing project



Huawei terminal base Songshan Lake project



Guangzhou Metro Line 13



China commercial aircraft C919



500 ton salvage pipe laying vessel



Yichang Three Gorges Dam Project



Uzbekistan section of Central Asia gas pipeline



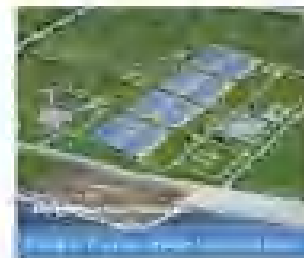
Beijing ice rink of 2022 East Olympic Games

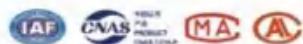


Industry Case



Mixing Workshop





PATENT CERTIFICATE

Cooperative partner of Fortune Global 500 companies



THE NEW DESIGN HAS BEEN RECOGNIZED
BY THE NATIONAL INTELLECTUAL PROPERTY RIGHTS



Appearance of the tube



Tube inner membrane



Spherical flange



Packaging appearance



Airbag upper cover



Airbag lower cover



One cylinder



NG flange



PATENT CERTIFICATE

Anti-counterfeiting must be investigated



NEW DESIGN ORIGINAL
AUTHENTIC 100% ORIGINAL RUBBER



Appearance patent



Internal line patent



Traceable record



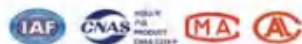
Internal structure



Precise positioning of steel wire



Sealing surface patent



OFFICIAL COMMITMENT

NO RECLAIMED RUBBER, OTHERWISE ONE COMPENSATED FOR TEN



NR HIGH-QUALITY RAW MATERIALS 100% RAW RUBBER



Material area



Natural rubber



Well-known domestic brands



High quality kaolin



Shanghai time-honored carbon black



High quality resin



OFFICIAL COMMITMENT

NO RECLAIMED RUBBER, OTHERWISE ONE COMPENSATED FOR TEN



NBR HIGH-QUALITY RAW MATERIALS 100% RAW RUBBER



Material area



PetroChina Nitrile Rubber



CR121 Neoprene



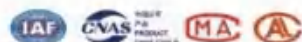
Sinopec Antioxidant



Shanghai Boca Carbon Black



Shanghai time-honored zinc oxide



OFFICIAL COMMITMENT

NO RECLAIMED RUBBER, OTHERWISE ONE COMPENSATED FOR TEN



Real ships (Picture Pictures) Published

EPDM HIGH-QUALITY RAW MATERIALS 100% RAW RUBBER



Material area



Japan Mitsui 4045



Shanghai old brand zinc oxide



High quality white carbon black



Shanghai Boca Carbon Black



Shanghai Boca Carbon Black



C919

Rubber expansion joint

for China commercial aircraft C919



NOT ONLY DARE TO PROMISE BUT ALSO ABLE TO DELIVER

QUICK AFTER-SALES SERVICE PRIORITY AFTER-SALES SERVICE ALL SERVICE REQUESTS ARE EXPEDITED AND SPECIALLY APPROVED FOR PROCESSING, INCLUDING HOLIDAYS.	FAST TWELVE HOURS IF ANY QUALITY ISSUES ARISE, WE WILL PROVIDE A WRITTEN RESPONSE WITHIN TWELVE HOURS AND A RESOLUTION PLAN WITHIN TWENTY-FOUR HOURS.	ONE ONE YEAR WARRANTY SPECIAL PRODUCT WARRANTY FOR ONE YEAR. FOR EXAMPLE: STRONG ACID-ALKALI CORROSION RESISTANCE, PARTICLE FRICTION RESISTANCE, ULTRA-HIGH TEMPERATURE RESISTANCE.
THREE THREE YEAR WARRANTY COMPENSATION FOR ISSUES: IN CASE OF ANY INHERENT QUALITY PROBLEMS WITH THE PRODUCT, WE WILL COVER THE SHIPPING COSTS AND PROVIDE FREE PRODUCT REPLACEMENT.	FREE ISSUE RESOLUTION COMPENSATION FOR ISSUES: IN CASE OF ANY INHERENT QUALITY PROBLEMS WITH THE PRODUCT, WE WILL COVER THE SHIPPING COSTS AND PROVIDE FREE PRODUCT REPLACEMENT.	FIVE FIVE YEAR WARRANTY FIVE-YEAR WARRANTY FOR WATER-RELATED PRODUCTS, SUCH AS AIR-CONDITIONING SYSTEMS, FIRE PROTECTION SYSTEMS, AND PLUMBING SYSTEMS.



► Flexible Rubber Expansion Joint ◀

Performance characteristics:

The flexible rubber expansion joint, also known as a vibration isolator, pipeline compensator, rubber bellow, or flexible joint, is a type of pipe joint with high elasticity, airtightness, resistance to media, and weather resistance. It has the following performance characteristics:

1. Small size, light weight, good elasticity, easy installation, and maintenance.
2. During installation, it can generate lateral, axial, and angular displacement, without being limited by the misalignment of user pipelines or non-parallel flanges.
3. It can reduce the transmission of structural noise and has strong vibration absorption capability.
4. Our internally developed seamless high-pressure flexible rubber joint effectively prevents corrosive media from eroding the inner wall of the flexible rubber joint in pipelines with high temperature, acid and alkali resistance, and oil resistance, thereby improving its service life.

Anti-pull support device



Hard Steel Wire Reinforcement

Shoulder casting
flange with bolt holes

Hard Steel Wire

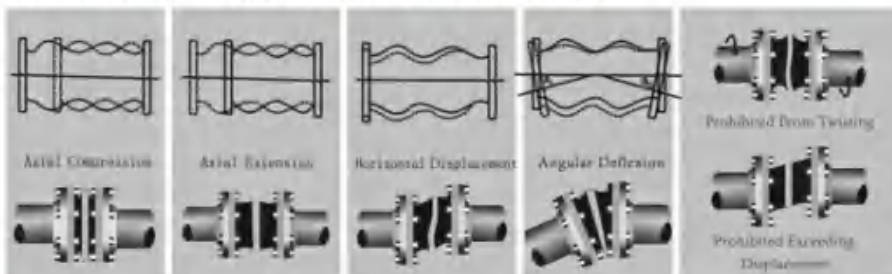
Inner rubber

Surface rubber

Inner The Core
Reinforcement

Scope of application: Due to the excellent overall performance of flexible rubber joints, they are widely used in various industries such as chemical, construction, water supply, drainage, petroleum, light and heavy industrial, refrigeration, sanitation, plumbing, fire protection, and power infrastructure projects.

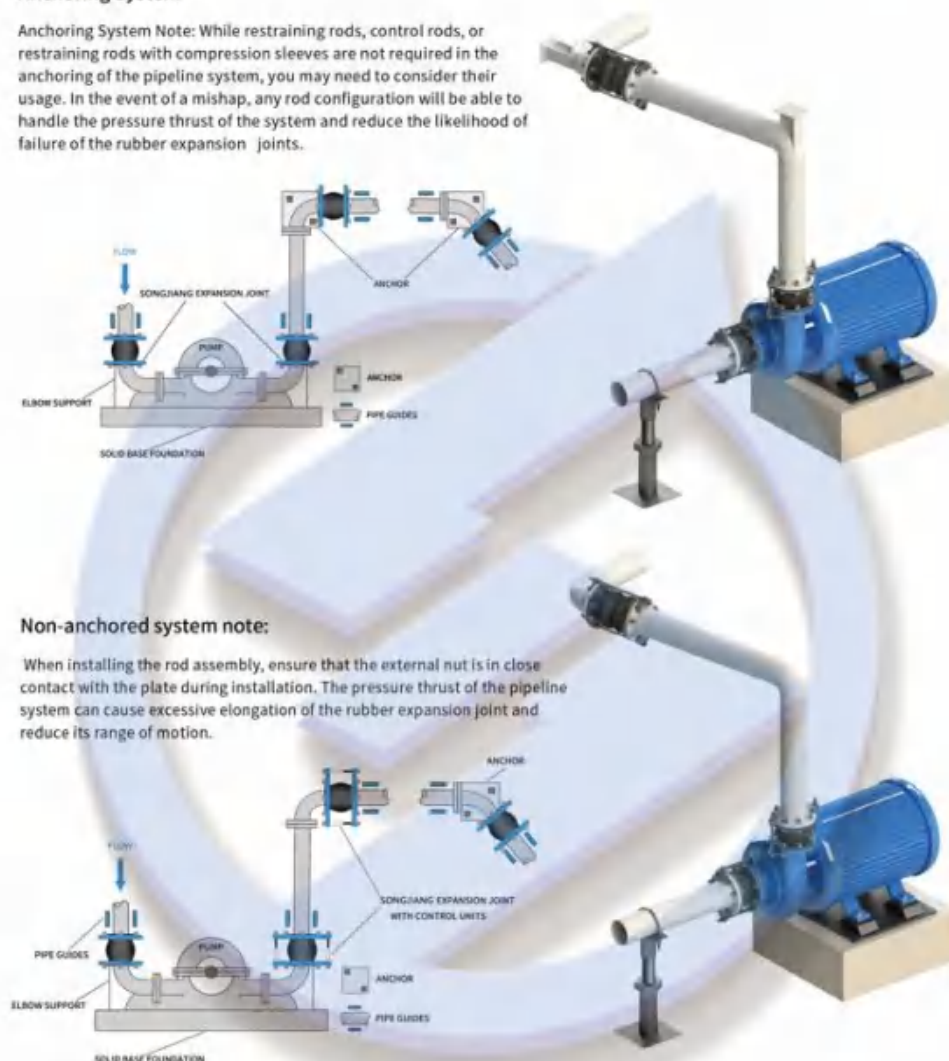
Schematic Diagram Of The Displacement Of The Flexible Rubber expansion Joint



► Rubber Expansion Joint Piping Installation Diagram ◀

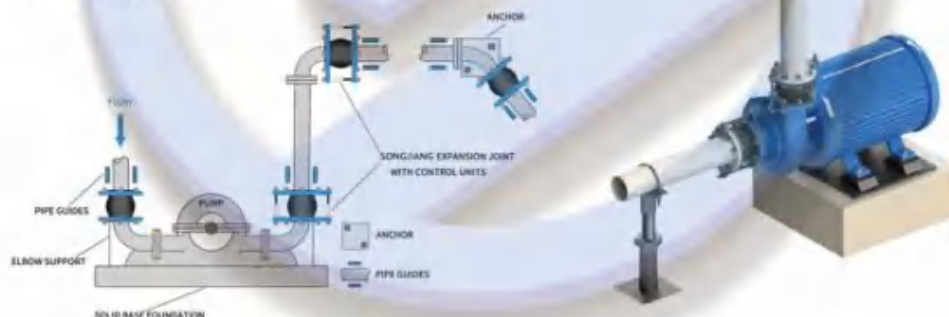
Anchoring System

Anchoring System Note: While restraining rods, control rods, or restraining rods with compression sleeves are not required in the anchoring of the pipeline system, you may need to consider their usage. In the event of a mishap, any rod configuration will be able to handle the pressure thrust of the system and reduce the likelihood of failure of the rubber expansion joints.



Non-anchored system note:

When installing the rod assembly, ensure that the external nut is in close contact with the plate during installation. The pressure thrust of the pipeline system can cause excessive elongation of the rubber expansion joint and reduce its range of motion.





► Rubber Expansion Joint Installation Instructions ◀

Installation Notes for Rubber Expansion Joints:

When installing rubber expansion joints on water pipelines, the design standard shown in the diagram below should be followed to prevent excessive elongation of the upper rubber expansion joint.

It is recommended to install the rubber expansion joint immediately after the fixed support is installed on the water pipeline. After installation, the water pipeline behind the rubber expansion joint must be equipped with pipe guide supports to support the pipeline.

Note: The translation assumes that the instructions refer to a specific design standard mentioned in a diagram. If the diagram is available, it would be helpful to include it for accurate translation.



To gradually tighten the nuts/bolts, follow the steps in the following sequence



1. It is strictly prohibited to install the rubber expansion joint beyond its displacement limit during installation.

2. The pipeline must have fixed supports or brackets, and the force applied by the fixed brackets must be greater than the axial force.

3. The pipeline should be fixed on hangers, brackets, or anchors, and the joints should not bear the weight and axial force of the pipeline itself.



► Rubber Joint Should Be Equipped With Dedicated Butterfly Valve Flange ◀

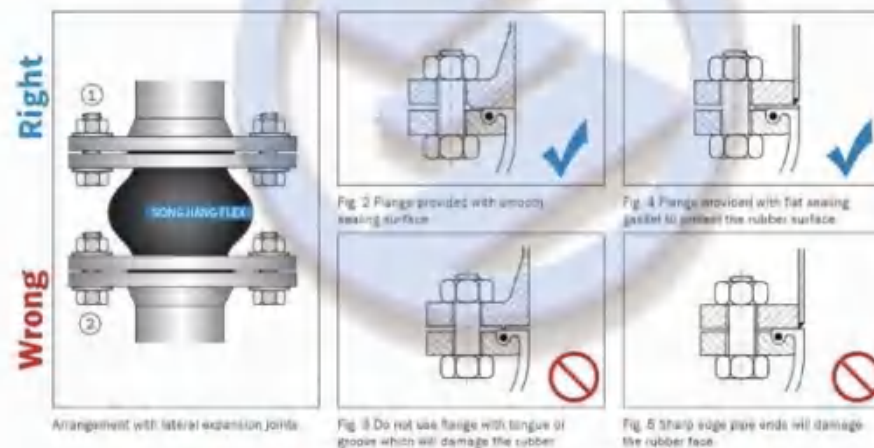
Installation Instructions:

1. Choosing the appropriate flange is crucial for achieving a reliable, durable, and secure connection method.

2. When selecting a pipe flat welding flange, please follow the standards below (specifically designed for clamp-type butterfly valve flanges):

a) The inner diameter of the flange at the pipe connection must match the inner diameter of the rubber expansion joint.

b) The flange contact surface at the pipe connection should be smooth and flat, ensuring maximum sealing space. (As shown in the diagram below). If the rubber expansion joint does not have a tight seal with the pipe connection, it may result in noise, insufficient pressure resistance, water leakage, and other issues.



Note: Please strictly follow the installation requirements when using the rubber expansion joint product. We will not be held responsible for any consequences resulting from improper usage.



► Physical Performance Testing and Standards for Rubber Joint Material ◀

Model	Project	Index	
		Inner layer	Outer layer
1	Tensile strength (MPa)	≥ 12	≥ 13
2	Elongation at break (%)	≥ 450	≥ 500
3	Permanent set (%)	≤ 25	≤ 30
4	Brittleness temperature (°C)	≤ -30	≤ -30
5	Adhesive strength (kN/m)	≥ 2.0	≥ 2.0
6	Hot air aging (100°Cx18h)	≥ -25	≥ -25
7	Acid resistance (10% H ₂ SO ₄ x 168h Room temperature)	≥ -30	≥ -30
		≥ -30	≥ -30
8	Alkali resistance (10% NaOH x 168h Room temperature)	≥ -30	≥ -30
9	Hardness (Shore hardness A)	60 $\pm$ 5	60 $\pm$ 5

Note: For products with a nominal diameter greater than 100mm, the adhesive strength test for the rubber expansion joint is conducted at a test pressure of 1.5 times the working pressure, and the burst pressure is 3 times the working pressure.

Tensile strength, elongation at break, permanent set: GB/T 528

Brittleness temperature: GB/T 1682

Adhesive strength: GB/T 532

Hot air aging: GB/T 3512

Acid resistance, alkali resistance: GB/T 1690; Test liquids: 10% H₂SO₄, 10% NaOH

Hardness: GB/T 531.1

Drinking water standards: "Hygienic Safety Evaluation Specification for Drinking Water Transmission and Distribution Equipment and Protective Materials" (2001), GB 5749-2006 "Hygienic Standard for Drinking Water".

Edible grade testing standard: GB/T 4806.1-1994 "Hygienic Standard for Rubber Products Used in Food Industry"



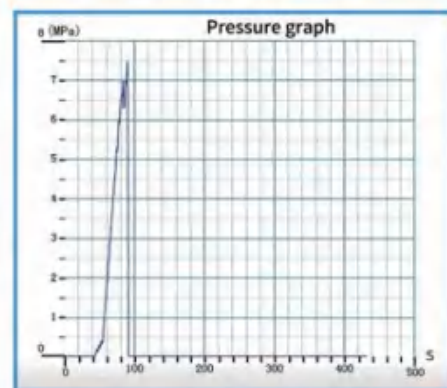
► Rubber Expansion Joint Burst Testing ◀



Single sphere rubber expansion joint burst testing

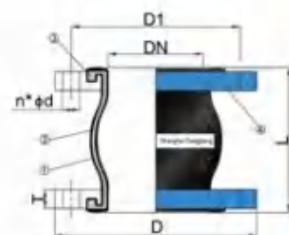


Double sphere rubber expansion joint burst testing





▶ KXT Type Rubber Expansion Joint ◀



NO	Name	Material
1	Inner/outer rubber	NR, NBR, EPDM, FKM Neoprene, PTFE Lining
2	Reinforcing cord	Nylon Tire Cord
3	Reinforcing ring	Hard Steel Wire
4	Flange	Q235, SS304, SS316, PVC, DN40 ~ DN200 (QT450)

Parameter Of KXT Type Flexible Rubber Expansion Joints

Nominal diameter	Length	Axial Elongation	Axial compression	Lateral	Angular	Control tie rods
MM	Inch	L(mm)	MM	MM	°	Pcs
25	1	95	6	9	15°	/
32	1-1/4	95	6	9	15°	/
40	1-1/2	95	6	10	15°	/
50	2	105	7	10	15°	/
65	2-1/2	115	7	13	15°	/
80	3	135	8	15	15°	/
100	4	150	10	19	15°	/
125	5	165	12	19	15°	/
150	6	180	12	20	15°	/
200	8	210	16	25	10°	/
250	10	230	16	25	10°	/
300	12	245	16	25	10°	/
350	14	255	16	25	10°	4
400	16	255	16	25	10°	4
450	18	255	16	25	5°	4
500	20	255	16	25	5°	5
600	24	260	16	25	5°	5
700	28	260	16	25	5°	5
800	32	260	16	25	5°	5
900	36	260	16	25	5°	6
1000	40	260	16	25	5°	6
1200	48	260	16	25	5°	6

Flange parameters: GB/T 9119-2010, Check: P100

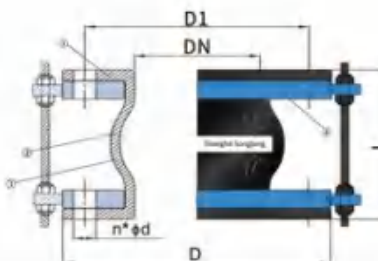


Applicable media: Air, compressed air, drinking water, wastewater, seawater, hot water, oil, acids, alkalis, etc.
 Natural rubber(NR): withstands high pressure at 80 degrees.
 Ethylene Propylene Diene Monomer rubber(EPDM): ≤120 degrees, high temperature resistance, acid-alkali resistance, corrosion resistance, seawater resistance.
 Nitrile rubber(NBR): ≤80 degrees, excellent oil resistance.
 Fluoro rubber(FKM): ≤120 degrees, high temperature resistance, oil resistance, strong acid resistance.

