

南京静耐管道设备有限公司

NANJING JINGNAI PIPELINE EQUIPMENT CO., LTD

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忠于
初心

本手册仅用于说明系列产品的相关信息，随时可能因技术升级或采用新的生产工艺而改变手册的相关内容，或对于本手册中印刷错误不准确的信息进行重新修正，恕不另行通知。商家订货时请随时与我们联系，以证实最新信息。

沧州金业设计印刷 0317-3587488 1363178788



静耐管道
JING NAI GUAN DAO

Rubber flexible joint
Shock absorber
Compensator series

橡胶软接头、减震器、补偿器系列



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Brief Introduction

企业简介

南京静耐管道设备有限公司是一家专业生产、销售可曲挠橡胶接头、金属软管、补偿器、伸缩接头、减震器以及各种管道设备的企业。我公司具有一支经验丰富，精干和科研管理的生产队伍，拥有先进的生产设备和完善的检测仪器。

公司生产的系列产品严格按照国家标准和国外先进标准设计、生产、检验，产品技术指标均达到国内领先水平，产品具有设计先进，结构合理，体积轻巧，装卸方便等特点。广泛应用于石油、化工、钢铁、冶金、机械、交通、船舶、码头、建筑、造纸、电力等行业，产品以其稳定性、可靠性深受用户的好评与信赖。

公司自成立以来，坚持高起点、高质量、高标准的服务原则；并一贯坚持质量第一、用户至上、争创名牌的战略，利用先进的设备与先进的检测手段、多年的生产丰富经验为用户创造尽善尽美的产品。我们将真诚融入承诺、责任、信念之中，与每一位客户真诚相伴，集聚一流资源，实现合作双赢，创建一流品牌，实现共同辉煌。

BRAND OUTSTANDING COMES FROM QUALITY

品牌源自卓越品质

Nanjing Jingnai Pipeline Equipment Co., Ltd. is an enterprise specializing in producing and selling flexible rubber joints, metal hoses, compensators, expansion joints, shock absorbers and various pipeline equipment. Our company has an experienced, capable and scientific research management production team, advanced production equipment and perfect testing instruments.

The series of products produced by the company are designed, produced and tested in strict accordance with national standards and advanced foreign standards, and the technical indicators of the products have reached the leading level in China. The products have the characteristics of advanced design, reasonable structure, light volume and convenient loading and unloading. Widely used in petroleum, chemical industry, steel, metallurgy, machinery, transportation, ships, docks, construction, paper making, electric power and other industries, the products are highly praised and trusted by users for their stability and reliability.

Since its establishment, the company has adhered to the service principle of high starting point, high quality and high standard; And always adhere to the strategy of quality first, customer first and striving for famous brands, and create perfect products for users by using advanced equipment and advanced testing methods and years of rich experience in production. We will be sincerely integrated into the commitment, responsibility and belief, and sincerely accompany every customer, gather first-class resources, achieve win-win cooperation, create first-class brands and achieve common glory.

创新、执着、诚信、协作！
Innovation Persistence Integrity Cooperation

静耐管道
JING NAI GUAN DAO

COMPANY PRODUCTS

公司产品



KXT型可曲挠橡胶接头



KST-F 型
可曲挠双球橡胶接头



KYT 型
可曲挠同心异径橡胶接头



KPT型
可曲挠偏心异径橡胶接头



KKT型
卡箍式可曲挠橡胶接头



KWT型可曲挠橡胶弯头



KST-L型
丝扣双球体橡胶接头



KDT型翻边橡胶接头



鸭嘴阀



沟槽式金属软管



沟槽式波纹补偿器



JTW型金属软管



JDZ型通用波纹管



VSSJAF[C2F] 型
双法兰松套传力接头



VSSJA-2[B2F] 型
双法兰松套限位伸缩接头



AF[VSSJA] 型
法兰式松套伸缩接头



CC2F[VSSJAF] 型
可拆式双法兰传力接头



QJB型球型补偿器



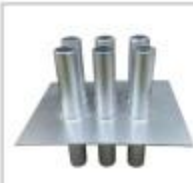
ZBY 直埋外压式
轴向波纹补偿器



柔性刚性防水套管



柔性刚性防水套管



组合电器套管



JSD型
低频橡胶隔震器



BE型
橡胶隔震器



ZD型
阻尼弹簧减振器



ZTF型
可调阻尼式弹簧减振器



HV型
阻尼弹簧吊式减振器



ZTY型
吊式弹簧减振器



JB型
低频可调阻尼弹簧减振器



ZGT型
阻尼弹簧减振(震)器

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RUBBER JOINT SERIES

橡胶接头系列



橡胶接头安装说明 Rubber Joint Installation Instructions

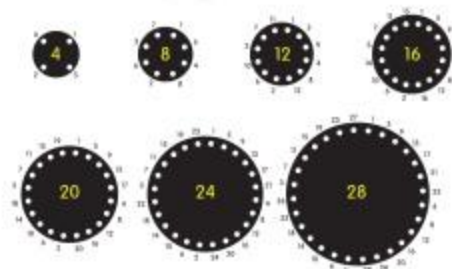
安装橡胶防震接头注意:

1. 橡胶接头应按产品自然长度安装, 严禁超位移极限安装。
2. 管道必须有固定支架或托架支撑, 橡胶接头两端都要有固定支架, 支架和橡胶接头离得越近越好。
3. 管道固定支架的力必须大于轴向力, 不能让接头承受管道自身重量和轴向力。
4. 请在产品允许范围内安装, 位移和偏斜超出范围会导致橡胶接头漏水、拉脱。
5. 螺栓应对角逐步拧紧, 过度拧紧会损坏密封面。
6. 管道压力或震动过大, 温度过高或固定支架不可靠时应加装防拉脱装置, 避免管道位移或震动导致橡胶接头拉脱或漏水。
7. 产品应在允许的温度、压力和介质范围内使用。
8. 与橡胶接头对接的管道法兰应采用标准专用法兰, 以保证密封接触良好, 法兰上的防锈机油要擦净, 防止腐蚀橡胶接头。管道法兰和管道焊接完毕冷却后才能安装接头, 严禁管道法兰和橡胶接头先连接再焊接管道, 会高温灼伤橡胶接头。
9. 螺纹连接的橡胶接头在安装时, 两端活接头禁止互换, 按原套安装, 安装时力度不能过大, 否则可能引起产品的泄露和损坏。

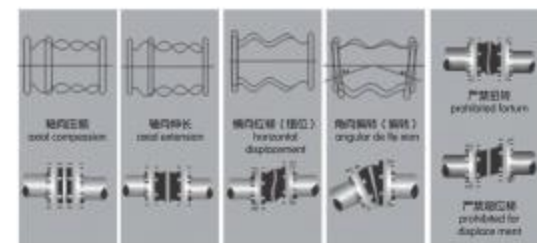
Installation Of Rubber And Shock Proof Joints:

1. The rubber joint shall be installed to natural products according to length and ultra displacement limit installation shall be strictly prohibited.
2. The pipe must have a fixed bracket or bracket, rubber joint at both ends to a fixed bracket, bracket and rubber joint is close to the more the better.
3. The pipe fixed stent force must be greater than the axial force, cannot make joint pipe under its own weight and axial force.
4. Please install in the product value scope displacement and deflection is beyond range can lead to rubber joint leakage pulled off.
5. Bolts should be diagonal gradually tight, too tight will damage the sealing surface.
6. Pipe pressure or vibration is too large, high temperature or fixed bracket should be equipped with unreliable pulled off device, avoid pipeline displacement or vibration cause rubber joint pulled off or leak.
7. Products should be in the allowed range of temperature, pressure and media use.
8. Docking with the rubber joint of the pipe flange should use special flange butterfly valve to ensure the sealing surface contact is good, the antirust oil on the flange to polishing the net, to prevent corrosion of rubber joints, pipe flanges and pipe welding and cooling ability after completion of installation joint, it is strictly prohibited to pipe flange and rubber joint connection first, then welded pipe, high temperature will burn rubber joint.
9. Rubber joint of threaded connection when installation, on both ends of the union banned swaps, according to the original set of installation, the installation strength cannot too much, otherwise may cause leak and damage of the product.

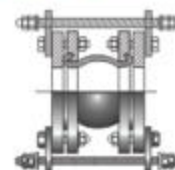
应对立逐渐拧紧螺帽/螺栓, 按下列顺序操作 Tighten Opposing Nuts/bolts Gradually According To The Following Sequence



可曲挠橡胶接头位移情况示意图 Displacement Chart Of Flexible Rubber Joint



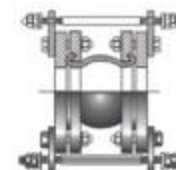
防拉脱装置图 Pulled Off Device



方式一
First Method



方式二
Second Method



方式三
Third Method

橡胶接头连接法兰说明 Rubber Joint Connecting Flange

请选择正确的法兰 Please choose The Right Flange



A. 采用正确的配套法兰防止损坏橡胶密封面
Flanges with correct ID hole prevent damage to rubber



B. 采用正确的焊接法兰防止损坏橡胶密封面
Weld neck flanges with correct ID prevent damage to rubber



C. 采用大口径内径平焊法兰时应安装一个小口径金属垫片可以防止损坏橡胶
In case of B,D,F an additional metal gasket can be used to prevent damage to rubber



法兰不能与橡胶密封面完全密封。损坏橡胶密封面。
Insure mating flange I.D. is flush with rubber

钢管与平焊法兰不平对橡胶密封面造成损坏
Steel pipe with flat welding flange uneven in the face of rubber sealing surface damage

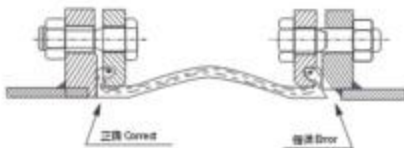
法兰内边损坏橡胶密封面
Inner edge of flanges damages rubber

与橡胶接头连接的反向法兰应选择蝶阀专用法兰

- 橡胶接头本体的密封面是否受损取决于反向法兰的形状，请参照上图及下图。
- 与橡胶接头连接的管道焊接反向法兰应选用蝶阀专用法兰（即小口径法兰）。
- 与橡胶接头连接的管道内径要与橡胶接头内径一致，这样密封面才能更好的对接、密封。
- 与橡胶接头连接的反向法兰不要使用表面有凸起的法兰，因凸起能和橡胶密封面的接触面积小，导致单位面积符合增大，密封面易受损。
- 与橡胶接头连接的反向法兰密封面要光滑平整不能有毛刺，需和橡胶密封面紧密配合，否则会有漏水、拉脱现象。

With Reverse Rubber Joint Connection Flange
Should Choose Special Flange Butterfly Valve

- Whether the sealing surface of rubber joint ontology easy damage depends on the shape of the reverse flange, please refer to the above and below.
- And rubber joint connection pipe welding reverse flange should choose special flange butterfly valve (i.e., small diameter flange).
- Connected with rubber joint of pipe diameter to the rubber joint diameter is consistent, in this way can we better docking, seal sealing surface.
- Reverse flange with rubber joint connections do not use surface is convex flange, because the base and the rubber sealing surface contact area is small, which resulted in increased load per unit area. Seal face easy damage.
- With reverse rubber joint connection flange sealing surface should be smooth level off there can be no burr, need to work closely and rubber seal face, otherwise there will be a leak, pulled off a phenomenon.



注明：请按照安装说明安装使用橡胶接头产品，如不当安装使用造成任何后果，概不负责！

please follow the installation instructions to install use rubber joint product, such as improper installation using any consequences, is not responsible for!

KXT型可曲挠橡胶接头 KXT Type Flexible Rubber Joint



材料表 Material list

序号 No	名称 Name	材料 Material
1	内外层胶 Inside and outside layer of glue	IR、CR、EPDM、NR/NBR
2	骨架 Skeleton	尼龙布 Nylon cord fabric
3	钢丝绳 Traveler	多股钢丝绳 More strands of wire rope
4	法兰 Flange	Q235

主要连接尺寸 Main Connecting Dimension

公称口径 DN Nominal diameter		长度 L (mm)	轴向位移 Axial displacement		横向位移 Horizontal displacement (mm)	偏转角度 Deflexion angle ($\alpha_2 + \alpha_1$) °		公称口径 DN Nominal diameter		长度 L (mm)	轴向位移 Axial displacement		横向位移 Horizontal displacement (mm)	偏转角度 Deflexion angle ($\alpha_2 + \alpha_1$) °
			伸长 (mm) Extension	压缩 (mm) Compression							伸长 (mm) Extension	压缩 (mm) Compression		
32	1/4	95	6	9	9	15°		1000	40	260	18	26	24	15°
40	1/2	95	6	10	9	15°		1200	48	260	18	26	24	15°
50	2	105	7	10	10	15°		1400	56	350	20	28	26	15°
65	2 1/2	115	7	13	11	15°		1600	64	350	25	35	30	10°
80	3	135	8	15	12	15°		1800	72	350	25	35	30	10°
100	4	150	10	19	13	15°		2000	80	420	25	35	30	10°
125	5	165	12	19	13	15°		2200	88	420	25	35	30	10°
150	6	180	12	20	14	15°		2400	96	420	25	35	30	10°
200	8	205	16	25	22	15°		2600	104	450	25	35	30	10°
250	10	230	16	25	22	15°		2800	112	450	25	35	30	10°
300	12	245	16	25	22	15°		3000	120	500	25	35	30	10°
350	14	255	16	25	22	15°								
400	16	255	16	25	22	15°								
450	18	255	16	25	22	15°								
500	20	255	16	25	22	15°								
600	24	260	16	25	22	15°								
700	28	260	16	25	22	15°								
800	32	260	16	25	22	15°								
900	36	260	16	25	22	15°								

注：1、DN350-1200PN=1.0MPa 2、DN32-300PN=1.6MPa

3、特殊要求请来函定制

4、高层供水使用本产品，管道必须有固定支撑或固定托架，否则产品应安装防拉脱装置，固定支撑或托架的力必须大于轴向力，否则也应安装防拉脱装置。

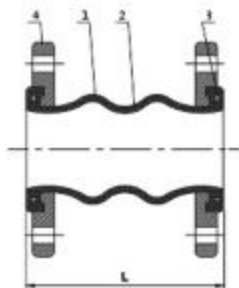
Notes: 1、DN350-1200PN=1.0MPa 2、DN32-300PN=1.6MPa

3、Please sent us letter and drawing for customization if you have a special requirements.

