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北京福达首航管道设备有限公司

Beijing fuda Shouhang Pipeline Equipment Co.,Ltd.

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北京福达首航管道设备有限公司

Beijing fuda Shouhang Pipeline Equipment Co., Ltd.



中国·北京

北京福达首航管业

福达首航
FUDASHOUHANG

以福达首航为动力
以最高品质求生存

公司简介

COMPANY INTRODUCTION

北京福达首航管道设备有限公司是从事研制、开发、生产给排水材料的专业公司，主要产品有：各种管道铸铁、钢制、不锈钢、热力套管式伸缩器，可曲挠单、双球、端面全密封橡胶接头、异径橡胶接头、松套伸缩接头、单双法兰传力接头、风道橡胶（织物）补偿器，刚性、柔性防水套管，管道堵漏器，过滤（伸缩）器，各种不锈钢波纹补偿器，高级软密封闸阀、中线对夹式蝶阀、法兰式蝶阀、微阻缓闭消声止回阀、电厂专用风门以及各种管道连接器，异径接头，快速三通装置，并严格按照国家标准规范设计生产。具有安装方便，性能优越，使用寿命长等功效。

公司产品广泛用于供水、排水、污水处理、电力、冶金、城建、石油、化工环保各大、中型企业等领域的供排水事业的建设中。产品畅销全国二十几个省，市，自治区，受到广大用户的一致好评。在市场经济的浪潮中，公司依靠人才，技术和科学管理。不断探索调整发展战略，认真求实，精诚团结，以雄厚的技术力量，精良的设备，完善的质量检测体系，大胆努力开拓市场，本着增进友谊，互惠互利的原则，为用户提供可靠的产品质量和满意的服务，建立和发展长期稳定的经济技术合作关系。

我公司愿以优质的产品，周到的服务与各界朋友真诚合作，衷心期望有识之士光临指导，开展合作，共图大业！共创辉煌！



Beijing fuda Shouhang damping equipment limited company is engaged in the research, development, production of water supply and drainage materials Professional Company, main products are:All kinds of cast iron pipe, steel, stainless steel, thermal sleeve type compensator, flexible single, double ball,face full sealing rubber joints, ISO Diameter of rubber joints, sleeve expansion joint, force of single and double flange joint, rubber duct (fabric) compensator, rigid, flexible waterproof jacket Tube, pipe plugging device, filter (telescopic)device, various kinds of stainless steel corrugated compensator, Senior soft sealing gate valve, the midline of the folder type butterfly valve, Flange type butterfly valve, micro resistance slow closing silencing check valve, power plants special door and various pipe connector, reducers, fast three links

The design, and strictly in accordance with national standards of production. Has the advantages of convenient installation, superior performance, long service life etc. function. Company's products are widely used in water supply, drainage, sewage treatment, electricity, metallurgy, petroleum, chemical industry, urban construction and environmental protection of each big, medium The construction of water supply and drainage business enterprises in the field of. Products sold throughout twenty provinces, city, autonomous region, by the majority of users of a Praise. In the market economy tide, the company to rely on talent, technology and scientific management. Continue to explore the adjustment of development strategy, seriously Realistic, cooperate with absolute sincerity, with strong technical force, excellent equipment, perfect quality inspection system, bold efforts to open up the market,In the spirit of friendship, the principle of mutual benefit, provide a reliable product quality and satisfactory service for the user, the establishment and development of long-term stability.

The economic and technical cooperation.My company is willing to high-quality products, sincere cooperation with friends from all walks of life and thoughtful service, sincerely hope that a person with breadth of vision to guide, open Development cooperation, big industry total diagram! To create brilliant!



我们经营的不仅仅是一种产品，更是一种服务。
一切围绕客户，一切为了客户，
努力创造客户价值最大化。
努力做供水行业的最佳供应链管理者。

企业文化

ENTERPRISE CULTURE

专业是我们的技术服务！
专注是我们的市场理念！
勤奋是我们的企业精神！
创新是我们的前进准则！

最专业的技术，最信赖的品质，最优质的服务，
最合理的价格，愿成为您最佳的合作伙伴！

企业理念

THE CONCEPT OF ENTERPRISE

诚信为立足之本
创新为生存之源
服务为永恒的主题



企业资质

THE QUALIFICATION OF THE ENTERPRISE

先进的制造设备

Advanced manufacturing technology

优秀的品质，愿与先进的制造设备与工艺，华威拥有一批先进、大型、完美的制造设备。

华威追求品质保证，严格按照标准进行生产与质量控制。

产品设计制造标准：API、BS、GB、DIN、JIS。

试验与检验标准：API6D、API598、MSS-SP-55

(或根据用户指定标准)

主要大型加工设备有5米、3.5米、2.5米、1.6米立车、大型卷板机、大型高精度数显落地镗床、T611卧式镗床、T617卧式镗床、ZD100摇臂钻床、直流焊机、1250自动埋弧焊机、大型防腐成套设备，热处理设备等共计200多台套，具备了6米口径管道设备和阀门生产能力，现已成为我国中原地区最大的阀门和管道设备的制造基地。

Excellent quality; willing to work with advanced manufacturing equipment and technology, Huawei has a number of advanced, large, perfect manufacturing equipment.

Huawei pursuit of quality assurance, in strict accordance with the standards of production and quality control.

Product design and manufacturing standards: API, BS, GB, DIN, JIS.

Test and inspection standards: API6D, API598, MSS-SP-55

(Or according to user-specified criteria)

Major large-scale processing equipment 5 m, 3.5 m, 2.5 m, 1.6 m vertical lathe, large rolling machine, large-scale high-precision digital boring machine, T611 horizontal boring machine, T617 horizontal boring machine, ZD100 radial drilling machine, DC welding machine 1250 automatic submerged arc welding machine, large anti-corrosion equipment, heat treatment equipment totaling more than 200 sets, with the 6 metre diameter pipeline equipment and valve production capacity, has become China's largest manufacturing base in the Central Plains region of valves and piping equipment.



生产现场 Production site



安装及发货 Installation and delivery



产品索引 Product index

产品索引 Product index



P01

可曲挠橡胶接头



P03

JGD型可曲挠橡胶接头



P04

KST型可曲挠双球橡胶接头



P05

JDX型异径橡胶接头(大小头)



P06

JGD(KXT)型可曲挠偏心异径橡胶接头



P07

JGD(KXT)型卡箍式橡胶接头



P08

WTX型可曲挠橡胶弯头



P09

可曲挠橡胶三通



P10

负压橡胶接头



P10

衬四氟橡胶接头



P11

JGD-B型丝扣连接橡胶接头



P12

JGD-B1型风机盘管橡胶接头



P13

JGD-D型橡胶隔振垫



P13

JGD-D1型橡胶剪切隔振器



P14

Zd型阻尼弹簧减振器



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吊架、减振器系列



P16

镶嵌式、法兰式橡胶鸭嘴阀



P17

JXF型可曲挠滤污伸缩接头



P18

可曲挠橡胶接头埋地防护装置



P19

JDZ型通用波纹管



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HF型波纹补偿器



P21

JTW型金属软管



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风机盘管接头

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OMBW型直埋式波纹管



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ZBY直埋外压式轴向波纹补偿器



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JWY无约束型波纹补偿器



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DBHKXW型大波纹板盒型可限位伸缩补偿器



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FXL小拉杆横向波纹补偿器



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FDL大拉杆横向型波纹补偿器



P30

DW单式万向铰链型补偿器



P31

DJ单式铰链型波纹补偿器



P32

PP旁通直管压力平衡补偿器



P33

ZP直管压力平衡型波纹补偿器



P34

Wp弯管压力平衡型波纹补偿器



P35

三维球形补偿器



P01

F型压力平衡型补偿接头



P02

YTXZ型无推力旋转式补偿器



P03

TD单项热力套筒补偿器



P01

TS双项热力套筒补偿器



P02

JDZ型通用波纹管



P03

JTW型金属软管



P36

煤粉管道三向补偿器



P39

Xz免维护旋转补偿器



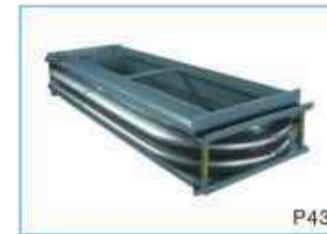
P40

CE金属矩形波纹补偿器



P41

矩形三波补偿器



P43

矩形圆角双波补偿器(半高)



P44

矩形圆角四波补偿器(半高)

产品索引 Product index

产品索引 Product index



P46

ZB型织物纤维补偿器
(圆形)



P47

FUB型橡胶风道补偿器



P48

ZB型织物纤维补偿器 (矩形)



P52

CS型热力管道伸缩器



P53

法兰式不限位伸缩节



P54

TTB-B系列弹性套管式
补偿器



P55

TWB系列、ZTWB系列注油式
直流介质无推力套筒补偿器



P56

E型球型补偿接头



P57

D型大挠度松套补偿接头



P58

F型压力平衡型补偿接头



P59

YTXZ型无推力旋转式补偿器



P60

TD单项热力套筒补偿器



P61

TS双项热力套筒补偿器



P62

SSQ型套管式伸缩器



P63

SSJB(A Y)型压盖式松套
伸缩接头



P64

SSJB-2(B Y)型压盖式松套
限位伸缩接头



P64

SSJB-3(B Y)型压盖式松套
限位伸缩接头



P65

VSSJA(A F)型法兰式
松套伸缩接头



P66

VSSJA-1(B F)型单法
兰松套限位伸缩接头



P67

VSSJA-2(B2 F)型双法
兰松套限位伸缩接头



P68

VSSJAFG(C F)型单法
兰松套传力接头



P69

VSSJAF(C2 F)型双法
兰松套传力接头



P70

VSSJAF(C C2 F)型可拆
式双法兰松套传力接头



P71

KRHD型钢制卡箍接头



P72

S312、02S404柔性、刚
性防水套管



P72

S312、02S404柔性、刚
性防水套管



P73

两侧防护刚性密闭套管



P73

两侧防护刚性密闭套管

产品索引 Product index

| | | | |
|--|--|--|--|
|  P74 |  P75 |  P75 |  P76 |
| 承口直口管道快速堵漏器 | Y型管道过滤器 | SSLW型滤网伸缩器 | CWQ除污器 |
|  P77 |  P77 |  P77 |  P78 |
| D341X双法兰式双向软密封手动蝶阀 | D371X对夹式双向软密封手动蝶阀 | D341X双法兰式管网自锁蝶阀 | D371X对夹式管网自锁蝶阀 |
|  P78 |  P78 |  P79 |  P79 |
| D941X电动双法兰式蝶阀 | D971X电动对夹式蝶阀 | D641X气动双法兰式蝶阀 | D671X气动对夹式蝶阀 |
|  P79 |  P80 |  P80 |  P80 |
| SD341X(专利产品)伸缩式双向软密封手动双法兰蝶阀 | D341H法兰式硬密封手动蝶阀 | D371H对夹式硬密封手动蝶阀 | SD341H伸缩式硬密封手动双法兰蝶阀 |

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可曲挠橡胶接头 Flexible rubber joint

产品特性

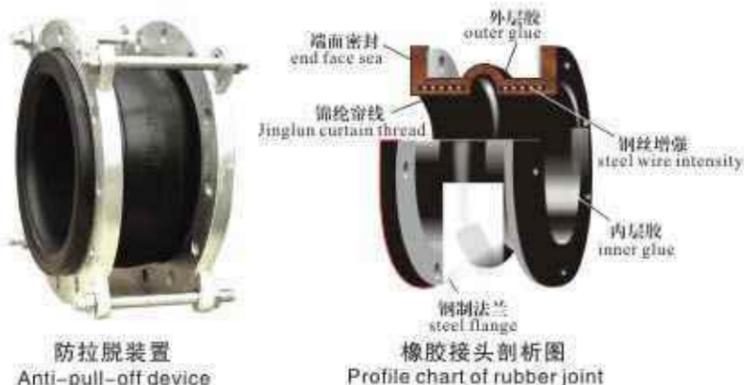
该产品主要利用橡胶的独特性能，如高弹性、高气密性、耐介质性和耐候性及耐辐射性等，采用高强度，冷热稳定性强的聚酯帘布斜交与之复合后，经高压、高温模压交联而成。内部致密度高，能承受较高压力，弹性变形效果优异。产品结构设计断面弧高、曲线长，具有较大的多向位移功能。特别适用于地质条件复杂，沉降幅度大和管道运行中冷热变化频繁易造成管道损伤的场所。利用橡胶的弹性滑动转移和变形机械力的转热散逸功能有效的消除泵、阀及管道自身的位移物理破坏。

因橡胶属不良传导材料，所以它又是一种良好的降低振动和噪声传递的理想环保产品。该产品设计内壁光滑，经实际测试，对介质的流速，流量无任何影响，并且永不生锈，基本可以免除有效运行期内的维修。

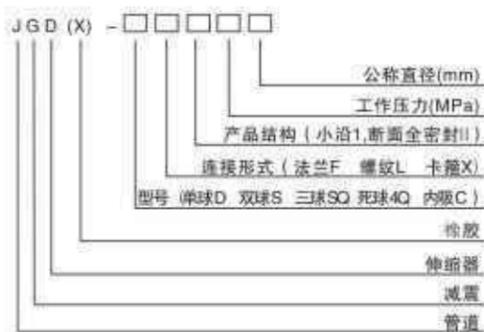
产品应用范围

由于可曲挠橡胶接头有良好的综合性能，主要用于原水和污水的提升和输送，火力发电厂的给水和冷却循环水、冶金行业的冷凝水、化工行业的化学物质的管道输送、石化行业的冷却、稀释及其它行业的长短距离管线间的柔性连接。因为橡胶具有较高的耐磨性，还适用于一切行业的粒状和粉状及气体的低温输送。

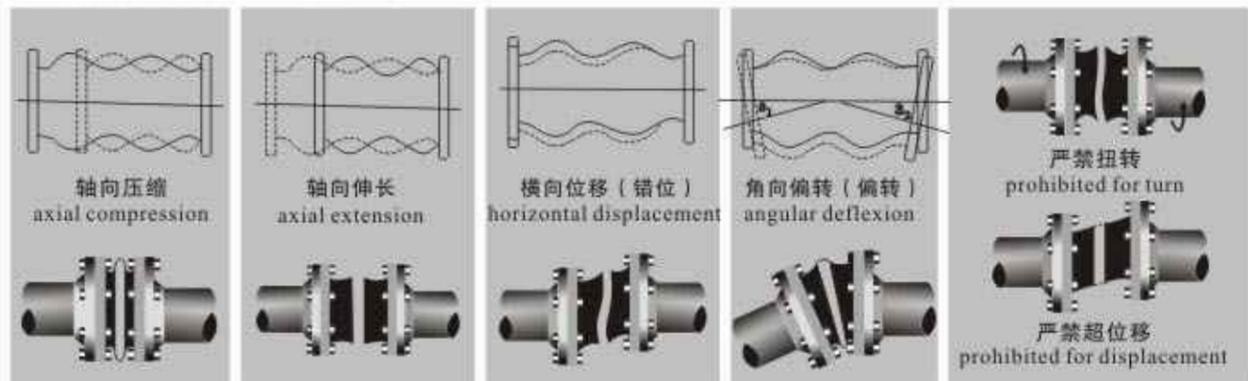
另外，为了保证工程质量，特别提请设计部门及使用单位注意，如果您将该产品设计安装于水泵的出口近端或管道的转角部位时，务请注明增设防拉脱限位装置。如果您的管道需埋设于地下，请使用我公司新增专利产品地理防护装置。总之，只要您的使用条件中有一定隐患存在，订货时请注明使用条件，我们会及时向您提供满意的答复。



产品标记



可曲挠橡胶接头位移情况示意图 Displacement chart of flexible rubber joint



物理机械性能表 The physical and mechanical properties of the table

| 序号 Serial number | 项目 Project | 指标 index | | 实测值 The measured value | |
|---------------------|--|---|------------------------|---------------------------|----|
| | | 内胶层 The inner rubber layer | 外胶层 The outer layer | | |
| 1 | 拉伸强度度(MPa)≥ The tensile strength of more than or equal to (MPa) | 1.2 | 1.3 | 13.6 | |
| 2 | 拉伸伸长率 (%) ≥ Elongation at break (%) ≥ | 450 | 500 | 564 | |
| 3 | 扯断永久变形 (%) ≤ Permanent deformation (%) ≤ | 25 | 30 | 22 | |
| 4 | 脆性温度℃ ≤ Brittle temperature is less than or equal to | -30 | -30 | -40 | |
| 5 | 粘着强度(DN/m) ≥ Adhesion strength (DN/m) ≥ | 20 | 2.0 | 5.6 | |
| 6 | 热空气老化 (100度 × 48h) Hot air aging (100 ° 48h) | 拉伸强度变化率% Variation rate of tensile strength% | +25-25 | +25-20 | 20 |
| | | 伸长率变化率% Elongated rate% | +10-30 | +10-30 | 5 |
| 7 | 耐酸系数10%H ₂ SO ₄ × 168h ≥ Acid resistant coefficient 10% H ₂ SO ₄ * 168h ≥ | 0.7 | 0.7 | 0.85 | |
| 8 | 耐碱系数10%NaOH × 168h ≥ Alkali resistant coefficient 168h = 10% NaOH * | 0.7 | 0.7 | 0.85 | |

橡胶性能一览表 Rubber properties list

| 橡胶 Rubber | 天然胶 Natural rubber | 丁苯胶 Ding Benjiao | 氯丁胶 Chloroprene rubber | 丁腈胶 Ding Jingjiao | 丁基胶 Butyl rubber | 三元乙丙胶 The third kind of ethylene propylene rubber | 硅橡胶 Silicone rubber | 氟橡胶 Fluorine rubber | 高粘胶 Hypalon | 氯磺化聚乙烯 Chloro sulfonated polyethylene | 物理机械性能 The mechanical properties of vulcanized rubber | |
|--|--|---------------------|---------------------------|----------------------|---------------------|--|------------------------|------------------------|----------------|--|--|------------|
| | | | | | | | | | | | 比重加工性 The proportion of processing | 硬度Hardness |
| 物理机械性能 The mechanical properties of vulcanized rubber | 比重加工性 The proportion of processing | 0.91-0.93 | 0.93-0.94 | 1.15-1.25 | 1.00-1.20 | 0.91-0.93 | 0.86-0.87 | 0.95-0.98 | 1.8-1.82 | 1.11-1.18 | 1.10-1.20 | △ |
| | 硬度Hardness | 10-100 | 30-100 | 10-90 | 15-100 | 20-90 | 30-90 | 30-90 | 50-90 | 50-90 | 50-85 | △ |
| | 拉伸强度kq/cm ² The tensile strength of kq/cm ² | 30-300 | 50-200 | 50-250 | 50-250 | 50-150 | 50-200 | 40-100 | 70-200 | 70-200 | 70-200 | △ |
| | 伸长率% Elongation | 100-1000 | 100-800 | 100-1000 | 100-800 | 100-800 | 100-800 | 50-500 | 100-500 | 100-500 | 100-600 | △ |
| | 撕裂强度 Tear strength | ⊙ | △ | ○ | ○ | ○ | △ | △-x | ○ | ○ | ○ | ○ |
| | 耐弯曲性 Flexure resistance | ⊙ | ○ | ○ | ○ | ⊙ | ○ | ○-x | ○ | ○ | ○ | ○ |
| | 耐磨性 Wear resistance | ⊙ | ⊙ | ⊙-○ | ⊙ | ○ | ○ | △-x | ⊙ | ⊙ | ⊙ | ⊙ |
| 最高使用温度℃ The highest use temperature c | 100 | 100 | 130 | 130 | 150 | 150 | 280 | 300 | 160 | 160 | 160 | |
| 硫化胶物理性能 The physical properties of vulcanized rubber | 脆性温度℃ Brittle temperature | -50~-70 | -30~-60 | -35~-55 | -10~-20 | -30~-55 | -40~-60 | -70~-120 | -10~-50 | -20~-60 | - | - |
| | 耐老化性 Aging resistance | ○ | ○ | ⊙ | ○ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ |
| | 耐臭氧性 Ozone resistance | x | x | ⊙ | x | ⊙ | ⊙ | ⊙ | ⊙ | ○ | ⊙ | ⊙ |
| | 耐透气性 High permeability | ○ | △ | ○-△ | ○-x | ⊙ | ⊙ | ⊙-△ | ○-△ | ⊙ | ○ | ○ |
| 耐介质性 Medium resistance | 汽油Gasoline | x | x | ○ | ⊙ | x | x | △-x | ⊙ | ⊙ | △ | △ |
| | 苯, 强酸, 弱酸 Benzene, strong acid, weak acid | △ | △ | ○ | ○ | ○ | ○ | △-x | ⊙ | △-x | ⊙ | ⊙ |
| | 强碱Alkali | ○ | ○ | ○ | ○ | ○ | ⊙ | ⊙ | x | ⊙ | ⊙ | ⊙ |
| | 弱碱Weak alkali | ○ | ○ | ○ | ○ | ○ | ⊙ | ⊙ | △ | ⊙ | ⊙ | ⊙ |

○-优 ○-良 △-可 x-不可

JGD型可曲挠橡胶接头

JGD type flexible rubber joint

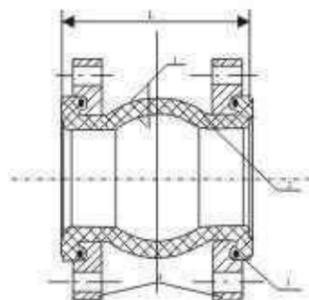


示意图:
1. 主体
2. 内衬
3. 骨架
4. 法兰
注: 此法兰为开槽法兰

主要连接尺寸 Main connecting dimension

| 公称通径DN Nominal diameter | | 长度L Length (mm) | 轴向位移 Axial displacement | | 横向位移 Horizontal displacement (mm) | 偏转角度 Deflexion angle (°) |
|----------------------------|-------|-----------------------|----------------------------|-----------------------|---|--------------------------------|
| mm | inch | | 伸长Extension (mm) | 压缩Compression (mm) | | |
| 32 | 1 1/4 | 95 | 6 | 9 | 9 | 15° |
| 40 | 1 1/2 | 95 | 6 | 10 | 9 | 15° |
| 50 | 2 | 105 | 7 | 10 | 10 | 15° |
| 65 | 2 1/2 | 115 | 7 | 13 | 11 | 15° |
| 80 | 3 | 135 | 8 | 15 | 12 | 15° |
| 100 | 4 | 150 | 10 | 18 | 13 | 15° |
| 125 | 5 | 165 | 12 | 19 | 13 | 15° |
| 150 | 6 | 180 | 12 | 20 | 14 | 15° |
| 200 | 8 | 210 | 16 | 25 | 22 | 15° |
| 250 | 10 | 230 | 16 | 25 | 22 | 15° |
| 300 | 12 | 245 | 16 | 25 | 22 | 15° |
| 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° |
| 1000 | 40 | 260 | 18 | 26 | 24 | 15° |
| 1200 | 48 | 260 | 18 | 26 | 24 | 15° |
| 1400 | 56 | 350 | 20 | 28 | 26 | 15° |
| 1600 | 64 | 350 | 25 | 35 | 30 | 10° |
| 1800 | 72 | 350 | 25 | 35 | 30 | 10° |
| 2000 | 80 | 420 | 25 | 35 | 30 | 10° |
| 2200 | 88 | 420 | 25 | 35 | 30 | 10° |
| 2400 | 96 | 420 | 25 | 35 | 30 | 10° |
| 2600 | 104 | 450 | 25 | 35 | 30 | 10° |
| 2800 | 112 | 450 | 25 | 35 | 30 | 10° |
| 3000 | 120 | 500 | 25 | 35 | 30 | 10° |

注: 1、DN350-1200 PN=1.0MPa 2、DN32-300 PN=1.6MPa 3、特殊要求请来函来图定制 4、高层给水使用本产品, 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. DN350-1200 PN=1.0MPa

2. DN32-300 PN=1.6MPa

3. Please sent us letter and drawing for customization if you have 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 stay or fixed bracket or the force of fixed stay or fixed bracket is not larger than axial force.