Note: Different rubber materials have different functions.



▶ KDT Type Full-faced Rubber Flange Bellow ◀



NO	Name	Material
1	Inner/outer rubber	NR, NBR, EPDM
2	Reinforcing cord	Nylon Tire Cord
3	Reinforcing ring	Hard Steel Wire
4	Flange	Q235, SS304, SS316

Full-faced Rubber Flange Bellow With Control Rods



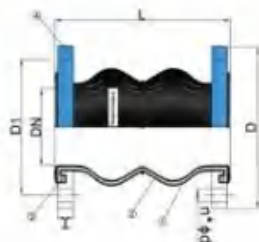
Parameter of KDT Type Full-faced Rubber Flange Bellow

Nominal diameter		Length	Axial Elongation	Axial compression	Lateral	Angular	Control tie rods
MM	Inch	L(mm)	MM	MM	MM	°	Pcs
350	14	255	16	25	22	10°	4
400	16	255	16	25	22	10°	4
450	18	255	16	25	22	5°	4
500	20	255	16	25	22	5°	5
600	24	260	16	25	22	5°	5
700	28	260	16	25	22	5°	5
800	32	260	16	25	22	5°	5
900	36	260	16	25	22	5°	6
1000	40	260	16	25	22	5°	6
1200	48	260	16	25	22	5°	6
1400	56	350	16	25	22	5°	6
1600	64	350	16	25	22	5°	6
1800	72	350	25	35	25	2°	7
2000	80	420	25	35	25	2°	7
2200	88	420	25	35	25	2°	8
2400	96	450	25	35	25	2°	8
2600	104	500	25	35	25	2°	8
2800	112	550	25	35	25	2°	8
3000	120	550	25	35	25	2°	10
3200	128	550	25	35	25	2°	10

Flange Parameters: GB/T 9119-2010, For details: P100



▶ KST-F Type Double Sphere Rubber Expansion Joints ◀



NO	Name	Material
1	Inner/outer rubber	NR,NBR,EPDM,FKM, Neoprene,PTFE Lining
2	Reinforcing cord	Nylon Tire Cord
3	Reinforcing ring	Hard Steel Wire
4	Flange	Q235,SS304,SS316, PVC,DN40~DN200(QT450)

Product Introduction:

The double sphere rubber expansion joint is slightly longer in installation length compared to the single sphere rubber expansion joint. Customers have the option to choose different rubber materials for production. It is suitable for some water pump equipment with high vibration frequency and noise levels, and the increased product length effectively ensures good sound insulation! The double sphere rubber expansion joint produced by Shanghai Songjiang was adopted by the Guangzhou Asian Games Village Solar Hot Water Source System in 2010, and has been used in the Delong Steel Ironmaking Workshop for many years.

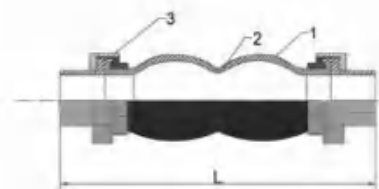
Parameter Of KST-F Type Double Sphere Rubber Expansion Joints

Nominal diameter	Length	Axial extension	Axial compression	Lateral	Angular	Control tie rods
MM	Inch	Limn)	MM	MM	°	Pos
40	1-1/2	155	25	40	35°	/
50	2	160	30	50	40°	/
65	2-1/2	170	30	50	40°	/
80	3	170	30	50	40°	/
100	4	220	35	50	40°	/
125	5	220	35	50	40°	/
150	6	220	35	50	40°	/
200	8	320	35	60	30°	3
250	10	320	35	60	30°	3
300	12	320	35	60	30°	3
350	14	320	35	60	30°	4
400	16	320	35	60	30°	4
500	20	330	35	60	30°	5
600	24	330	35	60	30°	5

Flange Parameters: GB/T 9119-2010, For details: P100



▶ KST-L Type Double Sphere Threaded Rubber Expansion Joints ◀



NO	Name	Material
1	Inner/outer rubber	NR,NBR,EPDM
2	Reinforcing cord	Nylon Tire Cord
3	Thread	Hard Steel Wire

Parameter Of KST-L Type Double

Sphere Threaded Rubber Expansion Joints

Nominal diameter	Length	Axial elongation	Axial compression	Lateral	Angular
MM	Inch	L(mm)	MM	MM	°
32	1-1/4	200	6	22	40°
40	1-1/2	200	6	22	35°
50	2	200	6	22	25°
65	2-1/2	240	6	22	25°
80	3	250	6	22	25°

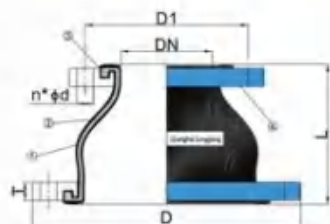
Product Introduction:

The double sphere threaded rubber joint features internal threaded couplings at both ends for connection. It is suitable for use in central air conditioning fan coils, and its increased length ensures excellent sound insulation effect. The double sphere rubber joint products produced by Shanghai Songjiang Group were adopted by the Guangzhou Asian Games Town Solar Hot Water Source System in 2010 and have been used for many years by Samsung Electronics Kunshan Factory.





► KYT Type Concentric Reducer Rubber Expansion Joints ◀



NO	Name	Material
1	Inner/outer rubber	NR, NBR, EPDM
2	Reinforcing cord	Nylon Tire Cord
3	Reinforcing ring	Hard Steel Wire
4	Flange	Q235, SS304, SS316, PVC, DN40 - DN200 (QT450)

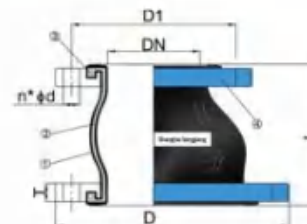
The concentric reducer rubber joint is primarily used at connection points where a change in pipe diameter is required.

Parameter Of KYT Type Concentric Reducer Rubber Expansion Joints

Nominal diameter	Length	Axial Elongation	Axial compression	Lateral	Angular	Control
MM	mm	MM	MM	MM	°	Pcs
50*40	180	7	10	10	10°	/
65*40	180	7	10	10	10°	/
65*50	180	7	10	10	10°	/
80*50	180	7	10	10	10°	/
80*65	180	7	13	11	10°	/
100*50	180	7	13	11	10°	/
100*65	180	7	13	11	10°	/
100*80	180	8	15	12	10°	/
125*65	180	8	15	12	10°	/
125*80	180	8	15	12	10°	/
125*100	200	10	19	13	10°	/
150*65	200	10	19	13	10°	/
150*80	180	10	19	13	10°	/
150*100	200	10	19	13	10°	/
150*125	200	12	19	13	10°	/
200*100	200	12	19	13	10°	2
200*125	220	12	19	13	10°	2
200*150	200	12	20	14	10°	/
250*125	220	12	20	14	10°	3
250*150	220	12	20	14	10°	3
250*200	220	16	25	22	10°	3
300*150	220	16	25	22	10°	3
300*200	220	16	25	22	10°	3
300*250	220	16	25	22	10°	3
350*200	230	16	25	22	10°	4
350*250	230	16	25	22	10°	4
350*300	230	16	25	22	10°	4



► KPT Type Eccentric Reducer Rubber Expansion Joints ◀



NO	Name	Material
1	Inner/outer rubber	NR, NBR, EPDM
2	Reinforcing cord	Nylon Tire Cord
3	Reinforcing ring	Hard Steel Wire
4	Flange	Q235, SS304, SS316, PVC

Parameter Of KPT Type Eccentric Reducer Rubber Expansion Joints

Nominal diameter	Length	Axial Elongation	Axial compression	Lateral	Angular
MM	L(mm)	MM	MM	MM	°
50*32	110	7	9	8	10°
50*40	110	7	9	8	10°
65*50	130	8	10	9	10°
80*50	125	8	11	10	10°
80*65	140	9	12	11	10°
100*65	140	9	12	11	10°
100*80	140	9	12	11	10°
125*100	175	12	17	14	10°
150*100	180	12	17	14	10°
200*125	220	15	20	17	10°
200*150	220	15	23	17	10°

Flange Parameters: GB/T 9119-2010, For details: P100

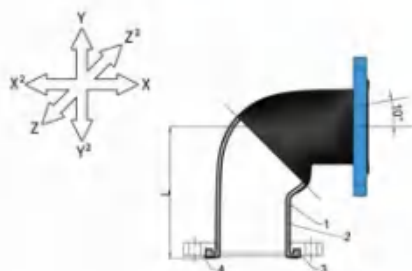
Eccentric reducer rubber expansion joints are primarily used at connection points where a change in pipe diameter is required.

Note: This product is generally not available in stock and needs to be custom ordered.





► KWT Type Elbow Rubber Expansion Joints ◀



NO	Name	Material
1	Inner/outer rubber	NR, NBR, EPDM
2	Reinforcing cord	Nylon Tire Cord
3	Reinforcing ring	Hard Steel Wire
4	Flange	Q235, SS304, SS316, PVC

Advantages & Disadvantages Of Elbow Rubber Expansion Joints:

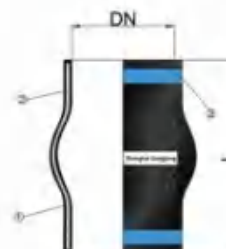
90-degree rubber elbows are widely used in piping and equipment systems to mitigate the effects of vibration, noise, and stress fluctuations, providing protection and extending the lifespan of the piping and equipment. However, they are not suitable for outdoor use or applications with stringent fire safety requirements due to the risk of cracking and other issues. It is important to select the appropriate rubber material to match different media to ensure proper functioning of the rubber elbows.

Parameter Of KWT Type Elbow Rubber Expansion Joints

Nominal diameter	Length	Allowable Movement(mm)					
		X	X'	Y	Y'	Z	Z'
MM	L(mm)						
50	140	16	20	20	16	16	16
65	140	16	20	20	16	16	16
80	150	16	20	20	16	16	16
100	160	16	20	20	16	16	16
125	180	16	20	20	16	16	16
150	200	16	20	20	16	16	16
200	230	16	20	20	16	16	16



► KKT Type Clamp Rubber Expansion Joints ◀



NO	Name	Material
1	Inner/outer rubber	NR, NBR, EPDM, FKM, SIR
2	Reinforcing cord	Nylon Tire Cord
3	Clamp ring	Q235 SS304

Parameter Of KKT Type Clamp Rubber Expansion Joints

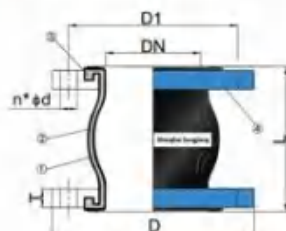
Nominal diameter	Length	Axial Expansion		Axial compression		Lateral	
		mm	mm	mm	mm	mm	mm
DN50	2	168	50	30	40	40	40
DN65	2-12	168	50	30	40	40	40
DN80	3	177	50	30	40	40	40
DN100	4	200	50	30	40	35	35
DN125	5	220	50	30	40	35	35
DN150	6	230	50	35	40	30	30
DN200	8	300	60	35	35	30	30
DN250	10	300	60	35	35	30	30
DN300	12	300	60	35	35	30	30
DN350	14	300	60	35	35	30	30
DN400	16	300	60	35	35	30	30
DN500	20	300	60	35	35	30	30
DN600	24	300	60	35	35	30	30
DN700	28	300	60	35	35	30	30
DN800	32	300	60	35	35	30	30
DN900	36	300	60	35	35	30	30
DN1000	40	300	60	35	35	30	30
DN1200	48	400	60	35	35	30	30
DN1400	56	400	60	35	35	30	30



Clamp rubber expansion joints are commonly used in low-pressure pipeline systems such as return oil pipes, drainage pipes, and powder conveying. The pressure should not exceed 1kg. The diameter, length, thickness, and material (high temperature, hydraulic, food-grade) can be customized, with a typical lead time of 15 days. Examples of applications include return oil pipes in wind power generation and food powder conveying.



▶ ANSI/ASME B16.5 Class 150# Rubber Expansion Joints ◀



NO	Name	Material
1	Inner/outer rubber	NR,NBR,EPDM,FKM
2	Reinforcing cord	Nylon Tire Cord
3	Reinforcing ring	Hard Steel Wire
4	Flange	Q235, SS304, SS316

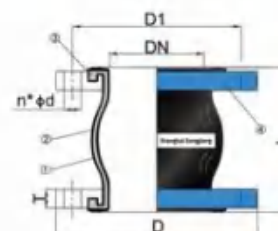
Parameter Of ANSI/ASME B16.5 Class 150# Rubber Expansion Joints

Nominal diameter	Length	Flange OD	No.Bolts	Bolt Hole Diameter	Flange PGD	Axial Elongation	Axial compression	Latex	Angular	Control to side	
MM	inch	Length	Size	inch	OD (mm)	mm	MM	MM	°	Fig	
25	1	130/150	110	4	16	79.4	12	20	14	15°	/
32	1-1/4	130/150	120	4	16	88.9	12	20	14	15°	/
40	1-1/2	130/150	130	4	16	98.4	12	20	14	15°	/
50	2	130/150	150	4	18	120.7	12	20	14	15°	/
65	2-1/2	130/150	180	4	18	139.7	12	20	14	15°	/
80	3	130/150	190	4	18	152.4	12	20	14	15°	/
100	4	130/150	230	8	18	190.5	12	20	14	15°	/
125	5	130/150	255	8	22	215.9	12	20	14	15°	/
150	6	130/150	280	8	22	241.3	12	20	14	15°	/
200	8	130/150/200	345	8	22	298.5	12	20	14	15°	3
250	10	130/150/200	405	12	26	362	12	20	14	15°	3
300	12	130/200	485	12	26	431.8	16	25	22	15°	3
350	14	200	535	12	30	476.3	16	25	22	15°	4
400	16	200	600	16	30	539.8	16	25	22	15°	4
450	18	200	635	16	33	577.9	16	25	22	15°	4
500	20	200	700	20	33	635	16	25	22	15°	5

Flange Parameters: ANSI/ASME B16.5 Class 150# Standard.



▶ EN 1092-1 Standard Rubber Expansion Joints ◀



NO	Name	Material
1	Inner/outer rubber	NR,NBR,EPDM,FKM
2	Reinforcing cord	Nylon Tire Cord
3	Reinforcing ring	Hard Steel Wire
4	Flange	Q235, SS304, SS316

Parameter Of EN 1092-1 European Standard Rubber Expansion Joints

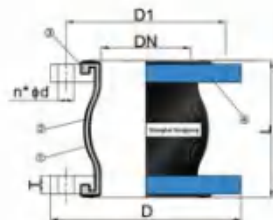
Nominal diameter	Length	Flange OD	No.Bolts	Bolt Hole Diameter	Flange PGD	Axial Elongation	Axial compression	Latex	Angular	Control to side	
MM	inch	Length	Size	inch	OD (mm)	mm	MM	MM	°	Fig.	
25	1	95	115	4	14	85	6	9	9	15°	/
32	1-1/4	95	140	4	18	100	6	9	9	15°	/
40	1-1/2	95	150	4	18	110	6	10	9	15°	/
50	2	105	165	4	18	125	7	10	10	15°	/
65	2-1/2	115	185	4	18	145	7	13	11	15°	/
80	3	135	200	8	18	160	8	15	12	15°	/
100	4	150	220	8	18	180	10	19	13	15°	/
125	5	165	250	8	18	210	12	19	13	15°	/
150	6	180	285	8	22	240	12	20	14	15°	/
200	8	210	340	8	22	295	16	25	22	10°	/
250	10	230	395	12	22	350	16	25	22	10°	/
300	12	245	445	12	22	400	16	25	22	10°	/
350	14	255	505	16	22	460	16	25	22	10°	4
400	16	255	565	16	26	515	16	25	22	10°	4
450	18	255	615	20	26	565	16	25	22	5°	4
500	20	255	670	20	26	620	16	25	22	5°	5
600	24	260	780	20	30	725	16	25	22	5°	5

Flange Parameters: EN 1092-1 Standard PN10





► DIN 2501 Standard Rubber Expansion Joints ◀



NO	Name	Material
1	Inner/outer rubber	NR,NBR,EPDM,FKM
2	Reinforcing cord	Nylon Tire Cord
3	Reinforcing ring	Hard Steel Wire
4	Flange	Q235, SS304, SS316

Parameter Of DIN 2501 German Standard Rubber Expansion Joints

Nominal diameter		Length	Flange OD	No.Bolts	Bolt Hole Diameter	Flange PCD	Axial Compression	Axial Compression	Lateral	Angular	Control the rods
MM	inch	Umm	Dmm	φmm	φmm	D1mm	MM	MM	MM	°	Pos
25	1	95	115	4	14	85	6	9	9	15°	/
32	1-1/4	95	140	4	18	100	6	9	9	15°	/
40	1-1/2	95	150	4	18	110	6	10	9	15°	/
50	2	105	165	4	18	125	7	10	10	15°	/
65	2-1/2	115	185	4	18	145	7	13	11	15°	/
80	3	135	200	8	18	160	8	15	12	15°	/
100	4	150	220	8	18	180	10	19	13	15°	/
125	5	165	250	8	18	210	12	19	13	15°	/
150	6	180	265	8	22	240	12	20	14	15°	/
200	8	210	340	8	22	295	16	25	22	10°	/
250	10	230	395	12	22	350	16	25	22	10°	/
300	12	245	445	12	22	400	16	25	22	10°	/
350	14	255	505	16	22	460	16	25	22	10°	4
400	16	255	565	16	26	515	16	25	22	10°	4
450	18	255	615	20	26	565	16	25	22	5°	4
500	20	255	670	20	26	620	16	25	22	5°	5
600	24	260	780	20	30	725	16	25			

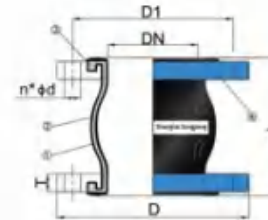
Parameter Of DIN 2501 Standard PN10 Rubber Expansion Joints



NR <80°C, Apply to water, air,
EPDM ≤ 120°C
Apply to Acid-base, corrosion, seawater.
NBR <80°C, Apply to hydraulic oil, lubricating oil.
CR <90°C, Apply to oil and weather resistant.
FKM ≤ 120°C, Apply to oil, strong acid corrosion.