4、If this product is used for supplying water to high place, anti-pull-off device should be installed if the pipe has no fixed or fixed bracket or the force of fixed stay or fixed bracket is not larger than axial force.

KST-F 型可曲挠双球橡胶接头

KST-F Type In A Flexible Rubber Joint Double Sphere



技术条件 Technical Conditions

型号 Type	1	2	3
工作压力 MPa(kg/cm ²)	1.0 (10)	1.6 (16)	2.5 (25)
爆破压力 MPa(kg/cm ²)	3.0 (30)	4.8 (48)	5.5 (55)
真空度 KPa(mmHg)	53.3 (400)	86.7 (650)	100 (750)
适用温度℃ Temperature	-15~115, 特殊可达-30~250		
适用介质 Applicable medium	水、海水、蒸汽、油、酸、碱等 Water, sea water, steam, oil, acid, alkali etc.		

材料表 Material List

序号 No	名称 Name	材料 Material
1	内外层胶 Inside and outside layer glue	NR, NBR, EPDM
2	骨架 Skeleton	尼龙帘布 Nylon cord fabric
3	钢丝圈 Traveler	多股钢丝绳 More strands of wire rope
4	法兰 Flange	Q235

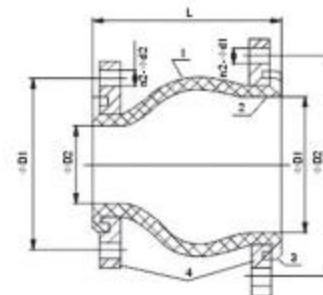
公称通径、长度、位移数值与法兰主要数据表

Nominal Diameter, Length And Displacement Values And Flange Main Data Table

公称通径 DN Nominal diameter	长度 L Length (mm)	螺栓数 Bolt num ber N	螺栓孔直径 Bolt hole diameter (mm)	螺栓孔中心距 Bolt hole center distance (mm)	轴向位移 Axial displacement		横向位移 Horizontal displacement (mm)	偏转角度 Deflection angle (α, α ₀)°
					伸长 Extension	压缩 Compression		
40	1/2	163	4	18	110	30	50	45°
50	2	165	4	18	125	30	50	45°
65	2 1/2	175	4	18	145	30	50	45°
80	3	175	8	18	160	30	50	45°
100	4	225	8	18	180	35	50	40°
125	5	225	8	18	210	35	50	40°
150	6	225	8	22	240	35	50	40°
200	8	325	8	22	295	35	60	35°
250	10	325	12	22	350	35	60	35°
300	12	325	12	22	400	35	60	35°
350	14	350	16	22	460	35	60	35°
400	16	350	16	26	515	35	60	35°
450	18	350	20	26	565	35	60	35°
500	20	350	20	26	620	35	60	35°
600	24	400	24	30	725	35	60	35°
700	28	400	34	30	840	35	60	35°

KYT 型可曲挠同心异径橡胶接头

KYT Type In A Flexible Concentric Reducer Rubber Head



技术条件 Technical Conditions

型号 Type	1	2	3
工作压力 MPa(kg/cm ²)	0.6 (6)	1.0 (10)	1.6 (16)
爆破压力 MPa(kg/cm ²)	1.8 (18)	3.0 (30)	4.8 (48)
真空度 KPa(mmHg)	40 (300)	53.3 (400)	86.7 (650)
适用温度℃ Temperature	-20~+115		
适用介质 Applicable medium	空气、压缩空气、水、海水、热水、强酸强碱等 Air, compressed air, water, sea water, hot water, weak acid, alkali etc.		

结构两端可任意偏转、便于自由调节轴向或横向位移。
Both ends of the structure can be arbitrary deflection free, easy to adjust the axial or lateral displacement.

材料表 Material List

序号 No	名称 Name	材料 Material
1	内外层胶 Inside and outside layer glue	11R, CR, EPDM, NR/NBR
2	骨架 Skeleton	尼龙帘布 Nylon cord fabric
3	钢丝圈 Traveler	多股钢丝绳 More strands of wire rope
4	法兰 Flange	Q235

公称通径、长度、位移数值与法兰主要数据表

Nominal Diameter, Length And Displacement Values And Flange Main Data Table

公称通径DN Nominal diameter		长度L Length (mm)	螺栓数 Bolt num ber N		螺栓孔直径 Bolt hole diameter (mm)		螺栓孔中心距 Bolt hole center distance (mm)		轴向位移 Axial displacement		横向位移 Horizontal displacement (mm)	偏转角度 Deflection angle (α, α ₀)°
(mm)	(吋in.)		n ₁	n ₂	d ₁	d ₂	D ₁	D ₂	伸长 Extension	压缩 Comprea		
65*50	2 1/2*2	150	4	4	17.5	17.5	145	125	7	10	10	15°
80*50	3*2	150	8	4	17.5	17.5	160	125	7	10	10	15°
80*65	3*2 1/2	150	8	4	17.5	17.5	160	145	7	13	11	15°
100*66	4*2 1/2	150	8	4	17.5	17.5	180	145	7	13	11	15°
100*80	4*3	150	8	8	17.5	17.5	180	160	8	15	12	15°
125*80	5*3	150	8	8	17.5	17.5	210	160	8	15	12	15°
125*100	5*4	150	8	8	17.5	17.5	210	180	10	19	13	15°
150*100	6*4	150	8	8	22	17.5	240	180	10	19	13	15°
150*125	6*5	150	8	8	22	17.5	240	210	12	19	13	15°
200*125	8*5	150	8	8	22	22	295	210	12	19	13	15°
200*150	8*6	200	8	8	22	22	295	240	12	20	14	15°
250*150	10*6	200	12	8	22	22	350	240	12	20	14	15°
250*200	10*8	200	12	8	22	22	350	295	16	25	22	15°
300*200	12*8	200	12	8	22	22	400	295	16	25	22	15°
300*250	12*10	200	12	12	22	22	400	350	16	25	22	15°

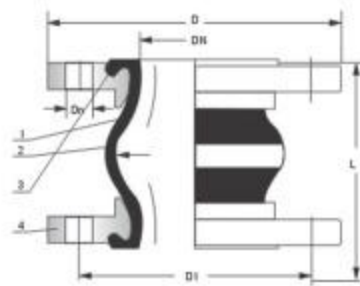
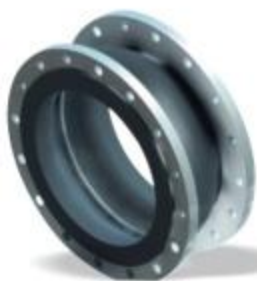
注: 1. 法兰标准采用 GB/T 9115.1-2000

2. 其他标准或非标准法兰需要另订协议, 每明标准或提供图纸及有关数据, 本厂可定制生产。

Note: 1. The flange is standard the GB/T 9115.1-2000;
2. Other standard or non-standard flange should be or dered another agreement, in dicat the standard or provide drawings and related data, the factory can be customized.

JIS 5K 10K 日标可曲挠橡胶接头

JIS 5K 10K Standard In A Flexible Rubber Joint



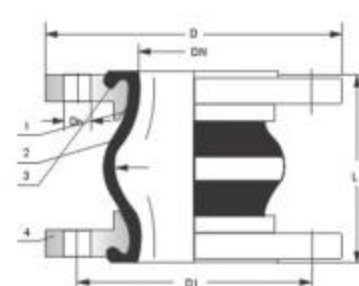
材料表 Material List

序号 No	名称 Name	材料 Material
1	内、外层胶 Outer/inner rubber	NR、NBR、EPDM
2	主体骨架 Key frame	尼龙帘布 Nylon cord fabric
3	增压环 Pressurized ring	多股钢丝绳 Steel wire strand
4	法兰 Flange	碳钢 Q235

公称通径DN Nominal diameter	寸 Inch	长度mm Length	法兰外径mm Outer diam eter- of flange		螺栓中心圆直径 Diameter of the central ring of the bolt		孔径mm Hole diam-eter-Φ		孔数 Quantity		轴向伸长 Extension	轴向压缩 Compress	轴向位移 Horizontal displacement	偏转角度 Deflection angle (α+α ₁)°
型号 Type	英寸	长度	5K	10K	5K	10K	5K	10K	5K	10K				
25	1	95	95	125	75	90	12	19	4	4	4	8	8	15°
32	1/4	95	115	135	90	100	15	19	4	4	4	8	8	15°
40	1/2	95	120	140	95	105	15	19	4	4	5	8	8	15°
50	2	105	130	155	105	120	15	19	4	4	5	8	8	15°
65	2 1/2	115	155	175	130	140	15	19	4	4	6	12	10	15°
80	3	135	180	185	145	150	19	19	4	8	6	12	10	15°
100	4	150	200	210	165	175	19	19	8	8	10	18	12	15°
125	5	165	235	250	200	210	19	23	8	8	10	18	12	15°
150	6	180	265	280	230	240	19	23	8	8	10	18	12	15°
200	8	210	320	330	280	290	23	23	8	12	14	25	15	15°
250	10	230	385	400	345	355	23	25	12	12	14	25	15	15°
300	12	245	430	445	390	400	23	25	12	16	14	25	15	15°
350	14	255	480	490	435	445	25	25	12	16	15	25	15	15°
400	16	255	540	560	495	510	25	27	16	16	15	25	15	12°
450	18	255	605	620	555	565	25	27	16	20	15	25	22	12°
500	20	255	655	675	605	620	25	27	20	20	16	25	22	12°
600	24	260	770	795	715	730	25	33	20	20	16	25	22	12°

150bar美标可曲挠橡胶接头

150bar Beautiful Mark In A Flexible Rubber Joint



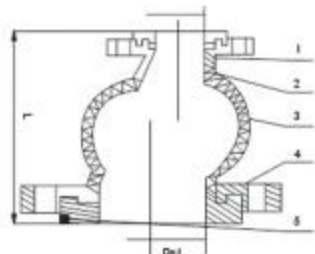
材料表 Material List

序号 No	名称 Name	材料 Material
1	内、外层胶 Outer/inner rubber	NR、NBR、EPDM
2	主体骨架 Key frame	尼龙帘布 Nylon cord fabric
3	增压环 Pressurized ring	多股钢丝绳 Steel wire strand
4	法兰 Flange	碳钢 Q235

公称通径DN Nominal diameter	寸 Inch	长度L(mm) Length	法兰外径(mm) Outer diam eter- of flange	螺栓中心圆直径 Diameter of the central ring of the bolt	孔径(mm) Hole diam-eter-Φ	孔数 Quantity	轴向伸长 Extension	轴向压缩 Compress	轴向位移 Horizontal displacement	偏转角度 Deflection angle (α+α ₁)°
型号 Type	英寸	长度	5K	10K	5K	10K	5K	10K	5K	10K
50	2	130	150	150	120.5	20	4	6	10	12
65	2 1/2	130	150	180	139.5	20	4	6	10	12
80	3	130	150	190	152.5	20	4	6	10	12
100	4	130	150	230	190.5	20	8	6	10	12
125	5	130	150	255	216	22	8	6	10	12
150	6	130	150	280	241.5	22	8	6	10	12
200	8	130	150	345	298.5	22	8	9	17	12
250	10	130	150	405	362	26	12	9	17	12
300	12	130	150	485	432	26	12	9	17	12
350	14	200		535	476	30	12	9	17	12
400	16	200		600	540	30	16	9	17	12
450	18	200		635	578	33	16	9	17	12
500	20	200		700	635	33	20	9	17	12
600	24	250		815	749.5	36	20	10	20	12

KPT型可曲挠偏心异径橡胶接头

KPT Type Can Be Qu Torsion Eccentric Reducing Rubber Joint



材料表 Material List

序号No.	名称 Name	材料 Material
1	外胶层 Arubber	IR, CR, EPDM, NR, NBR
2	内胶层 In the sub	IR, CR, EPDM, NR, NBR
3	骨架层 Skeleton layer	聚酯纤维 Polyester fibre cord
4	法兰 Flange	Q235 304 316L
5	增强圈 Strengthen the circle	钢丝圈 Stainless

公称通径、长度、位移参数表Nominal Diameter,Length And Displacement Parameter Table

公称通径 Nominal diameter	安装长度 The installation length	轴向位移 Axial displacement		径向位移 The radial displacement	偏转角度 Deflexion angle ($\alpha + \beta$)°	公称通径 Nominal diameter	安装长度 The installation length	轴向位移 Axial displacement		径向位移 The radial displacement	偏转角度 Deflexion angle ($\alpha + \beta$)°
		伸长 Elongation	压缩 Compression					伸长 Elongation	压缩 Compression		
DN ₁ × DN ₂						DN ₁ × DN ₂					
50 × 32	180	20	30	45	350	250 × 125	220	25	35	40	300
50 × 40	180	20	30	45	350	250 × 125	220	25	35	40	300
65 × 40	180	20	30	45	350	250 × 200	220	25	35	40	300
65 × 50	180	20	30	45	350	300 × 125	220	25	35	40	300
80 × 40	180	20	30	45	350	300 × 150	220	25	35	40	300
80 × 50	180	20	30	45	350	300 × 200	220	25	35	40	300
80 × 65	180	20	30	45	350	300 × 250	220	25	35	40	300
100 × 40	180	20	30	45	350	350 × 150	240	25	35	40	260
100 × 50	180	20	30	45	350	350 × 200	240	28	38	35	260
100 × 65	180	22	30	45	350	350 × 250	240	28	38	35	300
100 × 80	180	22	30	45	350	350 × 300	240	25	35	40	300
125 × 50	200	22	30	45	350	400 × 200	240	25	35	40	300
125 × 65	200	22	30	45	350	400 × 250	240	28	38	40	300
125 × 80	200	22	30	45	350	400 × 300	240	28	38	40	300
125 × 100	200	22	30	45	350	400 × 350	240	28	38	40	300
150 × 50	200	22	30	45	350	450 × 300	240	28	38	40	300
150 × 65	200	22	30	45	350	450 × 305	240	28	38	40	300
150 × 80	200	22	30	45	350	450 × 350	240	28	38	40	300
150 × 100	200	22	30	45	350	450 × 400	240	28	38	40	300
150 × 125	200	22	30	45	350	500 × 350	240	28	38	40	300
200 × 80	200	22	30	40	300	500 × 400	240	28	38	40	300
200 × 100	200	22	30	40	300	500 × 450	240	28	38	40	300
200 × 125	200	25	30	40	300	600 × 400	240	28	38	40	300
200 × 150	200	25	35	40	300	600 × 450	240	28	38	40	300

注：1. 特殊要求可来图定制，法兰连接可采用GB/T9115.1-2000标准或者
是其他国家标准，DN200和200以上接头必须配带蝶形法兰。

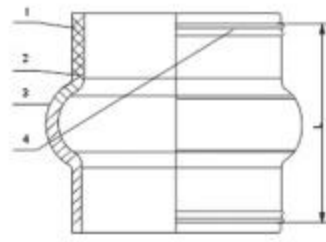
2. 悬空给水适用以上产品，管道必须有固定支撑或固定托架，否则产品
应安装防拉托装置。

Note: 1. The special request from custom, flange connection standard GB/T9115.1-2000 can be used or other national standards DN200 butterfly valve flange and
moer than 200 joint must be matched.