KST型可曲挠双球橡胶接头

KST type in a flexible rubber joint double ball

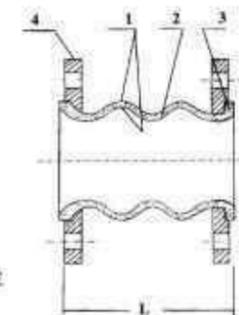


示意图:
1. 主体
2. 内衬
3. 骨架
4. 法兰

注: 此法兰为开槽法兰

各部分材质

技术条件

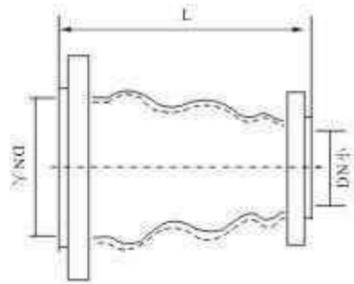
| 序号 | 名称 | 材料 | 型号 | I | II | III |
|----|-------|------------------------|--------------------------------|----------------------|-----------|----------|
| 1 | 内、外层胶 | 11R, CR, EPDM, NR, NBR | 工作压力(MPa(Kg/cm ²)) | 1.0(10) | 1.6(16) | 2.5(25) |
| 2 | 骨架层 | 尼龙帘布 | 爆破压力(MPa(Kg/cm ²)) | 3.0(30) | 4.8(48) | 6.5(55) |
| 3 | 增压环 | 钢丝绳 | 真空度(kPa(mmHg)) | 53.3(400) | 86.7(650) | 100(750) |
| 4 | 法兰 | Q235 | 适用温度(°C) | -15~115, 特殊可达-30~250 | | |
| | | | 适用介质: | 水, 海水, 蒸汽, 油, 酸, 碱等 | | |

主要连接尺寸

| 公称通径DN Nominal diameter | | 长度L Length (mm) | 螺栓中心 The center of the spiral (mm) | 孔径-数量 Aperture Number | 轴向位移 Axial displacement | | 横向位移 Horizontal displacement (mm) | 偏转角度 Deflexion angle (°) |
|----------------------------|-------|-----------------------|--|-----------------------------|-------------------------|---------------------------|--|--------------------------------|
| mm | inch | | | | 伸长 Extension (mm) | 压缩 Compression (mm) | | |
| 40 | 1 1/2 | 165 | 110 | 18-4 | 30 | 50 | 45 | 35 |
| 50 | 2 | 165 | 125 | 18-4 | 30 | 50 | 45 | 35 |
| 65 | 2 1/2 | 175 | 145 | 18-4 | 30 | 50 | 45 | 35 |
| 80 | 3 | 175 | 160 | 18-8 | 35 | 50 | 45 | 35 |
| 100 | 4 | 225 | 180 | 18-8 | 35 | 50 | 40 | 35 |
| 125 | 5 | 225 | 210 | 18-8 | 35 | 50 | 40 | 35 |
| 150 | 6 | 225 | 240 | 22-8 | 35 | 50 | 40 | 35 |
| 200 | 8 | 325 | 295 | 22-8 | 35 | 50 | 40 | 35 |
| 250 | 10 | 325 | 350 | 22-12 | 35 | 60 | 35 | 30 |
| 300 | 12 | 325 | 400 | 22-12 | 35 | 60 | 35 | 30 |
| 350 | 14 | 350 | 460 | 22-16 | 35 | 60 | 35 | 30 |
| 400 | 16 | 350 | 515 | 26-16 | 35 | 60 | 35 | 30 |
| 450 | 18 | 350 | 565 | 26-20 | 35 | 60 | 35 | 30 |
| 500 | 20 | 350 | 620 | 26-20 | 35 | 60 | 35 | 30 |
| 600 | 24 | 400 | 725 | 30-20 | 35 | 60 | 35 | 30 |
| 700 | 28 | 400 | 840 | 30-24 | 35 | 60 | 35 | 30 |
| 800 | 32 | 400 | 950 | 30-34 | 35 | 60 | 35 | 30 |

注: 特殊要求可来函定制

JDX型异径橡胶接头(大小头) JDX type reducing rubber joint (reducer)

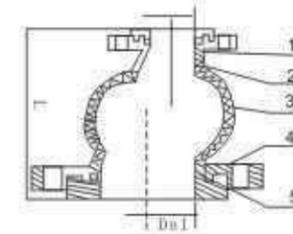


主要连接尺寸 Main connecting dimension

| 公称口径 Nominal diameter DN, XDN | 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 ($\alpha + \beta$) [°] | 公称口径 Nominal diameter DN, XDN | 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 Compression | 压缩 Compression | | | | | 伸长 Compression | 压缩 Compression | | |
| 50x32 | 180 | 20 | 30 | 45 | 35° | 250x125 | 220 | 25 | 35 | 40 | 30° |
| 50x40 | 180 | 20 | 30 | 45 | 35° | 250x150 | 220 | 25 | 35 | 40 | 30° |
| 65x40 | 180 | 20 | 30 | 45 | 35° | 250x200 | 220 | 25 | 35 | 40 | 30° |
| 65x50 | 180 | 20 | 30 | 45 | 35° | 300x125 | 220 | 25 | 35 | 40 | 30° |
| 80x40 | 180 | 20 | 30 | 45 | 35° | 300x150 | 220 | 25 | 35 | 40 | 30° |
| 80x50 | 180 | 20 | 30 | 45 | 35° | 300x200 | 220 | 25 | 35 | 40 | 30° |
| 80x65 | 180 | 20 | 30 | 45 | 35° | 300x250 | 220 | 25 | 35 | 40 | 30° |
| 100x40 | 180 | 20 | 30 | 45 | 35° | 350x150 | 240 | 25 | 35 | 40 | 30° |
| 100x50 | 180 | 20 | 30 | 45 | 35° | 350x200 | 240 | 28 | 38 | 35 | 26° |
| 100x65 | 180 | 22 | 30 | 45 | 35° | 350x250 | 240 | 28 | 38 | 35 | 26° |
| 100x80 | 180 | 22 | 30 | 45 | 35° | 350x300 | 240 | 25 | 35 | 40 | 30° |
| 125x50 | 200 | 22 | 30 | 45 | 35° | 400x200 | 240 | 25 | 35 | 40 | 30° |
| 125x65 | 200 | 22 | 30 | 45 | 35° | 400x250 | 240 | 28 | 38 | 40 | 30° |
| 125x80 | 200 | 22 | 30 | 45 | 35° | 400x300 | 240 | 28 | 38 | 40 | 30° |
| 125x100 | 200 | 22 | 30 | 45 | 35° | 400x350 | 240 | 28 | 38 | 40 | 30° |
| 150x50 | 200 | 22 | 30 | 45 | 35° | 450x300 | 240 | 28 | 38 | 40 | 30° |
| 150x65 | 200 | 22 | 30 | 45 | 35° | 450x350 | 240 | 28 | 38 | 40 | 30° |
| 150x80 | 200 | 22 | 30 | 45 | 35° | 450x400 | 240 | 28 | 38 | 40 | 30° |
| 150x100 | 200 | 22 | 30 | 45 | 35° | 500x350 | 240 | 28 | 38 | 40 | 30° |
| 150x125 | 200 | 22 | 30 | 45 | 35° | 500x400 | 240 | 28 | 38 | 40 | 30° |
| 200x80 | 200 | 22 | 30 | 40 | 30° | 500x450 | 240 | 28 | 38 | 40 | 30° |
| 200x100 | 200 | 22 | 30 | 40 | 30° | 600x400 | 240 | 28 | 38 | 40 | 30° |
| 200x125 | 200 | 25 | 30 | 40 | 30° | 600x450 | 240 | 28 | 38 | 40 | 30° |
| 200x150 | 200 | 25 | 35 | 40 | 30° | 600x500 | 240 | 28 | 38 | 40 | 30° |

注: DN200以上接头, 高压力、高层建筑使用, 管道必须有固定支撑或固定托架, 否则产品必须有防拉脱装置(产品实际轴向力<反支撑力)。
Note: The joints above DN200 used in high pressure and high-rise building, anti-pull-off device should be installed if the pipe has no fixed stay or fixed bracket (actual axial force of the product is less than anti-supporting force)

JGD(KXT)型可曲挠偏心异径橡胶接头 JGD (KXT) type flexible rubber joints eccentric reducer



材料表 Materials Table

| 序号 | 名称 | 材料 |
|----|-----|------------------------|
| 1 | 外层 | 11R, CR, EPDM, NR, NBR |
| 2 | 内层 | 11R, CR, EPDM, NR, NBR |
| 3 | 骨架层 | 聚酯帆布 |
| 4 | 法兰 | Q235, 304 316L |
| 5 | 增强圈 | 钢丝圈 |

公称口径、长度、位移参数表
Nominal diameter, length, displacement parameters table

单位 (mm)
Unit(mm)

| 公称口径 Nominal diameter DN, XDN | 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 ($\alpha + \beta$) [°] | 公称口径 Nominal diameter DN, XDN | 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 Compression | 压缩 Compression | | | | | 伸长 Compression | 压缩 Compression | | |
| 50x32 | 180 | 20 | 30 | 45 | 350 | 250x125 | 220 | 25 | 35 | 40 | 300 |
| 50x40 | 180 | 20 | 30 | 45 | 350 | 250x150 | 220 | 25 | 35 | 40 | 300 |
| 65x40 | 180 | 20 | 30 | 45 | 350 | 250x200 | 220 | 25 | 35 | 40 | 300 |
| 65x50 | 180 | 20 | 30 | 45 | 350 | 300x125 | 220 | 25 | 35 | 40 | 300 |
| 80x40 | 180 | 20 | 30 | 45 | 350 | 300x150 | 220 | 25 | 35 | 40 | 300 |
| 80x50 | 180 | 20 | 30 | 45 | 350 | 300x200 | 220 | 25 | 35 | 40 | 300 |
| 80x65 | 180 | 20 | 30 | 45 | 350 | 300x250 | 220 | 25 | 35 | 40 | 300 |
| 100x40 | 180 | 20 | 30 | 45 | 350 | 350x150 | 240 | 25 | 35 | 40 | 300 |
| 100x50 | 180 | 20 | 30 | 45 | 350 | 350x200 | 240 | 28 | 38 | 35 | 260 |
| 100x65 | 180 | 22 | 30 | 45 | 350 | 350x250 | 240 | 28 | 38 | 35 | 260 |
| 100x80 | 180 | 22 | 30 | 45 | 350 | 350x300 | 240 | 25 | 35 | 40 | 300 |
| 125x50 | 200 | 22 | 30 | 45 | 350 | 400x200 | 240 | 25 | 35 | 40 | 300 |
| 125x65 | 200 | 22 | 30 | 45 | 350 | 400x250 | 240 | 28 | 38 | 40 | 300 |
| 125x80 | 200 | 22 | 30 | 45 | 350 | 400x300 | 240 | 28 | 38 | 40 | 300 |
| 125x100 | 200 | 22 | 30 | 45 | 350 | 400x350 | 240 | 28 | 38 | 40 | 300 |
| 150x50 | 200 | 22 | 30 | 45 | 350 | 450x300 | 240 | 28 | 38 | 40 | 300 |
| 150x65 | 200 | 22 | 30 | 45 | 350 | 450x350 | 240 | 28 | 38 | 40 | 300 |
| 150x80 | 200 | 22 | 30 | 45 | 350 | 450x400 | 240 | 28 | 38 | 40 | 300 |
| 150x100 | 200 | 22 | 30 | 45 | 350 | 500x350 | 240 | 28 | 38 | 40 | 300 |
| 150x125 | 200 | 22 | 30 | 45 | 350 | 500x400 | 240 | 28 | 38 | 40 | 300 |
| 200x80 | 200 | 22 | 30 | 40 | 300 | 500x450 | 240 | 28 | 38 | 40 | 300 |
| 200x100 | 200 | 22 | 30 | 40 | 300 | 600x400 | 240 | 28 | 38 | 40 | 300 |
| 200x125 | 200 | 25 | 30 | 40 | 300 | 600x450 | 240 | 28 | 38 | 40 | 300 |
| 200x150 | 200 | 25 | 35 | 40 | 300 | 600x500 | 240 | 28 | 38 | 40 | 300 |

注: 1. 特殊要求可来函来图定制, 法兰连接可采用GB/T9115-2000标准或者是其他国家标准。
2. 悬空给水使用以上产品, 管道必须有固定支撑或固定托架, 否则产品应安装防拉脱装置。

JGD(KXT)型卡箍式橡胶接头

JGD (KXT) type clamp rubber joint

材料表

| 序号 | 名称 | 材料 |
|----|-----|--------------------|
| 1 | 外胶层 | IIR、CR、EPDM、NR、NBR |
| 2 | 内胶层 | IIR、CR、EPDM、NR、NBR |
| 3 | 骨架层 | 聚酯帘布 |
| 4 | 卡箍 | Q235 304 316L |



公称通径、长度、位移参数表

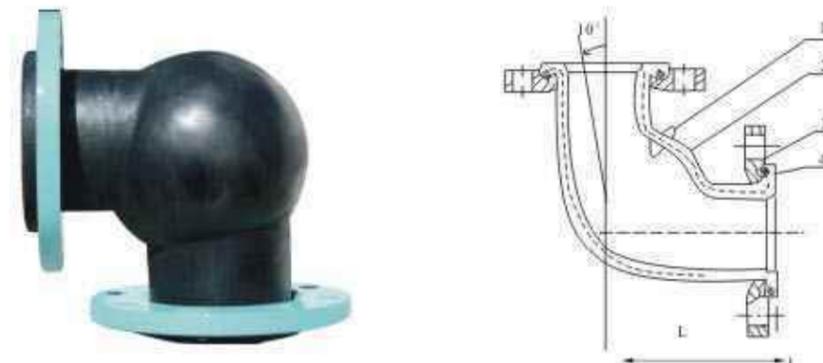
| 公称通径 DN Nominal diameter | | 安装长度 The installation length | 轴向伸长 Axial elongation | 轴向压缩 Axial compression | 径向位移 The radial displacement | 偏转角度 Deflexion angle ($\alpha_1 + \alpha_2$) ⁰ |
|--------------------------|----|---------------------------------|--------------------------|---------------------------|---------------------------------|---|
| mm | 英寸 | | | | | |
| 50 | 2 | 180 | 7 | 10 | 10 | 15° |
| 65 | 2½ | 180 | 7 | 13 | 11 | 15° |
| 80 | 3 | 180 | 8 | 15 | 12 | 15° |
| 100 | 4 | 180 | 10 | 19 | 13 | 15° |
| 125 | 5 | 180 | 12 | 19 | 13 | 15° |
| 150 | 6 | 180 | 12 | 20 | 14 | 15° |
| 200 | 8 | 200 | 16 | 25 | 22 | 15° |
| 250 | 10 | 200 | 16 | 25 | 22 | 15° |
| 300 | 12 | 200 | 16 | 25 | 22 | 15° |
| 350 | 14 | 200 | 16 | 25 | 22 | 15° |
| 400 | 16 | 200 | 16 | 25 | 22 | 15° |
| 450 | 18 | 200 | 16 | 25 | 22 | 15° |
| 500 | 20 | 200 | 16 | 25 | 22 | 15° |
| 600 | 24 | 200 | 16 | 25 | 22 | 15° |
| 700 | 28 | 200 | 16 | 25 | 22 | 10° |
| 800 | 32 | 200 | 16 | 25 | 22 | 10° |
| 900 | 36 | 200 | 16 | 25 | 22 | 10° |
| 1000 | 40 | 200 | 18 | 25 | 22 | 10° |
| 1200 | 48 | 200 | 18 | 25 | 24 | 10° |
| 1400 | 56 | 200 | 20 | 26 | 24 | 10° |
| 1600 | 64 | 200 | 25 | 26 | 26 | 10° |
| 1800 | 72 | 200 | 20 | 26 | 26 | 10° |
| 2000 | 80 | 200 | 20 | 26 | 26 | 10° |

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装在要连接的管道上，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(KXT)-Df执行或按照用户需要设计。
- 5、压力等级从0.25MPa-1.0MPa。

WTX型可曲挠橡胶弯头

WTX type flexible rubber bent



技术条件 Technical Conditions

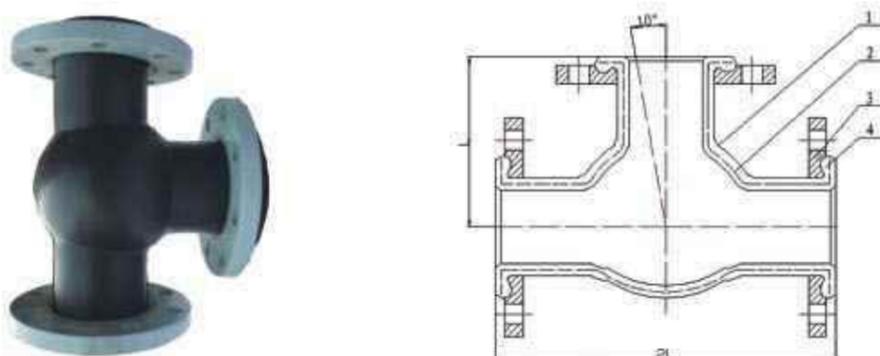
| 型号 Type | WTX-I | WTX-II | WTX-III |
|--|---|-----------|----------|
| 工作压力MPa(Kg f/cm ²) Working Pressure | 1.0(10) | 1.6(16) | 2.5(25) |
| 爆破压力MPa(Kg f/cm ²) Explosion Pressure | 2.0(20) | 3.2(32) | 4.5(45) |
| 真空度KPa(mmHg) Vacuum | 53.3(400) | 86.7(650) | 100(750) |
| 适用温度℃ Applicable Temperature℃ | -15~115, 特殊可达-30~250 -15~115, (for special 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 and alkali etc. | | |

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

主要连接尺寸 Main joint dimension

| 公称通径 DN Nominal diameter | | 安装长度 The installation length | 轴向伸长 Axial elongation | 轴向压缩 Axial compression | 径向位移 The radial displacement | 偏转角度 Deflexion angle ($\alpha_1 + \alpha_2$) ⁰ |
|--------------------------|----|---------------------------------|--------------------------|---------------------------|---------------------------------|---|
| mm | 英寸 | | | | | |
| 50 | 2 | 150 | 20 | 20 | 16 | 20° |
| 65 | 2½ | 150 | 20 | 20 | 16 | 20° |
| 80 | 3 | 160 | 20 | 20 | 16 | 20° |
| 100 | 4 | 170 | 20 | 20 | 16 | 20° |
| 125 | 5 | 200 | 20 | 20 | 16 | 20° |
| 150 | 6 | 230 | 20 | 20 | 16 | 20° |
| 200 | 8 | 265 | 20 | 20 | 16 | 20° |
| 250 | 10 | 280 | 20 | 20 | 16 | 20° |
| 300 | 12 | 320 | 20 | 20 | 16 | 20° |

可曲挠橡胶三通 Flexible rubber tee



技术条件 Technical Conditions

| 型号 Type | WTX-1 | WTX-II | WTX-III |
|---|---|-----------|----------|
| 工作压力MPa(Kg /cm ²) Working Pressure | 1.0(10) | 1.6(16) | 2.5(25) |
| 爆破压力MPa(Kg /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℃ Applicable Temperature℃ | -15-115, 特殊可达-30-250 -15-115, (for special 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 and alkali etc. | | |

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

主要连接尺寸 Main joint dimension

| 公称通径 DN Nominal diameter | | 安装长度 The installation length | 轴向伸长 Axial elongation | 轴向压缩 Axial compression | 径向位移 The radial displacement | 偏转角度 Deflection angle ($\alpha_1 + \alpha_2$)° |
|--------------------------|----|---------------------------------|--------------------------|---------------------------|---------------------------------|--|
| mm | 英寸 | | | | | |
| 50 | 2 | 150 | 20 | 20 | 16 | 20° |
| 65 | 2½ | 150 | 20 | 20 | 16 | 20° |
| 80 | 3 | 160 | 20 | 20 | 16 | 20° |
| 100 | 4 | 170 | 20 | 20 | 16 | 20° |
| 125 | 5 | 200 | 20 | 20 | 16 | 20° |
| 150 | 6 | 230 | 20 | 20 | 16 | 20° |
| 200 | 8 | 265 | 20 | 20 | 16 | 20° |
| 250 | 10 | 280 | 20 | 20 | 16 | 20° |
| 300 | 12 | 320 | 20 | 20 | 16 | 20° |

负压橡胶接头 Negative pressure rubber joint



负压橡胶接头是能够顶吸力的橡胶接头, 简单的说就是外压大于内压(橡胶接头\软接头\橡胶减震器\避震喉): 1、耐负压橡胶接头橡胶接头根据材料不同可制成耐酸、耐碱、耐腐蚀、耐油、耐热等各个品种橡胶接头, 橡胶接头适应多种介质和环境。3、橡胶接头材料属极性橡胶, 橡胶接头密封性好, 橡胶接头重量轻, 橡胶接头安装维修方便、橡胶接头使用寿命长, 橡胶接头但避免与锋利金属器械接触, 以免刺破橡胶接头球体。4、橡胶接头如架空使用可配弹性支架, 橡胶接头安装时螺栓要用对角法上紧。5、橡胶接头如管路压力过高时, 橡胶接头应用极限螺栓将两端法兰连一起。6、橡胶接头法兰连接标准系GB4216.3-4216.5标准, 可另行说明。本产品工作压力等级分0.6Mpa, 1 Mpa、1.6 Mpa、2.5 Mpa。在真空使用可使用负压球体。以免球体变形, 受损。

Negative pressure rubber connector is rubber joints can top suction, simple said is the external pressure is greater than the internal pressure (rubber jointHead \ soft joint rubber shock absorber shock absorber), laryngeal: 1 negative pressure resistant rubber joint rubber joints according to the different materials can be made resistant to Acid and alkali resistance, corrosion resistance, oil resistance, heat resistance and other varieties of rubber joints, rubber joint to adapt to a variety of media and the environment. 3, rubber joint material is a polar rubber, rubber joint sealing, rubber joint of light weight, rubber joint installation Convenient repair, long service life of rubber joints, rubber joints but avoid contact with sharp metal instruments, so as not to puncture the rubber The rubber ball joint. 4, rubber joints such as overhead can be used with elastic support, rubber joint installation bolt to use diagonal Method of tightening. 5, rubber joints such as the pipeline when the pressure is too high, rubber joint application limit bolts at both ends of the flange connected. 6, rubber joint flange connection standard adopted the GB4216.3-4216.5 standard, can be specified separately. The working pressure of the product Grade 0.6Mpa, 1 Mpa, 1.6 Mpa, 2.5 Mpa. The use of negative pressure ball can be used in vacuum. In order to avoid the sphere The deformation, damage.