► UNI 2277-67 Standard Rubber Expansion Joints ◀



NO	Name	Material
1	Inner/outer rubber	NR,NBR,EPDM,FKM
2	Reinforcing cord	Nylon Tire Cord
3	Reinforcing ring	Hard Steel Wire
4	Flange	Q235, SS304, SS316

Parameter Of UNI 2277-67 Italian Standard Rubber Expansion Joints

Nominal diameter		Length	Flange OD	No.Bolts	Bolt Hole Diameter	Flange PCD	Axial elongation	Axial compression	Lateral	Angular	Control in rods
MM	inch	Umm	Dmm	holes	dmm	Dmm	MM	MM	MM	°	Pos
25	1	95	115	4	14	85	6	9	9	15°	/
32	1-1/4	95	140	4	18	100	6	9	9	15°	/
40	1-1/2	95	150	4	18	110	6	10	9	15°	/
50	2	105	165	4	18	125	7	10	10	15°	/
65	2-1/2	115	185	4	18	145	7	13	11	15°	/
80	3	135	200	8	18	160	8	15	12	15°	/
100	4	150	220	8	18	180	10	19	13	15°	/
125	5	165	250	8	18	210	12	19	13	15°	/
150	6	180	265	8	22	240	12	20	14	15°	/
200	8	210	340	8	22	295	16	25	22	10°	/
250	10	230	395	12	22	350	16	25	22	10°	/
300	12	245	445	12	22	400	16	25	22	10°	/
350	14	255	505	16	22	460	16	25	22	10°	4
400	16	255	565	16	26	515	16	25	22	10°	4
450	18	255	615	20	26	565	16	25	22	5°	4
500	20	255	670	20	26	620	16	25	22	5°	5
600	24	260	780	20	30	725	16	25	22	5°	5

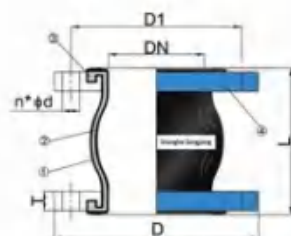
Flange Parameters: UNI 2277-67 Standard PN10



NR <80°C, Apply to water, air,
EPDM ≤ 120°C
Apply to Acid-base, corrosion, seawater.
NBR <80°C, Apply to hydraulic oil, lubricating oil.
CR <90°C, Apply to oil and weather resistant.
FKM ≤ 120°C, Apply to oil, strong acid corrosion.



► BS 4504 Standard Rubber Expansion Joint ◀



NO	Name	Material
1	Inner/outer rubber	NR,NBR,EPDM,FKM
2	Reinforcing cord	Nylon Tire Cord
3	Reinforcing ring	Hard Steel Wire
4	Flange	Q235, SS304, SS316

Parameter Of AS 4504 British Standard Rubber Expansion Joints

Nominal diameter	Length	Flange OD	No Bolts	Bolt Hole Diameter	Flange PCD	axial elongation	axial compression	lateral	angular	Control to rub.
MM	inch	mm	inch	mm	mm	MM	MM	MM	°	Pos
25	1	95	4	14	85	6	9	9	15°	/
32	1-1/4	95	4	18	100	6	9	9	15°	/
40	1-1/2	95	4	18	110	6	10	9	15°	/
50	2	105	4	18	125	7	10	10	15°	/
65	2-1/2	115	4	18	145	7	13	11	15°	/
80	3	135	8	18	160	8	15	12	15°	/
100	4	150	8	18	180	10	19	13	15°	/
125	5	165	8	18	210	12	19	13	15°	/
150	6	180	8	22	240	12	20	14	15°	/
200	8	210	8	22	295	16	25	22	10°	/
250	10	230	12	22	350	16	25	22	10°	/
300	12	245	12	22	400	16	25	22	10°	/
350	14	255	16	22	460	16	25	22	10°	4
400	16	255	16	26	515	16	25	22	10°	4
450	18	255	20	26	565	16	25	22	5°	4
500	20	255	20	26	620	16	25	22	5°	5
600	24	260	20	30	725	16	25	22	5°	5

Flange parameters: BS 4504 PN10.



NR <80°C, Apply to water, air.

EPDM <120°C

Apply to Acid-base, corrosion, seawater.

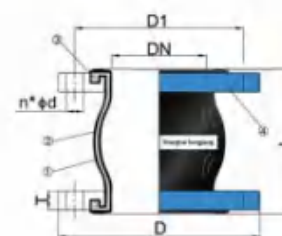
NBR <80°C, Apply to hydraulic oil, lubricating oil.

CR <90°C, Apply to oil and weather resistant.

FKM <120°C, Apply to oil, strong acid corrosion.



► Spanish Use EN1091 Standard Rubber Expansion Joint ◀



NO	Name	Material
1	Inner/outer rubber	NR,NBR,EPDM,FKM
2	Reinforcing cord	Nylon Tire Cord
3	Reinforcing ring	Hard Steel Wire
4	Flange	Q235, SS304, SS316

Parameter Of EN1091 Standard Rubber Expansion Joints

Nominal diameter	Length	Flange OD	No Bolts	Bolt Hole Diameter	Flange PCD	axial elongation	axial compression	lateral	angular	Control to rub.
MM	inch	mm	inch	mm	mm	MM	MM	MM	°	Pos
25	1	95	4	14	85	6	9	9	15°	/
32	1-1/4	95	4	18	100	6	9	9	15°	/
40	1-1/2	95	4	18	110	6	10	9	15°	/
50	2	105	4	18	125	7	10	10	15°	/
65	2-1/2	115	4	18	145	7	13	11	15°	/
80	3	135	8	18	160	8	15	12	15°	/
100	4	150	8	18	180	10	19	13	15°	/
125	5	165	8	18	210	12	19	13	15°	/
150	6	180	8	22	240	12	20	14	15°	/
200	8	210	8	22	295	16	25	22	10°	/
250	10	230	12	22	350	16	25	22	10°	/
300	12	245	12	22	400	16	25	22	10°	/
350	14	255	16	22	460	16	25	22	10°	4
400	16	255	16	26	515	16	25	22	10°	4
450	18	255	20	26	565	16	25	22	5°	4
500	20	255	20	26	620	16	25	22	5°	5
600	24	260	20	30	725	16	25	22	5°	5

Flange parameters: EN1091 PN10



NR <80°C, Apply to water, air.

EPDM <120°C

Apply to Acid-base, corrosion, seawater.

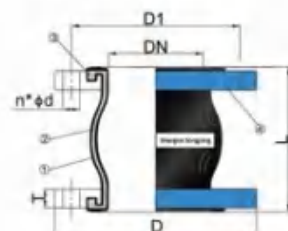
NBR <80°C, Apply to hydraulic oil, lubricating oil.

CR <90°C, Apply to oil and weather resistant.

FKM <120°C, Apply to oil, strong acid corrosion.



► GOST 12820-80 Rubber Expansion Joint ◀



NO	Name	Material
1	Inner/outer rubber	NR,NBR,EPDM,FKM
2	Reinforcing cord	Nylon Tire Cord
3	Reinforcing ring	Hard Steel Wire
4	Flange	Q235, SS304, SS316

Parameter Of GOST 12820-80 Russian Standard Rubber Expansion Joints

Nominal diameter		Length		Flange OD	No. Bolt	Bolt Hole Diameter	Flange PCD	Axis elongation	Axis compression	Latent	Angular	Control fit rate
mm	inch	mm	inch	mm	inch	mm	mm	mm	mm	mm	°	%
25	1	95		115	4	14	85	6	9	9	15°	/
32	1-1/4	95		140	4	18	100	6	9	9	15°	/
40	1-1/2	95		150	4	18	110	6	10	9	15°	/
50	2	105		165	4	18	125	7	10	10	15°	/
65	2-1/2	115		185	4	18	145	7	13	11	15°	/
80	3	135		200	8	18	160	8	15	12	15°	/
100	4	150		220	8	18	180	10	19	13	15°	/
125	5	165		250	8	18	210	12	19	13	15°	/
150	6	180		285	8	22	240	12	20	14	15°	/
200	8	210		340	8	22	295	16	25	22	10°	/
250	10	230		395	12	22	350	16	25	22	10°	/
300	12	245		445	12	22	400	16	25	22	10°	/
350	14	255		505	16	22	460	16	25	22	10°	4
400	16	255		565	16	26	515	16	25	22	10°	4
450	18	255		615	20	26	565	16	25	22	5°	4
500	20	255		670	20	26	620	16	25	22	5°	5
600	24	260		780	20	30	725	16	25	22	5°	5

Flange parameters: GOST 12820-80 PN10



NR <80°C, Apply to water, air.

EPDM <120°C

Apply to Acid-base, corrosion, seawater.

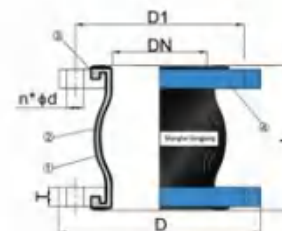
NBR <80°C, Apply to hydraulic oil, lubricating oil.

CR <90°C, Apply to oil and weather resistant.

FKM <120°C, Apply to oil, strong acid corrosion.



► JIS 5K/10K Rubber Expansion Joint ◀



NO	Name	Material
1	Inner/outer rubber	NR,NBR,EPDM,FKM
2	Reinforcing cord	Nylon Tire Cord
3	Reinforcing ring	Hard Steel Wire
4	Flange	Q235, SS304, SS316

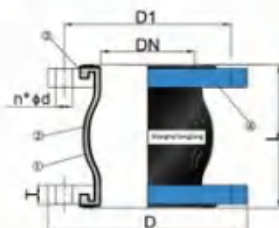
Parameter Of Japanese standard JIS 5K/10K Rubber Expansion Joint:

Nominal diameter		Length		Flange OD		No. Bolt		Bolt Hole Diameter	Flange PCD	Axis elongation	Axis compression	Latent	Angular	Control fit rate
mm	inch	mm	inch	mm	inch	mm	inch	mm	mm	mm	mm	mm	°	%
25A	1	95		95	125	4	4	12	19	75	90	6	9	15°
32A	1-1/4	95		115	135	4	4	15	19	90	100	6	9	15°
40A	1-1/2	95		120	140	4	4	15	19	95	105	6	10	15°
50A	2	105		130	155	4	4	15	19	105	120	7	10	15°
65A	2-1/2	115		155	175	4	4	15	19	130	140	7	13	15°
80A	3	135		180	185	4	8	19	19	145	150	8	15	15°
100A	4	150		200	210	8	8	19	19	165	175	10	19	15°
125A	5	165		235	250	8	8	19	23	200	210	12	19	15°
150A	6	180		265	280	8	8	19	23	230	240	12	20	15°
200A	8	210		320	330	8	12	23	23	280	290	16	25	10°
250A	10	230		385	400	12	12	23	25	345	355	16	25	10°
300A	12	245		430	445	12	16	23	25	390	400	16	25	10°
350A	14	255		480	490	12	16	25	25	435	445	16	25	10°
400A	16	255		540	560	16	16	25	27	495	510	16	25	10°
450A	18	255		605	620	16	20	25	27	555	565	16	25	5°
500A	20	255		655	675	20	20	25	27	605	620	16	25	5°
600A	24	260		770	795	20	20	25	33	715	730	16	25	5°

Flange parameters: JIS 5k/10k

The rubber sphere component of this product can be manufactured using different materials such as NR, NBR, EPDM, CR, FKM, etc. It can withstand high temperatures, acid and alkali environments, various weather conditions, and is compatible with hydraulic oil and other media. We have stock available for small quantities.

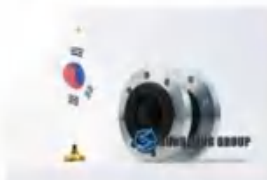


▶ Korean Standard KS 10Kgf/cm² Rubber Expansion Joint ◀

NO	Name	Material
1	Inner/outer rubber	NR,NBR,EPDM,FKM
2	Reinforcing cord	Nylon Tire Cord
3	Reinforcing ring	Hard Steel Wire
4	Flange	Q235, SS304, SS316

Parameter Of Korean Standard Rubber Expansion Joint

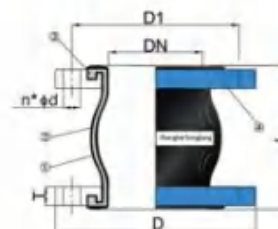
Nominal diameter	Length	Flange OD	No.Bolts	Bot Hole Diameter	Flange PCD	Axis Elongation	Axis compression	Lateral	Angular	Control for mass
MM	inch	mm	inch	mm	mm	MM	MM	MM	°	MM
25A	1	95	4	19	90	6	9	9	15°	/
32A	1-1/4	95	4	19	100	6	9	9	15°	/
40A	1-1/2	95	4	19	105	6	10	9	15°	/
50A	2	105	4	19	120	7	10	10	15°	/
65A	2-1/2	115	4	19	140	7	13	11	15°	/
80A	3	135	8	19	150	8	15	12	15°	/
100A	4	150	8	19	175	10	19	13	15°	/
125A	5	165	8	23	210	12	19	13	15°	/
150A	6	180	8	23	240	12	20	14	15°	/
200A	8	210	12	23	290	16	25	22	10°	/
250A	10	230	12	25	355	16	25	22	10°	/
300A	12	245	16	25	400	16	25	22	10°	/
350A	14	255	16	25	445	16	25	22	10°	4
400A	16	255	16	27	510	16	25	22	10°	4
450A	18	255	20	27	565	16	25	22	5°	4
500A	20	255	20	27	620	16	25	22	5°	5
600A	24	260	24	33	730	16	25	22	5°	5

Flange parameters: KS 10Kgf/cm².

NR <80°C, Apply to water, air.
 EPDM <120°C
 Apply to Acid-base, corrosion, seawater.
 NBR <80°C, Apply to hydraulic oil, lubricating oil.
 CR <90°C, Apply to oil and weather resistant.
 FKM <120°C, Apply to oil, strong acid corrosion.



▶ AS 4087-2004 PN14/AS2129 2000 Rubber Expansion Joint ◀



NO	Name	Material
1	Inner/outer rubber	NR,NBR,EPDM,FKM
2	Reinforcing cord	Nylon Tire Cord
3	Reinforcing ring	Hard Steel Wire
4	Flange	Q235, SS304, SS316

Parameter Of Australian Flange Standard Rubber Expansion Joint

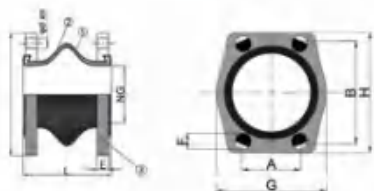
Nominal diameter	Length	Flange OD	No.Bolts	Bot Hole Diameter	Flange PCD	Axis Elongation	Axis compression	Lateral	Angular	Control for mass
MM	inch	mm	inch	mm	mm	MM	MM	MM	°	MM
25	1	95	4	14	85	6	9	9	15°	/
32	1-1/4	95	4	18	100	6	9	9	15°	/
40	1-1/2	95	4	18	110	6	10	9	15°	/
50	2	105	4	18	125	7	10	10	15°	/
65	2-1/2	115	4	18	145	7	13	11	15°	/
80	3	135	8	18	160	8	15	12	15°	/
100	4	150	8	18	180	10	19	13	15°	/
125	5	165	8	18	210	12	19	13	15°	/
150	6	180	8	22	240	12	20	14	15°	/
200	8	210	8	22	295	16	25	22	10°	/
250	10	230	12	22	350	16	25	22	10°	/
300	12	245	12	22	400	16	25	22	10°	/
350	14	255	16	22	460	16	25	22	10°	4
400	16	255	16	26	515	16	25	22	10°	4
450	18	255	20	26	565	16	25	22	5°	4
500	20	255	20	26	620	16	25	22	5°	5
600	24	260	20	30	725	16	25	22	5°	5

Flange parameters: AS 4087-2004 PN14/AS2129 2000





▶ SJNG Type Rubber Compensator With SAE Flanges ◀



NO	Name	Material
1	Inner/outer rubber	NBR
2	Reinforcing cord	Nylon cord
3	Clamp ring	NG125 Carbon Steel, Al alloy 6061

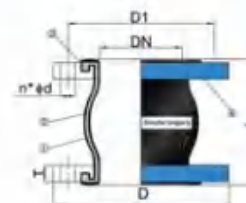
Rubber compensators are elastic connectors with turnable SAE flanges which are used for damping oscillations, vibrations, noises and movements in axial and transversal direction. Use - For all mineral oil products, crude oil, lubrication oil, cooling oil (-20°C up to 80°C, intermittent 100°C), grease, cold water, warm water up to 60°C, water/oil emulsions, fuel with 30% aromatic content. For operation in suction and return lines.