2. The impending water using the above products, pipe must have a fixed support
or fixed bracket, because otherwise the product should be installed into prevention device.

KKT型卡箍式可曲挠橡胶接头

KKT Type Clamp Can Be Flexible Rubber Joint



材料表 Material List

序号No.	名称 Name	材料 Material
1	外胶层 Arubber	IR, CR, EPDM, NR, NBR
2	内胶层 In the sub	IR, CR, EPDM, NR, NBR
3	骨架层 Skeleton layer	聚酯纤维 Polyester fibre cord
4	卡箍 Clamp	Q235 304 316L

公称通径、长度、位移参数表Nominal Diameter,Length And Displacement Parameter Table

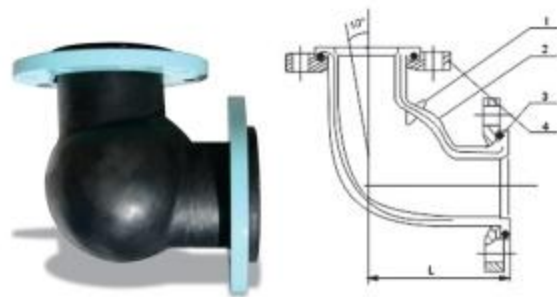
公称通径 Nominal diameter	安装长度 The installation length	轴向位移 Axial displacement		径向位移 The radial displacement	偏转角度 Deflexion angle ($\alpha + \beta$)°	公称通径 Nominal diameter	安装长度 The installation length	轴向位移 Axial displacement		径向位移 The radial displacement	偏转角度 Deflexion angle ($\alpha + \beta$)°
		伸长 Elongation	压缩 Compression					伸长 Elongation	压缩 Compression		
mm	英寸					mm	英寸				
50	2	180	7	10	15	500	20	200	16	25	15
65	2 1/2	180	7	13	15	600	24	200	16	25	15
80	3	180	8	15	15	700	28	200	16	25	10
100	4	180	10	19	15	800	32	200	16	25	10
125	5	180	12	19	15	900	36	200	16	25	10
150	6	180	16	20	15	1000	40	200	18	25	10
200	8	200	16	25	22	1200	48	200	18	25	10
250	10	200	16	25	22	1400	56	200	25	26	10
300	12	200	16	25	22	1600	64	200	20	26	10
350	14	200	16	25	22	1800	72	200	20	26	10
400	16	200	16	25	22	2000	80	200	20	26	10
450	18	200	16	25	22						

注：我们厂于2002年根据用户的需求研制开发了卡箍式橡胶接头，采用卡箍
来代替法兰盘和螺栓，使用时，可方便地将卡箍式橡胶接头的两端分别
套接在要连接的管道上，通过不锈钢卡箍将橡胶接头与管道固定连接；拆
卸时松开卡箍即可。从而达到补偿管道因热胀冷缩、输水所产生的位移
量之目的。它与一般的橡胶接头相比，有以下几个特点：
1、卡箍式橡胶接头节省了法兰盘和螺栓，节约了工程的开支。
2、卡箍式橡胶接头管口处不需要翻边，简化了工作的效率。
3、卡箍式橡胶接头简化了安装维修工作，提高了工作效率。
4、卡箍采用不锈钢制作，具有耐腐蚀等特点通径从DN50-500mm
安装长度参照JGD(KST)-D执行或按照用户需要设计。
5、压力等级从0.25MPa-1.0MPa。

Note: in 2002, our factory according to the needs of users developed the
clamp rubber joint, clamp is used to instead of flange and bolt, when using,
Easily suit respectively in the two end of clamp rubber joint to connect line,
through the stainless steel clamp to fix rubber joint and pipeline connection.
Loosen the clamp when removed. Compensation pipeline due to the heat
bilges cold shrink, so as to achieve the purpose of the water produced by the
displacement. It is compared with the general rubber joint. Has the following
features:
1. Flange and bolt clamp rubber joint saved, save the expenditure of the project
2. Clamp rubber joint pipe mouth does not need flanging, simplify the work
efficiency.
3. The clamp rubber joint simplifies the installation and maintenance work,
improve the work.

KWT型可曲挠橡胶弯头

KWT Type In A Flexible Rubber Pipe Bend


材料表 Material List

序号No	名称 Name	材料 Material
1	内外层胶 Ins side and outside layer of glue	NR, CR, EPDM, NBR
2	骨架 Skeleton	尼龙布 Nylon cord fabric
3	钢丝圈 Traveler	多股钢丝绳 More strands of wire rope
4	法兰 Flange	Q235

技术条件 Technical Conditions

项目 Item	型号 Type	WTX-1	WTX-2	WTX-3
工作压力 MPa/kg f/cm ² Working Pressure		1.0(10)	1.6(16)	2.5(25)
爆破压力 MPa/kg f/cm ² Explosion Pressure		2.0(20)	3.2(32)	4.5(45)
真空度 KPa/mmHg Vacuum		53.3(400)	86.7(650)	100(750)
适用温度 °C Applicable Temperature °C		-15~115, 特殊可达 -300~250~-15~155, (for spwcoal conditions) It can be -30~250		
适用介质 Applicable Media		空气、压缩空气、水、海水、热水、油、酸、碱等 Air, compressed air, water, sea water, hot water, oil, acid alkali etc		

注：主要零件材料同JGD型 Note: material of main components is as same as JGD type

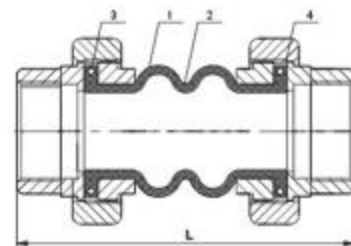
公称通径、长度、位移数值与法兰主要数据表 Nominal Diameter, Length And Displacement Values And Flange Main Data Table

公称通径 DN Nominal diameter		长量 L Length (mm)	螺栓数 Bolt number N	螺栓孔直径 Bolt hole diameter (mm)	螺栓中心圆直径 Diameter of the central ring of the bolt	各项允许位移 mm The allowed displacement					
(mm)	(in.)					X'	X'	Y	Y'	Z	Z'
50	2	150	4	18	125	20	16	20	16	20	16
65	2 1/2	150	4	18	145	20	16	20	16	20	16
80	3	160	8	18	160	20	16	20	16	20	16
100	4	170	8	18	180	20	16	20	16	20	16
125	5	200	8	18	210	20	16	20	16	20	16
150	6	230	8	22	240	20	16	20	16	20	16
200	8	265	8	22	295	20	16	20	16	20	16
250	10	280	12	22	350	20	16	20	16	20	16
300	12	320	12	22	400	20	16	20	16	20	16

注：其他标准或非标准法兰需提供图样或数据，该厂可定制供货。上表中法兰螺栓数、螺栓孔直径、螺栓中心圆直径按GB9119 1.0 MPa
Note: other standard or non-standard flange must provide drawings or data, the factory can be customized. Flange bolts number in the table above.
Central circle diameter of bolt hole diameter, bolt hole by GB9119 1.0 MPa

KST-L型丝扣双球体橡胶接头

KST-L Thread Double Sphere Rubber Joint


材料表 Material List

序号No	名称 Name	材料 Material
1	内、外层胶 Outer/inner rubber	NR, NBR, EPDM
2	主体骨架 Key frame	尼龙布 Nylon Cord Fabric
3	增压环 Pressurized ring	钢丝绳 Steel wire
4	螺纹活接头 Thread woggle joint	可锻铸铁 Forged cast iron

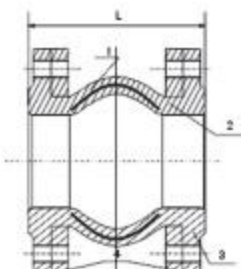
技术条件 Technical Conditions

工作压力 Working Pressure	1.0 MPa(10 Kg f/cm ²)	偏转角度 Deflexion angle	(α ₁ +α ₂) 45°
爆破压力 Explosion Pressure	3.0 MPa(30 Kg f/cm ²)	真空度 vacuum	53.3 KPa(400 mmHg)
适用温度 Applicable Temperature °C	-15~+115°C, 特殊可达 -30~+250°C~-15~150°C (for special conditions) It can be -30~+250°C		
适用介质 Applicable Media	水、海水、热水、空气、压缩空气、油、酸、碱等 Water, sea water, hot water, air, compressed air, oil, acid, alkali etc		

主要连接尺寸 The main connection size

公称通径 DN Nominal diameter		长量 L Length (mm)	轴向位移 Axial displacement		横向位移 Horizontal displacement (mm)	偏转角度 Deflexion angle (α ₁ +α ₂)°
mm	Inch		伸长 Extension	压缩 Compression		
20	3/4	200	5~6	22	22	45°
25	1	200	5~6	22	22	45°
32	1 1/4	200	5~6	22	22	45°
40	1 1/2	210	5~6	22	22	45°
50	2	220	5~6	22	22	45°
65	2 1/2	240	8~10	24	24	45°
80	3	285	8~10	24	24	45°

KDT型翻边橡胶接头 KDT Flanging Rubber Joint



材料表 Material List

序号No	名称 Name	材料Material
1	内、外层胶 Outer/inner rubber	NR、NBR、EPDM
2	主体骨架 Key frame	尼龙帘布 Nylon cord fabric
3	端压环 Pressurized ring	多股钢丝绳 Steel wire strand
4	法兰 Flange	碳钢 Q235

公称通径、长度、位移数值与法兰主要数据表

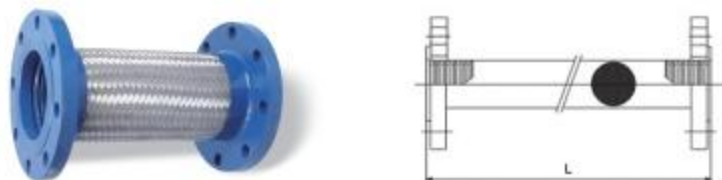
Nominal Drift Diameter, Length, Displacement Value And The Flange Main Data Table

公称通径 Nominal Diameter DN(mm)	长度 Length L(mm)	轴向压缩 Compression (mm)	轴向拉伸 Stretch (mm)	横向位移 displacement	偏转角度 Deflection 度
50	105	8	5	8	15°
65	115	12	6	10	15°
80	135	12	6	10	15°
100	150	18	10	12	15°
125	165	18	10	12	15°
150	180	18	10	12	15°
200	210	25	14	15	15°
250	230	25	14	15	15°
300	245	25	14	15	15°
350	255	25	15	15	15°
400	255	25	15	15	12°
450	255	25	15	22	12°
500	255	25	16	22	12°
600	260	25	16	22	12°
700	260	25	16	22	12°
800	260	25	16	22	12°
900	260	25	16	22	10°
1000	260	25	16	22	10°
1200	260	26	18	24	10°
1400	350	28	20	26	10°
1600	350	35	25	30	10°
1800	350	35	25	30	10°
2000	420	35	25	30	10°
2200	420	35	25	30	10°
2400	420	35	25	30	10°
2600	450	35	25	30	10°
2800	450	35	25	30	10°

METAL HOSE/ SERLES COMPENSATOR 金属软管/补偿器系列



JTW型金属软管 JTW Type Metal Hose



产品介绍 Product Introduction

JTW金属软管（简称软管）是现代工业管路中的一种高品质的柔性管道。它主要有波纹管、网套和接头组成。它的内管是具有螺旋形或环形的薄壁不锈钢波纹管，波纹管外层的网套，是由不锈钢或钢丝按一定的参数编织而成。软管两端的接头或法兰是与客户管道的接头或法兰相配的。

波纹金属软管具有良好的柔软性、抗疲劳性、耐高低温、耐腐蚀性等诸多特性，它相对其他软管（橡胶、塑胶软管）的寿命就要高出许多，故它具有较高的综合经济效益。随着现代工业的发展，对耐高湿、耐高压的波纹金属软管的需求量是越来越大。

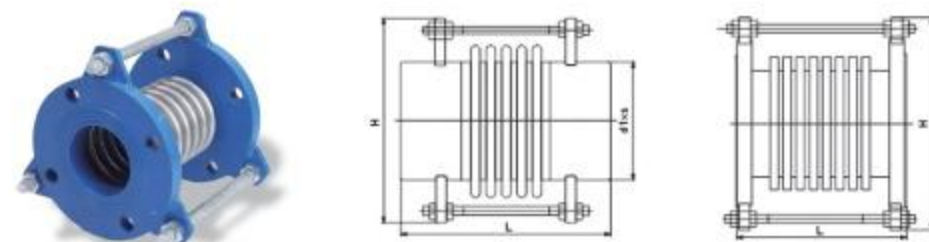
软管使用范围：需要充分挠性的输送管，防止振动处所配管，对蒸汽、煤气、空气、重油、石油、化工药品等均使用。

JTW-type metal hose(hose for short) is high-qualified flexible pipe among the modern industrial pipes. It is composed mainly of corrugated pipe, braid and joint. Its internal pipe is helical or circular thin-walled stainless steel corrugated pipe, and the braid covering the corrugated pipe is woven with stainless steel wire or steel belt according to specific parameters. The joints or flanges on both ends of the hose are matching the joints or flanges of customer's pipe. With good flexibility, fatigue resistance, high temperature resistance, high and low temperature resistance, corrosion resistance and other many features, corrugated flexible metal pipe has a longer service life than other hose/rubber or plastic hose, so it has high overall economic efficiency. With the development of modern industry, the demand for heat-resisting and high pressure-resisting corrugated flexible metal pipe will become larger and larger. Range of application: conveying pipe needing full flexibility, mating pipe for vibration prevention. And it also used in the industries of vapor, coal gas, air, heavy oil, Petroleum and chemicals and so on.