衬四氟橡胶接头 PTFE lined rubber joint

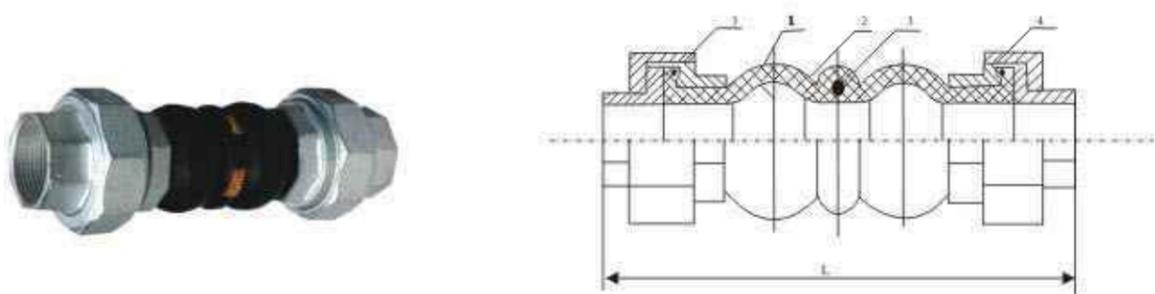


衬四氟可曲挠橡胶接头具有减振、耐高温、能挠曲、耐摩擦等特点。适用于管道错位差、位移、尺寸变化及振动部位的连接。可作贮罐、槽车等设备的给、排料管, 还可作其它特殊之用。其使用范围较广泛, 作用较全面。衬氟橡胶接头的四氟具有优良的化学稳定性、耐腐蚀性, 是当今世界上耐腐蚀性能最佳材料之一, 除熔融金属钠和液氟外, 能耐其它一切化学药品, 在王水中煮沸也不起变化, 广泛应用于各种需要抗酸碱和有机溶剂的。密封性、高润滑不粘性、电绝缘性和良好的抗老化耐力, 耐温优异 (能在+250℃至-180℃的温度下长期工作)。衬氟橡胶接头适用于各种介质的管道连接。

衬四氟橡胶接头具有良好的耐酸碱、耐腐蚀性能, 可以用在各种强酸强碱等介质管道中, 在一些化工管道和制酸工业中具有重要的作用。

PTFE lined flexible rubber joint with vibration, high temperature resistance, flexural resistance, friction characteristics can: Suitable for connecting tubing misplacement difference, displacement, change in size and vibration parts. Can be used as a storage tank. To exhaust pipe material, tanker and other equipment, but also can be used for other special purposes. The application range is wide, function more comprehensive. Fluorine rubber joint PTFE has excellent chemical stability, corrosion resistance. Corrosion resistant material is one of the best in the world. In addition to the molten metal and liquid sodium fluoride, the ability of all other chemicals, in aqua regia in boiling does not change, widely used in anti Acid and alkali and organic solvents. Sealing, high viscosity lubrication, electric resistance and good anti-aging endurance, temperature resistance excellent insulation (can work in +250 deg.c to -180 deg.c temperature long term). Fluorine rubber Pipe joint applicable to all kinds of media connection. PTFE lined rubber joint has good acid and alkali resistance, corrosion resistance, can be used in a variety of acid and alkali medium pipes, plays an important role in some chemical pipes and acid industry.

JGD-B型丝扣连接橡胶接头 JGD-B type screwed connection rubber joint



各部分材质 material of all parts

| 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 | 钢丝绳 Steel wire |
| 4 | 螺纹活接头 Thread woggle joint | 可锻铸铁 Forged cast iron |

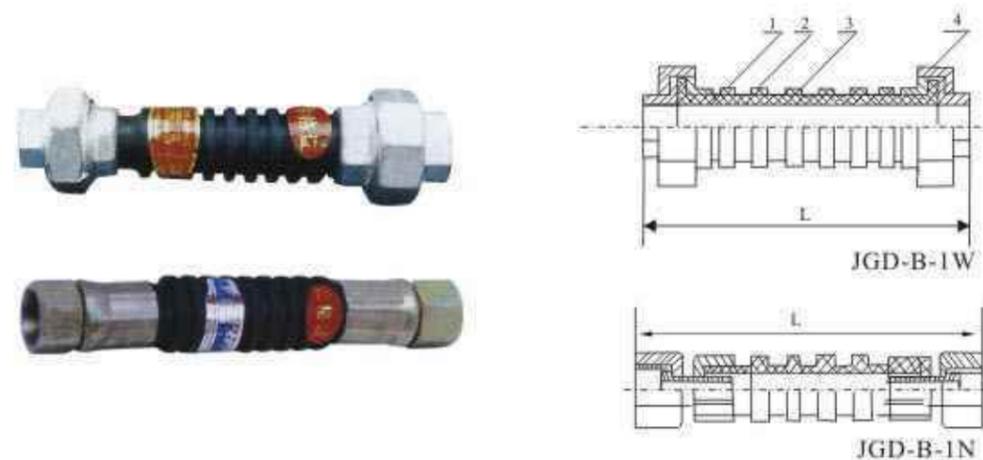
技术条件 Technical Conditions

| | | | |
|-----------------------------------|--|-------------------------|----------------------|
| 工作压力 Working Pressure | 1.6MPa(16Kg/cm ²) | 偏转角度 Deflexion angle | (α+α) ^{45°} |
| 爆破压力 Explosion Pressure | 4.8MPa(48Kg/cm ²) | 真空度 vacuum | 53.3KPa(400mmHg) |
| 适用温度 Applicable Temperature/°C | -15~+115℃, 特殊可达-30~+250℃ -15~115℃, (for special conditions) it can be -30~+250℃ | | |
| 适用介质 Applicable Media | 水、海水、热水、空气、压缩空气、油、酸、碱等化学物质 Water, sea water, hot water, air, compressed air, oil, acid, alkali etc. | | |

主要连接尺寸 Main joint dimension

| 公称直径DN Nominal diameter | | 长度 L Length (mm) | 轴向位移 Axial displacement | | 横向位移 Horizontal displacement (mm) | 偏转角度 Deflexion angle (α, β)° |
|----------------------------|-------|---------------------|----------------------------|---------------------|--------------------------------------|---------------------------------|
| mm | Inch | | 伸长 Extension (mm) | 压缩 Compression (mm) | | |
| 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 | 200 | 5-6 | 22 | 22 | 45° |
| 50 | 2 | 200 | 5-6 | 22 | 22 | 45° |
| 65 | 2 1/2 | 265 | 8-10 | 24 | 24 | 45° |
| 80 | 3 | 285 | 8-10 | 24 | 24 | 45° |

JGD-B1型风机盘管橡胶接头 JGD-B1 type fan coil rubber joint



产品介绍:

该产品由内层胶、多层刮胶帘子布增强、外层胶构成的橡胶管和金属活接头组成。具有耐压高、弹性好、偏转位移量大、耐老化、吸震好等特点,适用于宾馆、饭店客房的空调用各种风机盘管机组的进出口管道连接。

Product introduce: this product is composed of inner rubber, rubber hose made up multi-layer coating cord fabric and outer rubber and metallic active joint With advantage features of high pressure resistance, good flexibility, large deflection displacement, ageing resistance and good vibration absorption, it is applied to the inlet and outlet pipe connection of the variable fan-coil unit used in air conditioner of hotels.

各部分材质 material of all parts

| 序号 No | 名称 Name | 材料 Material |
|-------|------------------------------|----------------------------------|
| 1 | 内层胶 Inner glue | 耐热橡胶 Heat resistance rubber |
| 2 | 外层胶 Outer glue | 耐老化橡胶 Aging resistance rubber |
| 3 | 增强层 Reinforcing layer | 尼龙帘布 Nylon cord fabric |
| 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 | 1.6MPa |
| 爆破压力 Explosion Pressure | 4.8MPa |
| 适用温度 Applicable Temperature/°C | -20℃~115℃ |
| 适用介质 Applicable Media | 水、热水、空气 Water, hot water, air |

主要连接尺寸 Main joint dimension

| 公称直径DN Nominal diameter (mm) | 长度 Length (mm) | | 轴向压缩 Axial compression (mm) | 轴向伸长 Axial extension (mm) | 横向位移 Horizontal displacement (mm) | 偏转角度 Deflexion angle (α, β)° |
|---------------------------------|----------------|----------|--------------------------------|------------------------------|--------------------------------------|---------------------------------|
| | JGD-B-1N | JGD-B-1W | | | | |
| 15 | 180 | 195 | 10 | 5 | 20 | 45° |
| 20 | 200 | 220 | 10 | 5 | 20 | 45° |
| 25 | 220 | 240 | 10 | 5 | 20 | 45° |

主要连接尺寸 Main joint dimension

| DN ₁ × DN ₂ | 长度 Length (mm) | 轴向压缩 Axial compression (mm) | 轴向伸长 Axial extension (mm) | 横向位移 Horizontal displacement (mm) | 偏转角度 Deflexion angle (α, β)° |
|-----------------------------------|----------------|--------------------------------|------------------------------|--------------------------------------|---------------------------------|
| 20 × 15 | 200 | 10 | 5 | 25 | 45° |
| 25 × 20 | 220 | 10 | 5 | 25 | 45° |
| 32 × 25 | 220 | 10 | 5 | 25 | 45° |
| 40 × 32 | 240 | 10 | 5 | 25 | 45° |

JGD-D型橡胶隔振垫 JGD-D type rubber vibration isolator

产品介绍 Product introduce

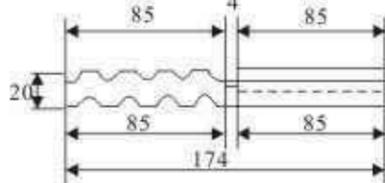
该厂生产的橡胶隔振垫种类繁多、规格齐全。便于裁切，组装灵活，可有效地抗压减震，适用于冲床、锻压机、泵、风机、压缩机、发电机、空调设备等震动设备震动大的机电设备减震安装。

主要尺寸(长×宽, 单位: mm), 85×42.5、85×85、131.5×85、174×85、220.5×85、263×85、174×174、263×174, 每一尺寸又分40°、60°、80°三种规格, 可适应不同垂向设计荷载。

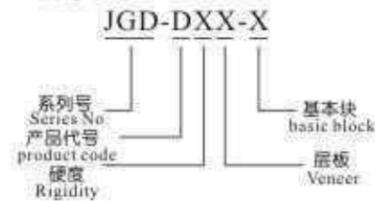
Being complete in specifications and of great variety, the rubber vibration isolators produced by our factory are convenient for cutting and flexible for assembling, and they can effectively resist compression and reduce vibration, applied for the vibration absorbing installation of electromechanical devices with serious vibration such as punching machine, forging press, pump, draught fan, compressor, electric generator and air conditioning unit and so on. Main dimension (Length × width, unit: mm), 85×42.5, 85×85, 131.5×85, 174×85, 220.5×85, 263×85, 174×174, 263×174, each is divided into three specifications: 40°, 60°, 80°, which get with different vertical design load.



结构示意图(基本块)
Structure chart (basic block)



代号示意图 code chart



JGD-D型橡胶隔振垫插入损失分贝(dB)

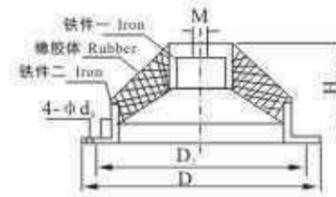
JGD-D type rubber vibration isolator insertion loss dB (dB)

| 隔振垫橡胶硬度 Rigidity of rubber vibration isolating pad | 隔振垫层数 Layers of pad | 插入损失 [分贝] 加速度 Insertion loss (db) acceleration | | 垂向荷载 Vertical loading MPa(Kg-1/cm ²) |
|--|------------------------|---|--------------|--|
| | | 31.5-400赫兹 31.5-400 Hz | 线性 Linearity | |
| 40° | 1 | 11-30 | 31 | 0.05-0.12 (0.5-1.2) |
| | 2 | 11-28 | 26 | |
| | 3 | 7-38 | 26 | |
| | 4 | 11-34 | 31 | |
| 60° | 1 | 10-32 | 31 | 0.2-0.3 (2.0-3.2) |
| | 2 | 6-32 | 31 | |
| | 3 | 10-33 | 26 | |
| | 4 | 8-33 | 31 | |
| 80° | 1 | 5-22 | 8 | 0.4-0.8 (4.0-8.0) |
| | 2 | 9-22 | 22 | |
| | 3 | 12-29 | 20 | |
| | 4 | 7-29 | 23 | |

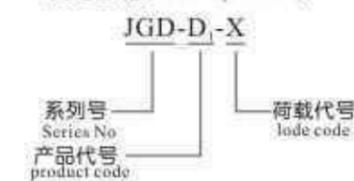
JGD-D1型橡胶剪切隔振器 JGD-D1 type rubber cutting vibration isolator

D1型橡胶剪切隔振器是由内、外钢套和中间的合成橡胶组成, 经硫化呈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-5~+50℃温度变化时, 刚度也有所变化; 阻尼比 $C/C_c > 0.07$ 。对于水泵、压缩机、通风机、发电机组、冷冻机等机械设备的积极隔振和仪器仪表的消极隔振, 都有良好的隔振效果。

D1 type rubber cutting vibration isolator is composed of internal 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 range and low free-running frequency. The working temperature range is -5℃~+50℃, as the temperature changes, the rigidity changes; damping ratio is $C/C_c > 0.07$. 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.



代号示意图(Code implication):



| 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/cm ²) Stiffness | 变形 Distortion | 固有频率 (Hz) Natural frequency | 最佳荷载 (Kg) Best load |
|------------|-------------------------|-----|----------------|-----|------|--|--|------------------|-----------------------------------|---------------------------|
| | M | D | D ₁ | H | d | | | | | |
| JGD-A | M10 | 100 | 80 | 43 | 8.5 | 5-15 | 20 | 2-8 | 8-14 | 10 |
| JGD-B | M10 | 100 | 80 | 43 | 8.5 | 10-30 | 36 | | | 20 |
| JGD-A | M12 | 150 | 130 | 65 | 8.5 | 20-60 | 60 | 4-12 | 7-12 | 40 |
| JGD-B | M12 | 150 | 130 | 65 | 8.5 | 40-120 | 90 | | | 80 |
| JGD-A | M16 | 200 | 170 | 87 | 12.5 | 80-240 | 120 | 5-16 | 6-11 | 160 |
| JGD-B | M16 | 200 | 170 | 87 | 12.5 | 160-480 | 200 | | | 320 |
| JGD-A | M20 | 290 | 260 | 133 | 12.5 | 320-960 | 300 | 8-24 | 5-9 | 640 |
| JGD-B | M20 | 290 | 260 | 133 | 12.5 | 640-1920 | 650 | | | 1280 |

ZD型阻尼弹簧减振器 ZD type damping spring shock absorber

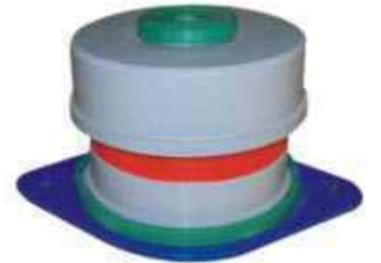
产品介绍 Product introduce

ZD型阻尼弹簧减振器具有弹簧减振器的低频率和橡胶减振器的大阻尼等双重优点, 将两者的优点结合, 消除了弹簧减振器共振时振幅激增的现象, 又解决了橡胶减振器固有频率较高的难题, 是积极、消极隔振的理想产品。

ZD型阻尼减振器荷载范围广、适应性强, 对积极隔振、消极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, 其正常工作荷载范围内固有频率在1.5Hz~4.9Hz之间, 阻尼比为0.065。是空调、恒温设备、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。

适用设备 Suitable equipment

水泵、风机、冷水机组、落地式新风机、组合式空调机、柜式空调机、屋顶式空调机、离心风机。荷载范围: 30-3300Kg。

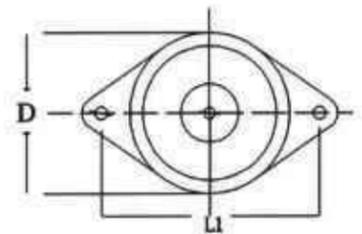
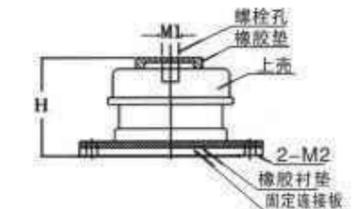


ZD型阻尼弹簧减振器外形尺寸及技术特性表

ZD type damping spring damper dimensions and technical characteristics table

| 产品型号 Type | 荷载范围 Load range (kg) | 竖向刚度 Vertical stiffness (N/mm) | 外形尺寸 (mm) Size and shape | | | | |
|--------------|----------------------------|--------------------------------------|--------------------------|-----|-----|-----|-------|
| | | | H | D | LI | MI | MZ |
| ZD-1 | 30-45 | 16 | 85 | 132 | 158 | M12 | M12x2 |
| ZD-2 | 45-80 | 30 | 85 | 132 | 158 | M12 | M12x2 |
| ZD-3 | 80-120 | 40 | 85 | 132 | 158 | M12 | M12x2 |
| ZD-4 | 120-160 | 44 | 100 | 132 | 158 | M12 | M12x2 |
| ZD-5 | 160-200 | 54 | 100 | 132 | 158 | M12 | M12x2 |
| ZD-6 | 200-260 | 59 | 105 | 132 | 158 | M12 | M12x2 |
| ZD-7 | 260-320 | 67 | 105 | 132 | 158 | M12 | M12x2 |
| ZD-8 | 320-360 | 73 | 112 | 160 | 208 | M12 | M13x2 |
| ZD-9 | 360-420 | 89 | 112 | 160 | 208 | M12 | M13x2 |
| ZD-10 | 420-480 | 102 | 112 | 160 | 208 | M12 | M13x2 |
| ZD-11 | 480-550 | 129 | 115 | 160 | 208 | M12 | M13x2 |
| ZD-12 | 550-630 | 180 | 115 | 160 | 208 | M12 | M13x2 |
| ZD-13 | 630-700 | 196 | 125 | 193 | 235 | M12 | M13x2 |
| ZD-14 | 700-800 | 240 | 125 | 193 | 235 | M16 | M13x2 |
| ZD-15 | 800-900 | 289 | 125 | 193 | 235 | M16 | M13x2 |
| ZD-16 | 900-1050 | 340 | 128 | 193 | 235 | M16 | M13x2 |
| ZD-17 | 1050-1200 | 420 | 128 | 193 | 235 | M16 | M13x2 |
| ZD-18 | 1200-1650 | 502 | 155 | 245 | 305 | M16 | M15x2 |
| ZD-19 | 1650-2200 | 650 | 155 | 245 | 305 | M16 | M15x2 |
| ZD-20 | 2200-2750 | 720 | 155 | 245 | 305 | M16 | M15x2 |
| ZD-21 | 2750-3300 | 804 | 155 | 245 | 305 | M16 | M15x2 |

注: 可根据客户要求生产定做。



吊架、减振器系列
Hangers, shock absorber series



产品介绍

在建筑等行业中，设备或管道需要吊架或减振器。因设备产生的振动影响环境或外来的振动影响设备的情况不少。吊架、减振器系列是根据用户需求和工程设备吊装的实际需要而开发的产品，该产品具有阻尼比大、自振频率低、安装方便、对固体传声有明显的降噪效果等优点，对于各种大小设备及管道的吊架普遍适用。

Product introduction

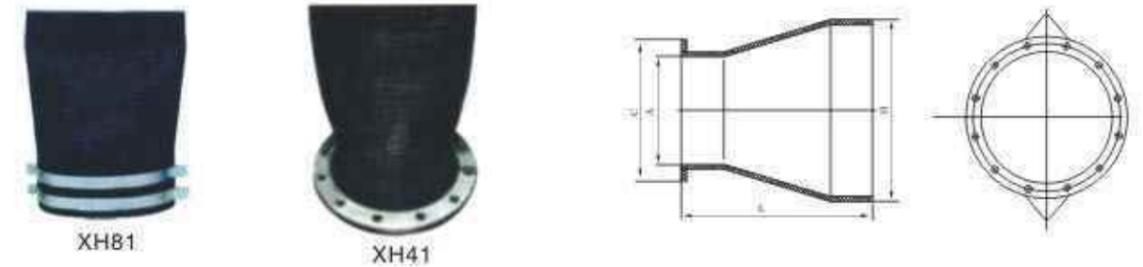
In the construction industry, the equipment or pipeline hanger or shock absorbers need Device. Because the equipment vibration generated by affecting the environment or external vibration influence the case of a lot of sound equipment. Hangers, shock absorber series is based on the user And the development of the actual needs and engineering equipment hoisting products, the Products with large damping ratio, low natural vibration frequency, convenient installation, on the solid Body microphone has the advantages obvious effect of noise reduction, for a variety of size Hoisting equipment and pipeline generally applicable.