Model	Design No.	Number of Reinforcing Cord	Rubber inner C, Outer SAE Diameter			Flange (D)	Flange Thickness	Flange Sub. Distance		Flange Width	Flange Length	Weight
			Sub	Inner	Outer			Inner	Outer			
K100-25	SKH30025	1	25	26.2	32.4	43	11	11	39	70	66	0.4
K100-32	SKH30032	1-1/4	32	30.2	38.7	50	11	13	73	81	66	0.5
K100-40	SKH30040	1-1/2	40	35.7	45.7	62	13	13	80	95	100	0.6
K100-50	SKH30050	2	50	42.9	57.8	72	13	13	87	103	100	1
K100-63	SKH30063	2-1/2	63	50.8	68	87	14	13	108	115	100	1.2
K100-80	SKH30080	3	80	57	78.4	104	14	17	131	136	100	1.8
K100-90	SKH30090	3-1/2	90	70	92.6	104	14	17	140	152	100	1.9
K100-100	SKH30100	4	100	77.8	103.2	130	16	17	152	162	100	2.5
K100-125	SKH30125	5	125	92	122.4	155	16	17	165	184	130	3



▶ DW Type Drinking Water Quality Standards Rubber Expansion Joint ◀



No	Items	Material
1	Inner / outer Rubber	EPDM (Food-grade)
2	Reinforcing cord	Nylon Tire Cord
3	Reinforcing ring	Hard Steel Wire
4	Flange	Q235, SS316, SS316L DN40-DN200 (QT450)

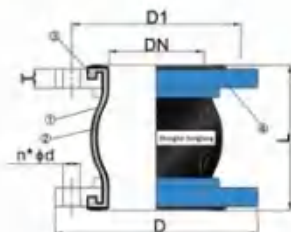
The DW-type drinking water rubber expansion joint is suitable for vibration reduction and noise reduction in high-rise domestic water non-negative pressure variable frequency water supply equipment, meeting the requirements of the national standards "Hygiene Safety Evaluation Specification for Drinking Water Transmission and Distribution Equipment and Protective Materials" and GB5749-2006 "Hygienic Standard for Drinking Water". It has successfully passed 15 inspection items. Our factory provides drinking water rubber joint products for multiple high-end water supply equipment brands at home and abroad. Starting from raw material procurement, we strictly adhere to safety standards, ensuring traceability in the production process. Our commitment to safety and quality has earned the trust of our customers.

Nominal Diameter	Length	Flange (D)	No. Bolts	Bolt Hole Diameter	Flange PCD	Axial Displacement		Axial Compression		Lateral	Angular	Connect to Valve
						mm	mm	mm	mm			
25	1	95	115	4	14	85	6	9	8	15°	/	/
32	1-1/4	95	140	4	18	100	6	9	8	15°	/	/
40	1-1/2	95	150	4	18	110	6	10	9	15°	/	/
50	2	105	165	4	18	125	7	10	10	15°	/	/
65	2-1/2	115	185	4	18	145	7	13	11	15°	/	/
80	3	135	200	8	18	160	8	15	12	15°	/	/
100	4	150	220	8	18	180	10	19	13	15°	/	/
125	5	165	250	8	18	210	12	19	13	15°	/	/
150	6	180	265	8	22	240	12	20	14	15°	/	/
200	8	210	340	8	22	295	16	25	22	10°	/	/
250	10	230	395	12	22	350	16	25	22	10°	/	/
300	12	245	445	12	22	400	16	25	22	10°	/	/
350	14	255	505	16	22	460	16	25	22	10°	/	4
400	16	255	565	16	26	515	16	25	22	10°	/	4
450	18	255	615	20	26	565	16	25	22	5°	/	4
500	20	255	670	20	26	620	16	25	22	5°	/	5
600	24	260	790	20	30	725	16	25	22	5°	/	5





► CC Type Rubber Expansion Joint for Continuous Casting Equipment ◀



NO	Name	Material
1	Inner/outer rubber	NR
2	Reinforcing cord	Nylon Tire Cord
3	Reinforcing ring	Hard Steel Wire
4	Flange	Q235,SS304

Model/Size	Length	Flange OD	Flange Thickness	No. Bolts	Sub-hole Diameter	Flange TCD	Rubber Thickness	Rubber OD (nominal)	Flange	Angle
MM	IN	MM	MM	PCS	MM	MM	MM	MM	MM	°
40	1-1/2	95/130/150	145	4	18	110	8	10	9	10°
50	2	105/130/150	160	4	18	125	7	10	10	10°
65	2-1/2	115/130/150	180	4	18	145	7	13	11	15°
80	3	135/130/150	195	8	18	160	8	15	12	15°
100	4	160/130/150	215	8	18	180	10	19	13	15°
125	5	165/130/150	245	8	18	210	12	19	13	15°
150	6	180/130/150	280	8	23	240	12	20	14	15°
200	8	210/130/150	335	12	23	295	16	25	22	10°
250	10	230/130/150	405	12	26	355	16	26	22	10°
300	12	245/130/200	460	12	26	410	16	25	22	10°

The rubber flexible joint for continuous casting is mainly used in steel plants on the continuous casting and rolling equipment, specifically on the continuous casting machine located on the casting platform. It utilizes rubber flexible joints to meet the challenges of high-speed fluctuations, high pressure, high temperature, high amplitude, high frequency, and high abrasion resistance. Our factory has collaborated with several domestic steel plants to develop a specialized rubber flexible joint for continuous casting, replacing imported counterparts.

Specifications: Amplitude: >7mm

Frequency: 350 times (1/min)

Pressure: Working pressure 16MPa, test pressure 2.5MPa

Media: Ordinary water

Temperature: Media 50°C; ambient temperature 30-80°C water vapor

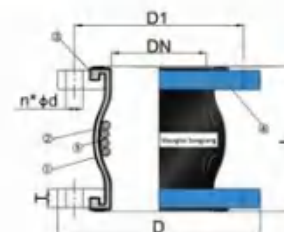
High abrasion resistance: Endures repeated wear and tear between rubber and the inner ring of the flange under high-frequency vibrations. The rubber formulation also ensures high abrasion resistance.

Note: The translation provided may not capture the technical nuances accurately.

It is recommended to consult with industry experts or professionals for precise technical translations.



► NP Type Vacuum Negative Pressure Rubber Expansion Joint ◀



NO	Name	Material
1	Inner/outer rubber	NR NBR EPDM
2	Reinforcing cord	Nylon Tire Cord
3	Reinforcing ring	Hard Steel Wire
4	Flange	Q235,SS304,SS316 DN40-DN200(QT450)
5	Anti Vacuum Negative Pressure Set	Q235,SS304,SS316

The NP type negative pressure rubber joint is mainly used on vacuum equipment, and the preferred negative pressure ring (in stock) is for DN40-DN200; DN25-DN600 can also choose negative pressure diversion or negative pressure Belt (customized for 10 days); In addition to the above three negative pressure products, our factory can also customize the rubber internal prefabricated negative pressure ring process, and a single model requires more than 10 to be customized.

Model/Size	Length	Flange OD	Flange Thickness	No. Bolts	Sub-hole Diameter	Flange TCD	Rubber Thickness	Rubber OD (nominal)	Flange	Angle	Control for rule
MM	IN	MM	MM	PCS	MM	MM	MM	MM	MM	°	mm
25	1	95	115	4	18	110	8	10	9	10°	1
32	1-1/4	95	135	4	18	125	7	10	10	10°	1
40	1-1/2	95	145	4	18	145	7	13	11	15°	1
50	2	105	160	4	18	160	8	15	12	15°	1
65	2-1/2	115	180	4	18	180	10	19	13	15°	1
80	3	135	195	8	18	210	12	19	13	15°	1
100	4	160	215	8	18	240	12	20	14	15°	1
125	5	165	245	8	18	295	16	25	22	10°	1
150	6	180	280	8	23	355	16	26	22	10°	1
200	8	210	335	12	23	410	16	25	22	10°	1
250	10	230	405	12	26	460	12	26	22	10°	1
300	12	245	460	12	26	510	12	26	22	10°	1
350	14	255	520	16	26	565	16	25	22	10°	4
400	16	255	580	16	26	625	16	25	22	10°	4
450	18	255	640	16	26	685	16	25	22	10°	4
500	20	255	705	16	26	745	16	25	22	10°	5
600	24	260	840	16	26	870	16	25	22	10°	5

Flange Parameters: GB/T 9119-2010(PN16)



Vacuum Ring Type



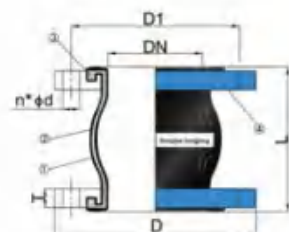
Metal Lining Type



Negative Pressure Belt Type



► LO Type Hydraulic-use Rubber Expansion Joint ◀



NO	Name	Material
1	Inner/outer rubber	NBR/Neoprene
2	Reinforcing cord	Nylon Tire Cord
3	Reinforcing ring	Hard Steel Wire
4	Flange	Q235, SS304, SS316 DN40-DN200(QT450)

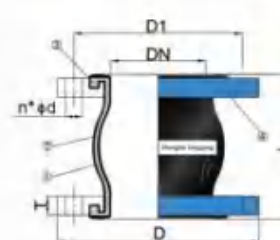
LO Type Hydraulic Rubber expansion joint is mainly used in the hydraulic system of ten-thousand-ton forging presses. It utilizes first-line brand raw materials, 100% virgin rubber, without recycled rubber. A one-to-ten compensation policy provides assurance for heavy industry applications. For detailed information on the raw materials, please refer to page 24

Nominal diameter		Length	Flange OD	Flange Thickness	Reinforce	Reinforce Diameter	Flange PCD	Axis elongation	Axis contraction	Offset	Angle	Control code
MM	inch	Length	ODMM	Thick	Reinforce	Reinforce	PCD	MM	MM	MM	°	Code
25	1	95	115	14	4	14	85	6	9	9	15°	/
32	1-1/4	95	135	15	4	18	100	6	9	9	15°	/
40	1-1/2	95	145	15	4	18	110	6	10	9	15°	/
50	2	105	160	15	4	18	125	7	10	10	15°	/
65	2-1/2	115	180	15	4	18	145	7	13	11	15°	/
80	3	135	195	17	8	18	160	8	15	12	15°	/
100	4	150	215	20	8	18	180	10	19	13	15°	/
125	5	165	245	19	8	18	210	12	19	13	15°	/
150	6	180	280	21	8	23	240	12	20	14	15°	/
200	8	210	335	24	12	23	295	16	25	22	10°	/
250	10	230	405	28	12	26	365	16	25	22	10°	/
300	12	245	460	28	12	26	410	16	25	22	10°	/
350	14	255	520	29	18	26	470	16	25	22	10°	4
400	16	255	565	29	18	30	525	16	25	22	10°	4
450	18	255	640	33	20	30	585	16	25	22	5°	4
500	20	255	705	35	20	33	650	16	25	22	5°	5
600	24	260	840	38	20	36	770	16	25	22	5°	5

Flange Parameters: GB/T 9119-2010(PN16)



► RE Type Rubber Expansion Joint for Desulfurization ◀



NO	Name	Material
1	Inner/outer rubber	EPDM/CR
2	Reinforcing cord	Nylon Tire Cord
3	Reinforcing ring	Hard Steel Wire
4	Flange	Q235

RE Type Desulfurization Rubber Expansion Joint is mainly used at the inlet and outlet of the desulfurization absorption tower slurry circulation pump. It is made from the Japanese Mitsui 4045 raw material, 100% virgin rubber, without recycled rubber. It provides safety assurance for thermal power generation. For detailed information on the raw materials, please refer to page 25.

Nominal diameter		Length	Flange OD	Flange Thickness	No. of bolts	PCD	Axis elongation	Axis contraction	Offset	Angle	Control code
MM	inch	Length	ODMM	Thick	Bolts	PCD	MM	MM	MM	°	Code
25	1	95	115	14	4	85	6	9	9	15°	/
32	1-1/4	95	135	15	4	100	6	9	9	15°	/
40	1-1/2	95	145	15	4	110	6	10	9	15°	/
50	2	105	160	15	4	125	7	10	10	15°	/
65	2-1/2	115	180	15	4	145	7	13	11	15°	/
80	3	135	195	17	8	160	8	15	12	15°	/
100	4	150	215	20	8	180	10	19	13	15°	/
125	5	165	245	19	8	210	12	19	13	15°	/
150	6	180	280	21	8	240	12	20	14	15°	/
200	8	210	335	24	12	295	16	25	22	10°	/
250	10	230	405	28	12	365	16	25	22	10°	/
300	12	245	460	28	12	410	16	25	22	10°	/
350	14	255	520	29	16	470	16	25	22	10°	4
400	16	255	565	29	16	525	16	25	22	10°	4
450	18	255	640	33	20	585	16	25	22	5°	4
500	20	255	705	35	20	650	16	25	22	5°	5
600	24	260	840	38	20	770	16	25	22	5°	5

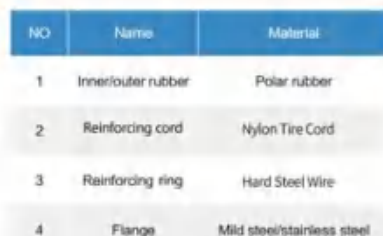
Flange parameters: GB/T 9119-2010(PN16)





Always Been Imitated Never Been Surpassed

▶ CKXT Marine Flexible Single Sphere Rubber Joint ◀



Parameters of CKXT Marine Flexible Single Sphere Rubber joint

Internal diameter	Length	Flange OD	Flange thickness	R_1 of hole	r_1	PGD	Outer diameter of rubber anisot	Axis Distortion	Axis compression	Latent	Angular	
mm	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
25	1	95	105	14	4	13	73	57	6	9	9	15°
32	1-1/4	95	115	14	6	15	83	64	6	9	9	15°
40	1-1/2	95	125	14	8	15	93	74	6	10	9	15°
50	2	106	135	14	8	15	103	84	8	10	11	15°
65	2-1/2	115	155	14	6	15	123	104	8	10	11	15°
80	3	136	170	14	8	15	138	118	10	12	13	15°
100	4	151	190	14	8	15	158	138	12	15	15	15°
125	5	167	215	14	10	15	183	164	14	18	18	15°
150	6	180	240	14	12	15	208	190	16	20	20	15°
200	8	190	310	17	12	17	273	250	16	20	20	15°
250	10	230	380	21	14	21	336	306	16	22	22	15°

Flange parameters: CB/T 46-2007 1.0MPa

Product Description:

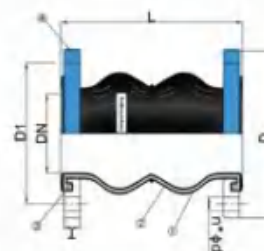
This product consists of an inner rubber layer, reinforced with nylon or polyester fabric, an outer rubber layer, and loose metal flanges. It features high pressure resistance, good elasticity, large displacement capacity, excellent vibration absorption and noise reduction effects, and easy installation. It can be widely used in water supply and drainage systems, HVAC systems, fire compressors, papermaking, pharmaceuticals, marine applications, water pumps, fans, and other pipeline systems.



SHANGHAI SONGJIANG



▶ CKST Marine Flexible Double Sphere Rubber Joint ◀



NO	Name	Material
1	Inner/outer rubber	Polar rubber
2	Reinforcing cord	Nylon Tire Cord
3	Reinforcing ring	Hard Steel Wire
4	Flange	Mild steel/stainless steel

Parameters Of CKST Marine Flexible Double Sphere Rubber joint

Nominal diameter	Length	Range OD	Range thickness	Qty. of bolts	Ø I	PGD	Outer diameter of rubber sealing	Axial flange Ø	Axial compression	Label	Angle
MM	inch	Label	Label	mm	mm	mm	mm	mm	mm	mm	°
25	1	150	106	14	4	13	73	57	30	50	45°
32	1-1/4	150	115	14	6	15	83	64	30	50	45°
40	1-1/2	175	125	14	8	15	93	74	30	50	45°
50	2	175	135	14	6	15	103	84	30	50	45°
65	2-1/2	175	155	14	6	15	123	104	30	50	45°
80	3	175	170	14	8	15	138	118	30	50	45°
100	4	225	190	14	8	15	158	138	35	50	45°
125	5	225	215	14	10	15	183	164	35	50	45°
150	6	225	240	14	12	15	208	190	35	50	45°
200	8	325	310	17	12	17	273	250	35	60	30°
250	10	325	380	21	14	21	306	306	35	60	30°

Flange parameters: CB/T 46-2007 1.0MPa

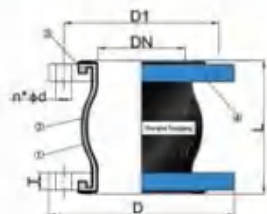
Product Introduction:

This product consists of an inner rubber layer, reinforced with nylon or polyester fabric, an outer rubber layer, and loose metal flanges. It features high pressure resistance, good elasticity, large displacement capacity, excellent vibration absorption and noise reduction effects, and easy installation. It can be widely used in water supply and drainage systems, HVAC systems, fire compressors, papermaking, pharmaceuticals, marine applications, water pumps, fans, and other pipeline systems.