主要连接尺寸 The Main Connection Size

公称通径DN Nominal diameter	内径 (mm)	外径mm OD		最小弯曲半径 Nominal diameter		最高工作压力MPa Nominal diameter	
		波纹管 Bellows	带一层网套 Cover with a layer of net work	静态 Bellows	动态 Bellows	一层网套 Nominal	二层网套 Nominal
8	8.8	13.2	14.4	50	110	15	20
10	11.7	16.5	17.7	65	145	15	20
15	13.5	19.5	21.1	80	180	15	20
20	20.0	27	28.6	120	270	10	15
25	27.0	34.5	36.1	160	360	6.3	10
32	32.0	40	41.6	175	400	4.0	6.3
40	39.6	52	53.6	225	510	4.0	6.3
50	49.7	62	63.6	280	640	3.0	5.0
65	61.2	80.2	81.8	410	915	3.0	5.0
80	79.0	96.3	97.8	486	1030	3.0	5.0
100	101.2	119.6	121.2	610	1340	2.5	4.0
125	124.1	145.3	146.9	700	1540	2.5	4.0
150	149.4	180.8	182.4	810	1780	2.5	4.0
200	176.0	240	243.2	1000	2000	2.5	4.0
250	248.0	290	294	1250	2500	2.5	4.0
300	298.0	350	354	1500	3000	1.6	2.5
350	347.0	400	404.8	1750	3500	1.6	2.5
400	397.6	460	464.8	2000	4000	1.6	2.5

JDZ型通用波纹管 JDZ-type General Corrugated Pipe

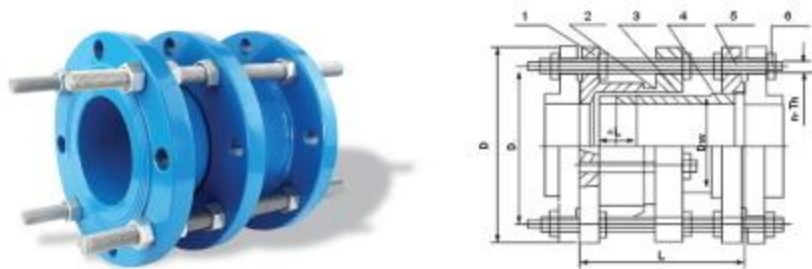


主要连接尺寸 The main connection size

公称通径DN Nominal diameter	波数 quantity of ripple	压力等级MPa Pressure level					波纹管有效面积cm ² Effective area of corrugated tube	最大外径尺寸 Maximum nominal diameter (mm)	长度Length	
		0.25	0.6	1.0	1.6	2.5			法兰JZ/F Flange JZ/F	接管JZ/J Connection tube JZ/J
32	8	25/21	22/26	20/26	18/63		16	225	160/250	264/260
32	16	50/11	46/14	41/14	36/32		16	225	224/291	316/321
40	8	25/28	22/44	20/44	18/89	15/98	23	244	164/259	269/289
40	16	50/14	46/22	41/22	36/45	21/47	23	244	230/304	319/334
50	8	25/30	22/51	20/70	18/70	15/106	37	259	172/276	282/306
50	16	50/16	46/26	41/35	36/35	31/55	37	259	240/342	347/372
65	8	33/28	30/35	26/44	22/55	15/138	55	270	215/294	330/322
65	12	42/16	38/22	38/32	34/40	21/70	55	270	260/334	340/362
80	8	40/20	36/26	34/33	28/41	19/68	81	284	240/338	355/366
80	10	53/14	49/17	49/21	43/26	29/50	81	284	270/368	374/390
100	8	45/47	45/60	40/75	35/93	25/54	121	304	235/317	323/345
100	10	76/26	74/32	64/40	57/50	38/33	121	304	305/381	384/409
125	5	48/38	42/47	38/59	34/74	29/117	180	334	282/314	316/342
125	9	85/23	77/29	66/36	58/45	49/63	180	334	382/386	388/414
150	5	49/42	44/50	40/62	34/78	29/92	257	364	282/339	338/367
150	8	78/34	71/43	64/51	54/59	50/56	257	364	356/399	402/427
200	4	52/49	46/55	42/68	38/78	29/97	479	442	280/348	348/372
200	6	73/31	65/44	59/52	53/58	45/65	479	442	340/402	402/426
250	4	72/30	65/54	59/42	52/45	34/111	769	507	315/379	415/379
250	6	108/16	97/21	87/35	79/39	48/78	769	507	393/459	493/399
300	4	72/51	65/55	59/59	52/65	47/55	1105	562	366/427	466/467
300	6	108/32	97/35	87/37	79/41	71/47	1105	562	464/525	564/565
350	4	72/58	65/62	59/67	52/74	47/71	1307	622	397/452	497/492
350	6	108/38	97/41	87/4	79/46	71/45	1307	622	509/564	609/604
400	4	72/54	65/58	59/62	52/68	47/81	1611	700	412/478	512/518
400	6	108/36	97/39	87/43	79/47	74/47	1611	700	522/586	622/628
450	4	108/32	97/35	87/37	79/41	47/75	1972	760	403/498	503/523
450	6	162/20	145/22	133/23	118/25	71/52	1975	760	503/658	608/648
500	4	108/59	97/64	87/68	79/75	71/45	2445	835	431/502	531/554
500	6	162/34	145/37	133/39	118/43	106/25	2445	835	531/645	631/742
600	4	108/74	97/80	87/85	79/94	71/82	3534	980	478/548	597/588
600	6	162/42	145/45	133/49	118/53	106/48	3534	980	558/679	738/781
700	4	108/67	97/72	84/77	79/85	71/103	4717	1130	490	590
700	6	162/42	145/45	133/49	118/53	106/60	4717	1130	690	790
800	4	120/88	108/95	102/102	94/112	71/95	5822	1265	502	602
800	6	183/67	162/72	156/77	144/85	106/60	5822	1265	612	710
900	4	120/84	108/90	102/97	94/107	82/123	7620	1386		698
900	6	183/60	164/65	156/69	144/76	125/93	7620	1386		850
1000	4	120/91	108/98	102/105	94/116	82/117	9043	1286		692
1000	6	183/59	164/65	156/71	144/81	125/84	9043	1286		855

VSSJAF(C2F) 型双法兰松套传力接头

VSSJAF(C2F) Double Flange Power Delivery Joint



材料表 Material list

序号 No	名称 Name	数量 Quantity	材料 Material
1	本体 Valve body	1	Q1450-10、Q235A
2	密封圈 Gasket	1	NBR
3	压盖 follower	1	Q1450-10、Q235A
4	限位短管 limited short pipe	1	Q235A
5	螺栓 stud	n	Q235A、35#
6	螺母 nut	Tn	Q235A、20#

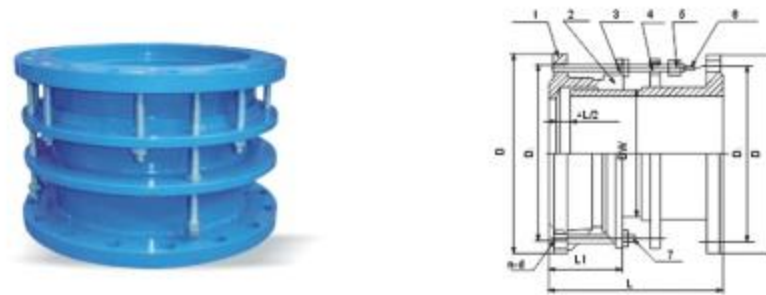
主要连接尺寸 The Main Connection Size

公称通径 DN nominal diameter	管子外径 DW External diameter of pipe	外形尺寸 Shape dimension L	ΔL	法兰连接尺寸 flange connection size							
				0.6MPa				1.0MPa			
				D	D ₁	n-Th	b	D	D ₁	n-Th	b
65	76	200	40	160	130	4-M12	16	185	145	4-M16	20
80	89			190	150	4-M16	18	200	160		22
100	114			210	170	8-M16	18	220	180	8-M16	24
125	140			240	200	12-M16	20	250	210		26
150	168			265	225	12-M20	20	285	240	8-M20	26
200	219			320	280	16-M20	22	340	295		28
250	273			375	335	20-M20	24	395	350	12-M20	28
300	325			440	395	20-M24	24	445	400	12-M20	28
350	377			490	445	24-M24	26	505	460	16-M20	30
400	426			540	495	24-M27	28	565	515	16-M24	32
450	480	220	50	595	550	24-M27	28	615	565	20-M24	32
500	530			645	600	28-M27	30	670	620	20-M24	34
600	630			755	705	32-M30	30	780	725	20-M27	36
700	720			860	810	36-M33	32	895	840	24-M27	40
800	820			975	920	40-M33	34	1015	950	24-M30	44
900	920			1075	1020	44-M36	36	1115	1050	28-M30	46
1000	1020			1175	1120	48-M39	36	1230	1160	28-M33	50
1200	1220			1405	1340	52-M39	40	1455	1380	32-M36	56
1400	1420			1630	1560	56-M39	44	1675	1590	36-M39	62
1600	1620			1830	1760	60-M45	48	1915	1820	40-M45	68
1800	1820	380	60	2045	1970	64-M45	50	2115	2020	44-M45	70
2000	2020			2265	2180	68-M45	54	2325	2230	48-M45	74
2200	2220			2475	2390	72-M45	60	2550	2440	52-M52	80
2400	2420			2685	2600		62	2760	2650	56-M52	82
2600	2620			2905	2810		64	2960	2850	60-M52	88
2800	2820			3115	3020		68	3180	3070	64-M52	94
3000	3020			3315	3220		70	3405	3290	68-M56	100
3200	3220			3525	3430		76				

注：本尺寸符合GB/T12465-2007标准 Note the size meets standard GB/T12465-2007

VSSJA-2(B2F)型双法兰松套限位伸缩接头

VSSJA-2(B2F) Double Flange Limited Telescopic Joint



材料表 Material List

序号 NO	名称 Name	数量 Quantity	材料 Material
1	本体 Valve body	1	Q1450-10、Q235A
2	密封圈 Gasket	1	NBR
3	压盖 follower	1	Q1450-10、Q235A
4	限位短管 limited short pipe	1	Q235A
5	螺母 nut	4n	Q235A、20#
6	长螺栓 long stud	n	Q235A、35#
7	短螺栓 short stud	n	Q235A、35#

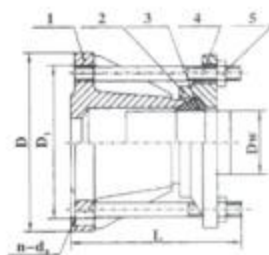
主要连接尺寸 The Main Connection Size

公称通径 DN nominal diameter	管子外径 DW External diameter of pipe	外形尺寸 External dimension L	伸缩量 ΔL Compensation Length	法兰连接尺寸 flange connection size							
				0.6MPa				1.0MPa			
				D	D ₁	n-d	b	D	D ₁	n-d	b
65	76	340	105	160	130	4-Φ14	185	145	4-Φ18		
80	89			190	150		200	160			
100	108			210	170	4-Φ18	220	180			
125	133			240	200		250	210	8-Φ18		
150	140			265	225		285	240			
200	219			320	280		340	295			
250	273			375	335	12-Φ18	395	350			
300	325			440	395		445	400	12-Φ22		
350	377			490	445	12-Φ22	505	460	16-Φ22		
400	426			540	495		565	515	16-Φ26		
450	480	370	130	595	550	16-Φ22	615	565	20-Φ26		
500	530			645	600	20-Φ22	670	620	20-Φ26		
600	630			755	705	20-Φ26	780	725	20-Φ30		
700	720			860	810	24-Φ26	895	840	24-Φ30		
800	820			975	920	24-Φ30	1015	950	24-Φ33		
900	920			1075	1020		1115	1050	28-Φ33		
1000	1020			1175	1120	28-Φ30	1230	1160	28-Φ33		
1200	1220			1405	1340	32-Φ33	1455	1380	32-Φ40		
1400	1420			1630	1560		1675	1590	36-Φ42		
1500	1520			1730	1660	36-Φ36					
1600	1620	640	220	1830	1760	40-Φ36	1915	1820	40-Φ48		
1800	1820			2045	1970	44-Φ40	2115	2020	44-Φ48		
2000	2020			2265	2180	48-Φ42	2325	2230	48-Φ48		
2200	2220			2475	2390	52-Φ42	2550	2440	52-Φ56		
2400	2420			2685	2600	56-Φ42	2760	2650	56-Φ56		
2600	2620			2905	2810	60-Φ48	2960	2850	60-Φ56		
2800	2820			3115	3020	64-Φ48	3180	3070	64-Φ56		
3000	3020			3315	3220	68-Φ48	3405	3290	68-Φ60		
3200	3220			3525	3430	72-Φ48					
3400	3420			3735	3640	76-Φ48					
3600	3620			3970	3860	80-Φ56					

注：本尺寸符合GB/T12465-2007标准 Note: the size meets standard GB/T12465-2007

AF[VSSJA]型法兰式松套伸缩接头

AF[VSSJA] Flange-Sleeve Telescopic Joint



序号No.	名称Name	数量Quantity	材料Material
1	本体Body	1	QT400-15, Q235A, ZG230-450, 1Cr13, 20
2	压盖Cover	1	QT400-15, Q235A, 20, ZG230-450, 1Cr13,
3	密封圈Gasket	2	NBR, CR, FPM, NR
4	螺栓Bolt	n	Q235A, 35, 1Cr18Ni9Ti
5	螺母Nut	n	Q235A, 20, 1Cr18Ni9Ti

主要连接尺寸 The Main Connection Size

公称通径 Nominal Diameter DN	管子外径 External diameter of pipe DW	长度Length		法兰连接尺寸Flange connecting dimension								
		L ₁	ΔL	0.25Mpa			0.6Mpa			1.0Mpa		
				D	D ₁	n-φd	D	D ₁	n-φd	D	D ₁	n-φd
65	76	118		160	130	4-φ14	160	130	4-φ14	185	145	4-φ18
80	89			190	150		190	150		200	160	
100	108 114			210	170	4-φ18	210	170	4-φ18	220	180	8-φ18
125	133 140	105	123	240	200		240	200		250	210	
150	159 168			265	225	8-φ18	260	225	8-φ18	285	240	8-φ22
200	219			320	280		320	280		340	295	
250	273	130	130	375	335	12-φ18	375	335	12-φ18	395	350	12-φ22
300	325			440	395		440	395		445	400	
350	355 377			490	440	12-φ22	490	445	12-φ22	505	460	12-φ22
400	406 426	130	160	540	495	16-φ22	540	495	16-φ22	565	515	16-φ22
450	457 480			595	550	16-φ22	595	550	16-φ22	615	565	16-φ26
500	508 530			645	600	20-φ22	645	600	20-φ22	670	620	20-φ26
600	610 630			755	705	20-φ26	100	705	20-φ26	780	725	20-φ30
700	720			860	810	24-φ26	860	810	24-φ26	895	840	24-φ30