主要数据 The main data

| 型号 Model | 承载范围N Load N | 自振频率Hz The self vibration frequency of Hz | 预压变形-最大变形mm Deformation range mm |
|----------|--------------|---|----------------------------------|
| HQ-30 | 20-30 | 4.8-2.8 | 11-30 |
| HQ-50 | 30-50 | 4.5-3.2 | 12-25 |
| HQ-80 | 50-80 | 4.9-3.5 | 10-20 |
| HQ-140 | 80-140 | 4.7-3.5 | 10-22 |
| HQ-200 | 140-200 | 4.6-3.3 | 12-23 |
| HQ-240 | 200-240 | 4.7-3.3 | 12-24 |
| HQ-300 | 240-300 | 4.7-3.2 | 13-25 |
| HQ-350 | 300-350 | 4.8-3.3 | 13-25 |
| HQ-400 | 350-400 | 4.8-3.2 | 13-25 |
| HQA-15 | 8-15 | 4.8-3.3 | 11-22 |
| HQA-30 | 15-30 | 4.2-3 | 13-25 |
| HQA-40 | 30-40 | 3.8-2.7 | 17-30 |
| HQA-60 | 40-60 | 3.5-2.5 | 20-30 |
| HQA-80 | 60-80 | 3.5-2.5 | 19-35 |
| HQA-120 | 80-120 | 3.5-2.7 | 19-35 |
| HQA-160 | 120-160 | 3.6-2.7 | 20-30 |
| HQA-180 | 160-180 | 3.6-2.7 | 20-32 |
| HQA-200 | 180-200 | 3.9-2.6 | 20-33 |

以上产品未注明参数的均可按用户要求提供
The above products are not specified parameters can be provided according to user requirements

镶嵌式、法兰式橡胶鸭嘴阀
Mosaic type, flange type rubber duckbill valve



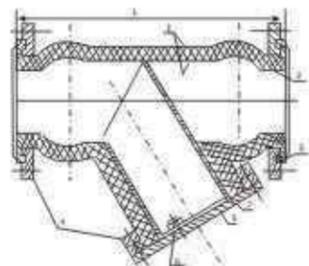
镶嵌式主要连接尺寸 Mosaic type main joint dimension

| 型号 type | 管道公称直径 nominal diameter of pipe | 长度L length | 高度H height | 法兰外径C external diameter of flange |
|-----------------|---------------------------------|------------|------------|-----------------------------------|
| XH8150-125-X | 50 | 125 | 47 | 150 |
| XH8180-175-X | 80 | 175 | 72 | 200 |
| XH81100-225-X | 100 | 225 | 97 | 225 |
| XH81150-320-X | 150 | 320 | 47 | 275 |
| XH81200-375-X | 200 | 375 | 197 | 338 |
| XH81250-475-X | 250 | 475 | 247 | 400 |
| XH81300-560-X | 300 | 560 | 297 | 485 |
| XH81350-625-X | 350 | 625 | 344 | 525 |
| XH81400-700-X | 400 | 700 | 394 | 588 |
| XH81450-780-X | 450 | 780 | 444 | 625 |
| XH81500-880-X | 500 | 880 | 494 | 688 |
| XH81600-1000-X | 600 | 1000 | 494 | 800 |
| XH81700-1000-X | 700 | 1100 | 694 | 969 |
| XH81800-1260-X | 800 | 1260 | 794 | 1080 |
| XH81900-1400-X | 900 | 1400 | 894 | 1150 |
| XH811000-1520-X | 1000 | 1520 | 988 | 125 |
| XH811200-1725-X | 1200 | 1725 | 1188 | 1485 |

法兰式主要连接尺寸 Flange type main joint dimension

| 型号 type | 管道公称直径 nominal diameter of pipe | 长度L length | 高度H height | 法兰外径C external diameter of flange |
|-----------------|---------------------------------|------------|------------|-----------------------------------|
| XH4150-150-F | 50 | 150 | 100 | 150 |
| XH4180-220-F | 80 | 220 | 140 | 200 |
| XH41100-250-F | 100 | 250 | 200 | 225 |
| XH41150-340-F | 150 | 340 | 265 | 275 |
| XH41200-420-F | 200 | 420 | 325 | 338 |
| XH41250-520-F | 250 | 520 | 425 | 400 |
| XH41300-620-F | 300 | 620 | 525 | 485 |
| XH41350-700-F | 350 | 700 | 625 | 525 |
| XH41400-800-F | 400 | 800 | 725 | 588 |
| XH41450-900-F | 450 | 900 | 825 | 625 |
| XH41500-980-F | 500 | 980 | 925 | 688 |
| XH41600-1120-F | 600 | 1120 | 1025 | 800 |
| XH41700-1180-F | 700 | 1180 | 1125 | 969 |
| XH41800-1350-F | 800 | 1350 | 1400 | 1080 |
| XH41900-1500-F | 900 | 1500 | 1525 | 1150 |
| XH411000-1600-F | 1000 | 1600 | 1725 | 1325 |
| XH411200-1840-F | 1200 | 1840 | 1950 | 1485 |

JXF型可曲挠滤污伸缩接头 JXF flexible dirt filtering expansion joint



各部分材质 Each part of the material

| 序号 No. | 名称 Name | 材料 Material Science |
|--------|-------------------------------|---------------------------------|
| 1 | 内、外层胶 The inner, outer rubber | NR, NBR, EPDM |
| 2 | 主体骨架 The main skeleton | 尼龙帘布 Nylon cord |
| 3 | 增压环 The booster ring | 多股镀锌铜丝 Multi strand copper wire |
| 4 | 法兰 Flange | Q235 |
| 5 | 堵头 Plug | Q235 |
| 6 | 螺栓 Bolt | 45 |
| 7 | 滤网 Filter | 不锈钢 Stainless steel |

技术条件 Technology conditions

| 项目 Project | 型号 Model | JXF-1 | JXF-1.6 | JXS-1 | JXS-1.6 |
|----------------------------------|----------|---|------------|------------|------------|
| 工作压力 Mpa (Kg.f/cm ²) | | 1 (10) | 1.6 (16) | 1 (10) | 1.6 (16) |
| 爆破压力 Mpa (Kg.f/cm ²) | | 1.5 (15) | 2 (20) | 2 (20) | 2.4 (24) |
| 真空度 Mpa (mmHg) | | 53.3 (400) | 86.7 (650) | 53.3 (400) | 86.7 (650) |
| 适用温度 Applicable temperature | | -15~115, 特殊可达 -30~250 The special 15~115, up to -30~250 | | | |
| 适用介质 Applicable medium | | 空气、压缩空气、水、海水、热水、油、酸、碱等化学物质 Air, compressed air, water, sea water, hot water, oil, acid, alkali and other chemical substances | | | |

主要连接尺寸 Main connection dimensions (JXF)

| 公称通径 DN Nominal diameter of DN | | 长度 (mm) Length (mm) | 轴向位移 Axial displacement | | 偏转位移 (α±β)° Deflection |
|-----------------------------------|------|------------------------|-------------------------|----------------|---------------------------|
| mm | Inch | | 伸长 Elongation | 压缩 Compression | |
| 50 | 2 | 290 | 15 | 23 | 8 |
| 80 | 3 | 320 | 20 | 25 | 8 |
| 100 | 4 | 405 | 20 | 25 | 8 |
| 150 | 6 | 500 | 22 | 34 | 8 |
| 200 | 8 | 560 | 23 | 36 | 8 |

注：JXS型为丝扣连接，JXF型为法兰连接。
Note: for the JXS type for the threaded connection, flange connection type for JXF.

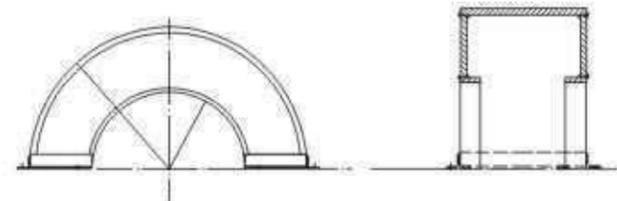
可曲挠橡胶接头埋地防护装置 Flexible rubber joint of buried protective device

可曲挠橡胶接头埋地防护装置，周边留有充足空间，绝不影响橡胶接头的位移性能，又能使橡胶接头与外部填土隔离，还能使管道在该装置两端自由滑动，不产生任何阻力。管线安装完后经回填夯实地面照样平整如初。车辆行使、堆放重物或安装设备不受任何影响。

此埋地装置为两个半圆形中空组合而成，将橡胶头和管道平焊法兰全部装入体内，两端设有两半圆形小平面带钢骑于两侧法兰外管壁，两端立面支撑根据土层深度而定，足以承受外压负重。该装置配有一定数量对合锁紧螺栓，以备安装完毕后装配。其安装方法为：安装橡胶接头—保护装置内涂防锈漆—安装下部1/2保护装置—放上上部1、2保护装置—旋紧对合锁紧螺栓（注意安装时要使橡胶接头确保处于装置中心位置）—保护装置外涂防锈漆回填原土，下部夯实，上部夯实—三合土和垫层—铺设地面（最好在适当位置设有永久性标志，以备以后检查更换时确定位置）。

特别提醒注意：订货时务必提供埋地深度，以便我们为您设计合理的保护装置。该保护装置只要在安装时表面防腐处理做好，一般可使用30年以上。

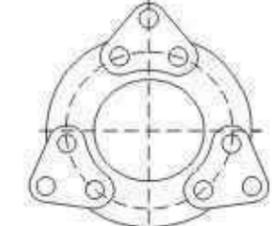
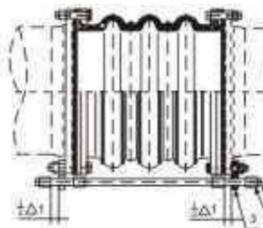
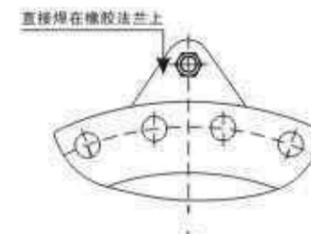
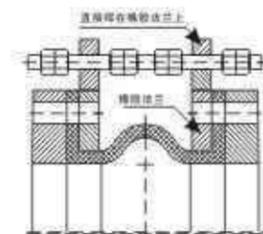
Flexible rubber joint of buried protective device, the surrounding leave plenty of space, not affect the displacement performance of rubber joints, fork can make the rubber joint with external filling isolation, but also make the pipeline in the assembly The free sliding ends, does not produce any resistance. Pipeline installed after backfilling ground so smooth as ever. Exercise of vehicles, piling up weights or installation of equipment is not affected. Here the embedded device into 2.5 circular hollow combined, the rubber head and pipe flange are all installed in the body, both ends are provided with two half circular small plane ride in two sides with steel flange outer tube wall, two End elevation support according to soil depth and decide, enough to withstand external pressure loading. The device is equipped with a certain number of table locking bolt, for after installation assembly. The installation method: Installation of rubber joint- in the protective device coated with antirust Qiyi 1/2 protection device on the upper 1, 2 protection device is screwed on the locking bolt (close attention should be installed so that the rubber joints to ensure in the device center) A protection device coated with antirust paint raw soil backfill lamping tamping, the lower part, the upper one three soil and cushion a laying on the ground (the best in the proper position is provided with a permanent marker, for later check replacement is indeed The fixed position). Special remind note: be sure to provide the buried depth ordering, so we set the protection device for the reasonable for you. The protective device as long as the installation of surface treatment of good, generally can be used More than 30 years.



橡胶接头防拉脱限位装置 Rubber joint anti pull off limiting device

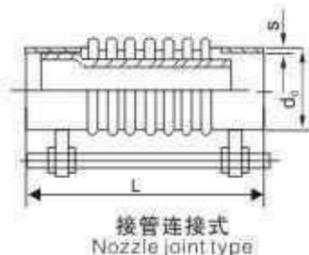
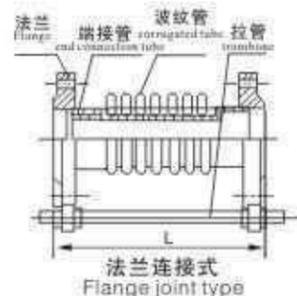
限位装置与可曲挠橡胶接头合理搭配使用，在管道一般连接中或在有位移要求的管线路中使用，能起到限定位移量的作用，当可曲挠橡胶接头与泵、阀相连接使用时，在可曲挠橡胶接头上配用限位装置，可起到传力作用，是钢制传力接头的理想替代产品。

The limiting device and the flexible rubber joint used in the pipeline with a reasonable, general connection or in a pipeline in line displacement requirements, can play the role of limiting location shift, when Flexible rubber joint, valve and pump connected when in use, the flexible rubber joint is matched with a limiting device, can play a role of force transfer, which is made of steel dowel joint ideal substitution product.



1.限位螺栓 2.螺母 3.限位块

JDZ型通用波纹管 JDZ-type general corrugated pipe



主要连接尺寸 Main joint dimension

| 公称 直径DN Nominal diameter | 波数 Quantity of ripples | 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 external diameter (mm) | 长度 Length | |
|-----------------------------------|------------------------------|--|--------|---------|--------|--------|--|---|----------------------------|--|
| | | 0.25 | 0.6 | 1.0 | 1.6 | 2.5 | | | 法兰JZ/F (mm) Flange JZ/F | 接管JZ/f (mm) Connection tube JZ/f |
| | | 轴向补偿量mm/刚度N/mm Axial compensation length/rigidity N/mm | | | | | | | | |
| 32 | 8 | 25/21 | 22/26 | 20/26 | 18/63 | 16 | 225 | 160/250 | 264/280 | |
| 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 | 31/47 | 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 | 300/322 |
| 65 | 12 | 42/16 | 38/22 | 38/32 | 34/40 | 31/70 | 55 | 270 | 260/334 | 340/362 |
| 80 | 8 | 40/20 | 36/26 | 34/33 | 28/41 | 19/68 | 81 | 284 | 240/338 | 344/366 |
| 80 | 10 | 53/14 | 49/17 | 49/21 | 43/26 | 29/50 | 81 | 284 | 270/368 | 374/390 |
| 100 | 6 | 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 | 387/409 |
| 125 | 5 | 48/38 | 42/47 | 38/59 | 34/74 | 29/117 | 180 | 334 | 262/314 | 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 | 79/34 | 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 | 46/65 | 479 | 442 | 340/402 | 402/426 |
| 250 | 4 | 72/30 | 65/34 | 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 | 87/44 | 79/48 | 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 | 71/47 | 1611 | 700 | 522/588 | 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 | 131/23 | 118/25 | 71/52 | 1972 | 760 | 503/658 | 603/648 |
| 500 | 4 | 108/59 | 97/64 | 87/68 | 79/75 | 71/45 | 2445 | 835 | 431/523 | 531/554 |
| 500 | 6 | 162/34 | 145/37 | 131/39 | 118/43 | 106/28 | 2445 | 835 | 531/665 | 631/742 |
| 600 | 4 | 108/74 | 97/80 | 87/85 | 79/94 | 71/82 | 3534 | 980 | 478/548 | 578/588 |
| 600 | 6 | 162/42 | 145/45 | 131/49 | 118/53 | 106/48 | 3534 | 980 | 658/679 | 758/781 |
| 700 | 4 | 108/67 | 97/72 | 87/77 | 79/85 | 71/103 | 4717 | 1110 | 490 | 590 |
| 700 | 6 | 162/42 | 145/45 | 131/49 | 118/53 | 106/60 | 4717 | 1110 | 690 | 790 |
| 800 | 4 | 120/88 | 108/95 | 102/102 | 94/112 | 71/95 | 5822 | 1265 | 502 | 602 |
| 800 | 6 | 183/67 | 164/72 | 156/77 | 144/85 | 106/60 | 5822 | 1265 | 610 | 710 |
| 900 | 4 | 120/84 | 108/90 | 102/97 | 94/107 | 82/123 | 7620 | 1186 | | 698 |
| 900 | 6 | 183/60 | 164/65 | 156/69 | 144/76 | 125/93 | 7620 | 1186 | | 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 |

HF型波纹补偿器 GB/T 12777-2008



HF02-1普通型补偿器

· 可耐各种浓度酸、碱、盐。又兼有不锈钢补偿器的压力不怕碰撞等优点

· 可提供：DN25-1600mm

· 连续疲劳寿命：1000次

· 压力等级：PN0.6、1.0、1.6MPa

· 使用温度：≤200℃

HF02-4型中压网套高颈复合补偿器

· 替补管道与管道中间相隔距离太大。以代替波数太多的补偿器。减少厂家成本费。

· 可提供：DN25-1600mm补偿器

· 疲劳次数：≥10000次

· 压力等级：PN0.25-2.5MPa

· 使用温度：≤220℃

HF02-1, HF02-2型补偿器

| 规格 DN mm | 三个波最大补偿能力 | | | 允许最大工作力 | | | 三波长 L mm | 连接法兰尺寸HG5010-58/HGJ45-92(HG20593-93/97) | | | | | |
|----------------|------------|---------|------|---------|--------|--------|----------------|---|--------|---------|--------|---------|-------|
| | 轴向 ΔXmm | 横向 ΔYmm | | 内压 | | 负压K | | PN0.25Pa | | PN0.6Pa | | PN1.6Pa | |
| | | 02-1 | 02-2 | TF02-1 | TF02-2 | | | K | n-m | K | n-m | K | n-m |
| 25 | 12 | 8 | 10 | 0.6 | 0.7 | 57 | 65 | 75 | 4-M10 | 75 | 4-M10 | 85 | 4-M12 |
| 32 | 14 | 12 | 16 | | | | | | | | | | |
| 40 | 17 | 14 | 18 | 47 | 75 | 100 | 4-M12 | 100 | 4-M12 | 110 | 4-M16 | | |
| 50 | 20 | 17 | 22 | | | | | | | | | 43 | 82 |
| 65 | 22 | 20 | 26 | 38 | 88 | 130 | 4-M16 | 130 | 4-M16 | 145 | 8-M16 | | |
| 80 | 24 | 24 | 32 | | | | | | | | | 33 | 92 |
| 100 | 26 | | | 28 | 95 | 170 | 8-M16 | 170 | 4-M16 | 180 | 8-M16 | | |
| 125 | 29 | 25 | 33 | | | | | | | | | 24 | 105 |
| 150 | 32 | | | 18 | 115 | 225 | 8-M16 | 225 | 8-M16 | 240 | 8-M20 | | |
| 200 | 40 | | 26 | | | | | | | | | 0.35 | 0.4 |
| 250 | 42 | | | 14 | 135 | 335 | 12-M16 | 335 | 12-M16 | 350 | 12-M20 | | |
| 300 | 44 | | | | | | | | | | | 0.3 | 0.35 |
| 350 | | | 27 | 0.2 | 0.25 | 13 | 150 | 445 | 12-M20 | 445 | 12-M20 | | |
| 400 | 46 | | | | | | | | | | | 0.1 | 0.1 |
| 450 | | | | 180 | 550 | 16-M20 | 550 | 16-M20 | 565 | 20-M22 | | | |
| 500 | 48 | | 16 | | | | | | | | 0.08 | 0.1 | 11 |
| 600 | | 12 | | 220 | 705 | 24-M24 | 705 | 24-M24 | 725 | 20-M27 | | | |
| 700 | 49 | | | | | | | | | | 0.05 | 0.06 | 10 |
| 800 | | | | 260 | 920 | 24-M27 | 920 | 24-M27 | 920 | 24-M27 | | | |
| 900 | 50 | | 13 | | | | | | | | 0.03 | 0.035 | 9 |
| 1000 | | 10 | | 300 | 1120 | 28-M27 | 1120 | 28-M27 | 1120 | 28-M27 | | | |
| 1200 | 52 | | | | | | | | | | 0.02 | 0.025 | 7 |
| 1400 | | 8 | 10 | 0.01 | 0.01 | 7 | 340 | 1530 | 36-M27 | | | | |
| | 54 | | | | | | | | | | | | |
| | | | | | | | | 1730 | 40-M27 | | | | |

JTW型金属软管 JTW type metal hose



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。它主要由波纹管、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，是由不锈钢丝或钢带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。

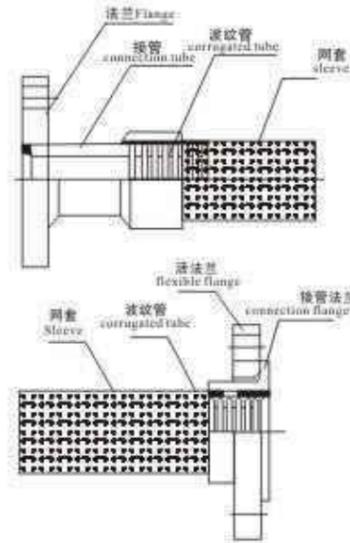
波纹金属软管具有良好的柔软性、抗疲劳性、耐高温、耐低温、耐腐蚀性等诸多特性，他相对其它软管（橡胶、塑料软管）的寿命就要高出许多，故它又具有较高的综合经济效益，随着现代工业的发展，对耐高温、耐高压的波纹金属软管的需求量亦愈来愈大。

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、化工药品类等均使用。

JTW-type metal hose (hose for short) is high-qualified flexible pipe among the modern industrial pipes. It is consist 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 specified parameters. The joints or flanges on both ends of the hose are matching the joints or flanges of customers' 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 a 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.



| 公称通径 DN Nominal diameter | 内径 ID (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 Belows | 带一层网套 Cover with a layer of network | 静态 Belows | 动态 Belows | 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 | 97.9 | 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 | 1790 | 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 |

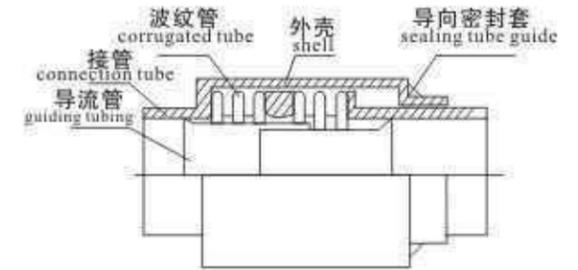
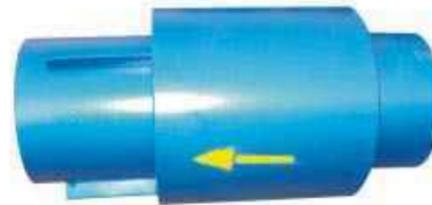
风机盘管接头 Fan coil joint



| 公称通径 DN Nominal diameter | 长度L(mm) Length | 轴向压缩(mm) axial compression | 轴向伸长(mm) Axial extension | 横向位移(mm) horizontal displacement | 偏转角度 deflection angle (°) |
|-----------------------------|-------------------|-------------------------------|-----------------------------|-------------------------------------|---------------------------------|
| 15 | 280 | 10 | 5 | 20 | 45 |
| 20 | 280 | 10 | 5 | 20 | 45 |
| 25 | 280 | 10 | 5 | 20 | 45 |
| 32 | 280 | 10 | 5 | 20 | 45 |
| 40 | 300 | 10 | 5 | 20 | 45 |
| 50 | 300 | 10 | 5 | 20 | 45 |
| 65 | 300 | 10 | 5 | 20 | 45 |

说明：该产品材质为SUS304不锈钢，具有耐高温、高压、耐腐蚀、位移多变、减噪降噪，适用于中央空调和石油、化工等行业。
Note: The material of this product is SUS304 stainless steel with the advantages of high temperature and pressure resistance, corrosion resistance, variable displacement and damping and noise abatement, applicable to central air conditioner and petrol and chemicals and other industries.