► BL Type Abrasion-resistant Rubber Flexible Joint ◀



NO.	Name	Material
1	Inner/outer rubber	SBR/NR
2	Reinforcing cord	Nylon Tire Cord
3	Reinforcing ring	Hard Steel Wire
4	Flange	Q235,304,QT450

BL Type Wear-resistant Rubber Flexible Joint is mainly used in pipeline systems that require wear resistance, such as concrete, silica sand, slurry, abrasives, and pulp. It is primarily made of SBR and NR synthetic rubber, and utilizes Cabot 220 ultra-fine carbon black to achieve high wear resistance (refer to Figure 1). Additionally, it can be used in conjunction with wear-resistant devices. The material of the wear-resistant device can be selected to match the main pipeline material, thereby achieving optimal wear resistance (Fig. 2).

Nominal diameter	Length	Flange OD	Flange thickness	Weight	No. of bolts	PCD	Axis elongation	Axis compression	Latent	Angular	Compressive res.
MM	inch	Outer	Inner	kg/lb	inch	inch	MM	MM	MM	°	psi
50	2	105	160	15	125	4	18	7	10	15°	7
65	2-1/2	115	180	16	145	4	18	7	13	15°	7
80	3	135	195	18	160	8	18	8	15	15°	7
100	4	150	215	20	180	8	18	10	19	15°	7
125	5	165	245	20	210	8	18	12	19	15°	7
150	6	180	280	22	240	8	23	12	20	15°	7
200	8	210	335	24	295	12	23	16	25	10°	7
250	10	230	405	26	355	12	26	16	25	10°	7
300	12	245	460	28	410	12	26	16	25	10°	7
350	14	255	520	30	470	16	26	16	25	10°	4
400	16	255	580	32	525	16	30	16	25	10°	4
450	18	255	640	34	585	20	30	16	25	5°	4
500	20	255	705	36	670	20	33	16	25	5°	5
600	24	260	840	38	725/770	20	36/36	16	25	5°	5
700	28	260	910	40	840	24	36/36	16	25	5°	5
800	32	260	1025	43	950	24	34/39	16	25	5°	5
900	36	260	1125	46	1050	28	34/39	16	25	5°	5
1000	40	260	1255	48	1150/1170	28	36/42	16	25	5°	6
1200	48	260	1485	50	1390	32	39	16	25	5°	6

Flange parameters: GB/T 9119-2010



Wear-resistant rubber (figure 1)



Wear-resistant device (figure 2)



Wear-resistant device



► Special Rubber Expansion Joint ◀



Stainless Steel Flange: S30408, S31603



PVC Flange: Aquarium Life Support System



FKM: Mixed Medium



Brass Flange Rubber Expansion Joint



SS Flange Lined PTFE: Strong Acid-base Medium



Q235 Flange Lined PTFE: Aviation Kerosene, Oil Drilling Rig



Provide vibration isolation and noise
reduction solutions for super high-rise buildings



OFFICIAL PROMISE

AUTOMOBILE SPRING STEEL, SAFE AND ASSURED



—NOT ONLY PROMISE BUT ALSO ACHIEVE—

QUICK AFTER-SALES SERVICE All service requests are expedited and specially approved for processing, including holidays	FAST TWELVE HOURS If any quality issues arise, we will provide a written response within twelve hours and a resolution plan within twenty-four hours	FREE ISSUE RESOLUTION In case of any inherent quality problems with the product, we will cover the shipping costs and provide free product.
QUIET DAMPING EFFECT The maximum achievable damping effect before and after use can reach up to 80%	CHECK SUPPORT DETECTION Supporting customers in conducting effectiveness testing before and after installation	FIVE FIVE-YEAR WARRANTY Guaranteed for up to five years for indoor use



Selection and Effectiveness Calculation of Vibration Isolator

The Selection Process and Basis of Vibration Isolator:

Technical Parameters:

- Operating weight W of Vibration isolator's bearing device
(including total weight of device, weight of inertia base and safety factor)
- Vibration isolation support points N , with even number is good, the lowest horizontal pump is not less than 6, the vertical pump is generally 4
- Device speed n
- Vibration isolation damping ratio ξ
- Vibration isolation stiffness k

Calculation Basis

- Select vibration isolation model

(a) Bearing capacity of single vibration isolator $P = \frac{W}{N}$ bearing capacity of single vibration isolator $P \geq P_2$, and the maximum shall not be greater than P_3 .

- Calculation of damping efficiency

(a) Equipment interference frequency $f = \frac{n}{60}$

(b) Natural frequency of vibration isolator $f_0 = \frac{1}{2\pi} \sqrt{\frac{K \times 980}{P}}$

(c) $T = (1 - \eta) \times 100\% = \left[1 - \frac{1 + \left(2\xi \frac{f}{f_0}\right)^2}{\sqrt{\left[1 - \left(\frac{f}{f_0}\right)^2\right]^2 + \left(2\xi \frac{f}{f_0}\right)^2}} \right] \times 100\%$ Damping efficiency

If you need our company's assistance in selecting isolators or providing calculations for vibration isolation effects, please contact the Technical Department of Shanghai Songjiang Shock Absorber Group. TEL: +86 21-33666665



Analysis of Water Pump Vibration Causes

With the trend of urban construction towards high-rise buildings, there is an increasing need for pressurized water supply for daily life. Water pumps are widely used in air conditioning chilled water and cooling water circulation systems. However, the noise and vibration issues they bring about pose challenges for environmental workers in terms of control and protection. There are multiple reasons that contribute to the vibration of pump units and pump house buildings, with some factors interconnected and interacting with each other. In summary, the main causes can be categorized into the following four aspects:

Electrical Factors:

The motor is the main equipment of the pump unit. Imbalance of magnetic forces within the motor and discrepancies in other electrical systems often lead to vibration and noise.

Mechanical Factors:

Imbalance of rotating components of the motor and water pump, poor quality manufacturing, inadequate installation, asymmetric alignment of the unit's axis, excessive shaft deflection beyond permissible limits, poor mechanical strength and rigidity of components, wear and damage of bearings and sealing parts, as well as resonance caused by the occurrence of the critical rotational speed of the pump coinciding with the natural frequency of the unit, all contribute to strong vibration and noise.

Hydraulic Factors:

Uneven flow velocity and pressure distribution at the pump inlet, pressure pulsation of the working fluid at the pump inlet and outlet, fluid recirculation, deviation flow, non-rated operating conditions, and water turbidity caused by various reasons are common causes of pump unit vibration.



The dynamic transitional processes during pump startup and shutdown, valve opening and closing, changes in operating conditions, and emergency shutdown due to accidents often result in rapid changes in pressure within the water supply pipeline and water hammer effects, which frequently lead to vibration in the pump house and unit.

Hydraulic and Other Factors:

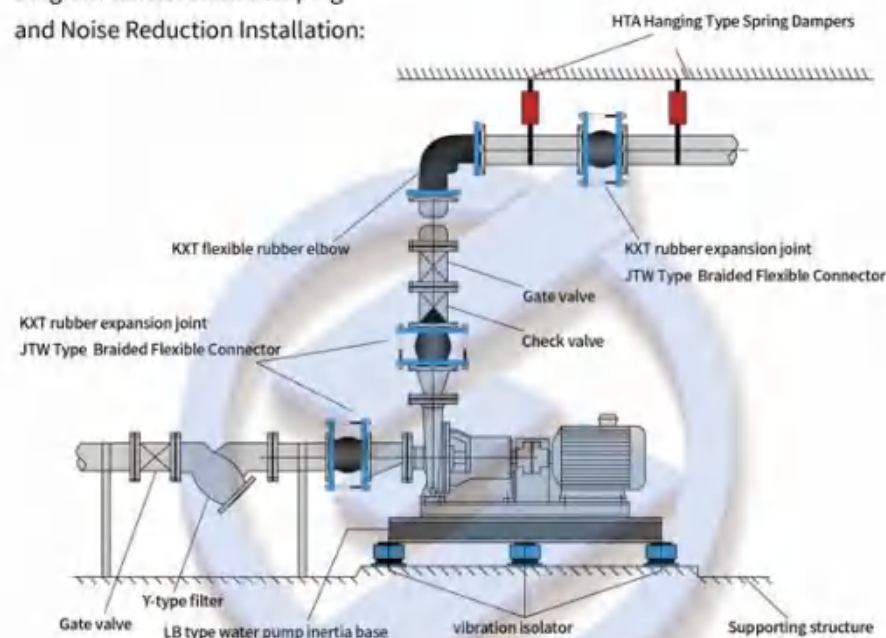
Unreasonable design of the pump unit's water intake flow path or its incompatibility with the unit, improper submergence depth of the water pump, as well as unreasonable startup and shutdown sequences of the unit, all contribute to worsened intake conditions, vortex formation, and the triggering or exacerbation of air entrainment and vibration in the unit and pump house. In the case of units that disrupt siphon vacuum cutoff during start-up, if there is difficulty in carrying air during the peak segment, it results in excessively long siphon time. Units that utilize check valve cutoff experience the issue of unreasonable check valve design, resulting in constant impact on the check valve seat. Uneven settlement of the foundation supporting the water pump and motor, or poor rigidity of the foundation, can also cause vibration in the unit.

In conclusion, there are numerous causes for water pump vibration, many of which are almost unavoidable. In fact, both the design and manufacturing processes of water pumps, as well as hydraulic design considerations, cannot completely eliminate pump vibration. Therefore, it is crucial to employ methods such as installing inertia bases and spring isolators or rubber isolators at the bottom of the water pump to achieve vibration isolation.



Methods for Water Pump Vibration Control:

Diagram for Vibration Damping and Noise Reduction Installation:



Installation of Spring Vibration Isolators

Spring vibration isolators are commonly used for pump isolation, and they offer the following advantages:

Large static deflection and low natural frequency, providing excellent low-frequency vibration isolation performance.

Resistant to corrosion from oil, water, and other substances, and their performance remains unaffected by temperature changes.

No aging or creep deformation occurs, ensuring long-term performance.



The commonly used spring vibration isolators for water pumps have a static deflection (rated compression) of typically 25mm. This deflection can be applied for pump isolation at speeds ranging from 850 to 2900rpm.

For speeds between 600 and 850rpm, it is recommended to use isolators with a deflection of 50mm. For pumps operating at 600rpm, it is advised to use isolators with a deflection greater than 50mm. For speeds exceeding 2900rpm, rubber vibration isolators are recommended.

Shanghai Songjiang Shock Absorber Group Co., Ltd. produces spring vibration isolators that can meet the isolation requirements of water pumps with various speeds and power levels.

◆ When the pump speed is greater than 650rpm or the motor power of the pump is less than or equal to 45KW, it is recommended to choose the following spring vibration isolators:



SCM Type Spring Isolator

◆ When the pump speed is less than or equal to 650rpm or the motor power of the pump is less than 45KW, it is recommended to choose the following spring vibration isolators:



SHM Type Adjustable Spring Isolator



SCR /STR Low-Frequency Rubber Vibration Isolators

SCR/STR low-frequency rubber vibration isolators are recommended for water pumps. These isolators are made of natural rubber and are formed by a special formulation that undergoes high-temperature vulcanization together with internal metal components. They possess excellent elasticity, low-frequency characteristics, and a long service life. Shanghai SongJiang Shock Absorber Group Co., Ltd. suggests using SCR low-frequency rubber vibration isolators for horizontal water pumps, while vertical water pumps can utilize STR low-frequency rubber vibration isolators.



SCR Type Low-Frequency Rubber Vibration Isolator



STR Type Low-Frequency Rubber Vibration Isolator



Installation of Pump Inertia Base

To reduce the amplitude of pump vibrations and effectively control the transmission of vibrations to the pipeline, when installing spring vibration isolators or rubber vibration isolators for the pump, an inertia base must be installed below the pump base. This helps increase the mass and improve the stability of the vibration isolators. The weight of the inertia base is typically 1.5 to 3 times the weight of the pump. The base frame is constructed with channel steel and filled with concrete, with bi-directional 150x150 steel reinforcement. The length and width dimensions of the base are generally based on the dimensions of the pump base, with an additional 200mm margin in the length direction and 100mm margin in the width direction.

Shanghai Songjiang Shock Absorber Group Co., Ltd. can provide free detailed design of pump inertia base CAD drawings based on customer-provided pump blueprints and offer customized inertia base products.



LB-B water pump inertia base

Effectiveness of Pump Vibration Control Measures

Depending on the type of vibration isolation method employed for the pump, the installation of spring vibration isolators can achieve a vibration reduction effect of over 95-99%, while the installation of rubber vibration isolators can achieve a vibration reduction effect of over 80%. This effectively addresses the troubles caused by pump vibrations in both daily life and industrial production.



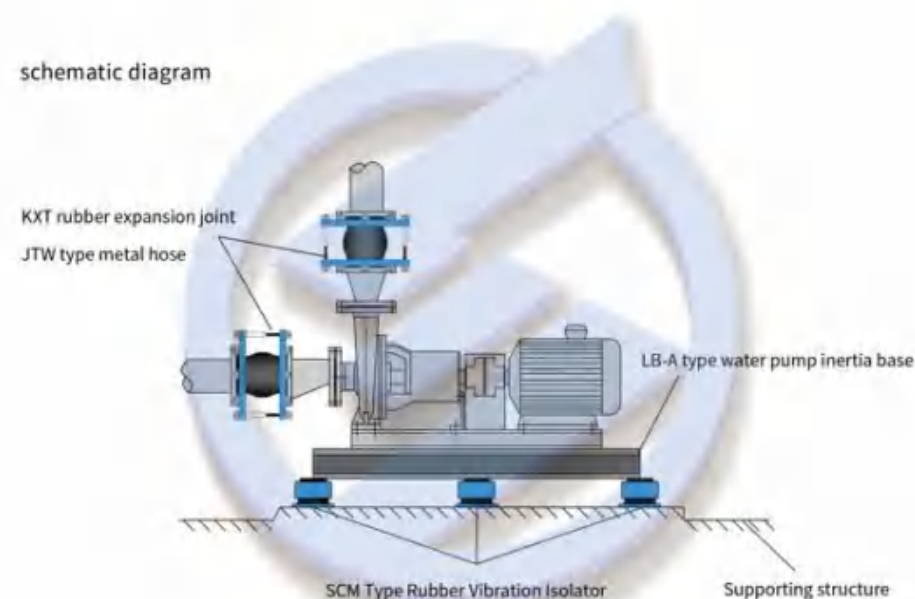
Pump Vibration Isolator Installation Methods

Vibration Isolation for Various Types of Pumps

Conventional Vibration Isolation Method:

Overview: In this method, the pump is installed on a reinforced concrete inertia base or a steel inertia base (with a thickness generally $\geq 100\text{mm}$, depending on the size of the pump), and SCM type spring vibration isolators are used. Typically, there are six or more isolators per pump (specific quantity depends on the length of the various bases and the weight of the isolation system). The isolators are generally not fixed in the vertical direction. After installation, the position of the intermediate isolator is adjusted to ensure that the height and load distribution among the isolators are consistent. KXT type flexible rubber joints or JTW type stainless steel metal hoses should be installed on the pipelines after installing SCM type spring vibration isolators for vibration reduction treatment.

schematic diagram



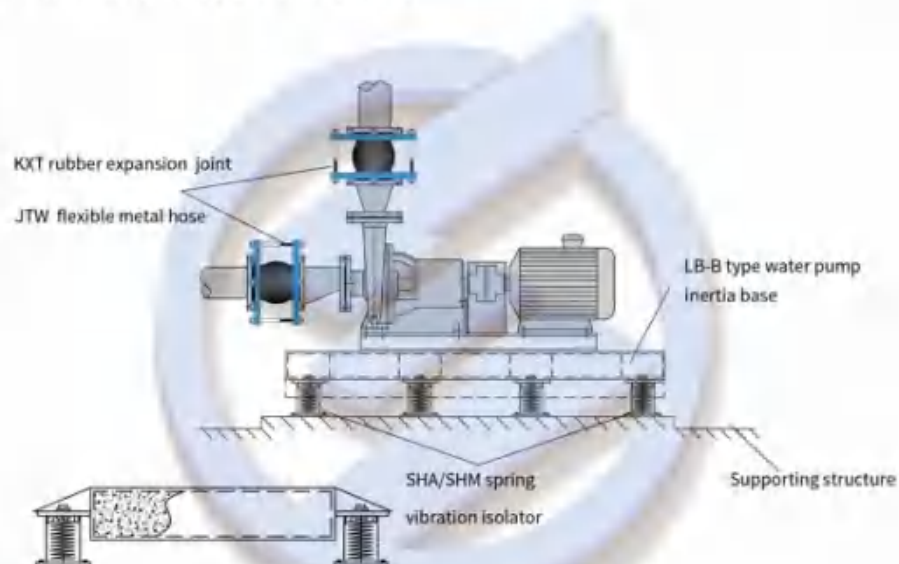


Lateral Floating Support Damping Method

Overview: The water pump is installed on top of a hybrid inertia base, which typically weighs about 1.5 to 2 times the weight of the pump. Side support brackets are provided on both sides of the base in the length direction, and SHA type or SHM type spring dampers are selected. The distance between the base bottom surface and the ground is generally about 50mm. This damping method lowers the center of gravity of the equipment, has a large counterweight, and exhibits small table oscillations, resulting in good stability of the damping equipment (which is commonly used in engineering design and application nowadays). The design and manufacture of the damping springs employ large diameter, medium diameter, and small aspect ratio springs, which have the advantages of low stress, high fatigue resistance, and long service life.

Note: The translation provided above is a direct translation of the text you provided.