公称通径 Nominal Diameter DN	管子外径 External diameter of pipe DW	长度Length		法兰连接尺寸Flange connecting dimension								
		L ₁	L	0.25Mpa			0.6Mpa			1.0Mpa		
				D	D ₁	n-φd	D	D ₁	n-φd	D	D ₁	n-φd
800	820	225		975	920		975	920		1015	950	24-φ33
900	920			1075	1020	24-φ30	1075	1020	24-φ30	1115	1015	28-φ33
1000	1020			1175	1120	28-φ30	1175	1120	28-φ30	1230	1160	28-φ36
1200	1220			1375	1320	32-φ30	1405	1340	32-φ33	1455	1380	32-φ40
1400	1420	220		1575	1520	36-φ30	1630	1560	36-φ36	1675	1590	36-φ42
1600	1620			1790	1730	40-φ30	1830	1760	40-φ36	1915	1820	40-φ48
1800	1820			1990	1930	44-φ30	2045	1970	44-φ40	2115	2020	44-φ48
2000	2020			2190	2130	48-φ30	2265	2180	48-φ42	2325	2230	48-φ48
2200	2220	275		2405	2340	52-φ33	2475	2390	52-φ42	2550	2440	52-φ56
2400	2420			2605	2540	56-φ33	2685	2600	56-φ42	2760	2650	60-φ56
2600	2620			2805	2740	60-φ33	2905	2810	60-φ48	2960	2850	60-φ56
2800	2820			3030	2960	64-φ36	3115	3020	64-φ48	3180	3070	64-φ56
3000	3020	240	300	3230	3160	68-φ36	3315	3220	68-φ48	3405	3290	68-φ60
3200	3220			3530	3360	72-φ36	3525	3430	72-φ48			
3400	3420			3630	3560	76-φ36	3735	3640	76-φ48			
3600	3620			3840	3770	80-φ36	3970	3860	80-φ56			
3800	3820			4045	3970	80-φ39						
4000	4020			4245	4170	84-φ39						

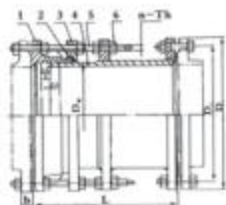
注：本尺寸符合GB/T12465-2002标准
Note: The size meets standard GB/T12465-2002.

法兰式松套伸缩接头：松套伸缩节安装在管道上后，拧紧螺母弹性密封圈，在螺母压盖的作用下相互斜度，紧压在管子外圈起密封和链接作用。当温度变化时管子能在接头中间自由的伸缩，当地基下沉，管子能偏斜，并确保持密封无泄漏，从而起到自动补偿之目的。

Flange-type loose sleeve expansion joint: After the loose sleeve expansion joint is installed on the pipeline, tighten the elastic sealing ring of the nut, and under the action of nut gland, they are inclined to each other and tightly pressed against the outer ring of the pipe to play the role of sealing and linking. When the temperature changes, the pipe can freely expand and contract in the middle of the joint, and when the foundation sinks, the pipe can deflect, and the seal is ensured to be leak-free, thus achieving the purpose of automatic compensation.

CC2F(VSSJAF)型可拆式双法兰传力接头

CC2F(VSSJAF) Dismantling Double Flange Transmission Joint



序号No.	名称Name	数量Quantity	材料Material
1	本体Body	1	QT400-15, Q235A, ZG230-450, 20
2	密封圈Gasket	1	NBR
3	压盖Cover	1	QT400-15, Q235A, ZG230-450, 20
4	短管法兰Limited short pipe	1	Q235A, 20, 16Mn
5	螺栓Bolt	n	Q235A, 35, 1Cr18Ni9Ti
6	螺母Nut	5n	Q235A, 20, 1Cr18Ni9Ti

主要连接尺寸 The Main Connection Size

公称口径 Nominal Diameter DN	管子外径 External diameter of pipe DW	外形尺寸 Length L	△L	法兰连接尺寸Flange connecting dimension							
				0.6Mpa				1.0Mpa			
				D	D ₁	n~Th	b	D	D ₁	n~Th	b
65	76	400	40	160	130	4-M12	16	185	145	4-M16	20
80	89			190	150	4-M16	18	200	160	8-M16	22
100	114			210	170	8-M16	20	220	180	8-M16	24
125	140			240	200	8-M16	22	250	210	8-M20	26
150	168			265	225	8-M16	24	285	240	8-M20	28
200	219	420	50	320	280	12-M16	26	340	295	16-M20	30
250	273			375	335	12-M16	28	395	350	12-M20	32
300	325			440	395	12-M20	30	445	400	16-M20	34
350	377			490	445	12-M20	32	505	460	16-M20	36
400	426			540	495	12-M20	34	565	515	16-M20	38
450	480	440	60	595	550	20-M20	36	615	565	20-M20	40
500	530			645	600	20-M20	38	670	620	20-M20	42
600	630			755	705	20-M24	40	780	725	20-M27	44
700	720			860	810	24-M24	42	895	840	24-M27	46
800	820			975	920	24-M27	44	1015	950	24-M30	48
900	920	600	70	1075	1020	28-M27	46	1115	1050	28-M30	50
1000	1020			1175	1120	32-M30	48	1230	1160	32-M33	52
1200	1220			1405	1340	36-M33	50	1455	1380	36-M36	54
1400	1420			1630	1560	40-M33	52	1675	1590	36-M39	56
1600	1620			1830	1760	44-M33	54	1915	1820	40-M45	58
1800	1820	730	80	2045	1970	48-M39	56	2115	2020	44-M45	60
2000	2020			2265	2180	52-M39	58	2325	2230	48-M45	62
2200	2220			2475	2390	56-M39	60	2550	2440	52-M52	64
2400	2420			2685	2600	60-M45	62	2760	2650	56-M52	66
2600	2620			2905	2810	64-M45	64	2960	2850	60-M52	68
2800	2820	840	80	3115	3020	68-M45	66	3180	3070	64-M56	70
3000	3020			3315	3220	72-M45	68	3405	3290	68-M56	72
3200	3220			3525	3430	72-M45	70	3615	3500	72-M56	74

注：本尺寸符合GB/T12465-2002标准 Note: The size meets standard GB/T12465-2002

可拆式双法兰传力接头 安装在管道上后，根据所需的伸缩距离进行限位，拧紧螺母，弹性密封圈在螺母压盖的作用下依靠相互斜度紧压在管子外圈起密封和连接作用，主要和管道阀门连接不但起到管道补偿作用，更方便了阀门的维修及更换。

Detachable double-flange force transmission joint: after being installed on the pipeline, it is limited according to the required telescopic distance, and the nut is tightened. The elastic sealing ring is tightly pressed on the outer ring of the pipe by mutual inclination under the action of nut gland, which plays a sealing and connecting role. The main connection with the pipeline valve not only plays a role in pipeline compensation, but also facilitates the maintenance and replacement of the valve.

QJB型球型补偿器

QJB Spherical Compensator

性能特点 Features

球型补偿器主要适用于地面沉降大、震动大、地形复杂的管道连接，安装在管道上后，球体可以以回转中心在θ角范围内自由转动，来补偿管道因地基沉降、热胀冷缩引起的挠曲。具有补偿量大，占据空间小，流体阻力小，安装方便，综合成本低等优点。

Spherical Compensator mainly applied to the pipe connections with large land subsidence, vibrations and terrain complex, installed with the pipe, the sphere rotating freely in the center of the angle θ to compensate the deflection due to the foundation settlement and expansion and contraction. With a large amount of compensation, small in size, low fluid resistance, easy installation, and low comprehensive cost.



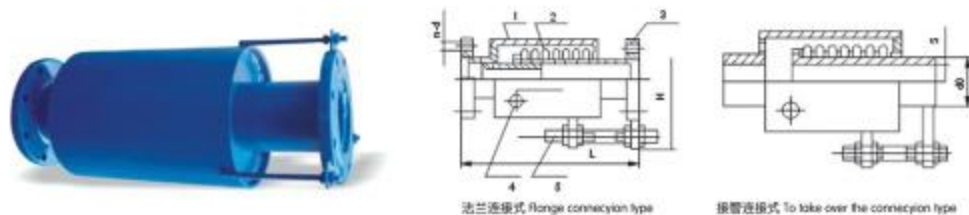
序号No.	名称Name	数量Quantity	材料Material
1	球型管 spherical tube	1	ZG230-450, Q235A, 20, QT400-15
2	压盖 cover	1	ZG230-450, Q235A, 20, QT400-15
3	螺栓 bolts	n	Q235A, 35, 1Cr18Ni9Ti
4	螺母 bolts	n	Q235A, 20, 1Cr18Ni9Ti
5	密封圈 gasket	2	NBR
6	本体 body	1	ZG230-450, Q235A, 20, QT400-15

主要连接尺寸 The Main Connection Size

公称口径 Nominal Diameter DN	D ^o	L	θ	法兰连接尺寸 size of coupling								
				0.6Mpa			1.0Mpa			1.6Mpa		
				D	K	n-do	D	K	n-do	D	K	n-do
100	282	290	15	210	170	4-Φ19	220	180	8-Φ19	220	180	8-Φ19
150	364	320		265	225	8-Φ19	285	240	8-Φ23	285	240	8-Φ23
200	410	382		320	280	4-Φ19	340	295	8-Φ23	340	295	12-Φ23
250	464	410		375	335	12-Φ19	395	350	12-Φ23	405	355	12-Φ27
300	535	430		440	395	12-Φ23	445	400	12-Φ23	460	410	12-Φ27
350	607	470		490	445	12-Φ23	505	460	16-Φ23	520	470	16-Φ27
400	668	550		540	495	16-Φ23	565	515	16-Φ27	580	525	16-Φ30
450	728	600		595	550	16-Φ23	615	565	20-Φ27	640	585	20-Φ30
500	798	689		645	600	20-Φ23	670	620	20-Φ27	715	650	20-Φ34
600	918	725		755	705	20-Φ27	780	725	20-Φ30	840	770	20-Φ37
700	1056	800	12	860	810	24-Φ27	895	840	24-Φ30	910	840	24-Φ37
800	1160	893		975	920	24-Φ27	1015	950	24-Φ34	1025	950	24-Φ40
900	1310	920		1075	1020	24-Φ30	1115	1050	28-Φ34	1125	1050	28-Φ40
1000	1433	975		1175	1120	28-Φ30	1230	1160	28-Φ37	1255	1170	28-Φ43
1200	1693	1125		1405	1340	32-Φ34	1455	1380	32-Φ40	1485	1390	32-Φ48
1400	1942	1290		1630	1560	36-Φ37	1675	1590	36-Φ43			
1600	2164	1385		1830	1760	40-Φ37	1915	1820	40-Φ48			
1800	2400	1580		2045	1970	44-Φ40	2115	2020	44-Φ48			
2000	2730	1870		2265	2180	48-Φ43	2325	2230	48-Φ48			
2200	2910	1950		2475	2390	52-Φ43	2550	2440	52-Φ56			
2400	3135	2080		2685	2600	56-Φ42	2760	2650	56-Φ56			

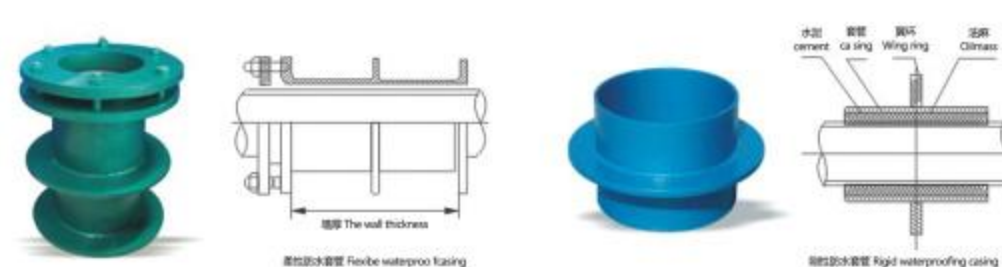
ZBY 直埋外压式轴向波纹补偿器

Buried Outside Pressure Type Axial Corrugated Compensator



通径DN Nominal diameter	长度 Length mm	波数 Wave number	压力等级 Mpa pressure level			波纹管有效面积 Effective area of corrugated tube	最大外径尺寸mm The largest diam eter size
			0.6	1.0	1.6		
50	432	10	41/231	39/255	37/286	81	Φ270
	654	20	82/116	78/126	74/143		
65	488	10	41/231	39/255	37/286	82	Φ290
	756	20	82/116	78/126	74/143		
80	506	9	56/196	53/232	50/278	121	Φ308
	789	18	112/98	106/116	100/139		
100	532	8	61/167	57/218	54/256	180	Φ336
	789	16	122/84	114/109	108/128		
125	616	8	82/229	78/301	75/320	257	Φ368
	966	16	164/129	156/151	150/160		
150	950	8	124/125	112/154	89/330	535	Φ450
	1540	16	250/56	210/87	160/113		
200	950	8	130/155	100/126	70/409	779	Φ505
	1550	16	250/75	200/113	160/205		
250	1080	8	161/111	130/162	105/379	1075	Φ566
	1800	16	320/51	260/64	201/179		
300	1090	8	161/138	130/194	100/338	1269	Φ600
	1820	16	320/54	260/100	200/168		
350	1090	8	165/165	132/221	99/438	1619	Φ676
	1820	16	320/71	250/121	200/218		
400	1110	8	162/164	132/290	101/468	2008	Φ710
	1840	16	310/76	251/145	190/268		
450	1110	8	152/131	124/339	100/532	2428	Φ768
	1840	16	301/81	251/170	190/245		
500	1475	6	190/180	150/515	150/765	3473	Φ975
	2450	12	371/90	300/175	300/298		
600	1540	6	195/231	150/754	140/765	4766	Φ1090
	2540	12	391/121	290/364	280/480		
700	1540	6	200/222	155/601	150/832	6068	Φ1190
	2540	12	400/112	300/400	19/478		
800	1605	6	201/200	164/697	150/897	7528	Φ1290
	2685	12	400/135	321/451	299/583		
900	1605	6	220/206	230/635	220/765	9328	Φ1460
	2685	12	430/154	460/337	442/388		
1000	1605	6	220/356	230/615	220/763	118	Φ1560
	2685	12	430/268	460/303	442/418		
1100	1605	6	210/273	230/654	221/754	13066	Φ1660
	2685	12	428/187	460/347	442/414		
1200	1605	6	210/308	230/757	221/832	15170	Φ1760
	2685	12	420/104	460/488	443/601		
1300	1605	6	220/356	230/864	221/864	17432	Φ1860
	2685	12	410/132	450/432	435/626		
1400	1605	6	212/398	231/645	226/889	19851	Φ1960
	2685	12	430/198	450/466	430/665		
1500	1605	6	201/321	230/978	220/978	22427	Φ2060