QMBW型直埋式波纹管 QMBW-type direct-buried corrugated pipe

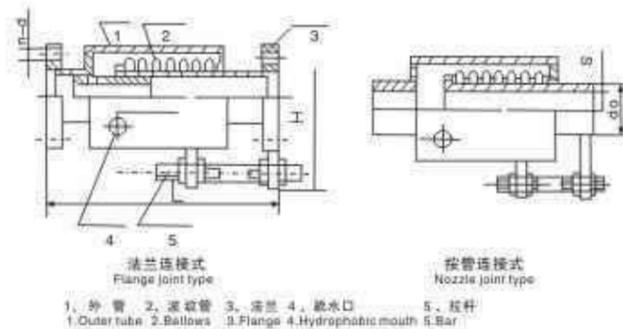


主要连接尺寸 Main joint dimension

| 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(cm²) Effective area of corrugated tube | 最大外径尺寸 Maximum external diameter (mm) | 接口尺寸 Size of connection end (mm) | 总长 Total length (mm) |
|----------------------------|--------------------------|---|---------|----------|----------|-----------|---|--|-------------------------------------|-------------------------|
| | | 0.25 | 0.6 | 1.0 | 1.6 | 2.5 | | | | |
| | | 轴向补偿量mm/刚度N/mm Axial compensation length mm/ stiffness N/mm | | | | | | | | |
| 50 | 8 | 14/153 | 12/318 | 12/318 | 12/635 | 11/1310 | 37 | 120 | φ57×3.5 | 361 |
| 50 | 16 | 27/76 | 24/158 | 24/158 | 24/318 | 23/655 | 37 | 120 | φ57×3.5 | 445 |
| 50 | 32 | 52/38 | 48/79 | 48/79 | 48/159 | 46/328 | 37 | 120 | φ57×3.5 | 621 |
| 65 | 8 | 19/213 | 18/213 | 18/213 | 18/424 | 16/841 | 55 | 159 | φ73×4 | 377 |
| 65 | 12 | 30/142 | 29/142 | 27/142 | 27/283 | 25/421 | 55 | 159 | φ73×4 | 425 |
| 65 | 24 | 60/71 | 58/107 | 54/107 | 54/142 | 50/211 | 55 | 159 | φ73×4 | 581 |
| 80 | 8 | 30/179 | 30/179 | 30/358 | 29/358 | 27/650 | 81 | 162 | φ89×4 | 430 |
| 80 | 10 | 54/143 | 37/143 | 37/286 | 37/286 | 32/325 | 81 | 162 | φ89×4 | 466 |
| 80 | 20 | 108/72 | 74/72 | 74/143 | 74/143 | 64/163 | 81 | 162 | φ89×4 | 660 |
| 100 | 6 | 34/138 | 34/277 | 33/417 | 33/417 | 32/617 | 121 | 180 | φ108×4 | 410 |
| 100 | 10 | 56/83 | 56/166 | 56/250 | 54/250 | 50/409 | 121 | 180 | φ108×4 | 492 |
| 100 | 20 | 112/42 | 112/83 | 112/125 | 108/125 | 100/205 | 121 | 180 | φ108×4 | 712 |
| 125 | 5 | 37/136 | 36/272 | 36/408 | 35/408 | 33/601 | 180 | 221 | φ133×4 | 410 |
| 125 | 9 | 66/76 | 65/151 | 65/227 | 63/227 | 60/401 | 180 | 221 | φ133×4 | 412 |
| 125 | 18 | 132/38 | 130/76 | 130/114 | 126/114 | 120/201 | 180 | 221 | φ133×4 | 711 |
| 150 | 5 | 49/100 | 49/200 | 48/300 | 45/456 | 44/845 | 257 | 245 | φ159×4.5 | 433 |
| 150 | 8 | 88/63 | 78/125 | 77/188 | 71/286 | 65/423 | 257 | 245 | φ159×4.5 | 518 |
| 150 | 16 | 159/32 | 156/63 | 154/94 | 142/143 | 130/211 | 257 | 245 | φ159×4.5 | 756 |
| 200 | 4 | 58/95 | 56/193 | 56/288 | 56/480 | 55/800 | 479 | 327 | φ219×6 | 475 |
| 200 | 6 | 86/63 | 85/128 | 85/192 | 84/320 | 80/927 | 479 | 327 | φ219×6 | 553 |
| 200 | 12 | 172/32 | 170/64 | 170/96 | 168/160 | 160/200 | 479 | 327 | φ219×6 | 800 |
| 250 | 4 | 75/170 | 74/343 | 63/588 | 63/930 | 60/1856 | 769 | 404 | φ273×8 | 500 |
| 250 | 6 | 112/113 | 110/228 | 95/392 | 80/620 | 78/927 | 769 | 404 | φ273×8 | 620 |
| 250 | 12 | 220/57 | 220/114 | 190/196 | 160/310 | 156/464 | 769 | 404 | φ273×8 | 984 |
| 300 | 4 | 73/250 | 72/503 | 65/630 | 57/1263 | 54/2142 | 1105 | 451 | φ325×8 | 584 |
| 300 | 6 | 110/167 | 109/335 | 97/553 | 85/835 | 80/1071 | 1105 | 451 | φ325×8 | 713 |
| 300 | 12 | 220/84 | 218/168 | 194/277 | 170/418 | 160/536 | 1105 | 451 | φ325×8 | 1116 |
| 350 | 4 | 79/263 | 78/523 | 72/840 | 64/1265 | 62/2684 | 1307 | 500 | φ377×10 | 614 |
| 350 | 6 | 119/175 | 117/348 | 107/560 | 97/843 | 90/1342 | 1307 | 500 | φ377×10 | 759 |
| 350 | 12 | 238/88 | 234/174 | 214/280 | 194/442 | 180/671 | 1307 | 500 | φ377×10 | 1216 |
| 400 | 4 | 83/280 | 73/458 | 70/918 | 65/1373 | 63/3675 | 1611 | 537 | φ426×10 | 625 |
| 400 | 6 | 125/187 | 109/305 | 102/612 | 97/915 | 90/1838 | 1611 | 537 | φ426×10 | 771 |
| 400 | 12 | 250/94 | 218/153 | 204/306 | 194/458 | 180/920 | 1611 | 537 | φ426×10 | 1225 |
| 450 | 4 | 98/203 | 96/405 | 82/690 | 69/2305 | 65/4350 | 1972 | 632 | φ478×10 | 620 |
| 450 | 6 | 147/135 | 144/270 | 124/460 | 103/1537 | 90/2175 | 1972 | 632 | φ478×10 | 762 |
| 450 | 12 | 294/68 | 288/135 | 248/230 | 206/769 | 180/1087 | 1972 | 632 | φ478×10 | 1200 |
| 500 | 4 | 102/212 | 100/423 | 84/728 | 70/2452 | 65/4256 | 2445 | 699 | φ529×10 | 624 |
| 500 | 6 | 153/142 | 149/282 | 126/485 | 105/1635 | 90/2128 | 2445 | 699 | φ529×10 | 766 |
| 500 | 12 | 306/71 | 298/141 | 252/243 | 210/818 | 180/1064 | 2445 | 699 | φ529×10 | 1216 |
| 600 | 4 | 123/265 | 121/530 | 86/1468 | 99/1740 | 95/2842 | 3534 | 806 | φ630×10 | 676 |
| 600 | 6 | 185/177 | 181/353 | 148/978 | 140/1160 | 120/1420 | 3534 | 806 | φ630×10 | 848 |
| 600 | 12 | 370/89 | 362/177 | 358/489 | 280/580 | 240/710 | 3534 | 806 | φ630×10 | 1382 |
| 700 | 4 | 128/287 | 126/573 | 87/1625 | 85/2972 | 84/4100 | 4717 | 915 | φ720×10 | 708 |
| 700 | 6 | 192/192 | 188/382 | 168/1083 | 131/1082 | 120/2050 | 4717 | 915 | φ720×10 | 882 |
| 700 | 12 | 384/96 | 376/191 | 336/542 | 262/991 | 240/11025 | 4717 | 915 | φ720×10 | 1422 |
| 800 | 4 | 128/310 | 126/620 | 84/1778 | 85/3183 | 84/6234 | 5822 | 1005 | φ820×10 | 724 |
| 800 | 6 | 256/155 | 252/310 | 168/889 | 170/1591 | 168/3117 | 5822 | 1005 | φ820×10 | 1071 |
| 800 | 12 | 384/103 | 378/207 | 252/596 | 241/1061 | 236/1558 | 5822 | 1005 | φ820×10 | 1538 |
| 900 | 4 | 151/378 | 149/758 | 118/1329 | 117/2575 | 7620 | 1137 | 1137 | φ920×10 | 792 |
| 900 | 6 | 302/189 | 298/379 | 236/664 | 234/1298 | 7620 | 1137 | 1137 | φ920×10 | 1211 |
| 900 | 12 | 453/126 | 447/253 | 351/443 | 354/825 | 7620 | 1137 | 1137 | φ920×10 | 1650 |
| 1000 | 4 | 140/423 | 140/845 | 115/2770 | 90/6038 | 9043 | 1227 | 1227 | φ1020×10 | 800 |
| 1000 | 6 | 280/212 | 280/423 | 230/1385 | 180/2519 | 9043 | 1227 | 1227 | φ1020×10 | 1200 |
| 1000 | 12 | 420/141 | 420/282 | 345/923 | 270/1679 | 9043 | 1227 | 1227 | φ1020×10 | 1616 |

ZBY直埋外压式轴向波纹补偿器

ZBY buried outside pressure type axial corrugated compensator



设计安装数据表 Data sheet for design installation

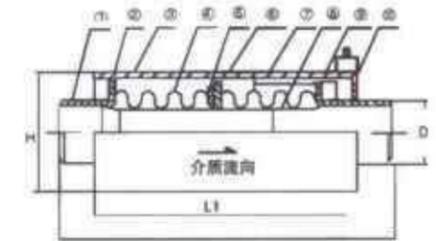
| 通径 DN Nominal diameter | 长度 Length mm | 波数 Wave number | 压力等级MPa Pressure level | | | 波纹管有效面积 Effective area of corrugated tube | 最大外径尺寸mm Maximum external diameter |
|---------------------------------|--------------------|----------------------|---|-----------|-----------|--|---|
| | | | 0.6 | 1.0 | 1.6 | | |
| | | | 轴向补偿量mm/刚度N/mm Axial compensation length mm/rigidity N/mm | | | | |
| 50 | 432 | 10 | 41 / 231 | 39 / 255 | 37 / 298 | 81 | φ270 |
| | 654 | 20 | 82 / 116 | 78 / 126 | 74 / 143 | | |
| 65 | 488 | 10 | 41 / 231 | 39 / 255 | 37 / 298 | 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 / 278 | 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 / 182 | 105 / 378 | 1075 | φ566 |
| | 1800 | 16 | 320 / 51 | 260 / 94 | 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 | 290 / 478 | | |
| 800 | 1540 | 6 | 201 / 200 | 164 / 497 | 150 / 897 | 7528 | φ1290 |
| | 2540 | 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 | 410 / 198 | 450 / 466 | 430 / 665 | | |
| 1500 | 1605 | 6 | 201 / 321 | 230 / 978 | 220 / 978 | 22427 | φ2060 |

JWY无约束型波纹补偿器

JWY unconstrained corrugated compensator



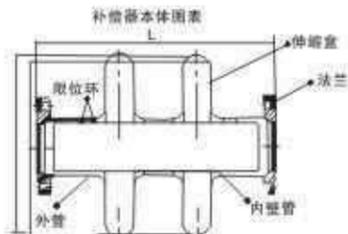
- 1、工作接管
- 2、主定向法兰
- 3、定向保护套
- 4、波纹管
- 5、导向套
- 6、导向管
- 7、次定向法兰
- 8、内衬
- 9、限位环
- 10、中间法兰



| 通径 DN Nominal diameter | 波数 Wave number | T.D | | | 波纹管有效面积 Effective area of corrugated tube | 接管端口尺寸 Over the port size mm | 总长 Total length L mm |
|---------------------------------|----------------------|----------|----------|---------|--|------------------------------------|-------------------------------|
| | | 1.0 | 1.6 | 2.5 | | | |
| 50 | 8 | 12/318 | 12/635 | 11/1310 | 37 | φ57×3.5 | 350 |
| | 16 | 24/158 | 24/318 | 23/655 | | | 480 |
| | 32 | 48/79 | 48/159 | 46/328 | | | 620 |
| 65 | 8 | 18/213 | 18/424 | 15/841 | 55 | φ73×4 | 440 |
| | 12 | 27/142 | 27/283 | 25/421 | | | 520 |
| | 24 | 54/107 | 54/142 | 50/211 | | | 600 |
| 80 | 8 | 28/358 | 28/358 | 27/650 | 81 | φ89×4 | 470 |
| | 10 | 35/286 | 33/286 | 32/325 | | | 510 |
| | 20 | 70/143 | 70/143 | 64/163 | | | 680 |
| 100 | 8 | 38/417 | 33/417 | 32/817 | 121 | φ108×4 | 500 |
| | 10 | 45/250 | 43/417 | 42/409 | | | 540 |
| | 20 | 72/125 | 70/125 | 69/205 | | | 700 |
| 125 | 8 | 52/227 | 50/227 | 48/401 | 180 | φ133×4 | 540 |
| 150 | 8 | 56/188 | 54/286 | 50/423 | 257 | φ219×4.5 | 550 |
| 200 | 8 | 64/192 | 60/320 | 56/927 | 479 | φ219×6 | 600 |
| 250 | 8 | 73/392 | 70/620 | 65/927 | 769 | φ273×8 | 640 |
| 300 | 8 | 88/553 | 85/835 | 80/1071 | 1105 | φ325×8 | 660 |
| 350 | 6 | 68/560 | 65/843 | 60/1342 | 1307 | φ377×10 | 665 |
| 400 | 6 | 69/612 | 67/915 | 63/1838 | 1611 | φ426×10 | 665 |
| 450 | 6 | 84/460 | 80/1537 | 75/2175 | 1972 | φ478×10 | 720 |
| 500 | 6 | 84/485 | 80/1635 | 75/2128 | 2445 | φ529×10 | 720 |
| 600 | 6 | 105/978 | 101/1160 | 96/1420 | 3534 | φ630×10 | 780 |
| 700 | 6 | 110/1083 | 104/1982 | 98/2050 | 4717 | φ720×10 | 850 |
| 800 | 4 | 74/1778 | 70/3183 | 66/234 | 5822 | φ820×10 | 750 |
| 900 | 4 | 74/1329 | 70/2575 | | 7620 | φ920×10 | 750 |
| 1000 | 4 | 78/2270 | 74/5038 | | 9043 | φ1020×10 | 780 |

DBHKXW型大波纹管盒型可限位伸缩补偿器

One-time buried corrugated compensator



产品说明:

板盒型可限位式管道补偿器是管道安装的重要部件之一, 该补偿器具有体积小, 安装方便, 占地面积小, 降低劳动强度, 省工、省力、省料, 实用性强等优点, 伸缩量在60-120mm。不渗、不漏、无填料, 伸缩性能好, 安全可靠并能节省维修工作量, 同时安装时可不设胀力井, 降低工程造价, 该补偿器结构新颖、合理, 无易损件, 体积小, 重量轻, 便于安装运输是管道安装理想的产品。

设计安装数据表

| 序号 Serial number | 规格 Specifications | 通径DN Nominal diameter | 补偿量 The amount of compensation (mm) | 峰顶直径 (mm) The diameter | 产品长度L (mm) Product length |
|---------------------|----------------------|--------------------------|--|---------------------------|------------------------------|
| 1 | 1.2"二波 | 32 | 60±30 | 170 | 245 |
| 2 | 1.5"二波 | 40 | 60±30 | 190 | 255 |
| 3 | 2"二波 | 50 | 60±30 | 300 | 325 |
| 4 | 2.5"二波 | 65 | 60±30 | 320 | 336 |
| 5 | 3"二波 | 80 | 60±30 | 360 | 340 |
| 6 | 4"二波 | 100 | 60±30 | 400 | 350 |
| 7 | 5"二波 | 125 | 60±30 | 433 | 360 |
| 8 | 6"二波 | 150 | 60±30 | 477 | 385 |
| 9 | 8"二波 | 200 | 60±30 | 527 | 390 |
| 10 | 10"二波 | 250 | 60±30 | 579 | 420 |
| 11 | 12"二波 | 300 | 60±30 | 635 | 435 |
| 12 | 14"二波 | 350 | 60±30 | 635 | 440 |
| 13 | 16"二波 | 400 | 60±30 | 760 | 460 |
| 14 | 18"二波 | 450 | 60±30 | 810 | 460 |
| 15 | 20"二波 | 500 | 120±60 | 860 | 460 |
| 16 | 2"四波 | 50 | 120±60 | 300 | 590 |
| 17 | 2.5"四波 | 65 | 120±60 | 360 | 610 |
| 18 | 3"四波 | 80 | 120±60 | 360 | 610 |
| 19 | 4"四波 | 100 | 120±60 | 400 | 625 |
| 20 | 5"四波 | 125 | 120±60 | 433 | 625 |
| 21 | 6"四波 | 150 | 120±60 | 477 | 700 |
| 22 | 8"四波 | 200 | 120±60 | 527 | 705 |
| 23 | 10"四波 | 250 | 120±60 | 579 | 830 |
| 24 | 12"四波 | 300 | 120±60 | 635 | 820 |
| 25 | 14"四波 | 350 | 120±60 | 635 | 885 |
| 26 | 16"四波 | 400 | 120±60 | 760 | 900 |
| 27 | 18"四波 | 450 | 120±60 | 810 | 950 |
| 28 | 20"四波 | 500 | 120±60 | 860 | 950 |

设计、施工须知:

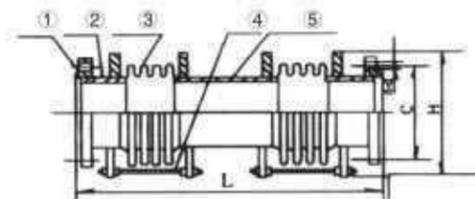
- 1、本产品使用压力在16MPa以下, 使用介质热水、蒸汽、煤气、各种油, 温度与管道相同高层建筑使用最佳;
- 2、本产品最大推力0.8-1.2T, 使用疲劳寿命6500次;
- 3、本产品可广泛应用于架空管道、地沟管道、直埋管道;
- 4、补偿器转向支架可设可不设;
- 5、本产品只限轴向安装使用(直线管道);
- 6、本产品用于地沟管道时不用砌补偿器井;
- 7、安装时严禁在补偿器的伸缩盒上点火;
- 8、本产品二波予拉25mm-30mm, 四波予拉50mm-60mm;
- 9、实践证明在高温水热力管网上, 60m以上应设二波伸缩器一个, 120米以上应设四波伸缩器一个, 蒸汽管道应按设计标准30m以内安装二波伸缩一个。