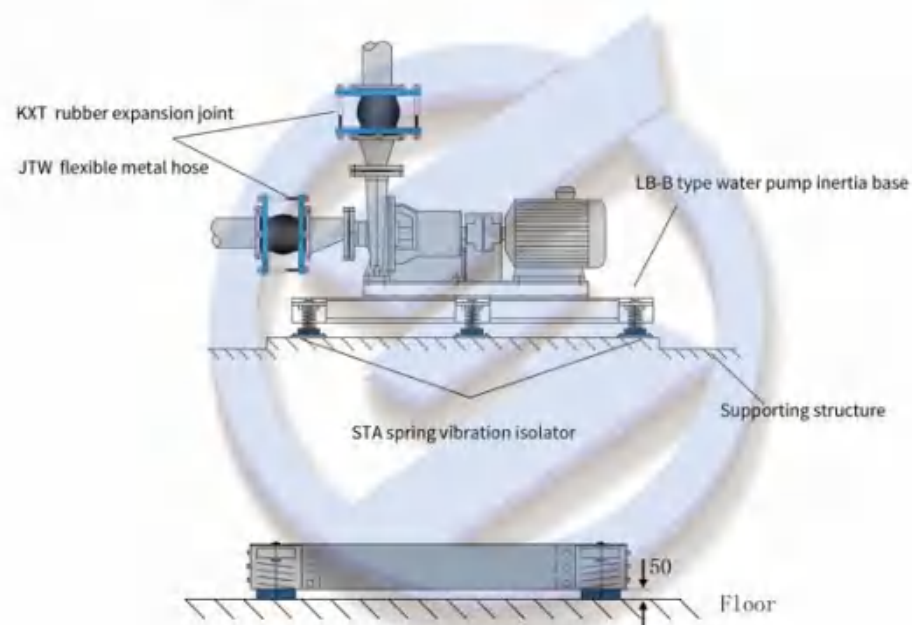
However, please note that some technical terms and phrases may require further context or clarification for accurate translation.



Embedded Damping Method

Overview: Spring dampers are installed inside the inertia base of the water pump. The weight of the inertia base is approximately 1.5 to 2 times the weight of the pump. The base has internal locations for installing the dampers, which are embedded within the base. The distance between the base bottom surface and the ground is generally around 50mm. This method provides a large counterweight for the base, resulting in minimal table oscillations, good stability of the damping equipment, and also allows for space-saving in equipment layers. The installation of the equipment is neat and aesthetically pleasing. The commonly used damper for this method is the STA-type spring damper.

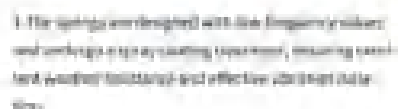
Installation Diagram:





Always Be a Twitterer. Never Be a Squirreler.

SHM Type Adjustable Spring Vibration Isolator



2. Both the top and bottom are equipped with 400-1000 mm curved rubber and fixed ball, rigid and elastic, ensuring stable performance.

3. The multiplier is variable, allowing for any adjustment of the input and height according to specific requirements.

4. It can effectively locate vibrations from large power equipment such as boilers, cooling towers, heat pump units and generators, thereby reducing and extending their service life.

- 1 refers to a combination of one set of springs.
2 refers to a combination of two sets of springs.
4 refers to a combination of four sets of springs.
8 refers to a combination of eight sets of springs.
16 refers to a combination of sixteen sets of springs.

[illegible][illegible]

Black immigrants with a high level of education are more likely to be employed in the public sector than those with a lower level of education. This is particularly true for those who have been in the country for a long time.

Always Been Imitated Never Been Surpassed

SHANGHAI SONGJIANG



► SCM Type Spring Vibration Isolator ◀



Product Features:

The springs are designed with natural frequency values and undergo electroplating and baking paint treatment. The springs are heat-treated and stress-relieved, ensuring long service life. The main body is treated with rust protection.

The bottom is equipped with anti-slip feature.

Simple installation.

It can eliminate vibration in mechanical mechanisms and protect and prolong the lifespan of machinery. Load deflection: 25mm.

Performance Parameter Table of SCM Type Spring Vibration Isolator:

Model	Predetermined load	Optimum load	Ultimate load	Vertical stiffness	Overall dimensions					
	KG	KG	KG	kg/mm	H	L1	L2	D	D1	wt
SCM-10	3	10	12	0.5	70	75	93	65	40	11
SCM-20	5	20	23	1	70	75	93	65	40	11
SCM-30	6	30	35	1.5	70	75	93	65	40	11
SCM-40	20	40	46	2	70	75	93	65	40	11
SCM-60	30	60	69	3	70	75	93	65	40	11
SCM-80	32	80	90	3.2	110	105	125	88	50	11
SCM-100	40	100	112	4	110	105	125	88	50	11
SCM-150	60	150	168	6	110	105	125	88	50	11
SCM-200	80	200	224	8	110	105	125	88	50	11
SCM-250	125	250	288	12.5	110	105	125	88	50	11
SCM-300	120	300	336	12	145	145	165	130	50	13
SCM-400	160	400	448	16	145	145	165	130	50	13
SCM-500	200	500	560	20	145	145	165	130	50	13
SCM-600	240	600	672	24	145	145	165	130	50	13
SCM-800	320	800	896	32	150	210	245	190	70	15
SCM-1000	500	1000	1150	50	150	210	245	190	70	15
SCM-1200	600	1200	1380	60	150	210	245	190	70	15
SCM-1500	750	1500	1725	75	150	210	245	190	70	15
SCM-2000	1000	2000	2300	100	150	210	245	190	70	15



SHA Low-Frequency Adjustable Spring Vibration Isolator



SHA Type Low-Frequency Adjustable Spring Vibration Isolator Features:

1. The main body is made of aluminum alloy.
2. Special structural design allows for height adjustment according to specific needs.
3. Lightweight and sturdy design, easy installation; suitable for various types of machinery for vibration isolation.
4. The springs are heat-treated and undergo ED rust protection, baking paint, or spray coating processes.
5. With a load deflection of 25mm, it can effectively eliminate mechanical vibration.

The SHA Type Low-Frequency Adjustable Spring Vibration Isolator features easy installation. There are screws and screw holes at the top and bottom of the isolator. The upper end of the spring has a height-adjustable nut, allowing for free adjustment of the height according to installation needs. The isolator is equipped with lateral rubber damping at both ends, increasing the

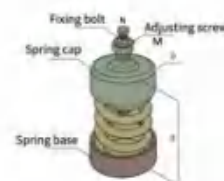
Performance Parameter Table of SHA Type Spring Vibration Isolator:

Model	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	D (mm)	M (mm)
SHA-S	153	123	105	71	120	12	12
SHA-M	178	135	117	76	135	12	14
SHA-L	209	175	152	88	160	16	14

Model	Working range kg	Vertical stiffness N/mm	Horizontal stiffness N/mm	Spring parameters (mm)				
				Free height	Free length	Height	Spring of type	Color
SHA-S-20	15~30	8	25	4.2	40	73	7.25	black
SHA-S-30	31~50	16	25	5	42	73	7.25	black
SHA-S-50	51~75	24	25	5.3	42	73	6.5	black
SHA-S-80	76~90	32	25	5.7	42	73	7.25	black
SHA-S-100	91~120	40	25	5.7	42	73	6.25	black
SHA-S-150	121~150	60	25	6.1	42	73	6	black
SHA-S-200	151~230	80	25	6.5	42	73	6.2	black
SHA-M-250	231~280	100	25	6.3	54	86	6	black
SHA-M-300	281~320	120	25	6.5	54	86	6	black
SHA-M-400	321~450	160	25	6.1	54	86	5.5	black
SHA-M-500	451~550	200	25	6.6	54	86	6	black
SHA-L-600	551~650	240	25	11.3	63	106	6	black
SHA-L-700	651~750	280	25	11.5	63	106	6	black
SHA-L-800	751~850	320	25	12	63	106	6	black
SHA-L-1000	901~1100	400	25	12.6	63	106	6	black



STA Type Spring Vibration Isolator



The dimension table of STA spring vibration isolator

Model	D	H	N	M
STA	83	165	12	20

Product Introduction:

1. The spring is designed with low-frequency values and undergoes powder coating treatment, providing excellent weather resistance and effective vibration isolation.
2. The spring base is made of nitrile rubber, and the spring cap is wrapped with rubber, extending its service life.
3. It is easy to install and can be adjusted in height and level according to actual needs.
4. It can be used with pedestal design and is suitable for various types of machinery equipment.
5. Suitable for various applications such as pumps, fans, air handling units, and pipelines.



The dimensions of STA spring vibration isolator

Model	Optimal load	Vertical stiffness	Frequency range
	kg	kg/mm	Hz
STA-100	100	4	2.3-4.2
STA-200	200	8	2.3-4.5
STA-300	300	12	2.6-4.5
STA-400	400	16	2.7-4.5
STA-500	500	20	2.8-4.7
STA-600	600	24	3.1-4.5
STA-700	700	28	3.1-4.5
STA-800	800	32	3.0-4.5
STA-1000	1000	40	2.9-4.3
STA-1200	1200	50	2.9-4.3

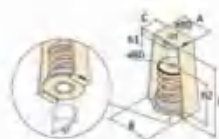




► HTA Type Suspended Spring Vibration Isolator ◀

The HTA isolator is manufactured through stamping processes and includes rubber components. It features electrostatic powder coating for enhanced appearance and undergoes strict quality control, including salt spray testing. CR rubber elements are added at both ends to further isolate vibration and noise. It provides a vibration reduction effect of 95% to 100%.

Applications: Suitable for vibration isolation of suspended equipment such as fans, air handling units, ducts, water pipes, and ceilings.



Model	Overall dimension(mm)						
	A	B	C	h1	h2	H	ΦBD
HTA-A	40	55	25	6	55	80	8~10
HTA-B	40	57	30	6	75	110	8~10
HTA-C	72	93	42	17	100	150	12~14
HTA-D	86	120	50	17	140	200	12~16

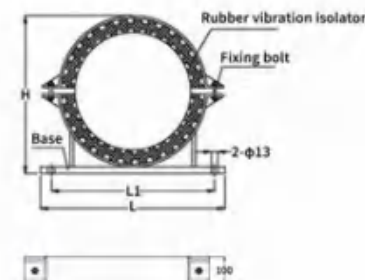


Model	Load range kg	Elastic coefficient kg/mm	Applicable deflection mm
HTA-05-A	1-10	0.2	25
HTA-10-A	5-10	0.4	25
HTA-15-A	10-15	0.6	25
HTA-25-A	15-25	0.8	25
HTA-020-B	10-20	0.8	25
HTA-030-B	20-30	1.2	25
HTA-050-B	30-50	2	25
HTA-070-C	50-80	2.8	25
HTA-090-C	80-100	3.6	25
HTA-120-C	100-130	4.8	25
HTA-150-C	130-150	6	25
HTA-180-C	150-220	7.2	25
HTA-250-C	220-280	10	25
HTA-300-C	280-320	12	25
HTA-050-D	45-55	2.1	25
HTA-100-D	100-130	4.3	25
HTA-150-D	130-160	5.3	25
HTA-200-D	160-210	7.1	25
HTA-250-D	210-260	8.7	25
HTA-300-D	260-320	10.8	25
HTA-350-D	320-360	12.1	25
HTA-400-D	360-430	14.2	25
HTA-450-D	430-470	15.8	25



► GDU3 Type Pipe Clamp Rubber Vibration Isolator ◀

Photo Of GDU3 Type Pipe Clamp Rubber Vibration Isolator:



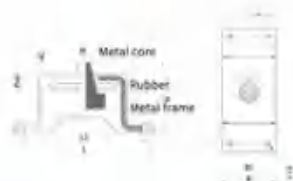
Parameter Of GDU3 Type Pipe Clamp Rubber Vibration Isolator:

Specification	L (mm)	L1 (mm)	H (mm)
GDU3-50	200	150	108
GDU3-65	220	170	128
GDU3-80	230	180	141
GDU3-100	250	200	160
GDU3-125	275	225	186
GDU3-150	325	275	236
GDU3-200	385	335	296
GDU3-250	440	390	350
GDU3-300	500	450	409
GDU3-350	550	500	461
GDU3-400	600	550	510
GDU3-450	650	600	564
GDU3-500	700	650	614
GDU3-600	800	750	714
GDU3-700	900	850	810
GDU3-800	1000	950	910
GDU3-900	1100	1050	1010
GDU3-1000	1200	1150	1110





► BE Type Rubber Vibration Isolator ◀



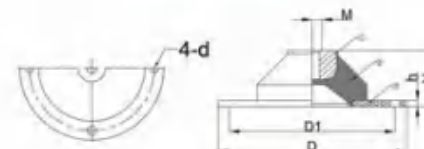
Model	Outer size (mm) (Dimension Unit)								Base size (mm)		Technical office size				Technical office size		Frequency (Hz)	Damping ratio
	M	N	L	W	H	Q	T	2-1/2	2-1/2	1	2	3	4	5	6	7		
BE-10	M8	40	53	36	7	2	2	100	70	120	50	40	44	96	37	3.5~5.0	10±1.5	0.07~0.11
BE-15	M8	40	53	36	7	2	2	150	108	170	70	60	67	146	55	3.5~5.0	10±1.5	0.07~0.11
BE-25	M8	40	53	40	7	2	2	250	170	300	100	100	110	241	82	3.5~5.0	10±1.5	0.07~0.11
BE-40	M10	46	58	55	7	2	2	400	280	480	280	181	171	387	148	3.5~5.0	10±1.5	0.07~0.11
BE-60	M12	58	68	65	7	2	2	600	400	700	350	242	266	580	222	3.5~5.0	10±1.5	0.07~0.11
BE-85	M14	60	69	70	7	2	2	850	600	1000	400	342	377	822	255	3.5~5.0	10±1.5	0.07~0.11
BE-120	M16	66	111	85	7	2	2	1200	800	1350	600	483	523	1280	445	3.5~5.0	10±1.5	0.07~0.11
BE-160	M18	62	114	90	7	2	2	1600	1100	1850	650	644	719	1570	580	3.5~5.0	10±1.5	0.07~0.11
BE-220	M22	62	116	100	7	2	2	2200	1500	2400	1100	880	977	2296	615	3.5~5.0	10±1.5	0.07~0.11
BE-300	M24	70	124	105	80	15	4	3000	2000	3300	1500	1210	1332	3093	1110	3.5~5.0	10±1.5	0.07~0.11
BE-400	M27	68	139	114	85	15	4	4000	2800	4300	1800	1610	1776	4120	1480	3.5~5.0	10±1.5	0.07~0.11

Main Features And Uses:

The BE isolator is a metal and rubber composite that fully protects the metal surface from corrosion. It is resistant to oil, seawater, salt spray, and sunlight, making it suitable for various environments, including land-based and marine applications. It meets US military specifications. The BE isolator has a low natural frequency, appropriate damping ratio, and higher lateral stiffness than vertical stiffness. It can be installed horizontally, inverted, or side-mounted. In horizontal placement, it offers good lateral stability. It provides automatic limiting protection against significant impacts and effectively suppresses resonance peaks. It quickly dissipates self-resonance caused by transient shock response or excessive working conditions, ensuring equipment stability without vibration. The isolator demonstrates significant vibration isolation effects across a wide range of frequencies. It is suitable for land-based and marine equipment like diesel engines, fans, pumps, air compressors, air conditioning units, precision instruments, and small-to-medium-sized machinery. It delivers excellent vibration reduction for machinery with horizontal disturbances.



► SCR Type Rubber Vibration Isolator ◀



NO	Name	Material
1	Core	Steel
2	Rubber	Natural Rubber
3	Base	Steel



Product Features and Applications:

SCR Type Low-Frequency Rubber Vibration Isolator has a natural frequency of 5 to 8 Hz within the specified load range,

A damping ratio of ≥ 0.07 , and deformation with a deviation of less than 20%.

It is suitable for vibration reduction in water pumps, fans, and compressors with a speed of 600 rpm, and particularly suitable for vibration reduction in marine equipment.

It is applicable for environments resistant to oil, seawater, sunlight, with a temperature range of -15 to $+60^{\circ}\text{C}$.

Model	Rated Load (kg)	Static Deformation (mm)	Frequency (Hz)	Damping Ratio (C/C ₀)	M (mm)	D (mm)	D1 (mm)	H (mm)	h (mm)	d (mm)
SCR-30	15~30	5~12	5~7.5	>0.7	12	150	120	55	9	12
SCR-50	30~50	5~12	5~7.5	>0.7	12	150	120	55	9	12
SCR-85	50~85	5~12	5~7.5	>0.7	14	200	170	75	9	12
SCR-120	85~120	5~12	5~7.5	>0.7	14	200	170	75	9	12
SCR-150	110~150	5~12	5~7.5	>0.7	16	200	170	85	9	14
SCR-210	130~210	5~12	5~7.5	>0.7	16	200	170	85	9	14
SCR-330	210~330	5~12	5~7.5	>0.7	18	200	170	90	9	16
SCR-530	330~530	5~15	5~7.5	>0.7	18	200	170	90	9	16
SCR-650	530~650	5~15	5~7.5	>0.7	20	200	170	95	9	16
SCR-850	650~850	5~15	5~7.5	>0.7	20	200	170	95	9	16
SCR-1000	850~1000	5~15	5~7.5	>0.7	20	200	170	95	9	16
SCR-2000	1250~2000	5~18	5~7.5	>0.7	22	300	259	115	10	18
SCR-2500	1800~2500	5~18	5~7.5	>0.7	22	300	259	115	10	18
SCR-3000	2500~3000	5~18	5~7.5	>0.7	22	300	259	115	10	18



► STR Type Rubber Vibration Isolator ◀

Structure Diagram Of STR Type Rubber Vibration Isolator:



STR Type Rubber Vibration Isolator Parameter Table:

Model	L (mm)	W (mm)	H (mm)	CS (mm)	A (mm)	B (mm)	Load	
STR-100	95	53	48	M10	77	10	Min	Max
STR-300	127	77	70	M12	101	14	150	450
STR-600	180	118	70	M16	149	14	450	1000

Product Features and Applications:

The STR Type Rubber Vibration Isolator has a wide load range, making it suitable for various types of machinery to effectively isolate vibration and noise.