柔性刚性防水套管 Flexible Rigid Waterproofing Casing

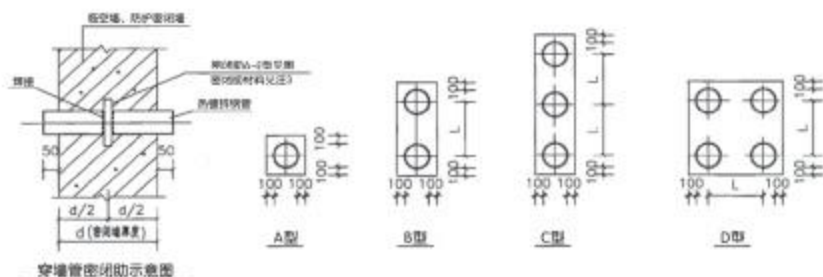


主要连接尺寸 The Main Connection Size

规格DN	S312标准 Standard				025404标准 Standard			
	柔性防水套管 Flexible waterproof casing	刚性防水套管 Rigid waterproof casing	柔性防水套管 Flexible waterproof casing	刚性防水套管 Rigid waterproof casing	柔性防水套管 Flexible waterproof casing	刚性防水套管 Rigid waterproof casing	柔性防水套管 Flexible waterproof casing	刚性防水套管 Rigid waterproof casing
	壁厚 The wall thickness	翼环直径 Wing ring diam eter	壁厚 The wall thickness	翼环直径 Wing ring diam eter	壁厚 The wall thickness	翼环直径 Wing ring diam eter	壁厚 The wall thickness	翼环直径 Wing ring diam eter
DN50	300	177	200	225	300	200	200	235
DN65	300	190	200	241	300	220	200	230
DN80	300	217	200	251	300	235	200	250
DN100	300	236	200	289	300	255	200	270
DN125	300	257	200	315	300	290	200	290
DN150	300	280	200	340	300	315	200	330
DN200	300	350	200	394	300	375	200	285
DN250	300	402	200	446	300	435	200	435
DN300	300	462	200	498	300	495	200	500
DN350	300	511	200	567	300	545	200	550
DN400	300	565	200	621	300	600	200	600
DN450	300	615	200	671	300	650	200	650
DN500	300	673	200	720	300	705		
DN600	300	787	200	822	300	820		
DN700	300	877	200	924	300	910		
DN800	300	987	200	1027	300	1020		
DN900	300	1087	200	1132	300	1120		
DN1000	300	1187	200	1234	300	1220		

说明: 1、柔性防水套管一般适用于管道穿过墙壁之外受有震动或有严密防水要求的建筑物。2、套管穿墙处之墙壁,如为非混凝土墙壁,其浇筑混凝土范围应比翼环直径大200mm,而且必须将套管一次浇筑于墙内。3、表中DN尺寸和壁厚可根据用户需要生产,定货时请注明通径、管外径、壁厚。
Description: 1, flexible waterproofing casing generally applicable for pipe through the wall of vibration or have strict waterproof dem and buildings 2, casing wall in the wall in case of the concrete walls, a total of pouring concrete and the range should be colorful ring diam eter of 200mm, and the casing must be watering the fixed in the wall at a time 3, DN size and wall thickness in the table can produce according to the needs of users, with order

人防电气穿墙管 Man - Defense Electric Through The Wall Pipe



产品主要特点与用途 Characteristics And Use Of Products

人防的密闭助作用如下:

一为固定防松动,与钎更好的结合在一起;二为战时防毒气沿管壁或套管壁渗入防护区,所以密闭肋的材质、厚度、高度都有规范要求。

安装问题：主要是在地下室电气管道通过或进入人防室时，人防施工要求电气管道在分界处焊密关闭，起防爆作用。再就是进出地下室外墙电气管道，要么加装防水套管，电气管道穿管进入地下室，要么在进入地下室的电气管道穿剪力墙处焊防水翼环，起防水作用。但是，以上二种情况的前提是，电气管道必须是倒管。定额中确实没有翼环子目，看看是否套用法兰焊接，定额材料按管处处理。

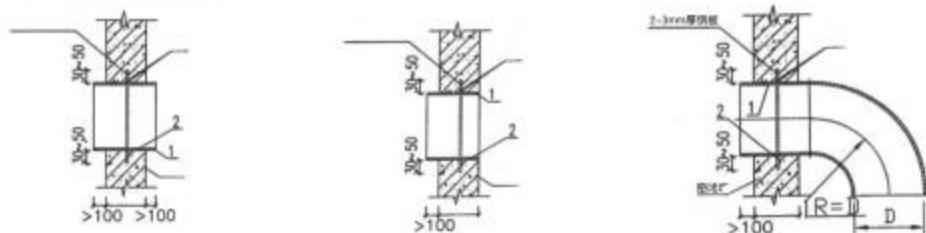
零部件材料Component material

序号No.	名称Name	数量Quantity	材料Material
1	本体Body	n	Q235A
2	紧固件	1	Q235A

技术参数 Technical parameters

热镀锌钢管		管距尺寸
公称直径	外径	L
20	26.8	50
25	33.5	50
32	42.36	60
40	48	75
50	60	100
70	75.5	125
80	88.5	150
100	114	200
150	165	250

人防通风密闭管 Air tight pipe



产品介绍 Product Introduction

- 2 预埋管件直径应与所连接的管道、率闭阀门、超压自动排气门的接管内径一致。

D19140J-0.5密封阀门接管尺寸(内径)

分稱直径 内径	DN150	DN200	DN300	DN400	DN500	DN600	DN800	DN1000
Q	166	215	335	441	560	666	870	1090

超压自动排气阀接管尺寸(内径)

规格	YF-150	YF-200	PG-D250	FGH-150	FGH-200	FGH-250	FGH-300
内径	192	242	250	150	200	250	300

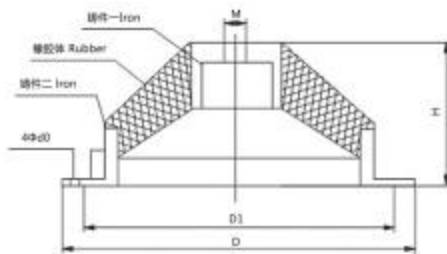
注：双瓣杆式密闭阀门公称直径与内径一致。

SHOCK ABSORBER SERIES

減震器系列



JSD型低频橡胶隔震器 JSD Low-frequency Rubber Vibration Isolator



产品介绍 Product Introduction

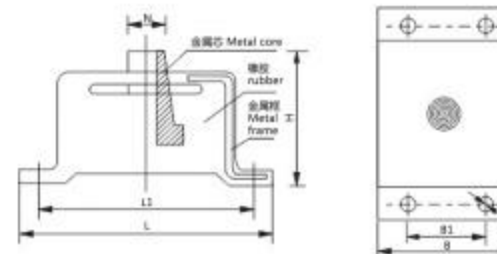
JSD型低频橡胶隔震器是由内、外钢套和中间的合成橡胶组成。经硫化后中间圆锥体橡胶部分受剪切力，具有较大的变形范围和较低的固有频率。工作温度范围在-50~50℃温度变化时，刚度也有所变化；阻尼比C/CC>0.07.对于水泵、压缩机、通风机、发电机、冷冻机等机械设备的积极隔振和仪器仪表表的消极隔振，都有良好的隔振效果。

JSD type rubber cutting vibration isolator is composed of internal and external steel and external steel bushing and medial synthetic rubber, after vulcanization, it appears a core in the middle and the rubber part is stressed, and there are large deformation ranges and low free-running frequency. The working temperature range is -50~+50℃, as the temperature changes, the rigidity changes, damping ratio is C/CC>0.07. It has good vibration isolating effect for the active vibration isolation of water pump, compressor, ventilator, generating set and refrigerating machine and the passive vibration isolation of instruments and meters.

主要连接尺寸 The Main Connection Size

型号 Type	外形尺寸 External dimension					额定荷载 最小~最大(kg) Rated load Min-max	刚度 (Kg/cm²) Stiffness	变形 Distortion	固有频率 (Hz) Natural frequency	最佳荷载 (Kg) Best load
	M	D	D1	H	d0					
JGD-A	M10	100	80	43	8.5	5-15	20			10
JGD-B	M10	100	80	43	8.5	10-30	36	2-8	8-14	20
JGD-A	M12	150	130	65	8.5	20-60	60			40
JGD-B	M12	150	130	65	8.5	40-120	90	4-12	7-12	80
JGD-A	M16	200	170	87	12.5	80-240	120			160
JGD-B	M16	200	170	87	12.5	160-480	200	5-16	6-11	320
JGD-A	M20	290	260	133	12.5	320-960	300			640
JGD-B	M20	290	260	133	12.5	640-1920	650	8-24	5-9	1280

BE型橡胶隔震器 BE Type Rubber Vibration Isolator



产品主要特点与用途 Characteristics And Use Of Products

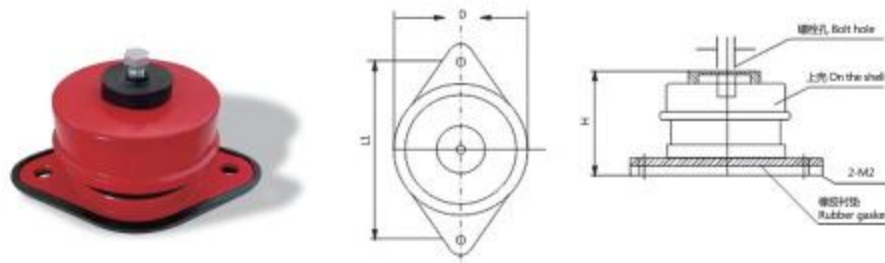
BE型橡胶隔震器有金属与橡胶复合制成。金属表面全部包裹橡胶，能防止金属锈蚀。产品具有耐油、耐海水、耐盐雾和日照等，能满足陆用、船用等各种环境条件，产品质量指标达到美国有关军用指标。BE型橡胶隔震器的固有频率低，阻尼比适宜，横向刚度高于纵向刚度，适用平置、倒置及侧挂等多种安装形式。平置使用时，横向稳定性好，当承受较大冲击时，可自动限位保护，同时对共振峰的抑制能力很强，对瞬态冲击响应时过度工况等引起的自激能迅速消失。设备不致出现任何晃动，该产品在较宽的干扰频率范围内有相当明显的隔振效果。能适用于各类陆地、船用机械设备，如柴油机、风机、水泵、空压机、空调机精密仪器仪表等中、小型机械设备的隔振，对有水平扰力的机械设备，使用本隔震器能取得良好的隔振效果。

BE rubber vibration isolator is made from metal and rubber compound, rubber wrap all the metal surface, to prevent metal corrosion. Products with oil, seawater, salt spray and sun shine, to meet the land use, marine and other environmental conditions, quality indicators have reached the United States military targets. BE rubber isolator natural frequency of the low damping ratio suitable lateral stiffness than vertical stiffness for level set, hanging up side-down and side installation of a variety of forms, flat home use, the lateral stability. When with stand greater impact, it can automatically limit protection, while the resonance peak of the system are strong, the instantaneous impulse response of the transient conditions caused by excessive vibration can quickly disappear from the device without any shaking, the product interference in a wide frequency range of vibration effects are quite obvious. Can be applied to all types of terrestrial, marine machinery and equipment, such as diesel engines, fans, pumps, air compressors, air conditioners, precision instruments, etc., small machinery and equipment isolation. The level of interference power to have the machinery and equipment, use of the isolator can achieve good isolation effect.

主要连接尺寸 The Main Connection Size

型号Type	M	H	L	L1	B	B1	d	n	额定荷载 The rated load (kg)	固有频率 Natural frequency (Hz)	静变形 Static deformation (mm)
BE-10	8	40	70	54	36	/	7	2	10	10±2	≤4
BE-15	8	40	70	54	38	/	7	2	15	10±2	≤4
BE-25	8	40	70	54	40	/	7	2	25	10±2	≤4
BE-40	10	46	85	68	55	/	9	2	40	10±2	≤4
BE-60	12	50	100	80	65	/	9	2	60	10±2	≤4
BE-85	14	60	120	100	70	/	11	2	85	10±2	≤5
BE-120	16	60	140	112	85	/	13	2	120	10±2	≤5
BE-160	18	62	145	115	90	/	13	2	160	10±2	≤5
BE-220	22	70	150	120	105	/	15	2	220	10±2	≤5
BE-300	24	75	155	125	110	60	15	4	300	10±2	≤5
BE-400	27	80	175	140	120	65	17	4	400	10±2	≤5

ZD型阻尼弹簧减震器 ZD Type Damping Spring Shock Absorber



产品介绍 Product Introduction

ZD型阻尼弹簧减震器具有弹簧减震器的低频率和橡胶减震器的大阻尼等双重优点。将两者的优点结合，消除了弹簧减震器共振时振幅激增的现象，又解决的橡胶减震器固有频率较高的难题，是积极、消减隔振的理想产品。ZD型阻尼弹簧减震器适用范围广、适应性强，对积极隔振消减隔振和冲击隔振能同时产生明显效果，是一种多功能通用性隔振产品，适用于-20℃~80℃的工作环境，其正常工作载荷范围内固有频率在1.4Hz~4.9Hz之间，阻尼为0.065。是空调、恒置设备、风机、冷却塔、冷冻机组、压缩机、水泵等承载设备的理想减振产品。

ZD type damping spring shock absorber of low frequency and large damping rubber shock absorber, such as double advantage, to combine the advantages of both, eliminates the spring damper resonance amplitude excitation phenomenon of increase, and solve the problem of the rubber shock absorber natural frequency is higher, is higher is an ideal product to active and passive vibration isolation. Uh-zd type damping shock absorber wide load range, strong adaptability, the active vibration isolation, passive vibration isolation and shock isolation can also have obvious effect. It is a kind of multifunction isolation commonly used product, suitable for working environment -20℃ to 80℃. Its operating within the scope of normal working load between 1.4Hz frequency, damping ratio 0.065 is air conditioners, the most static fan cooling towers, refrigeration units, compressor Water pump bearing equipment such as ideal damping products.