FXL小拉杆横向波纹补偿器

FXL draw horizontal corrugated compensator



- ① 法兰
- ② 接管
- ③ 波体
- ④ 拉杆
- ⑤ 中间管



主要连接尺寸

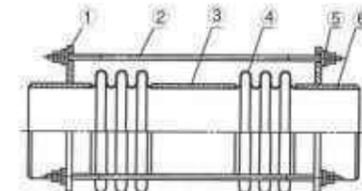
| 公称通径 DN | 压力0.6MPa | | 压力1.0MPa | | 压力1.6MPa | | 有效面积 A cm ² | 焊接端管 d×t mm | 总长 L mm | 重量 kg F/H |
|------------|------------|------------|------------|------------|------------|------------|------------------------------|-------------------|---------------|-----------------|
| | 轴向位移 mm | 横向位移 mm | 轴向位移 mm | 横向位移 mm | 轴向位移 mm | 横向位移 mm | | | | |
| 100 | 32/170 | 96/8.0 | 28/252 | 86/9.6 | 26/302 | 78/12 | 154 | 08/4 | 1000 | 30 |
| | | 200/2.0 | | 180/2.5 | | 162/3.1 | | | 1500 | 36 |
| | | 306/0.89 | | 27/1.1 | | 284/1.3 | | | 2000 | 41 |
| | | 411/0.50 | | 370/0.6 | | 333/0.75 | | | 2500 | 47 |
| 125 | 33/170 | 83/18 | 31/204 | 78/21.6 | 29/245 | 75/25.9 | 180 | 33/4 | 1000 | 39 |
| | | 115/6.8 | | 109/8.2 | | 103/9.8 | | | 1500 | 43 |
| | | 198/3.5 | | 188/4.2 | | 178/5.0 | | | 2000 | 51 |
| | | 269/1.8 | | 255/2.2 | | 242/2.6 | | | 2500 | 62 |
| 150 | 32/290 | 65/21 | 30/348 | 61/25.2 | 27/417 | 58/30.2 | 299 | 59/45 | 1000 | 42 |
| | | 136/54 | | 129/6.5 | | 122/7.8 | | | 1500 | 53 |
| | | 107/2.4 | | 197/2.9 | | 186/3.5 | | | 2000 | 63 |
| | | 279/1.4 | | 265/1.68 | | 251/2.1 | | | 2500 | 74 |
| 200 | 48/326 | 72/47 | 43/391 | 68/56.4 | 40/469 | 66/70.5 | 531 | 18/6 | 1000 | 72 |
| | | 160/11 | | 152/13.2 | | 144/16.5 | | | 1500 | 89 |
| | | 250/5.0 | | 237/6.0 | | 225/7.5 | | | 2000 | 106 |
| | | 341/2.8 | | 324/3.4 | | 291/4.1 | | | 2500 | 123 |
| 250 | 46/400 | 127/20 | 43/480 | 114/25 | 38/576 | 108/30 | 774 | 73/8 | 1500 | 121 |
| | | 199/9.0 | | 179/10.8 | | 170/13.5 | | | 2000 | 150 |
| | | 271/5.0 | | 257/6.0 | | 231/7.5 | | | 2500 | 178 |
| | | 343/3.2 | | 325/3.8 | | 293/4.6 | | | 3000 | 206 |
| 300 | 59/336 | 134/25 | 56/403 | 127/30 | 50/483 | 121/36 | 1069 | 25/8 | 1500 | 146 |
| | | 213/11 | | 202/13.2 | | 192/15.8 | | | 2000 | 179 |
| | | 290/6.0 | | 277/7.2 | | 263/8.6 | | | 2500 | 213 |
| | | 372/3.8 | | 353/4.6 | | 335/5.4 | | | 3000 | 246 |

FXL小拉杆横向波纹补偿器 FXL draw horizontal corrugated compensator

主要连接尺寸

| 公称 直径 DN | 压力0.6MPa | | 压力1.0MPa | | 压力1.6MPa | | 有效面积 A cm ² | 焊接端管 d×t mm | 总长 L mm | 重量 kg F/H |
|----------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------------------|-------------------|---------------|-----------------|
| | 轴向位移 轴向刚度 mm | 横向位移 横向刚度 mm | 轴向位移 轴向刚度 mm | 横向位移 横向刚度 mm | 轴向位移 轴向刚度 mm | 横向位移 横向刚度 mm | | | | |
| 350 | 58/366 | 107/40 | 55/402 | 102/44 | 52/442 | 96/48 | 1263 | 77×8 | 1500 | 171 |
| | | 178/16 | | 167/18 | | 161/22 | | | 2000 | 208 |
| | | 250/8.5 | | 237/10 | | 226/12 | | | 2500 | 245 |
| | | 322/5.3 | | 306/6.9 | | 290/9.6 | | | 3000 | 282 |
| 400 | 57/415 | 92/58 | 54/48 | 87/63 | 51/492 | 83/69 | 1612 | 26×8 | 1500 | 192 |
| | | 154/23 | | 142/25 | | 135/27 | | | 2000 | 235 |
| | | 215/12 | | 204/13 | | 196/15 | | | 2500 | 278 |
| | | 278/7.7 | | 264/9 | | 250/11 | | | 3000 | 321 |
| 450 | 55/415 | 81/80 | 52/456 | 77/88 | 49/484 | 73/96 | 1995 | 78×8 | 1500 | 218 |
| | | 135/32 | | 128/35 | | 122/38 | | | 2000 | 268 |
| | | 189/17 | | 180/19 | | 171/21 | | | 2500 | 319 |
| | | 243/11 | | 230/12 | | 218/13 | | | 3000 | 370 |
| 500 | 90/746 | 36/241 | 72/895 | 32/260 | 58/984 | 29/281 | 2625 | 29×10 | 1400 | 535 |
| | | 68/896 | | 62/96 | | 56/104 | | | 1700 | 581 |
| | | 102/42 | | 92/45 | | 83/49 | | | 2000 | 627 |
| | | 125/28 | | 113/30 | | 102/32 | | | 2200 | 658 |
| | | 166/18 | | 149/19 | | 134/21 | | | 2500 | 704 |
| 600 | 94/820 | 42/208 | 85/886 | 38/224 | 75/948 | 34/242 | 3590 | 30×10 | 1500 | 648 |
| | | 71/102 | | 64/110 | | 58/118 | | | 1800 | 702 |
| | | 106/47 | | 95/51 | | 86/55 | | | 2200 | 775 |
| | | 135/30 | | 121/32 | | 111/35 | | | 2500 | 830 |
| | | 168/21 | | 156/23 | | 141/25 | | | 2800 | 884 |
| | | 199/14 | | 183/15 | | 168/17 | | | 3200 | 957 |

FDL大拉杆横向型波纹补偿器 FDL big rod horizontal corrugated compensator



- ①端板
- ②拉杆
- ③中间管
- ④波纹管
- ⑤球面、锥面垫圈
- ⑥端管

使用说明：

大拉杆横向型波纹补偿器可以补偿弯曲管段的横向位移和量值不大的角位移，通常不用来补偿角位移。该补偿器由接管、二个波纹管以及大拉杆等零件构成。它能吸收管系任意平面内的横向位移。位移球面螺母绕球面垫圈转动，同时拉杆还具有承受内压推力能力。

工作温度≤420℃疲劳寿命1500次

| 公称直径 DN mm | 波数 | 压力等级 MPa | 横向补偿量mm/刚度Nmm | | | | | | 最大外径尺寸 mm |
|------------------|-----|-------------|---------------|---------|----------|---------|--------|------|--------------|
| | | | 产品长度mm | | | | | | |
| | | | 1200 | 1500 | 2000 | 2500 | 3000 | 3500 | |
| 100 | 4+4 | 0.25 | 177/2.2 | 243/1.2 | 354/0.6 | 465/0.3 | | | 310 |
| | | 0.6 | 177/2.2 | 243/1.2 | 341/0.6 | 47/0.3 | | | 310 |
| | | 1.0 | 163/2.2 | 224/1.2 | 325/0.6 | 427/0.3 | | | 310 |
| | | 1.6 | 91/4 | 127/2 | 187/1 | 247/0.6 | | | 310 |
| | | 2.5 | 94/8 | 132/5 | 194/2 | 256/1 | | | 310 |
| 125 | 4+4 | 0.25 | 181/2.8 | 251/1.5 | 369/0.7 | 487/0.4 | | | 360 |
| | | 0.6 | 172/2.8 | 239/1.5 | 351/0.7 | 463/0.4 | | | 360 |
| | | 1.0 | 161/2.8 | 224/1.5 | 330/0.7 | 435/0.4 | | | 360 |
| | | 1.6 | 99/11 | 140/6 | 209/3 | 277/2 | | | 360 |
| | | 2.5 | 99/11 | 113/6 | 197/3 | 262/2 | | | 360 |
| 150 | 4+4 | 0.25 | 199/6 | 278/3.2 | 410/1.6 | 542/1.0 | | | 410 |
| | | 0.6 | 186/6 | 259/3.2 | 382/1.6 | 506/1.0 | | | 410 |
| | | 1.0 | 122/10 | 170/6 | 251/3 | 332/2 | | | 410 |
| | | 1.6 | 108/12 | 15/36 | 230/3 | 307/2 | | | 410 |
| | | 2.5 | 82/22 | 117/12 | 176/5 | 234/3 | | | 410 |
| 200 | 4+4 | 0.25 | 155/9.4 | 220/4.9 | 327/2.25 | 435/1.4 | | | 480 |
| | | 0.6 | 138/9.4 | 196/4.9 | 291/2.25 | 388/1.0 | | | 480 |
| | | 1.0 | 101/20 | 143/11 | 213/5 | 283/3 | | | 480 |
| | | 1.6 | 75/42 | 108/21 | 164/10 | 220/6 | | | 480 |
| | | 2.5 | 59/60 | 86/35 | 130/16 | 176/9 | | | 480 |
| 250 | 4+4 | 0.25 | 164/10.2 | 239/5.1 | 367/2.4 | 494/1.5 | | | 580 |
| | | 0.6 | 128/21 | 188/10 | 287/5 | 387/3 | | | 580 |
| | | 1.0 | 109/35 | 159/18 | 243/8 | 328/5 | | | 580 |
| | | 1.6 | 76/68 | 116/33 | 182/14 | 249/8 | | | 580 |
| | | 2.5 | 64/122 | 98/58 | 154/25 | 210/14 | | | 580 |
| 300 | 4+4 | 0.25 | 14/17.6 | 174/8.4 | 287/3.7 | 379/2 | | | 660 |
| | | 0.6 | 94/50 | 144/24 | 228/0 | 313/6 | | | 660 |
| | | 1.0 | | 127/39 | 202/17 | 277/10 | 352/6 | | 660 |
| | | 1.6 | | 169/28 | 169/28 | 234/15 | 299/10 | | 660 |
| | | 2.5 | | 91/113 | 148/47 | 215/26 | 262/16 | | 660 |

FDL大拉杆横向型波纹补偿器

FDL big rod type transverse corrugated compensator

工作温度 ≤420℃ 疲劳寿命1500次

| 公称通径 DN mm | 波数 | 压力等级 Mpa | 横向补偿量mm/刚度N/mm | | | | | | 最大外径 尺寸 mm |
|------------------|-----|-------------|----------------|---------|---------|---------|---------|--------|------------------|
| | | | 产品长度mm | | | | | | |
| | | | 1200 | 1500 | 2000 | 2500 | 3000 | 3500 | |
| 350 | 4+4 | 0.25 | 100/26 | 157/14 | 254/5 | 352/3 | | | 750 |
| | | 0.6 | 83/73 | 130/34 | 210/14 | 292/8 | | | 750 |
| | | 1.0 | | 117/54 | 190/23 | 263/13 | 337/8 | | 750 |
| | | 1.6 | | 95/96 | 160/38 | 225/20 | 291/13 | | 750 |
| | | 2.5 | | 81/158 | 135/63 | 190/34 | 246/21 | | 750 |
| 400 | 4+4 | 0.25 | | 146/16 | 238/7 | 330/4 | 423/2 | | 780 |
| | | 0.6 | | 122/45 | 199/19 | 276/10 | 354/7 | | 780 |
| | | 1.0 | | 109/74 | 177/31 | 246/17 | 315/11 | | 780 |
| | | 1.6 | | 85/130 | 144/52 | 202/28 | 282/17 | | 780 |
| | | 2.5 | | | 112/88 | 157/47 | 203/29 | 250/20 | 780 |
| 450 | 4+4 | 0.25 | | 134/20 | 216/8 | 299/5 | 383/3 | | 870 |
| | | 0.6 | | 129/40 | 208/17 | 289/9 | 369/6 | | 870 |
| | | 1.0 | | 109/68 | 176/29 | 244/16 | 312/10 | | 870 |
| | | 1.6 | | | 115/9 | 162/48 | 210/29 | 258/20 | 870 |
| | | 2.5 | | | 86/198 | 122/105 | 158/65 | 193/44 | 870 |
| 500 | 4+4 | 0.25 | | 123/26 | 199/11 | 277/6 | 355/4 | | 920 |
| | | 0.6 | | 119/53 | 193/22 | 267/12 | 342/8 | | 920 |
| | | 1.0 | | 99/90 | 160/38 | 222/21 | 285/13 | | 920 |
| | | 1.6 | | | 101/127 | 43/66 | 186/41 | 229/27 | 920 |
| | | 2.5 | | | 76/284 | 107/149 | 140/91 | 172/62 | 920 |
| 600 | 4+4 | 0.25 | | 111/54 | 188/22 | 265/12 | 342/7 | | 1010 |
| | | 0.6 | | 108/108 | 181/43 | 256/23 | 331/14 | | 1010 |
| | | 1.0 | | 83/220 | 319/88 | 197/47 | 254/29 | | 1010 |
| | | 1.6 | | | 98/182 | 143/93 | 187/56 | 232/38 | 1010 |
| | | 2.5 | | | 82/307 | 119/157 | 156/95 | 193/63 | 1010 |
| 700 | 4+4 | 0.25 | | 98/82 | 166/32 | 236/17 | 305/11 | | 1140 |
| | | 0.6 | | 161/64 | 228/34 | 295/21 | 263/14 | | 1140 |
| | | 1.0 | | 117/132 | 185/70 | 214/43 | 264/29 | | 1140 |
| | | 1.6 | | | 81/287 | 199/144 | 157/86 | 196/57 | 1140 |
| | | 2.5 | | | 146/45 | 208/24 | 271/15 | 334/10 | 1240 |
| 800 | 4+4 | 0.25 | | 146/45 | 208/24 | 271/15 | 334/10 | | 1240 |
| | | 0.6 | | 141/93 | 201/49 | 262/30 | 323/20 | | 1240 |
| | | 1.0 | | 102/182 | 146/95 | 190/59 | 235/40 | | 1240 |
| | | 1.6 | | 69/402 | 103/200 | 137/119 | 170/79 | | 1240 |
| | | 2.5 | | | 184/49 | 249/28 | 314/18 | | 1370 |
| 900 | 4+4 | 0.25 | | | 179/97 | 242/56 | 305/37 | | 1370 |
| | | 0.6 | | | 139/171 | 189/99 | 237/64 | | 1370 |
| | | 1.0 | | | 103/369 | 139/213 | 176/139 | | 1370 |
| | | 1.6 | | | 194/52 | 266/30 | 340/19 | | 1500 |
| | | 2.5 | | | 194/104 | 266/59 | 340/38 | | 1500 |
| 1000 | 4+4 | 0.25 | | | 148/185 | 204/106 | 260/68 | | 1500 |
| | | 0.6 | | | 108/416 | 148/237 | 189/153 | | 1500 |
| | | 1.0 | | | 108/416 | 148/237 | 189/153 | | 1500 |
| | | 1.6 | | | | | | | |
| | | 2.5 | | | | | | | |

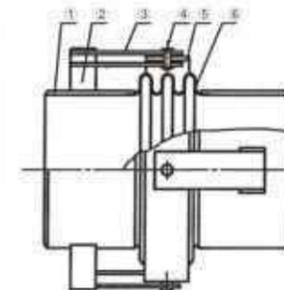
注：口径超过φ1000的大拉杆横向型补偿器请提供相应的参数，如需法兰连接按照JB81-59标准，可根据用户要求或其他标准供货。

DW单式万向铰链型补偿器

DW single universal hinge type compensator



①端管 ②立板
③铰链板 ④销轴
⑤万向环 ⑥波纹管



| 序号 | 通径 DN | 波数 n | 横向补偿mm/横向刚度N/mm | | | | | 径向最大 外形尺寸 mm | 接管端口尺寸 | | 产品重量Kg | | | | |
|----|----------|---------|-----------------|--------|--------|--------|------|--------------------|--------|-----|--------|------|------|------|------|
| | | | 产品总长mm | | | | | | 法兰尺寸 | | 产品总长mm | | | | |
| | | | 1200 | 1500 | 2000 | 2500 | 3000 | | C | N-d | 1200 | 1500 | 2000 | 2500 | 3000 |
| 1 | 100 | 4+4 | 91/4 | 127/2 | 187/1 | 274/06 | 330 | φ1804 | | 46 | 55 | 71 | 86 | | |
| 2 | | | 180 | 8-φ180 | 56 | 65 | | 81 | 96 | | | | | | |
| 3 | 125 | 4+4 | 99/11 | 140/6 | 209/3 | 277/2 | 335 | φ13314 | | 66 | 83 | 101 | 118 | | |
| 4 | | | 210 | 8-φ18 | 79 | 96 | | 114 | 131 | | | | | | |
| 5 | 150 | 4+4 | 108/12 | 153/6 | 230/3 | 307/2 | 380 | φ159×4.5 | | 75 | 97 | 107 | 129 | | |
| 6 | | | 240 | 8-φ23 | 91 | 113 | | 123 | 145 | | | | | | |
| 7 | 200 | 3+3 | 75/42 | 108/21 | 164/10 | 220/6 | 450 | φ219×6 | | 102 | 124 | 161 | 198 | | |
| 8 | | | 295 | 12-φ23 | 122 | 144 | | 181 | 218 | | | | | | |
| 9 | 250 | 3+3 | 76/68 | 116/33 | 182/14 | 244/8 | 525 | φ273×8 | | 152 | 182 | 230 | 280 | | |
| 10 | | | 355 | 12-φ25 | 183 | 213 | | 261 | 311 | | | | | | |
| 11 | 300 | 3+3 | 104/66 | 169/28 | 234/15 | 299/10 | 585 | φ325×8 | | 242 | 307 | 372 | 437 | | |
| 12 | | | 410 | 12-φ25 | 278 | 343 | | 408 | 473 | | | | | | |
| 13 | 350 | 3+3 | 160/38 | 225/20 | 291/13 | | 662 | φ377×8 | | 259 | 324 | 389 | 454 | | |
| 14 | | | 470 | 16-φ25 | 306 | 371 | | 436 | 501 | | | | | | |
| 15 | 400 | 3+3 | 95/96 | 144/52 | 202/28 | 262/17 | 710 | φ426×8 | | 333 | 408 | 483 | 557 | | |
| 16 | | | 525 | 16-φ30 | 395 | 470 | | 545 | 619 | | | | | | |
| 17 | 450 | 3+3 | 85/130 | 115/90 | 162/48 | 210/29 | 776 | φ478×8 | | 464 | 561 | 658 | 755 | | |
| 18 | | | 585 | 20-φ30 | 544 | 641 | | 738 | 835 | | | | | | |
| 19 | 500 | 3+3 | 101/127 | 143/66 | 186/41 | 229/27 | 842 | φ529×8 | | 563 | 662 | 761 | 860 | | |
| 20 | | | 650 | 20-φ34 | 673 | 772 | | 871 | 970 | | | | | | |
| 21 | 600 | 3+3 | 98/182 | 143/93 | 187/56 | 232/38 | 976 | φ630×8 | | 755 | 898 | 1041 | 1184 | | |
| 22 | | | 770 | 20-φ41 | 916 | 1059 | | 1202 | 1345 | | | | | | |

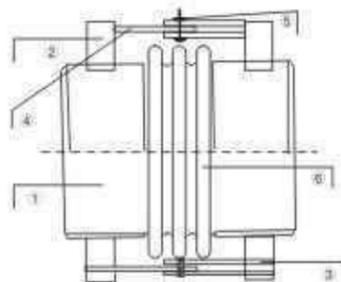
| 序号 | 通径 DN | 波数 n | 横向补偿mm/横向刚度N/mm | | | | | 径向最大 外形尺寸 mm | 接管端口 尺寸 mm | 产品重量Kg | | | | |
|----|----------|---------|-----------------|---------|---------|---------|---------|--------------------|------------------|--------|------|------|------|------|
| | | | 产品总长mm | | | | | | | 产品总长mm | | | | |
| | | | 2000 | 2500 | 3000 | 3500 | 4000 | | | 2000 | 2500 | 3000 | 3500 | 4000 |
| 23 | 700 | 3+3 | 81/287 | 199/144 | 167/86 | 157/57 | 1074 | φ720×10 | 963 | 1134 | 1325 | 1476 | | |
| 24 | 800 | 3+3 | 69/407 | 103/200 | 137/119 | 170/79 | 1174 | φ820×10 | | 1611 | 1890 | 2170 | | |
| 25 | 900 | 3+3 | | 103/369 | 139/213 | 76/213 | 212/98 | 1300 | φ920×10 | | 1866 | 2210 | 2554 | 2898 |
| 26 | 1000 | 4+4 | | 108/416 | 148/237 | 189/153 | 230/106 | 1420 | φ1020×10 | | 2637 | 3134 | 3631 | 4128 |
| 27 | 1100 | 4+4 | | 101/493 | 139/281 | 177/181 | 216/126 | 1570 | φ1120×10 | | 2856 | 3402 | 3948 | 4094 |
| 28 | 1200 | 4+4 | | 92/627 | 126/357 | 161/230 | 194/160 | 1680 | φ1220×14 | | 3317 | 3940 | 4568 | 5196 |