It provides excellent anti-vibration efficiency and is made of special rubber material, ensuring excellent weather resistance and long service life.

The structure is sturdy, and installation is easy.

It is suitable for various types of mechanical equipment, including wind turbines, vibrators, transformers, generators, HVAC equipment, electronic equipment, control panels, air compressors, and other mechanical equipment.



► STR Type Stable Rubber Vibration Isolator ◀

Official Commitment:

Rubber Main Material: NR/NBR/CR Composite Material

Service Life: Over 5 years (under non-oil conditions)

5-Year Warranty: Indoor use is eligible for a maximum 5-year warranty

Vibration Reduction Effect: Comparative tests before and after usage can achieve up to 70% reduction

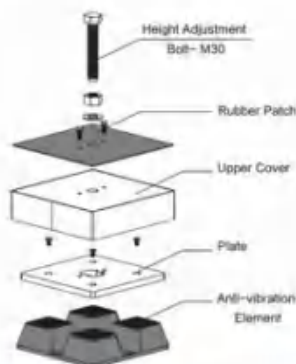
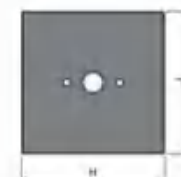
Support for Testing: Support for effectiveness testing before and after installation (third-party) Problem Compensation: In case of quality issues, a full refund will be provided, and the cost of dismantling, installation, and transportation will be borne.

Features:

1. Effectively isolates equipment impact vibration with excellent vibration reduction effect.
2. Reduces the movement of machinery equipment after installation, maintaining stability.
3. Adjustable height to keep the equipment level.
4. Simple and convenient installation without the need for an inertia base.
5. Made with special rubber material, ensuring durability and robustness.
6. Can achieve over 80% vibration reduction even for equipment placed on higher floors.
7. Efficiently reduces vibration for equipment with high vibration reduction

Main Applications:

1. 35-300-ton C-type presses.
2. Crank, non-crank, hydraulic, and pneumatic presses.
3. Shearing machines, folding machines, large cutting machines.
4. Equipment used in high-rise buildings.
5. Slow-speed presses, forging presses, bending machines; equipment weighing over 10 tons, requiring high stability without any swinging motion can opt for this type of vibration isolator.

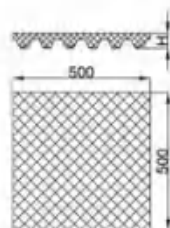


Model	Length mm	Width mm	Height mm	Load t
STRM-2000	220	220	100	2000
STRM-6000	350	350	110	6000



► FZPT-500 Type Floating Construction Platform Rubber Isolation Pad ◀

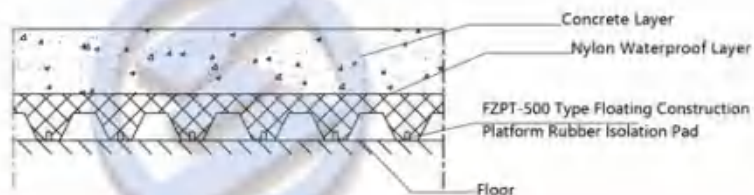
FZPT-500 Type Floating Construction Platform Rubber Isolation Pad Structure Diagram:



Product introduction:

The FZPT-500 Isolation Pad is primarily used for vibration and sound isolation of floating structures and power equipment. It effectively minimizes and isolates the transmission of vibration and noise from structural components of buildings. The product is mainly made of natural and synthetic rubber, with an intermediate reinforced layer of nylon skeleton, and is molded through high-temperature vulcanization. The lower part of the pad features holes in the protruding platform, providing certain air isolation and damping effects. It offers advantages such as a low natural frequency and excellent sound isolation performance.

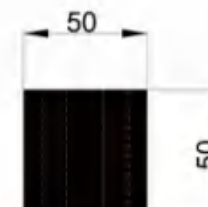
The product dimensions are 500*500mm (0.25m²/piece) with a thickness of 50mm. It can be conveniently and quickly installed in large areas by combining multiple pieces. It can also be cut into various sizes according to project requirements. The product is acid-resistant, puncture-resistant, oil-resistant, corrosion-resistant, mold-resistant, moisture-resistant, aging-resistant, and flame-retardant. It has a temperature resistance range of -20 to 90°C and a damping ratio greater than 0.08.



Model	Load	Deformation	Frequency	Sound Insulation	Length	Width	Product Thickness
	KG	MM	Hz	dB	MM	MM	MM
FZPT-500	200-1500	3-10	7.5-13	28-35	500	500	50



► FZPT-50 Type Floating Construction Platform Rubber Isolation Pad ◀



*There are 4 penetrating holes in the middle of the rubber block to increase the deformability of the product

The FZPT-50 Isolation Pad is made of natural synthetic rubber with a reinforced layer of nylon in the middle, which is formed through high-temperature vulcanization and molding. The product is resistant to acid, alkali, oil, corrosion, mold, moisture, aging, and has a temperature resistance range of -20°C to 80°C. It has a damping ratio greater than 0.08. It provides excellent vibration isolation and sound insulation performance.

This product has gained the trust and praise of users from various industries. It is widely used in the following high-vibration isolation demanding scenarios:

- Floating construction structures for sound isolation in broadcasting, film and television, recording, broadcasting, and studio halls.
- Floor sound insulation in office buildings, residential buildings, hospitals, school laboratories, and other buildings.
- Floor sound insulation in dance halls, band performances, martial arts halls, and other sports and entertainment venues.
- Vibration isolation and sound insulation in equipment rooms of various types.



Model	Load	Deformation	Frequency	Length	Width	Height	Sound Insulation
	kg/m ²	MM	Hz	MM	MM	MM	dB
FZPT-50	50-190	3-10	8-12	50	50	50	26-35



SD Type Rubber Vibration Pad

Features and Applications:

The SD vibration pad is made of high-quality rubber material and features a circular four-void pattern and shear corrugated shape. It primarily functions under shear force, offering a low natural frequency, simple structure, and easy installation. To enhance vibration reduction effectiveness, multiple layers of vibration pads can be stacked in series. It is suitable for passive vibration isolation in mechanical equipment such as water pumps, fans, compressors, chillers, and diesel generator sets.



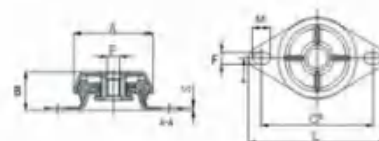
Product Dimensions: 170mm*70mm*20mm, 150mm*150mm*20mm, 120mm*120mm*20mm, 50mm*50mm*20mm

Vibration Damping Pad			Vertical Load Range	Vertical Load Range	Vertical Natural Frequency	Steel Plate
Model	No. of Layers	No. of Blocks	N	N	Hz	No. of Blocks (Standard)
SD-41-4	1	4	1.28~3.44	2.5~5.0	12.9~9.1	1
SD-61-4			3.52~9.48	2.5~5.0	12.9~9.1	
SD-81-4			8.88~23.7	2.5~5.0	12.9~9.1	
SD-42-4			1.28~3.44	4.0~9.0	10.3~6.5	
SD-62-4	2	8	3.52~9.48	4.0~9.0	10.3~6.5	1
SD-82-4			8.88~23.7	4.0~9.0	10.3~6.5	
SD-43-4			1.28~3.44	5.5~13.0	8.4~5.4	
SD-63-4			3.52~9.48	5.5~13.0	8.4~5.4	
SD-83-4	3	12	8.88~23.7	5.5~13.0	8.4~5.4	2
SD-44-4			1.28~3.44	7.0~17.0	7.4~4.8	
SD-64-4			3.52~9.48	7.0~17.0	7.4~4.8	
SD-84-4			8.88~23.7	7.0~17.0	7.4~4.8	
SD-45-4	4	16	1.28~3.44	8.5~21.0	7.4~4.1	3
SD-65-4			3.52~9.48	8.5~21.0	7.4~4.1	
SD-85-4			8.88~23.7	8.5~21.0	7.4~4.1	



JA Type Metal Encased Rubber Vibration Isolator

JA Type Metal Encased Rubber Vibration Isolator Structure Diagram:



JA Type Introduction:

The JA metal encased rubber isolator provides highly effective vibration isolation in both axial and lateral directions. It is particularly suitable for use in generators, engines, and systems, offering excellent vibration reduction. The operating range is approximately 25Hz (1,500rpm). The internal rubber is completely bonded with the metal components, providing optimal vibration isolation performance. Additionally, it is equipped with safety lock components to ensure safety.

Model	Rubber hardness	A	B	P	F/M	CF	L	S	Average load	Maximum load	Maximum compression
	IRHD								Kg/mm	Kg	MM
JA633008W	45	63	30	M8	9*14	89	110	2.5	70	140	2
JA633008M	60	63	30	M8	9*14	89	110	2.5	120	240	2
JA633010W	45	63	30	M10	9*14	89	110	2.5	70	140	2
JA633010M	60	63	30	M10	9*14	89	110	2.5	120	240	2
JA783010W	45	78	30	M10	9*12	110	135	2.5	47	108	2.3
JA783010M	60	78	30	M10	9*12	110	135	2.5	116	267	2.3
JA833010W	45	83	30	M10	9*13	110	135	3	65	195	3
JA833010M	60	83	30	M10	9*13	110	135	3	98	294	3
JA833012W	45	83	30	M12	9*13	110	135	3	65	195	3
JA833012M	60	83	30	M12	9*13	110	135	3	98	294	3
JA923512W	45	92	35	M12	10*15	124	150	3	50	175	3.5
JA923512M	60	92	35	M12	10*15	124	150	3	90	315	3.5
JA1063812W	45	106	38	M12	13*19	143	175	4	70	252	3.6
JA1063812M	60	106	38	M12	13*19	143	175	4	150	450	3
JA1254316W	45	125	43	M16	14.5*20	156	192	4	88	352	4
JA1254316M	60	125	43	M16	14.5*20	156	192	4	185	740	4
JA1505016W	45	150	50	M16	14*18	182	218	4	120	720	6
JA1505016M	60	150	50	M16	14*18	182	218	4	220	1320	6
JA1505020W	45	150	50	M20	14*18	182	218	4	120	720	6
JA1505020M	60	150	50	M20	14*18	182	218	4	220	1320	6



► JY/JF Type Metal Encased Rubber Vibration Isolator ◀

The JY/JF vibration isolator provides highly effective vibration reduction in both axial and lateral directions. It is especially suitable for use in generators, engines, and systems, delivering excellent vibration damping performance. The operating range is approximately 25Hz (1,500rpm).

JY Type Metal Encased Rubber Vibration Isolator

Model	Rubber hardness IRHD	A	H	M	PE	CE	L	S	Maximum load Kg	Maximum compression MM
JY-150*50M16	40	150	50	M16-M20	14.5*17	132	170	4	650	4
JY-150*50M16	50	150	50	M16-M20	14.5*17	132	170	4	1050	4
JY-150*50M20	60	150	50	M16-M20	14.5*17	132	170	4	1300	4
JY-150*50M20	70	150	50	M16-M20	14.5*17	132	170	4	1500	4
JY-180*60M16	40	180	60	M16-M20	18.5*21	150	190	5	875	5
JY-180*60M16	50	180	60	M16-M20	18.5*21	150	190	5	1250	5
JY-180*60M20	60	180	60	M16-M20	18.5*21	150	190	5	1700	5
JY-180*60M20	70	180	60	M16-M20	18.5*21	150	190	5	2650	5

JY Type Structural Diagram:



JF Type Structural Diagram:



JF Type Metal Encased Rubber Vibration Isolator

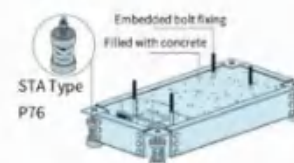
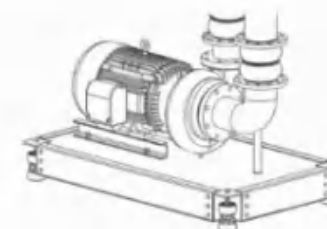
Model	Rubber Hardness IRHD	A	H	M	PE	CE	L	S	Average load Kg/mm	Maximum load Kg	Maximum compression MM
JF-60M12	40	60	38	M12	14*11	100	120	3	9	36	4
JF-60M12	50	60	38	M12	14*11	100	120	3	13	52	4
JF-60M12	60	60	38	M12	14*11	100	120	3	16	64	4
JF-60M12	70	60	38	M12	14*11	100	120	3	24	96	4
JF-60M12	35	104	50	M16	30*13	140	187	4	16	80	5
JF-60M12	45	104	50	M16	30*13	140	187	4	24	120	5
JF-60M12	60	104	50	M16	30*13	140	187	4	38	190	5
JF-60M12	70	104	50	M16	30*13	140	187	4	60	300	5
JF-60M12	80	104	50	M16	30*13	140	187	4	95	475	5



► LB Type Water Pump Inertia Base ◀

1. The inertia base of LB type water pump has good vibration absorption and sound insulation effect, and the efficiency can reach more than 95%.
 2. The inertia base of LB type water pump has the characteristics of firm in structure and light in weight, easy to install, and there is no cement grouting work of ordinary traditional base, which saves man-hours.
 3. The inertia base of the LB type water pump is designed with horizontal adjustment bolts.
- After the pump is installed, only the horizontal bolts need to be adjusted, and there is no need to adjust the jack or move the shock absorber.
4. It has the function of anti-earthquake design.

LB-B Type inertia base



Here is the delivery scene of LB type inertia bases from Shanghai Songjiang Factory:



LB-A Type inertia base



LB-A Type inertia base



LB-S Type inertia base



BYQ type matrix spring isolator



Applicable to:
Transformer Vibration Isolation And Noise Reduction

Product Features:

The BYQ type matrix spring isolator consists of multiple sets of large outer diameter, high deformation capacity springs, upper and lower steel plates, and rubber anti-slip pads. It is primarily suitable for modernized transformer rooms, such as cloud data center transformers. The product offers significant deformation capacity, stable performance, excellent vibration reduction effects, and a lifespan of over 10 years. It provides superior vibration and noise isolation, achieving a vibration reduction rate of over 90% for transformers and a sound insulation level of 15-20dB. The lateral stiffness to vertical stiffness ratio of the isolator is greater than 1.5, ensuring excellent stability.



Another Option:
See P73: SHM type spring isolator

Model	Corresponding transformer	Rated load		Optimum deformation	Vertical stiffness	Overall dimension		
		KG	MM			Length	Width	Height
BYQ-600	200	600	20	30		1120	200	115
BYQ-800	250	800	20	40		1120	200	115
BYQ-900	315	900	20	45		1120	200	115
BYQ-1000	400	1000	20	50		1120	200	115
BYQ-1300	500	1300	20	65		1120	200	115
BYQ-1500	630	1500	20	75		1120	200	115
BYQ-1800	800	1800	20	90		1120	200	115
BYQ-2200	1000	2200	20	110		1120	200	115
BYQ-2800	1250	2800	20	140		1120	200	115
BYQ-3300	1600	3300	20	165		1120	200	115
BYQ-4000	2000	4000	20	200		1120	200	115
BYQ-5000	2500	5000	20	250		1120	200	115

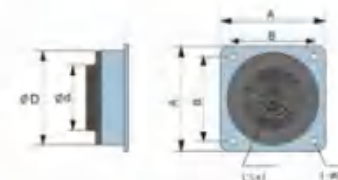
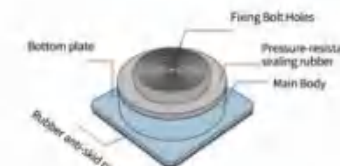


KQJZ-A Type Air Isolator

Main Applications: General punch presses, air compressors, chillers, pump units, fatigue testing equipment.

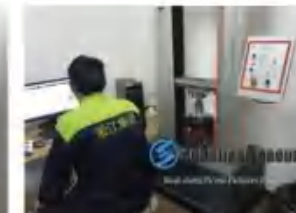
Product Features:

1. Natural frequency of 3Hz~5Hz, maximum operating pressure of 4.5Kg/cm².
2. Made of Neoprene Rubber, with excellent airtightness and integral molding.
3. Multi-layer rust-proof paint applied to the body.
4. Equipped with an oil-resistant cap to prevent common oil contamination.
5. Provides the best vibration reduction effect, with a vibration reduction rate of over 97% for general equipment.
6. Load range: 0~3500kg.



Suitable for: High-rise buildings

Model	Product Size						Load		Height	Weight
	A	B	4-BOL	CS/L	D	d	Min	Max	MM	KG
KQJZ-100-A	125	100	12	M12-BOL	100	50	50	100	100	2kg
KQJZ-200-A	125	100	12	M12-BOL	100	60	100	200	100	2kg
KQJZ-400-A	160	125	12	M12-BOL	138	90	200	400	100	4kg
KQJZ-700-A	200	160	12	M12-BOL	160	115	400	700	100	6kg
KQJZ-900-A	235	180	14	M16-130L	192	132	700	900	100	8kg
KQJZ-1200-A	250	200	14	M16-130L	218	150	900	1200	100	10kg
KQJZ-1600-A	300	250	14	M16-130L	272	200	1200	1600	100	15kg
KQJZ-2000-A	350	300	14	M16-130L	324	252	1600	2000	100	20kg
KQJZ-3500-A	450	400	18	M16-130L	412	300	2000	3500	104	35kg





► KQJZ-B Type Air Dampers for Vibration Isolation ◀

Official Commitment

Rubber Material: CR (Chloroprene Rubber)

Hydraulic Material: Imported damping fluid

Service Life: Over 10 years

Five-Year Warranty: Indoor use is covered by a maximum 5-year warranty

Shock Absorption Effect: A comparison before and after use can achieve up to 95% improvement

Support for Testing: Support for effectiveness testing before and after installation

(third-party) Problem Compensation: In case of quality issues, a full refund will be provided, along with coverage of dismantling and transportation costs.