适用设备 Apply To Equipment

水泵、风机、冷水机组、落地式新风机、柜式空调机、屋顶式空调机、离心风机。载荷范围：30~3300kg

Water pump, fan, water chiller, floor type new fan, modular air conditioning units, cabinet air conditioner, roof type air conditioning units, centrifugal fan Load range: 30~3300kg

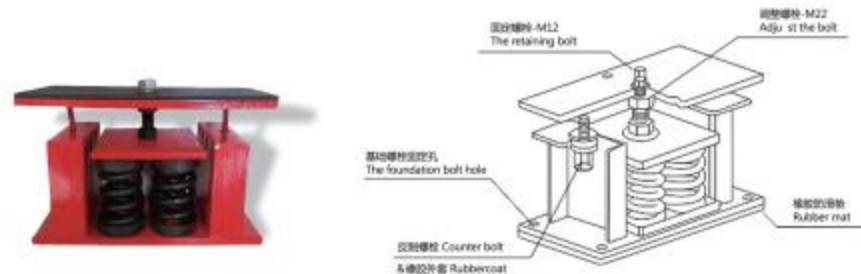
主要连接尺寸 The Main Connection Size

产品型号 Type	载荷范围 Load range (kg)	竖向刚度 Vertical stiffness (N/mm)	外形尺寸(mm) Size and shape				
			H	D	L1	M1	M2
ZD-1	30-45	16	85	132	158	M12	M12×2
ZD-2	45-80	30	85	132	158	M12	M12×2
ZD-3	80-120	40	85	132	158	M12	M12×2
ZD-4	120-160	44	100	132	158	M12	M12×2
ZD-5	160-200	54	100	132	158	M12	M12×2
ZD-6	200-260	59	105	132	158	M12	M12×2
ZD-7	260-320	67	105	132	158	M12	M12×2
ZD-8	320-360	73	112	160	208	M12	M13×2
ZD-9	360-420	89	112	160	208	M12	M13×2
ZD-10	420-480	102	112	160	208	M12	M13×2
ZD-11	480-550	129	115	160	208	M12	M13×2

注：可根据客户要求生产定制 Note: can be customized according to customer request production

产品型号 Type	载荷范围 Load range (kg)	竖向刚度 Vertical stiffness (N/mm)	外形尺寸(mm) Size and shape				
			H	D	L1	M1	M2
ZD-12	550-630	180	115	160	208	M12	M13×2
ZD-13	630-700	196	125	193	235	M12	M13×2
ZD-14	700-800	240	125	193	235	M16	M13×2
ZD-15	800-900	289	125	193	235	M16	M13×2
ZD-16	900-1050	340	128	193	235	M16	M13×2
ZD-17	1050-1200	420	128	193	235	M16	M13×2
ZD-18	1200-1650	502	155	245	305	M16	M15×2
ZD-19	1650-2200	650	155	245	305	M16	M15×2
ZD-20	2200-2750	720	155	245	305	M16	M15×2
ZD-21	2750-3300	804	155	245	305	M16	M15×2

ZTF型可调阻尼式弹簧减震器 ZTF Adjustable Damping Type Spring Shock Absorbers



产品介绍 Product Introduction

ZTF型阻尼弹簧减震器是由多组弹簧组成，上下钢板及钢板外表面粘贴橡胶防滑垫等组成。ZTF型阻尼弹簧减震器，是我厂根据国外大型冷水机组、安装不平衡、动力设备低速、扰力较大而设计的产品。此产品具有安装灵活性大、稳定性好、固有频率低、隔振效果显著等特点。安装时可直接安放在设备上，若动力设备扰力较大，先调节重心，并将减震器底座固定孔用螺栓固定地基。

1、阻尼弹簧减震器(阻尼弹簧减震器)弹簧采用自然频率值设计，并经防腐及烤漆处理：耐候性佳：防腐效果高。2、壳体采用热浸镀锌工艺处理。3、底部防滑及防侧倾螺栓设计，安全性高。4、安装简单并可依实际需要调整高度及水平。5、能消除机械结构振动，并保护及延长机械寿命。6、荷重挠度25mm、40mm、50mm、75mm、100mm、125mm。

ZTF type damping spring shock absorber is composed of multiple sets of spring, steel plate and steel plate surface paste rubber mat, etc. ZTF type damping spring shock absorber, is my factory according to the large foreign water chillers, in stallation value, power equipment products in the design, the interference power is larger at low speed. This product has great installation flexibility, good stability and low natural frequency, vibration isolation effect is remarkable, etc. When in stallation, can be directly placed on the equipment, if the power equipment interference power is larger, first adjust the center of gravity, and fixed hole bolted the damper base foundation. 1, damping spring shock absorber damping spring damper spring design using natural frequency values, and the corrosion protection and treatment of the lacquer that bake. Weather resistance. Vibration control effect is high.

2, adapt the hot dip galvanizing process. 3, at the bottom of the anti-skid and anti-roll bolt design, high safety. 4, in stallation is simple and can be in accordance with the actual need to adjust the height and level. 5, can eliminate the mechanical structure vibration, and to protect and extend the life of the machine. 6, 25mm load deflection, and 40 mm, 50 mm and 75 mm, 100 mm and 125 mm.

阻尼弹簧减震器(阻尼弹簧减震器)主要用途

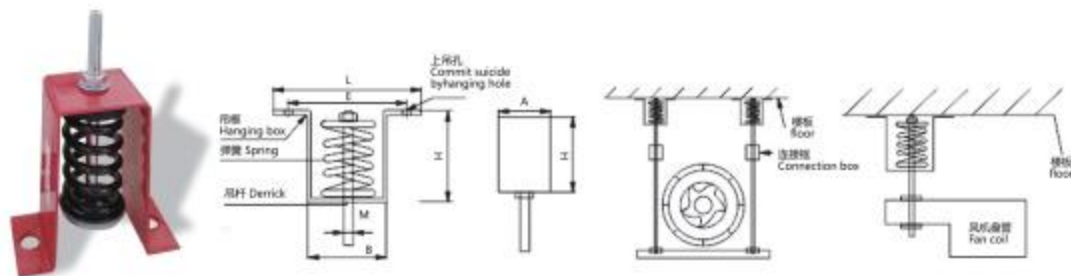
Damping Spring(shock Absorber Damping Spring)Shock Absorber Main Purpose

1、各类重型机械 2、冷水机组、冷却塔 3、消防水泵、各种风机 4、发电机、空气压缩机
1, 2, all kinds of heavy machinery water chillers, cooling water tower 3, fire pump, all kinds of fan 4, generator, air compressor

主要连接尺寸 The Main Connection Size

型号 Type	载荷范围kg The load range	挠度 The deflection	弹簧组数 Spring Number	外形尺寸 Overall dimensions mm						
				L	D	B	L1	B1	H	2-Φ
JA-1-45	25-45	20	1	185	185	85	145	85	125	2-Φ11
JA-1-75	45-75	20	1	185	185	85	145	85	130	2-Φ11
JA-1-100	75-100	20	1	185	185	85	145	85	140	2-Φ13
JA-1-150	100-150	20	1	185	185	85	145	85	150	2-Φ13
JA-1-200	150-200	20	1	185	185	85	145	85	150	2-Φ13
JA-1-250	200-250	20	1	185	185	85	145	85	170	2-Φ13
JA-1-300	250-300	20	1	185	185	85	145	85	170	2-Φ15
JA-1-450	300-450	20	1	185	185	85	145	85	180	2-Φ15
JA-1-600	450-600	20	1	215	215	120	175	120	200	2-Φ15
JA-1-800	600-800	20	1	215	215	120	175	120	200	2-Φ15
JA-4-600	400-600	20	4	220	220	150	140	150	180	2-Φ13
JA-4-800	600-800	20	4	220	220	150	140	150	190	2-Φ13
JA-4-1000	800-1000	20	4	240	240	150	160	150	200	2-Φ14.5
JA-4-1200	1000-1200	20	4	240	240	150	160	150	210	2-Φ14.5
JA-4-1600	1200-1600	20	4	260	260	180	180	180	210	2-Φ14.5
JA-4-2400	1600-2400	20	4	260	260	180	180	180	210	2-Φ14.5

HV型阻尼弹簧吊式减震器 Damping Spring Suspension Shock Absorber



产品介绍 Product Introduction

为了满足用户的需求，我公司在生产多种吊式减震器的基础上，设计制造了HV型吊架减震器，该产品是一种以减振弹簧、橡胶复合垫、阻尼等组成的预应力吊架减震器。应用范围非常广泛。

风机、管道、动力设备的吊装减振降噪，也可用于精密仪表的吊装等等。荷载范围：10~1000Kg

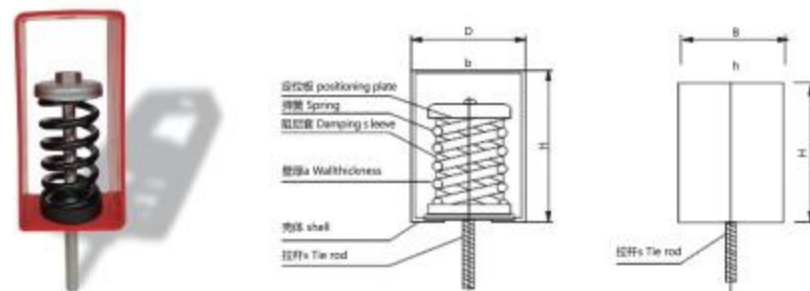
In order to meet the needs of different users, my company in the production of a variety of hanging type shock absorber, on the basis of design and manufacture of the HV type suspension shock absorber, this product is a kind of damping spring, rubber compound gasket prestressed suspension shock absorber, damping, etc. Application scope is very broad.

Fan, pipelines, power equipment hoisting vibration isolation of noise reduction can also be used for precision instrument assembly, and soon load range: 10~1000kg

主要连接尺寸 The Main Connection Size

型号 Type	荷载范围 The load range Kg	自振频率 Self-reported frequency Hz	外形尺寸 Overall dimensions						
			上吊孔d	L	E	H	M	B	A
HV-1	5-15	3.0-3.5	10.5	125	95	80	8	60	35
HV-2	15-25	3.0-4.8	10.5	125	95	90	8	60	35
HV-3	25-45	3.0-4.5	13	125	95	90	8	60	35
HV-4	45-75	2.5-4.0	13	130	100	95	10	65	40
HV-5	75-115	2.6-3.7	15	135	105	105	12	70	50
HV-6	115-155	2.6-3.6	15	140	110	115	12	75	50
HV-7	155-195	2.7-3.8	17	145	110	125	14.1	80	55
HV-8	195-240	2.6-3.6	18	150	115	135	14	85	65
HV-9	240-295	2.3-3.3	18	160	125	145	16	95	70
HV-10	295-400	2.3-3.3	20	160	125	155	16	95	75

ZTY型吊式弹簧减震器 ZTY Type Hanging Spring Shock Absorbers



产品介绍 Product Introduction

ZTY型吊式弹簧减震器应用非常广泛是吊装设备首选弹簧减震器，该产品具有阻尼大，自振率低，安装方便，对消除固传声有明显的效果，适用于各种大小设备及管道系统的吊式安装。

ZTY series hanging type damper applications very extensive, spring shock absorber was the preferred hoisting equipment. The product has the big damping force, natural vibration frequency is low, easy installation, have apparent effect to eliminate solid voice, comfortable. Used for various size ceiling installation of equipment and pipeline system.

适用设备 Apply to Equipment

吊顶式空调器，轴流风机，新风机，风管等各种吊装设备。荷载范围：5~1000Kg

Condole type air-conditioner, axial flow fan, new fan, pipelines and other lifting equipment. Load range: 5~1000kg

ZTY型吊架减震器性能参数 Suspension Shock Absorber Performance Parameters

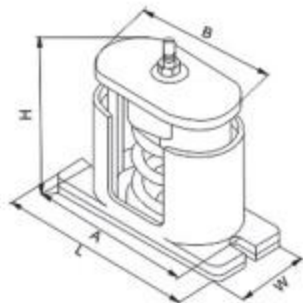
型号 Type	荷载范围 The load range Kg	自振频率 Self-reported frequency Hz	H(mm)	D(mm)	B(mm)	b(mm)	s(mm)	a(mm)
ZTY-1	5-15	3.5-2.9	80	60	35	8.5	8	3
ZTY-2	15-25	3.5-2.9	118	63	40	8.5	8	3
ZTY-3	25-45	3.4-2.7	120	70	45	10.5	10	3
ZTY-4	45-75	3.2-2.5	130	70	50	10.5	10	3
ZTY-5	75-115	3.2-2.5	137	85	60	13	12	3
ZTY-6	115-155	3.2-2.4	150	85	65	13	12	3
ZTY-7	155-195	3.0-2.2	158	95	70	15	14	3
ZTY-8	195-240	2.9-2.2	174	100	75	17	16	4
ZTY-9	240-295	2.7-2.1	180	100	80	17	16	4

注：吊杆长度可按客户要求定做，吊环和连接螺母可选配

Note: the boom length can be customized according to customer requirements, ring and coupling nut is optional

JB型低频可调阻尼弹簧减震器

JB Type Low Frequency Adjustable Shock Absorber Damping Spring



产品介绍 Product Introduction

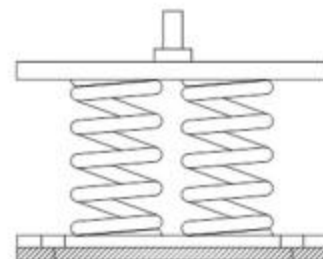
JB型阻尼弹簧减震器特性: 本体材质分为普通铸铁和球墨铸铁, 本体经热镀锌处理, 耐候性佳, 特殊结构设计, 可依实际需要调整高度。
外形轻巧坚固, 安装容易, 适用于各类机械内减振装置。弹簧均经热处理, ED防锈、烤漆等程序处理。荷重挠度20mm、40mm能有效消除机械振动。
底部止滑橡胶, 安装容易及安全、控制及调整水平容易, 能有效消除地板震动, 价格也比较便宜。
阻尼弹簧减震器主要用途: JB型阻尼弹簧减震器(震)器适用于各种冷水机组、冷却塔、落地风机或落地空调箱等设备。
阻尼弹簧减震器安装说明: 阻尼弹簧减震器安装前, 请先确认减震器的型号规格型号是否正确。减震器压缩量一般为10~25mm之间。减震器安放于正确位置后, 需先取下固定螺栓, 再将设备的固定基座安装在减震器上, 并以固定。先以基础螺栓固定减震器。调整减震器高度须使设备水平。调整螺母, 以顺时针方向向上, 逆时针方向向下。水平调好后, 再配接管路。
机器或水塔旁连接管路, 如因增设悬空管道的关系, 而增加减震器负荷, 须另设XDD型管道减震器, 避免造成减震器负荷不足。
JB type spring shock absorber damping characteristics: ontology can be divided into ordinary cast iron and nodular cast iron material, ontology by the hot dip galvanized processing, weather resistance, special structural design, can be in accordance with the actual need to adjust the height.
Compact in solid, easy to install, suitable for all kinds of mechanical vibration reduction device. Spring after heat treatment, ED rust and paint process. Load deflection 20 mm, 40 mm can effectively eliminate the mechanical structure vibration. Slide at the bottom of the rubber, easy installation and high safety, easy to control and adjust the level floor vibration, can effectively eliminate the price also cheaper.
Damping spring shock absorber main use: JB type damping spring vibration(shock) is suitable for various water chillers, cooling towers, fan or air conditioning box equipment such as landing.
Damping spring shock absorber damping spring damper installation instructions: before installation, please make sure the shock absorber model specifications are correct. Amount of damper compression is usually between 10 to 25 mm. Shock absorber put in right location, need to remove the retaining bolt first, then install the equipment fixed resting on the shock absorber, and fixed. Start with the foundation bolt of shock absorber. Adjusting the damper height shall make the equipment level. The adjusting nut to clockwise direction of the needle upward, downward counterclockwise, level set, match again to take over the road.
Connecting line beside a machine or a water tower, such as by adding suspended end pipe, the relationship between load and increase the shock absorber, is on other set XDD type pipe shock absorber, avoid to cause shock load.