DJ单式铰链型波纹补偿器

DJ unitary hinged bellows compensator



- 1 接管
- 2 加强板
- 3 直拉板
- 4 衬拉板
- 5 销轴
- 6 波体



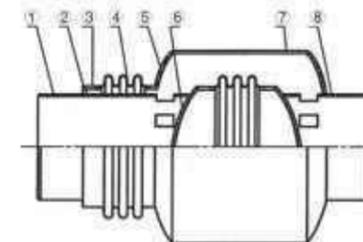
| 通径 DN | 压力等级MPa | | | | |
|----------|--------------------------|----------------|-----------------|----------------|----------------|
| | 0.25 | 0.6 | 1.0 | 1.6 | 2.5 |
| | 长度mm 轴向补偿量mm/(度) 刚度N.m/度 | | | | |
| 150 | 600/±8.9/12 | 600/±5.0/23 | 600/±4.3/36 | 600/±3.47/76 | 600/±3.07/87 |
| 200 | 600/±8.9/36 | 600/±6.4/50 | 650/±5.1/115 | 650/±4.3/115 | 700/±3.5/278 |
| 250 | 600/±8.9/36 | 600/±4.9/79 | 650/±3.6/200 | 650/±3.3/320 | 700/±3.8/489 |
| 300 | 650/±7.2/36 | 650/±4.9/109 | 650/±4.0/278 | 150/±3.5/488 | 750/±3.2/594 |
| 350 | 350/±7.0/49 | 650/±3.9/109 | 700/±3.3/314 | 750/±2.8/765 | 800/±2.7/832 |
| 400 | 650/±5.5/78 | 660/±4.2/123 | 700/±3.5/502 | 750/±2.6/987 | 850/±3.0/1186 |
| 450 | 750/±5.9/98 | 750/±3.4/293 | 750/±2.9/754 | 850/±2.9/167 | 1000/±2.2/1312 |
| 500 | 750/±5.0/120 | 750/±3.3/469 | 750/±2.2/987 | 850/±1.9/153 | 1000/±2.3/2145 |
| 600 | 850/±6.1/187 | 850/±4.4/399 | 900/±3.2/1869 | 1000/±2.9/1150 | 1100/±2.0/2254 |
| 700 | 850/±5.9/185 | 850/±4.2/577 | 950/±3.8/768 | 1100/±3.0/150 | |
| 800 | 900/±5.5/455 | 900/±3.4/764 | 1000/±3.9/1665 | 1100/±2.6/2987 | |
| 900 | 900/±4.9/364 | 900/±3.3/105 | 1100/±3.8/1582 | 1200/±2.2/3398 | |
| 1000 | 1000/±5.1/948 | 1000/±3.2/2020 | 1100/±2.9/5648 | 1200/±2.5/5064 | |
| 1100 | 1000/±4.2/765 | 1000/±3.1/2525 | 1100/±2.8/7589 | 1300/±2.6/7356 | |
| 1200 | 1000/±4.9/769 | 1000/±2.8/3386 | 1200/±3.1/9870 | 1400/±2.9/7598 | |
| 1400 | 1100/±3.1/1336 | 1100/±2.2/5648 | 1200/±2.2/16630 | | |
| 1500 | 1100/±3.9/1864 | 1100/±2.1/6489 | 1300/±2.5/13353 | | |

PP旁通直管压力平衡补偿器

PP by-pass straight pipe pressure balance compensator



- 1 进口端管
- 2 进口端环
- 3 导流管
- 4 限位环
- 5 端接管
- 6 波纹管
- 7 外管
- 8 出口端管



一、产品特点:

- 1、具有吸收内压推力的能力，自平衡性较ZP型优越；
- 2、刚度小、导向性好；
- 3、外形尺寸小，经济性好；
- 4、产品安装无方向性要求。

二、产品使用与安装注意事项:

- 1、为减少弹性反力，产品均已作50%的预拉伸，安装时不必再预拉；
- 2、安装时，注意疏水口必须朝下；
- 3、现场安装完后，须将小拉杆拆除。

主要数据

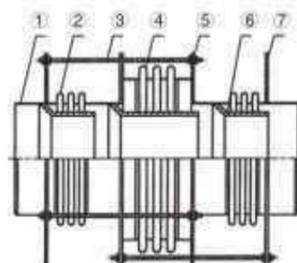
| 公称通径DN mm | 波数 n | 轴向补偿量 XO mm | 轴向刚度 Kx N/mm | 径向外形 最大尺寸 mm | 产品长度Lmm 联接型式接管J | 法兰 F |
|--|---------|-------------------|--------------------|--------------------|--------------------|---------|
| 设计压力PN=0.6-1.6MPa 疲劳寿命(N)=200次 设计温度t=20℃ | | | | | | |
| 100 | 16 | 77 | 212 | 230 | 1114 | 1124 |
| | 32 | 154 | 106 | | 1577 | 1587 |
| 125 | 16 | 80 | 241 | 280 | 1175 | 1185 |
| | 32 | 160 | 121 | | 1640 | 1650 |
| 150 | 16 | 80 | 274 | 325 | 1215 | 1225 |
| | 32 | 160 | 137 | | 1680 | 1690 |
| 200 | 16 | 122 | 424 | 426 | 1576 | 1600 |
| | 32 | 244 | 212 | | 2222 | 2246 |
| 250 | 16 | 120 | 494 | 529 | 1670 | 1694 |
| | 32 | 240 | 247 | | 2310 | 2334 |
| 300 | 16 | 154 | 439 | 630 | 1915 | 1940 |
| | 32 | 308 | 220 | | 2668 | 2692 |
| 350 | 16 | 153 | 491 | 670 | 2010 | 2034 |
| | 32 | 306 | 246 | | 2763 | 2787 |
| 400 | 16 | 151 | 543 | 720 | 2128 | 2152 |
| | 32 | 302 | 272 | | 2885 | 2910 |
| 450 | 16 | 149 | 598 | 820 | 2174 | 2200 |
| | 32 | 298 | 299 | | 2925 | 2950 |
| 500 | 16 | 146 | 654 | 920 | 2270 | 2294 |
| | 32 | 292 | 327 | | 3018 | 3042 |
| 600 | 16 | 168 | 734 | 1120 | 3010 | 3034 |
| | 32 | 336 | 367 | | 4178 | 4200 |
| 700 | 12 | 166 | 1067 | 1220 | 3272 | 3300 |
| | 24 | 332 | 534 | | 4516 | 4540 |
| 800 | 12 | 163 | 1173 | 1320 | 3452 | 3476 |
| | 24 | 326 | 578 | | 4693 | 4717 |
| 900 | 12 | 160 | 1286 | 1520 | 3660 | 3684 |
| | 24 | 320 | 643 | | 4930 | 4954 |
| 1000 | 12 | 199 | 959 | 1620 | 3870 | 3894 |
| | 24 | 398 | 480 | | 5159 | 5183 |
| 1100 | 12 | 196 | 1035 | 1720 | 4028 | 4060 |
| | 24 | 392 | 518 | | 5316 | 5340 |
| 1200 | 12 | 194 | 1111 | 1920 | 4188 | 4212 |
| | 24 | 388 | 556 | | 5474 | 5500 |

ZP直管压力平衡型波纹补偿器

ZP straight pipe pressure balance type corrugated compensator



- ①端管
- ②工作波纹管
- ③拉杆
- ④平衡波纹管
- ⑤端板
- ⑥导流筒
- ⑦端板



一、产品特点:

该膨胀节的两端各有一个工作波纹管，中间有一个平衡波纹管，膨胀节通过受力构件（大拉杆或舌管）来承受内压推力，因此管系只需中间固定支架。此类膨胀节只能吸收轴向位移。

二、产品使用与安装注意事项:

- 1、此类膨胀节一般应用在架空的直管线上。
- 2、膨胀节安装完后，所有的小拉杆须拆除。
- 3、为减少膨胀节对去座的弹性反力，在安装前可对此膨胀节进行预拉或预压（可通过调整其上的小拉杆实现）。

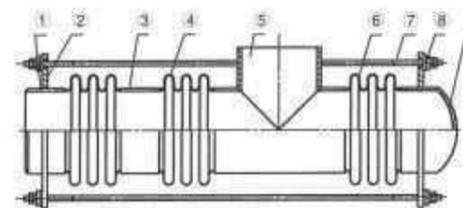
| 公称口径 DN mm | 波纹管 | | 轴向补偿量 X_0 mm | 轴向刚度 K_{X_0} N/mm | 径向外形 最大尺寸 mm | 产品长度Lmm | | 产品类型 |
|---|----------|--|----------------------|---------------------------|--------------------|---------|------|------|
| | 总波数 n | $n/2n_0$ n_0 -大管波数 n_1 -小管波数 | | | | 联接型式 | | |
| | | | | | | 接管J | 法兰F | |
| 设计压力PN=0.25MPa(2.5kgf/cm ²) 疲劳寿命[N]=1000次 设计温度t=20℃ | | | | | | | | |
| 600 | 12 | 4/8 | 82 | 1050 | 1173 | 2000 | 2024 | ZP |
| | 18 | 6/12 | 123 | 700 | | 2300 | 2324 | |
| | 24 | 8/16 | 165 | 525 | | 2700 | 2724 | |
| 700 | 12 | 4/8 | 82 | 1347 | 1331 | 2000 | 2024 | ZP |
| | 18 | 6/12 | 123 | 898 | | 2300 | 2324 | |
| | 24 | 8/12 | 163 | 674 | | 2700 | 2724 | |
| 800 | 12 | 4/8 | 98 | 1003 | 1474 | 2000 | 2024 | ZP |
| | 18 | 6/12 | 146 | 668 | | 2300 | 2324 | |
| | 24 | 8/16 | 195 | 501 | | 2700 | 2724 | |
| 900 | 12 | 4/8 | 106 | 1075 | 1634 | 2000 | 2024 | ZP |
| | 18 | 6/12 | 159 | 716 | | 2300 | 2324 | |
| | 24 | 6/16 | 212 | 537 | | 2700 | 2724 | |
| 1000 | 12 | 4/8 | 108 | 1136 | 1808 | 2000 | 2024 | ZP |
| | 18 | 6/12 | 162 | 758 | | 2300 | 2324 | |
| | 24 | 6/16 | 215 | 568 | | 2700 | 2724 | |
| 1100 | 12 | 4/8 | 102 | 1404 | 2016 | 2100 | 2124 | ZP |
| | 18 | 6/12 | 154 | 936 | | 2450 | 2474 | |
| | 24 | 8/16 | 205 | 702 | | 2900 | 2924 | |
| 1200 | 12 | 4/8 | 110 | 1246 | 2170 | 2100 | 2124 | ZP |
| | 18 | 6/12 | 165 | 831 | | 2450 | 2474 | |
| | 24 | 8/16 | 220 | 623 | | 2900 | 2924 | |

WP弯管压力平衡型波纹补偿器

WP bent pipe pressure balance type corrugated compensator



- ①端管
- ②端板
- ③中间管
- ④工作波纹管
- ⑤三通
- ⑥平衡波纹管
- ⑦拉杆
- ⑧球面、锥面
- ⑨封头
- ⑩垫圈



一、产品工作特点:

此类膨胀节的前部（通道端）有两个工作波纹管，可以吸收来自弯管段产生的横向位移，后部（平衡端）有一个平衡波纹管，它可以吸收来自直管段的轴向位移。当弯管段产生横向位移时，大拉杆上球面螺母绕球面垫圈转动，同时大拉杆承受内压的推力。因此该膨胀节常用于泵、罐、压缩机、气轮机出口处，以减少对上述设备的作用力。

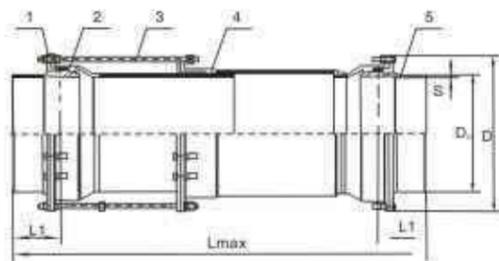
二、产品使用、安装注意事项:

- 1、内衬筒方向应与介质流向一致（膨胀节上有流向标志）；
- 2、现场安装完后，须拆除小拉杆；
- 3、为了减少支座受力，产品在安装时可进行“预变形”。轴向即可预拉伸或预压缩；横向即进行冷紧，冷紧是取实际补偿量的一半即 $-\frac{1}{2}Y$ ，在横向变形的反方向进行冷紧。

| 公称口径 DN mm | 通道端 波数 n_1 | 通道端 波数 n_2 | 补偿量mm | | 轴向 单波刚度 K_{X_0} N/mm | 横向 总刚度 K_{Y_0} N/mm | 尺寸mm | | 产品总长Lmm | | 产品类型 |
|---|--------------------|--------------------|-------------|-------------|---------------------------------|--------------------------------|------|------|---------|------|------|
| | | | 轴向 X_0 | 横向 Y_0 | | | A | B | 联接型式 | | |
| | | | | | | | | 接管J | 法兰F | | |
| 设计压力PN=0.2MPa(2kgf/cm ²) 疲劳寿命N=10 ⁴ 次 设计温度t=20℃ 工作温度T≤150℃ | | | | | | | | | | | |
| 1000 | 8 (4+4) | 6 | 30 | 30 | 1393 | 71 | 3090 | 1020 | 4790 | 4802 | WP |
| 1100 | | | | | 1490 | 91 | 3190 | 1120 | 4965 | 4977 | |
| 1200 | | | | | 1594 | 114 | 3290 | 1220 | 5140 | 5152 | |
| 1300 | | | | | 1700 | 142 | 3390 | 1320 | 5315 | 5327 | |
| 1400 | | | | | 1807 | 101 | 3780 | 1420 | 5870 | 5882 | |
| 1500 | | | | | 1590 | 102 | 3880 | 1520 | 6045 | 6057 | |
| 1600 | 10 (5+5) | 7 | 30 | 30 | 1682 | 94 | 4180 | 1620 | 6436 | 6448 | WP |
| 1700 | | | | | 1774 | 111 | 4340 | 1720 | 6761 | 6773 | |
| 1800 | | | | | 1867 | 130 | 4440 | 1820 | 6936 | 6948 | |
| 1900 | | | | | 1960 | 151 | 4540 | 1920 | 7111 | 7123 | |
| 2000 | | | | | 2058 | 246 | 4640 | 2020 | 7286 | 7298 | |
| 2100 | | | | | | | | | | | |
| 设计压力PN=0.6MPa(6kgf/cm ²) 疲劳寿命N=10 ⁴ 次 设计温度t=20℃ 工作温度T≤150℃ | | | | | | | | | | | |
| 700 | 8 (4+4) | 6 | 20 | 20 | 2651 | 154 | 2288 | 700 | 3756 | 3777 | WP |
| 800 | | | | | 2811 | 208 | 2388 | 800 | 3940 | 3952 | |
| 900 | | | | | 2974 | 176 | 2688 | 900 | 4315 | 4327 | |
| 1000 | 10 (5+5) | 7 | 30 | 30 | 4106 | 236 | 2890 | 1000 | 4702 | 4714 | WP |
| 1100 | | | | | 4382 | 211 | 3198 | 1100 | 5085 | 5097 | |
| 1200 | | | | | 4680 | 265 | 3298 | 1200 | 5260 | 5272 | |
| 1300 | | | | | 4985 | 243 | 3648 | 1300 | 5735 | 5747 | |
| 1400 | | | | | 4021 | 226 | 3748 | 1400 | 5910 | 5922 | |
| 1500 | | | | | 4261 | 209 | 4048 | 1500 | 6295 | 6307 | |

三维球形补偿器

Three dimensional spherical compensator



1-压盖 2-伸缩管 3-限位拉杆 4-壳体 5-球形接头

一、结构简图及工作原理

该产品结构如图所示，主要由壳体、球形接头、伸缩管、限位拉杆及基础件等组成。

工作原理：利用两端球形接头的转动和中间伸缩接管的轴向位移来吸收（或补偿）管道多维方向的变形，密封式采用压盖压实壳体内部密封圈的方式，使其密封可靠，结构合理，使用维护方便，重量轻，适用范围广，深受用户的好评，能较好地满足大型电站锅炉煤粉管道以及其他具有多维变化补偿需求的场合。

A. diagram of the structure and working principle

The structure of the product as shown in the figure, is mainly composed of a casing, a spherical joint, a telescopic tube, a limiting rod and basic components. Working principle: using spherical joints at both ends of the axial displacement of the rotating and middle telescopic connecting pipe to absorb (or compensation) deformation multidimensional direction of the pipeline, sealed by the shell gland compaction Department of the sealing ring, the sealing is reliable, reasonable structure, convenient use and maintenance, light weight, wide application range, well received by users, and can better meet the requirements of large power plant boilers, pulverized coal pipe Road and other demand compensation multi-dimensional change of situation.

二、主要技术指标

- 1、工作压力：0.35MPa
- 2、工作温度：≤220℃/≤450℃
- 3、补偿量：轴向（50mm~300mm）
角向（±4°~±8°）

Two, the main technical indicators

- 1, working pressure: 0.35MPa
- 2, working temperature: less than 220 DEG C / less than or equal to 450 DEG C.
- 3, the amount of compensation: axial (50mm - 300mm)
Angular (plus or minus 4 degrees to + 8 degrees).

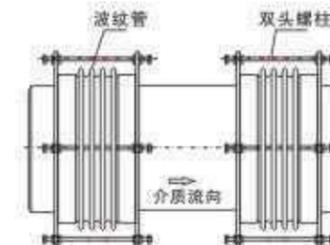
三、主要连接尺寸及参数

Three, the main connection dimensions and parameters

| 序号 | 公称口径DN (mm) | 最大伸缩量 (mm) | 最大偏转角度 (θ°) | Dw (mm) | S (mm) | D (mm) | L1 (mm) | Lmax (mm) |
|----|-------------|------------|-------------|---------|--------|--------|---------|-----------|
| 1 | 200 | 50~300 | ±4~±8 | 219 | 8 | 325 | 95 | 1000~3000 |
| 2 | 250 | | | 273 | 8 | 380 | 105 | |
| 3 | 300 | | | 325 | 8 | 450 | 115 | |
| 4 | 350 | | | 377 | 8 | 515 | 140 | |
| 5 | 400 | | | 426 | 10 | 585 | 150 | |
| 6 | 450 | | | 478 | 10 | 635 | 155 | |
| 7 | 500 | | | 530 | 10 | 705 | 165 | |
| 8 | 550 | | | 580 | 10 | 740 | 170 | |
| 9 | 600 | | | 630 | 10 | 810 | 175 | |
| 10 | 700 | | | 720 | 10 | 900 | 205 | |
| 11 | 800 | | | 820 | 10 | 1000 | 230 | |

煤粉管道三向补偿器

D-LD2000-65301-65339



一、概况

煤粉管道三向补偿器主要用于电厂锅炉送粉管道，吸收锅炉炉膛向下热膨胀和炉膛的横向膨胀及送粉管道的热位移。本补偿器能吸收任意方向位移。

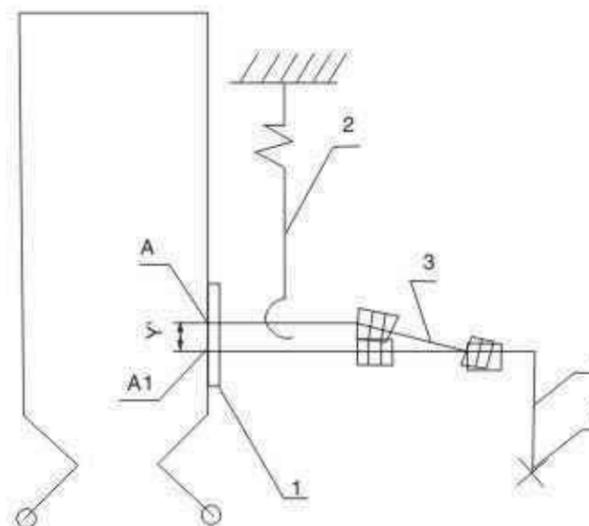
本部件一般装设在燃烧器入口水平或垂直送粉管道上。

1、水平布置

标号：D—LD2000—65301—65339

补偿器位移形式：主要吸收横向位移和少量轴向位移。

为减少磨损和流阻，本部件一般在现场按冷紧状态安装（又称偏装），冷紧量Y一般按燃烧器接口热态时向下膨胀量的50%~100%，如下图示：

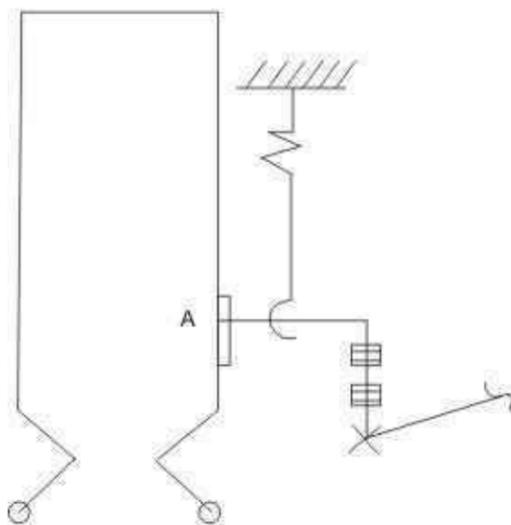


- 1—燃烧器
- 2—恒力吊支架
- 3—三维补偿器
- 4—送粉管道
- 5—固定管架
- A—冷态位置
- A1—热态位置

2、垂直布置

标号：D—LD2000—65341—65379

补偿器位移形式：主要吸收轴向位移和较小横向位移。为减少A点受力，本部件在制造厂家出厂前进行预拉伸，如下图示：



二、性能参数

- 1、使用压力(P): $\leq 0.1\text{MPa}$ (设计爆破压力 $\geq 0.35\text{MPa}$);
- 2、使用温度(t): $0\sim 350^{\circ}\text{C}$;
- 3、波纹管结构: 奥氏体不锈钢板双层结构, 内层0Cr17Ni14Mo2, 外层0Cr18Ni9 (GB3280)
- 4、产品刚度参数表中列出的刚度均系 20°C 时的刚度, 由下表得到实际温度下对应的刚度:

| 工作温度(°C) | 20 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 400 |
|----------|----------------------|------|------|------|----------------------|------|------|------|------|
| 刚度修正系数fk | 1.0 | 0.99 | 0.98 | 0.97 | 0.95 | 0.93 | 0.90 | 0.86 | 0.84 |
| 刚度值 | $Kx=f_k \times Kx_0$ | | | | $Ky=f_k \times Ky_0$ | | | | |