Product Features:

1. Effectively suppresses excessive equipment vibration and ensures equipment stability.
2. Suitable for eliminating impact vibrations, designed with low natural frequency for excellent damping effect.
3. Made with CR (Neoprene Rubber) material, providing good weather resistance and long service life.
4. The air cushion housing is robotically welded, ensuring seamless integration between rubber and housing.
5. Excellent air tightness, avoiding frequent inflation for maintenance, making it more convenient to use.
6. Internal design includes damping mechanism to effectively prevent resonance.
7. Natural frequency of 3Hz, damping coefficient of 0.12-13, and maximum operating pressure of 4.5kg/cm², compliant with JIS B-4101 air cushion pressure resistance testing standard.



Product Applications:

Suitable for vibration reduction and isolation of equipment with significant self-vibrations, as well as equipment susceptible to vibration interference. Common applications include cutting machines, high-speed presses, injection molding machines, hydraulic presses, vacuum forming machines, die-cutting machines, fully automatic oil spraying machines, printing machines, carton indentation machines, reciprocating air compressors, material cutting machines, textile machines, embroidery machines, sewing machines, embroidery machines, forming machines, cup-making machines, CNC machine tools, shearing machines, washing machines, industrial washing machines, coordinate measuring machines, length measuring devices, 2D inspection devices, roundness measuring devices, and other equipment.

Additionally, it is suitable for applications that require higher vibration reduction effectiveness, as the swinging motion of Type B is lower compared to Type A.

Product Introduction:

The product effectively isolates the transmission of vibrations generated during equipment operation to the ground, while also preventing external vibrations from affecting precision equipment. The vibration reduction effectiveness can reach over 95%, making it suitable for use with vibration equipment placed on high floors.

Model	Load		Product Size			Natural Frequency		Fixing Hole
	Min	Max	A	B	H	Hz	mm	
KQJZ-400-B	200	400	235	235	110	3-5	M12-80L	
KQJZ-700-B	400	700	260	260	110	3-5	M12-80L	
KQJZ-900-B	700	900	270	270	110	3-5	M16-130L	
KQJZ-1200-B	900	1200	300	300	110	3-5	M16-130L	
KQJZ-1600-B	1200	1600	350	350	110	3-5	M16-130L	
KQJZ-2000-B	1600	2000	390	390	110	3-5	M16-130L	
KQJZ-3500-B	2800	3500	500	500	115	3-5	M16-130L	



► Rubber Air Spring ◀

Introduction of Rubber Air Spring

Rubber air springs, commonly known as air tires, corrugated air springs, or airbags, are precision-designed rubber fiber bellows. They do not provide force or support loads themselves but rather rely on compressed air injected by an air compressor into their interior to transmit force and provide elasticity. Depending on the stroke requirements, air springs are typically designed with 1-3 convolutions, but they can also be designed and manufactured with 4 or more convolutions when necessary. Under certain conditions, two air springs can be stacked and used together. Due to these characteristics, air springs are increasingly used in vehicles, paper machines, lifting platforms, press machine vibration conveyors, vibrating screens, air hammers, vibration test machines, foundry machinery, and other equipment or instruments that require stroke control, vibration reduction, or isolation.

Photo of Rubber Air Springs

Precision Instrument Rubber Air Spring

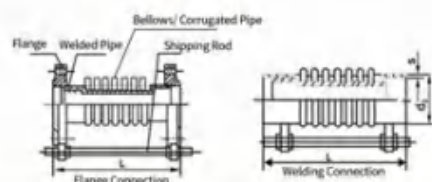


Paper Machinery Rubber Air Spring





► BGF SS Expansion Bellow GB/T 12777-2008 ◀



Dimensions of BGF Stainless Steel Expansion Bellow

Nominal diameter	Total length	Bellows caliber	Wave number	Wall thickness	Compensation s (mm)	Flange thickness	Number of tie rods
DN25	110	32	8	0.4	20	16	2
DN32	130	40	8	0.4	20	18	2
DN40	130	48	8	0.5	20	18	3
DN50	145	57	8	0.5	20	19	3
DN65	180	76	8	0.6	25	20	3
DN80	180	89	8	0.6	25	20	3
DN100	200	108	8	0.6	25	22	3
DN125	230	133	8	0.8	25	22	3
DN150	240	159	8	0.8	30	24	3
DN200	340	219	8	1	30	26	3
DN250	330	273	6	1.2	30	29	3
DN300	370	325	6	1.5	30	32	3
DN350	370	377	6	2	30	35	4
DN400	425	426	6	2	30	38	4
DN450	460	480	6	1.0*2	40	42	4
DN500	440	530	5	1.2*2	50	46	5
DN600	420	630	4	1.2*2	50	52	5
DN700	440	720	4	1.5*2	50	63	5
DN800	490	820	4	1.5*2	50	74	5
DN900	520	920	4	2.0*2	50	82	6
DN1000	540	1020	4	2.0*2	50	90	6
DN1200	550	1220	4	2.0*2	45	95	6



► BGF Stainless Steel Metal Expansion Joint ◀

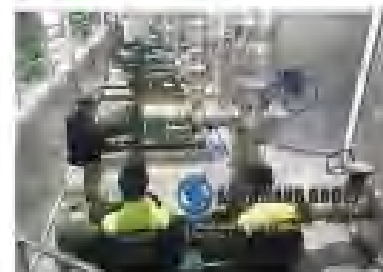
The BGF stainless steel expansion bellow is mainly used in pipeline systems for food, drinking water, pharmaceutical, chemical, hydraulic, and other applications. It serves to compensate for the expansion and contraction of the pipeline. Flange and corrugated metal bellows material is made of SUS304, SUS316L, etc.

Flange connection data can be selected according to GB/T191-2008 (G1/4) or other flange standards.

The product pressure can be up to 1.0MPa, 1.6MPa, and 2.5MPa.

The product length is the same as the standard length of 1500, but custom lengths are also available. It is strictly prohibited to exceed the displacement range. It is recommended that the expansion bellow should only operate at a range not exceeding the effective compensation range and should not have lateral displacement. During transportation, precautions should be taken to prevent welding heat and sparks from reaching the body of the expansion bellow.

As for the media requirements, it is advised to install an effective device to remove fibrous long chain polymer contaminants. If the media is not clean (such as the water inlet of the pipeline), it is advised to install a filter device in the water inlet, which can help to prevent pollution.





► BGF PTFE Corrugated Expansion Joint ◀

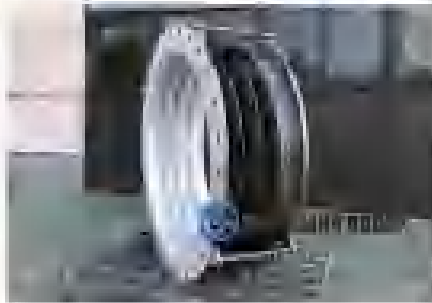
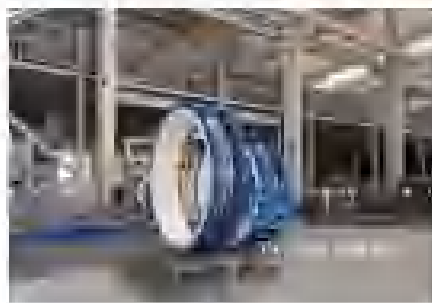
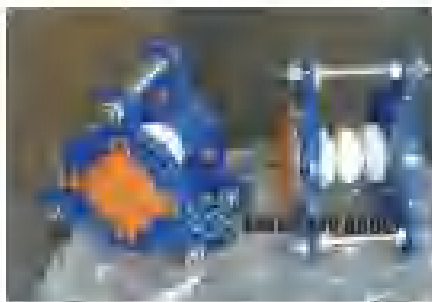
The BGF-PTFE type PTFE Corrugated Expansion Joint, also known as PTFE Expansion Bellow, is primarily made of polytetrafluoroethylene (PTFE) material on the inner wall (in contact with the medium). The corrugated shape allows it to have the ability to expand and contract. PTFE exhibits high resistance to strong acids, alkalis, high temperatures, and corrosive media such as oil, including gasoline, diesel, aviation kerosene, and others; it has excellent performance. Disadvantage: Not resistant to negative pressure.

How to Choose:

For pressures between 0.4 to 1.6 MPa, choose a stainless steel bellows compensator lined with PTFE on the inside;

For pressures between 0.4 to 0.6 MPa, choose PTFE bellows with an outer layer of stainless steel braided mesh for protection;

For pressures below 0.1 MPa, choose PTFE bellows with an additional stainless steel ring.



► Different Types of Braided Flexible Connectors ◀

1. Stainless steel corrugated hose with copper threaded ends, customizable length, pressure resistance of 10kg, primarily used for central air conditioning fan coils. Additionally, the copper threads can be made with stainless



2. Stainless steel wire braided metal hose with stainless steel threaded ends, customizable length, pressure resistance of 25kg, primarily used for various sanitary pipelines, chemical pipelines, high-temperature pipelines,



3. Stainless steel inner-threaded nut wire braided metal hose with stainless steel threaded ends, customizable length, pressure resistance of 25kg, primarily used for various sanitary, chemical, and high-temperature appli-



4. Stainless steel flexible metal hose with universal connections on both ends, pressure resistance of 25kg, primarily used for various high-temperature pipelines, compressed air, hydraulic, chemical, and other applications.



5. One end with external thread and one end with internal thread and nut wire braided metal hose, customizable length, pressure resistance of 25kg, primarily used for air conditioning fan coils, compressors, pharmaceutical systems.





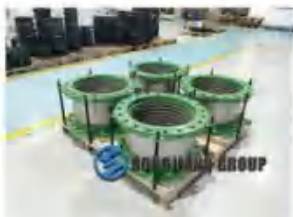
▶ JTW Types Stainless Steel Braided Flexible Connectors ◀

The JTW type stainless steel braided flexible connectors (referred to metal hose) is a high-quality flexible pipe joint in pipeline systems. It primarily consists of a corrugated tube, wire sleeve, and flanges. The inner tube is a circular thin-walled stainless steel corrugated tube, and the outer wire sleeve is woven with stainless steel wire or strip according to certain parameters. The flanges at both ends can be fixed or loose, or one end can be fixed while the other end is loose, facilitating installation.



Specification model		Length	Offset	Braided mesh/belt	Limit
DN / mm L	in	mm	mm		Pcs
DN25	1	300	34	Single Layer Metal Mesh	1
DN32	1-1/4	300	33	Single Layer Metal Mesh	1
DN40	1-1/2	300	32	Single Layer Metal Mesh	1
DN50	2	300	24	Single Layer Metal Mesh	1
DN65	2-1/2	300	24	Single Layer Metal Mesh	1
DN80	3	300	25	Single Layer Metal Mesh	1
DN100	4	300	22	Single Layer Metal Mesh	1
DN125	5	300	17	Single Layer Metal Mesh	1
DN150	6	300	14	Single Layer Metal Mesh	1
DN200	8	300	6	Single Layer Metal Mesh	1
DN250	10	300	5.5	Double Layer Metal Mesh	1
DN300	12	300	5	Double Layer Metal Mesh	1
DN350	14	300	5	Double Layer Metal Mesh	4
DN400	16	400	5	Double Layer Steel Belt	4
DN450	18	400	5	Double Layer Steel Belt	4
DN500	20	400	5	Double Layer Steel Belt	5
DN600	24	400	5	Double Layer Steel Belt	5
DN700	28	600	4	Double Layer Steel Belt	5

Note: The medium passing through the corrugated tube shall not exceed a chloride ion content of 25mg/L.



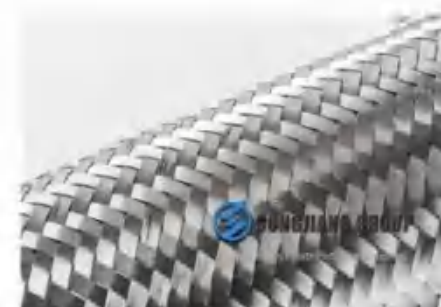
▶ JTW-SS Type Braided Flexible Connectors ◀

The JTW-SS type stainless steel braided flexible connector is mainly used in food, drinking water, pharmaceutical, chemical, hydraulic, and other pipeline systems, providing vibration reduction. Flange and intermediate pipe mesh materials can be made of stainless steel 304, 316, or 321. Flange fixation: The flanges at both ends can be fixed or loose, or one end can be fixed while the other end is loose, facilitating installation.

Flange connection data can be produced according to GB/T9119-2010 or other flange standards. Product pressure: 1.0MPa, 1.6MPa, 2.5MPa.

Product length: The standard length is the same as P97, and various lengths can also be customized. Prohibition of stretching: It is recommended that the working of the metal hose is compression, not stretching, and twisting is not allowed.

Construction precautions: When welding work is being carried out, the metal hose body must be protected from welding heat and sparks. Medium requirements: Please install an effective chloride ion removal device (chloride ion content not exceeding 25mg/L) at the water inlet of the pipeline to avoid exceeding the allowable chlorine ion content in the water, which may cause pitting corrosion.





► ZB Type Fabric Expansion Joint(non-metallic flue duct) ◀

The main material composition:

The ZB type fabric expansion joint(NMFD) is made of high-performance silicone cloth (FKM cloth), PTFE, alkali-free glass fiber cloth, excellent thermal insulation properties of ultra-fine glass wool, aluminum silicate wool (ceramic fiber blanket for high temperature), and other materials, produced through special processes.



Product Features:

Large compensation capacity: Meets multi-dimensional compensation requirements.

No thrust transmission: Absorbs thermal expansion thrust without transmitting it.

High temperature and corrosion resistance: Excellent resistance to high temperatures and corrosion.

Noise and vibration reduction: Effectively reduces noise and vibration from equipment.

Technical requirements:

The NMFD should be able to operate safely for a long period, with a service life of not less than 5 years (7500 operating hours per year). The allowable fatigue life of the non-metallic fabric expansion joint at room temperature should be no less than 1000 cycles (fatigue life safety factor not less than 15).

The NMFD should be able to absorb both axial and lateral displacements of all connected equipment and flue ducts under all operating and accident conditions.

All NMFD should be designed to be damage-free, leak-free, capable of withstanding various high-temperature displacement ranges, and should incorporate stainless steel wire mesh capable of withstanding the maximum design positive and negative pressure plus a 125-fold pressure margin.

The materials used for NMFD should be able to withstand the high temperatures of flue gas and air, as well as the corrosion and wear caused by flue gas. The sealing between the NMFD and the flue duct should be 100% airtight.

The insulation inside the NMFD should take into account the characteristics of the flue gas.

Non-metallic fabric expansion joints on flue ducts and air ducts are exposed to outdoor conditions and the materials used should meet the various original design conditions provided in this attachment. Special attention should be given to the material's ability to withstand low temperatures in outdoor winter conditions.

The external surface temperature of the NMFD's skin should not exceed 70°C.



Corresponding Flange Sizes for Flexible Rubber Expansion Joint Pressure Ratings

Flange Standard: GB/T 9119-2010
GB/T 9119, 2000 GB/T 2506-2005

Nominal Diameter	0.6MPa			1.0 MPa			1.6 MPa			2.5 MPa		
DN	D	D1	n-φ	D	D1	n-φ	D	D1	n-φ	D	D1	n-φ
25	100	75	4-φ11	115	85	4-φ14	115	85	4-φ14	115	85	4-φ14
32	120	90	4-φ14	140	100	4-φ18	140	100	4-φ18	140	100	4-φ18
40	130	100	4-φ14	150	110	4-φ18	150	110	4-φ18	150	110	4-φ18
50	140	110	4-φ14	165	125	4-φ18	165	125	4-φ18	165	125	4-φ18
65	160	130	4-φ14	185	145	8-φ18	185	145	8-φ18	185	145	8-φ18
80	190	150	4-φ18	200	160	8-φ18	200	160	8-φ18	200	160	8-φ18
100	210	170	4-φ18	220	180	8-φ18	220	180	8-φ18	235	190	8-φ22
125	240	200	8-φ18	250	210	8-φ18	245	210	8-φ18	270	220	8-φ26
150	265	225	8-φ18	285	240	8-φ22	285	240	8-φ22	300	250	8-φ26
200	320	280	8-φ18	340	295	8-φ22	340	295	12-φ22	360	310	12-φ26
250	375	335	12-φ18	395	350	12-φ22	405	355	12-φ26	425	370	12-φ30
300	440	395	12-φ22	445	400	12-φ22	460	410	12-φ26	485	430	16-φ30
350	490	445	12-φ22	505	460	16-φ22	520	470	16-φ26	555	490	16-φ33
400	540	495	16-φ22	565	515	16-φ26	580	525	16-φ30	620	550	16-φ36
450	595	550	16-φ22	615	565	20-φ26	640	585	20-φ30	D: Flange Outer Diameter D1: Bolt Hole Center Distance n: Number of Flange Holes φd: Bolt Diameter		
500	645	600	20-φ22	670	620	20-φ26	715	650	20-φ33			
600	755	705	20-φ26	780	725	20-φ30	840	770	20-φ36			
700	860	810	24-φ26	895	840	24-φ30	910	840	24-φ36			
800	975	920	24-φ30	1015	950	24-φ33	1025	950	24-φ39			
900	1075	1020	24-φ30	1115	1050	28-φ33	1125	1050	28-φ39			
1000	1175	1120	28-φ30	1230	1160	28-φ36	1255	1170	28-φ42			

Nominal Diameter	0.25MPa			0.6MPa			1.0 MPa		
DN	D	D1	n-φ	D	D1	n-φ	D	D1	n-φ
1200	1375	1320	32-φ30	1405	1340	32-φ33	1455	1380	32-φ39
1400	1575	1520	36-φ30	1630	1560	36-φ36	1675	1590	36-φ42
1600	1790	1730	40-φ30	1830	1760	40-φ36	1915	1820	40-φ48
1800	1990	1930	44-φ30	2045	1970	44-φ39			
2000	2190	2130	48-φ30	2265	2180	48-φ42			