主要连接尺寸 The Main Connection Size

型号Type	最佳荷载 The best load (Kg)	外形尺寸 Overall dimensions					
		高H (mm)	下长L (mm)	下孔距A (mm)	下宽W (mm)	上长B (mm)	下孔 (mm)
ZTE-1	5-15	100	180	150	77	130	11
ZTE-2	15-30	100	180	150	77	130	11
ZTE-3	30-50	110	180	150	77	130	11
ZTE-4	50-80	110	180	150	77	130	11
ZTE-5	80-120	120	180	150	77	130	11
ZTE-6	120-180	120	180	150	77	130	11
ZTE-7	180-230	125	225	180	90	155	12
ZTE-8	230-320	125	225	180	90	155	12
ZTE-9	320-500	150	225	180	90	155	12
ZTE-10	500-700	150	225	180	90	155	12
ZTE-11	700-1000	175	225	180	90	155	12
ZTE-12	1000-1400	175	225	180	90	155	12

ZGT型阻尼弹簧减振(震)器

ZGT Damping Spring Vibration(shock)



产品介绍 Product Introduction

ZGT-D型可调式低频阻尼弹簧减震器, 是我厂根据国外大型冷水机组、安装不平衡、动力设备低速、扰力较大而设计的产品。此产品具有安装灵活性大, 稳定性好, 固有频率低, 隔振效果显著等特点。安装时可直接放在设备下, 若动力设备扰力较大, 先调节重心, 并将减震器底座固定孔用螺栓固定地基。
适用设备: 冷水机组、柴油发电机组等大型设备。
注: 可根据客户的具体要求, 设计制作。载荷范围 300~6500kg 垂直自然频率为2.3Hz~4.9Hz。

ZGT-D type adjustable frequency damping spring shock absorber, is my factory according to the large foreign water chillers, imbalance of installation and power equipment products in the design, the interference power is larger at low speed. This product has great installation flexibility, good stability and low natural frequency. Vibration isolation effect is remarkable, etc. Installation can be directly placed on equipment, if power equipment interference power is larger, to adjust the center of gravity, and fixed hole bolted the damper base foundation. Applicable equipment: water chiller, diesel generating sets and other large equipment.

Note: according to the customer's specific requirements, design and production. Load range 300~300 kg of vertical natural vibration frequency of 2.3 Hz to 4.9 Hz

主要连接尺寸 The Main Connection Size

型号Type	最佳荷载 The best load (Kg)	最大荷载 The largest load (Kg)	垂直刚度 The vertical stiffness kg/mm	弹簧组数 Spring Group number	外形尺寸 Overall dimensions mm			
					上端尺寸The top size	底座尺寸Plate size	高度Highly	Φ
ZGT-300	300	365	190	4	191*181	241*221	75	20
ZGT-600	600	725	280	4			91	
ZGT-900	900	1050	508	4			100	
ZGT-1200	1200	1380	640	4	210*200	260*230	116	24
ZGT-1500	1500	1750	800	4			126	
ZGT-2000	2000	2600	1156	4			138	
ZGT-3000	3000	3700	2187	4	220*210	280*250	143	24
ZGT-3500	3500	4000	1734	6			140	
ZGT-5000	5000	6000	3281	6			148	
ZGT-6500	6500	7500	3750	6	340*250	392*292	175	

Note: the boom length can be customized according to customer requirements, ring and coupling nut is optional

PN6 板式平焊钢制管法兰 (GB/T9119-2010)

公称 通径 DN	钢管外径A		连接尺寸				密封面尺寸			法兰内径B				法兰理论重量 (kg)				法兰盖理论重量 (kg)	
	系列 I	系列 II	法兰 外径 D	螺栓孔中 心圆直径K	螺栓 孔数 n	螺栓 规格 L	法兰 厚度 C	d	f	系列 I	系列 II	系列 I	系列 II	平面型	平面型	突面型	突面型	法兰 盖厚度 C	
10	17.2	14	75	50	11	4	M10	12	35	2	18	15	0.36	0.36	0.31	0.32	12	0.38	0.33
15	21.3	18	80	55	11	4	M10	12	40	2	22	19	0.40	0.41	0.35	0.36	12	0.44	0.38
20	26.9	25	90	65	11	4	M10	14	50	2	27.5	26	0.59	0.60	0.53	0.54	14	0.66	0.59
25	33.7	32	100	75	11	4	M10	14	60	2	34.5	33	0.72	0.73	0.65	0.66	14	0.82	0.73
32	42.4	38	120	90	14	4	M12	16	70	2	43.5	39	1.16	1.19	1.05	1.09	14	1.18	1.07
40	48.3	45	130	100	14	4	M12	16	80	3	49.5	46	1.35	1.38	1.17	1.20	14	1.39	1.23
50	60.3	57	140	110	14	4	M12	16	90	3	61.5	59	1.48	1.51	1.28	1.31	14	1.62	1.43
65	76.1	70	160	130	14	4	M12	16	110	3	77.5	78	1.86	1.85	1.62	1.61	14	2.14	1.91
80	88.9	89	180	150	18	4	M16	18	128	3	90.5	91	2.95	2.94	2.61	2.60	18	3.43	3.09
100	114	106	210	170	18	4	M16	18	148	3	116	110	3.26	3.41	2.87	3.02	18	4.22	3.84
125	140	133	240	200	18	4	M16	20	178	3	141.5	135	4.31	4.54	3.88	4.10	18	6.10	5.67
150	168	159	265	225	18	4	M16	20	202	3	170.5	161	4.76	5.14	4.26	4.65	18	7.51	7.01
200	219	219	320	280	18	4	M16	22	258	3	221.5	222	6.85	6.85	6.27	6.24	20	12.31	11.69
250	273	273	375	335	18	12	M16	24	312	3	276.5	276	8.92	8.96	8.19	8.23	22	18.55	17.82
300	324	324	440	395	22	12	M20	24	365	4	327.5	328	11.92	11.92	10.97	10.92	22	25.47	24.13
350	356	377	490	445	22	12	M20	26	415	4	359.5	360	16.84	14.41	15.31	12.89	22	31.78	30.25
400	466	426	540	495	22	16	M20	28	465	4	411	430	19.84	17.08	18.17	15.41	22	38.50	36.83
450	487	480	565	520	22	16	M20	30	520	4	492	494	24.57	25.72	21.70	18.85	24	51.24	49.27
500	568	530	645	600	22	20	M20	30	570	4	513.5	534	26.39	22.42	24.38	20.41	24	60.13	58.12
600	610	630	720	705	26	20	M24	32	670	5	616.5	634	34.81	30.49	31.49	27.17	30	100.93	94.61
700	711	720	800	810	26	24	M24	40	775	5	715	724	52.32	49.13	48.54	45.34	40	178.40	174.61
800	813	820	900	920	30	24	M27	44	890	5	817	824	70.80	67.83	66.18	63.07	44	252.02	247.26
900	914	920	1075	1070	30	24	M27	48	990	5	914	924	96.21	92.94	89.85	87.59	48	325.60	320.25
1000	1016	1020	1175	1170	30	28	M27	52	1090	5	1020	1024	109.90	98.38	95.17	92.55	52	434.55	428.72
1200	1219	1220	1405	1390	32	32	M30	60	1295	5	1233	1234	164.94	163.14	155.86	155.86	60	717.36	709.37
1400	1422	1420	1630	1610	36	36	M33	72	1510	5	1426	1424	256.65	258.66	245.85	248.38	64	1044.34	1034.16
1600	1626	1620	1830	1810	36	40	M33	80	1710	5	1630	1624	315.75	325.38	304.25	313.88	76	1344.90	1333.40
1800	1829	1820	2045	2020	39	44	M36	88	1920	5	1833	1824	406.74	427.60	396.53	414.39	84	1733.18	1717.97
2000	2032	2020	2245	2220	42	48	M39	96	2125	5	2036	2024	532.84	561.68	516.51	545.34	92	2381.92	2345.58

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公称 通径 DN	钢管外径A		连接尺寸				密封面尺寸			法兰内径B				法兰理论重量 (kg)				法兰盖理论重量 (kg)	
	系列 I	系列 II	法兰 外径 D	螺栓孔中 心圆直径K	螺栓 孔数 n	螺栓 规格 L	法兰 厚度 C	d	f	系列 I	系列 II	系列 I	系列 II	平面型	平面型	突面型	突面型	法兰 盖厚度 C	
10	17.2	14	90	60	14	4	M12	14	40	2	18	15	0.60	0.61	0.53	0.54	16	0.72	0.65
15	21.3	18	95	65	14	4	M12	14	45	2	22	19	0.67	0.68	0.59	0.60	16	0.81	0.74
20	26.9	25	105	75	14	4	M12	16	58	2	27.5	26	0.94	0.94	0.85	0.86	18	1.14	1.05
25	33.7	32	115	85	14	4	M12	16	68	2	34.5	33	1.11	1.12	1.01	1.02	18	1.38	1.28
32	42.4	38	140	100	18	4	M16	18	78	2	43.5	39	1.82	1.86	1.67	1.71	18	2.03	1.88
40	48.3	45	150	110	18	4	M16	18	88	3	49.5	46	2.08	2.12	1.83	1.87	18	2.35	2.10
50	60.3	57	165	125	18	4	M16	20	102	3	61.5	59	2.73	2.77	2.44	2.48	18	2.88	2.59
65	76.1	70	185	145	18	4	M16	20	122	3	77.5	78	3.16	3.15	2.85	2.84	18	3.51	3.20
80	88.9	89	200	160	18	4	M16	20	138	3	90.5	91	3.60	3.59	3.26	3.25	20	4.61	4.27
100	114	108	220	180	18	4	M16	22	158	3	116	110	4.39	4.57	4.00	4.19	20	5.65	5.26
125	140	133	250	210	18	4	M16	22	188	3	141.5	135	5.41	5.65	4.96	5.20	22	8.13	7.67
150	168	159	285	240	22	8	M20	24	212	3	170.5	161	7.14	7.61	6.54	7.01	22	10.49	9.89
200	219	219	340	295	22	12	M20	26	268	3	221.5	222	9.73	9.70	9.03	9.00	24	16.25	15.54
250	273	273	405	355	26	12	M24	29	320	3	276.5	276	14.21	14.26	13.22	13.27	26	24.99	24.00
300	324	325	460	410	26	12	M24	32	378	4	327.5	328	18.99	18.92	17.49	17.43	28	35.13	33.63
350	356	377	520	470	26	16	M24	35	438	4	359.5	361	28.13	24.69	26.46	23.02	30	48.01	46.34
400	466	426	580	525	30	16	M27	38	490	4	411	430	35.86	32.12	33.84	30.10	32	63.53	61.51
450	487	480	640	585	30	20	M27	42	550	4	462	485	46.13	40.49	43.94	38.30	40	96.57	94.38
500	568	530	715	650	33	20	M30	46	610	4	513.5	535	64.03	57.63	61.13	54.74	44	132.78	129.88
600	610	630	840	770	36	20	M33	55	725	5	616.5	636	101.60	93.31	96.85	88.56	54	226.29	221.54
700	711	720	910	840	36	24	M33	63	795	5	715	724	111.00	105.97	105.91	100.88	56	285.00	279.91
800	813	820	1025	950	39	24	M36	74	900	5	817	824	158.15	152.91	151.85	146.61	62	387.65	381.36
900	914	920	1125	1050	39	28	M36	82	1000	5	918	924	192.27	186.68	185.40	179.81	64	482.59	475.72
1000	1016	1020	1255	1170	42	28	M39	90	1115	5	1020	1024	269.25	264.71	260.54	256.01	68	639.62	630.91
1200	1219	1220	1485	1390	48	32	M45	95	1330	5	1223	1224	372.38	370.94	361.20	359.77	86	1130.17	1118.99
1400	1422	1420	1685	1590	48	36	M45	103	1530	5	1426	1424	459.01	462.83	448.20	449.82	94	1597.39	1584.59
1600	1626	1620	1930	1820	56	40	M52	115	1750	5	1630	1624	668.29	682.14	651.74	660.56	112	2485.51	2468.96
1800	1829	1820	2130	2020	56	44	M52	126	1950	5	1833	1824	807.16	832.72	788.77	814.34	121	3281.84	3263.26
2000	2032	2020	2345	2230	62	48	M56	138	2150	5	2036	2024	994.80	1036.25	973.47	1014.00	136	4436.18	4434.85

PN10 板式平焊钢制管法兰 (GB/T9119-2010)

公称 通径 DN	钢管外径A
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