5、补偿量

补偿同时吸收轴向位移X、横向位移Y, 应满足 $X \leq X_0$, $Y \leq Y_0$, 参数表中所列的轴向补偿量主要为压缩位移。

6、疲劳寿命

参数表中所列补偿量对应的疲劳寿命 ≥ 1000 次。

7、连接方式: 对焊连接

三、订货时需提供的参数

- 1、送粉管道的外径×壁厚;
- 2、产品的长度及补偿量。

煤粉管道三向补偿器连接尺寸

| 序号 | 标号 | 公称直径 | 外径×壁厚 Dw×S (mm) | 轴向 补偿量 X ₀ (mm) | 横向 补偿量 Y ₀ (mm) | 轴向刚度 K _x (N/mm) | 横向刚度 K _y (N/mm) | L (mm) | 径向最大 外形尺寸 A(mm) | 质量 (kg) |
|----|----------------|------|-----------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------|-----------------------|------------|
| 1 | D-LD2000-65301 | 200 | 219×8 | 50 | 180 | 117 | 8 | 1500 | 440 | 293 |
| 2 | D-LD2000-65302 | 250 | 273×9 | 50 | 170 | 130 | 12 | | 490 | 329 |
| 3 | D-LD2000-65303 | 300 | 325×10 | 50 | 155 | 143 | 17 | | 540 | 348 |
| 4 | D-LD2000-65304 | 350 | 377×10 | 50 | 140 | 156 | 23 | | 590 | 380 |
| 5 | D-LD2000-65305 | 400 | 426×10 | 50 | 125 | 170 | 29 | | 640 | 420 |
| 6 | D-LD2000-65306 | 200 | 219×8 | 50 | 280 | 117 | 4 | | 440 | 319 |
| 7 | D-LD2000-65307 | 250 | 273×9 | 50 | 260 | 130 | 6 | 490 | 357 | |
| 8 | D-LD2000-65308 | 300 | 325×10 | 50 | 230 | 143 | 8 | 540 | 394 | |
| 9 | D-LD2000-65309 | 350 | 377×10 | 60 | 190 | 156 | 10 | 590 | 432 | |
| 10 | D-LD2000-65310 | 400 | 426×10 | 60 | 170 | 170 | 13 | 640 | 480 | |
| 11 | D-LD2000-65311 | 450 | 480×10 | 70 | 220 | 148 | 16 | 2000 | 710 | 644 |
| 12 | D-LD2000-65312 | 500 | 530×10 | 70 | 220 | 154 | 20 | | 760 | 702 |
| 13 | D-LD2000-65313 | 550 | 580×10 | 70 | 210 | 157 | 23 | | 810 | 765 |
| 14 | D-LD2000-65314 | 600 | 630×10 | 70 | 210 | 161 | 27 | | 870 | 828 |
| 15 | D-LD2000-65315 | 18" | 457.2×9.525 | 70 | 220 | 148 | 16 | | 710 | 629 |
| 16 | D-LD2000-65316 | 20" | 508×9.525 | 70 | 220 | 154 | 20 | | 760 | 687 |
| 17 | D-LD2000-65317 | 22" | 558.8×9.525 | 70 | 210 | 157 | 23 | 810 | 750 | |
| 18 | D-LD2000-65318 | 24" | 609.6×9.525 | 70 | 210 | 161 | 27 | 870 | 813 | |
| 19 | D-LD2000-65319 | 200 | 219×8 | 60 | 340 | 117 | 2 | 2500 | 440 | 344 |
| 20 | D-LD2000-65320 | 250 | 273×9 | 60 | 310 | 130 | 3 | | 490 | 393 |
| 21 | D-LD2000-65321 | 300 | 325×10 | 60 | 280 | 143 | 4 | | 540 | 440 |
| 22 | D-LD2000-65322 | 350 | 377×10 | 60 | 260 | 156 | 6 | | 590 | 485 |
| 23 | D-LD2000-65323 | 400 | 426×10 | 60 | 230 | 170 | 8 | | 640 | 539 |
| 24 | D-LD2000-65324 | 450 | 480×10 | 70 | 310 | 148 | 9 | | 710 | 711 |
| 25 | D-LD2000-65325 | 500 | 530×10 | 70 | 300 | 154 | 11 | 760 | 776 | |
| 26 | D-LD2000-65326 | 550 | 580×10 | 70 | 290 | 157 | 13 | 810 | 846 | |
| 27 | D-LD2000-65327 | 600 | 630×10 | 70 | 290 | 161 | 15 | 870 | 917 | |
| 28 | D-LD2000-65328 | 18" | 457.2×9.525 | 70 | 310 | 148 | 9 | 710 | 693 | |
| 29 | D-LD2000-65329 | 20" | 508×9.525 | 70 | 300 | 154 | 11 | 760 | 758 | |
| 30 | D-LD2000-65330 | 22" | 558.8×9.525 | 70 | 290 | 157 | 13 | 810 | 828 | |
| 31 | D-LD2000-65331 | 24" | 609.6×9.525 | 70 | 290 | 161 | 15 | 870 | 899 | |
| 32 | D-LD2000-65332 | 450 | 480×10 | 80 | 370 | 148 | 6 | 3000 | 710 | 777 |
| 33 | D-LD2000-65333 | 500 | 530×10 | 80 | 360 | 154 | 7 | | 760 | 851 |
| 34 | D-LD2000-65334 | 550 | 580×10 | 80 | 350 | 157 | 8 | | 810 | 928 |
| 35 | D-LD2000-65335 | 600 | 630×10 | 80 | 340 | 161 | 9 | | 870 | 1005 |
| 36 | D-LD2000-65336 | 18" | 457.2×9.525 | 80 | 370 | 148 | 6 | | 710 | 756 |
| 37 | D-LD2000-65337 | 20" | 508×9.525 | 80 | 360 | 154 | 7 | | 760 | 830 |
| 38 | D-LD2000-65338 | 22" | 558.8×9.525 | 80 | 350 | 157 | 8 | 810 | 907 | |
| 39 | D-LD2000-65339 | 24" | 609.6×9.525 | 80 | 340 | 161 | 9 | 810 | 984 | |

XZ免维护旋转补偿器

XZ maintenance free rotating compensator

免维护旋转补、封座外套、柔性石墨填料、螺母螺栓N个压簧组合、填料压盖及弹簧压紧法兰构成；所述填料压紧法兰与压紧上法兰之间设有压簧，压紧法兰纵截面为U型的槽圈。U型槽圈中以及内导管右端面两个定环之间设有与变径管相配合运动的滚珠式滚动环。

Maintenance free rotation compensation, the sealing base coat, flexible graphite packing, nuts and bolts N spring combination, the packing gland and the spring pressing flange form: the pressure spring is provided with the packing gland flange and pressing on the flange between the groove ring type U longitudinal section of a pressing flange. And the reducer pipe is matched with the motion of the ball rolling ring is arranged between the U type groove ring and inner catheter right end surfaces of the two ring.



工作原理:

免维护旋转补偿器和旋转补偿器产品使用都是靠填料腔内的柔性填料进行密封。产品使用过程中每旋转一次填料就会磨损一点，当磨损量达到一定值时，产品就会出现泄漏。免维护旋转补偿器因在填料压紧法兰上方增加了一组弹簧，当填料出现微量磨损时，依靠压紧弹簧的张力给予补偿，从而延长产品发生泄漏时间（泄漏时间延后3-5年）。当磨损量超过弹簧张力补偿量时，只需扳紧弹簧压紧法兰上方的螺帽即可，不需要停气修复，运行无次数限制，不易产生泄漏，从而大大提高供气单位和用气单位的社会经济效益。该产品在0.1MPa的压力下补偿5000次不产生泄漏，密封效果优越。

免维护式旋转补偿器的密封填料采用目前国内最先进的填料，耐温-60℃—800℃，由于补偿器的内套管外部和外套管内部焊有挡环，两挡环之间设有在减小摩擦力的滚动环滚珠，减小了内套管对密封填料的磨损。且由于补偿器装置上多组弹簧的自然张力推压着填料压紧法兰，使磨损极为轻微的密封填料永远处于紧凑状态，从而使管道中的液体或气体介质不产生泄漏，当填料磨损量大时，弹簧张力无法满足调整，可用外力对弹簧压紧进行调整从而达到不停止工作状态达到所要求的密封效果，所以本产品克服了其它同类产品的不足，原有的旋转式、套管式补偿器当填料磨损后无法得到及时补偿调整本免维护式补偿器因为使用了内管和变径管为同径，使介质能够畅通、畅流、解决于上述问题。

The working principle of:

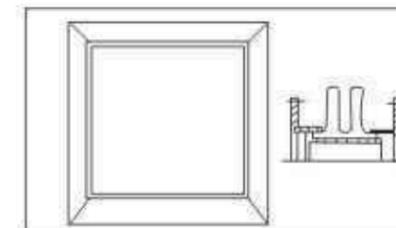
Maintenance free rotating compensator and the rotating compensator product use is to rely on flexible filler packing chamber sealing. Products used in the process of each spin Turn a filler will wear a little, when the wear amount reaches a certain value, the leakage of products will appear. Maintenance free rotating compensator for the packing gland A group of spring to increase the flange above, when the filler had little wear, by the pressing spring tension compensation, so as to prolong the product leak (leak time delay time 3-5 years). When the amount of wear Over the spring tension compensation amount, just pull tension spring clamping flange above the nut can, do not need to stop the gas repair, running unlimited, being not easy to leak, thereby greatly improving the air supply unit and Gas unit of social and economic benefit. This product is 5000 time compensation does not produce leakage under the pressure of 0.1Mpa, the sealing effect is excellent.

Free sealing filler is currently the most advanced packing airtightness rotary compensator, resistance to temperature of -60 DEG C and 800 C, because the inner casing and the outer casing external internal welding compensator with a baffle ring, the two retaining ring installed in the decrease of the friction (rolling ring) ball, decreases the inner sleeve on the abrasion of the sealing filler. And because of the natural tension multiple spring compensator device pushes a gland flange, so wear extremely Slight sealing filler forever in a compact state, so that the liquid or gas medium in the pipe does not produce leakage, when the filler wear quantity is big, the tension of the spring can not meet the adjustment, available external force on the spring pressure Tight adjusted so as to achieve does not stop working state to achieve the required sealing effect, so the product overcomes the defects of other products of the same type, rotary type, sleeve type compensator original when the packing wear Unable to get timely compensation adjustment of the maintenance free type compensator for the use of the inner pipe and variable diameter pipe for the same size, so that the medium can flow, Shun, to solve the above problem.

| 序号 NO. | 公称口径 Nominal diameter | 接口尺寸D Interface size | 最大外形尺寸D ₁ The biggest size | 产品长度 The length of products |
|-----------|--------------------------|-------------------------|--|--------------------------------|
| 1 | 50 | 57 | 142 | 225 |
| 2 | 80 | 89 | 190 | 250 |
| 3 | 100 | 108 | 220 | 250 |
| 4 | 125 | 133 | 240 | 280 |
| 5 | 150 | 159 | 275 | 250 |
| 6 | 200 | 219 | 335 | 300 |
| 7 | 250 | 273 | 395 | 300 |
| 8 | 300 | 325 | 450 | 350 |
| 9 | 350 | 377 | 510 | 350 |
| 10 | 400 | 426 | 560 | 350 |
| 11 | 450 | 480 | 610 | 380 |
| 12 | 500 | 530 | 670 | 380 |
| 13 | 600 | 630 | 760 | 400 |

CE金属矩形波纹补偿器

CE metal rectangular corrugated compensator



设计安装数据表 Data sheet for design installation

| 前面尺寸LpXLa(m) Face Dimension LpXLa (m) | 1000X800 | | 1500X800 | | 2000X800 | | 2500X800 | | 3000X800 | | |
|--|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|-----|
| 波数n Wave number n | 2 | 24 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | |
| 补偿量Xc(mm) Compensation Xc (mm) | 42 | 2 | 42 | 21 | 42 | 21 | 42 | 21 | 42 | 21 | |
| 总长 General L (MM) | L0 | 310 | 470 | 310 | 470 | 310 | 470 | 310 | 470 | 310 | 470 |
| | L2 | 360 | 520 | 360 | 520 | 360 | 520 | 360 | 520 | 360 | 520 |
| | L3 | 410 | 570 | 410 | 570 | 410 | 570 | 410 | 570 | 410 | 570 |
| | L4 | 460 | 620 | 460 | 620 | 460 | 620 | 460 | 620 | 460 | 620 |
| 轴向刚度 Axial stiffness Kx(kgf/mm) | 0.0211 | 0.0106 | 0.0211 | 0.0106 | 0.0211 | 0.0106 | 0.0211 | 0.0106 | 0.0211 | 0.0106 | |

| 前面尺寸LpXLa(m) Face Dimension LpXLa (m) | 3500X800 | | 4000X800 | | 5000X800 | | 4500X1120 | | 3171X2715 | | |
|--|----------|--------|----------|--------|----------|--------|-----------|--------|-----------|--------|-----|
| 波数n Wave number n | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | |
| 补偿量Xc(mm) Compensation Xc (mm) | 42 | 38 | 21 | 38 | 21 | 38 | 21 | 38 | 21 | 38 | |
| 总长 General L (MM) | L0 | 310 | 470 | 310 | 470 | 310 | 470 | 310 | 470 | 310 | 470 |
| | L2 | 360 | 520 | 360 | 520 | 360 | 520 | 360 | 520 | 360 | 520 |
| | L3 | 410 | 570 | 410 | 570 | 410 | 570 | 410 | 570 | 410 | 570 |
| | L4 | 460 | 620 | 460 | 620 | 460 | 620 | 460 | 620 | 460 | 620 |
| 轴向刚度 Axial stiffness Kx(kgf/mm) | 0.0211 | 0.0357 | 0.0211 | 0.0357 | 0.0211 | 0.0357 | 0.0211 | 0.0357 | 0.0211 | 0.0357 | |

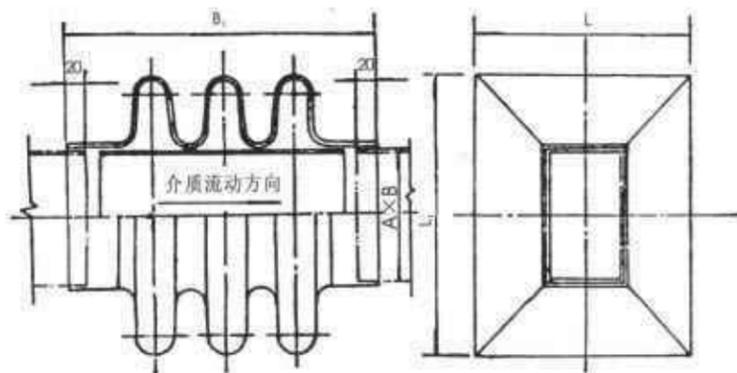
安装要求

- 1、安装前，应先检查波纹管膨胀节的型号，规格及管道的支座配置必须符合设计要求。
- 2、对带内衬的膨胀节，应注意使内衬筒方向与介质流动方向一致(按膨胀节的流向标志安装)。平面角型膨胀节的铰链流动平面应于位移平面一致。
- 3、需要进行“冷紧”的膨胀节，其预变形所用的辅助构件，应在管系安装完毕后拆除。
- 4、管系安装完毕应立即拆除膨胀节上用做安装运输保护的辅助定位机构及固件，并按设计要求将限位装置调到规定的位置，使管系在环境条件下有足够的补偿能力。
- 5、除设计要求预拉压或“冷紧”的预变形外，严禁用使波纹管变形的方法来调整管道的安装偏差。以免影响膨胀节的正常功能，降低使用寿命和增加管系、设备接管及支撑构件的载荷。
- 6、膨胀节所有的活动原件不得被外部构件卡死或限制其活动部位的正常工作。
- 7、安装过程中不允许焊渣飞溅到波纹管表面和使波纹管受到其他机械损伤。
- 8、对用于气体介质的膨胀节及其连接管道，作水压实验时，要考虑充水时是否需要检查膨胀节的检查。
- 9、水压实验用水必须洁净，无腐蚀性，并控制水中的氯离子的含量不超过25ppm。水压实验结束后，应尽快排尽波纹管中的积水，并迅速将波壳的内表面吹干。

Installation requirement:

1. Before installation, one should check the model of the expansion joints and the specifications of the corrugated pipe, and make sure that the abutment allocation of the pipe must comply with the design requirements.
2. For the expansion joints with inner linear, one should pay attention to make the internal shell be in the same directions that the medium flowing (install in accordance with the flow direction mark of the expansion joints).
3. For the expansion joints needing cold tightening?, the auxiliary components used for predeformation should be demolished after the installation of pipes is finished.
4. After the installation of pipe, the auxiliary locating mechanism and firmware used for installation transportation and protection on the expansion joints should be demolished immediately.
5. It is strictly forbidden to adjust the installation deviation of pipe with the method of deforming the corrugated pipe with the exception of deformation of the pre-tensile and compression required by the design or cold tightened? predeformation, in order to avoid influencing the normal function of expansion joints, reducing the service life and increasing the load of pipe, equipment and bracing components.
6. All the active original components of the expansion joints should not be blocked by external components, the active parts' normal work and should not be limited.
7. During the installation, it is not allowed that the welding slag splashed on the surface of the corrugated pipe or the corrugated pipe got damaged by other machines.
8. For the expansion joints used for gas medium and their connecting pipes, when conducting hydrostatic test, one should consider whether to check the expansion joints when filling water.
9. The water used for hydrostatic test must be clean, non-corrosive and the chloride ion contents in it should not more than 25ppm. After the hydrostatic test, one should drain the water in the corrugation as soon as possible and blow dry the inner surface of the corrugation shell rapidly.

矩形三波补偿器
Three rectangular wave compensator



| 序号 | 标号 | 公称口径DN | 毫米 | | | | 质量 (kg) | | |
|----|----------------|----------|------|------|------|----------------|---------|------|------|
| | | | A | B | L | L ₁ | | | |
| 1 | D-LD2000-63201 | 300x400 | 300 | 400 | 709 | 536 | 54 | | |
| 2 | D-LD2000-63202 | 300x500 | | 500 | 809 | | 609 | 61 | |
| 3 | D-LD2000-63203 | 300x600 | | 600 | 909 | | 609 | 67 | |
| 4 | D-LD2000-63204 | 300x700 | | 700 | 1009 | | 609 | 73 | |
| 5 | D-LD2000-63205 | 400x500 | 400 | 500 | 809 | 526 | 67 | | |
| 6 | D-LD2000-63206 | 400x600 | | 600 | 909 | | 709 | 73 | |
| 7 | D-LD2000-63207 | 400x700 | | 700 | 1009 | | 709 | 80 | |
| 8 | D-LD2000-63208 | 400x800 | | 800 | 1109 | | 709 | 86 | |
| 9 | D-LD2000-63209 | 500x600 | 500 | 600 | 909 | 536 | 80 | | |
| 10 | D-LD2000-63210 | 500x800 | | 800 | 1109 | | 809 | 92 | |
| 11 | D-LD2000-63211 | 500x900 | | 900 | 1209 | | 809 | 98 | |
| 12 | D-LD2000-63212 | 500x1000 | | 1000 | 1413 | | 913 | 156 | |
| 13 | D-LD2000-63213 | 600x700 | 600 | 700 | 1009 | 526 | 92 | | |
| 14 | D-LD2000-63214 | 600x800 | | 800 | 1109 | | 909 | 98 | |
| 15 | D-LD2000-63215 | 600x900 | | 900 | 1313 | | 536 | 1013 | 156 |
| 16 | D-LD2000-63216 | 700x500 | | 700 | 500 | | 809 | 526 | 86 |
| 17 | D-LD2000-63217 | 700x700 | 700 | | 1009 | 1009 | 98 | | |
| 18 | D-LD2000-63218 | 700x800 | 800 | | 1213 | 1113 | 156 | | |
| 19 | D-LD2000-63219 | 800x800 | 800 | | 1213 | 536 | 1213 | | 166 |
| 20 | D-LD2000-63220 | 800x1200 | 800 | 1200 | 1613 | 536 | 202 | | |
| 21 | D-LD2000-63221 | 800x1600 | | 1600 | 2013 | | 1213 | 239 | |
| 22 | D-LD2000-63222 | 900x400 | | 900 | 400 | | 709 | 526 | 92 |
| 23 | D-LD2000-63223 | 900x700 | | | 700 | | 1113 | | 1209 |
| 24 | D-LD2000-63224 | 900x1200 | 1200 | | 1613 | 536 | 1313 | | 212 |

矩形三波补偿器
D-LD2000-63262-63298
Three rectangular wave compensator

| 序号 | 标号 | 公称口径DN | 毫米 | | | | 质量 (kg) | |
|----|----------------|-----------|------|------|------|----------------|---------|--------|
| | | | A | B | L | L ₁ | | |
| 1 | D-LD2000-63262 | 2400x1200 | 2400 | 1200 | 1613 | 536 | 2813 | 251.8 |
| 2 | D-LD2000-63263 | 2400x1400 | | 1400 | 1813 | | 2813 | 265.1 |
| 3 | D-LD2000-63264 | 2400x1600 | | 1600 | 2013 | | 2813 | 278.5 |
| 4 | D-LD2000-63265 | 2400x1800 | | 1800 | 2213 | | 2813 | 291.8 |
| 5 | D-LD2000-63266 | 2400x2000 | 2600 | 2000 | 2413 | 602 | 3013 | 305.2 |
| 6 | D-LD2000-63267 | 2600x1600 | | 1600 | 2013 | | 3013 | 291.8 |
| 7 | D-LD2000-63268 | 2600x1800 | | 1800 | 2213 | | 3013 | 305.2 |
| 8 | D-LD2000-63269 | 2600x2000 | | 2000 | 2513 | | 3113 | 464.6 |
| 9 | D-LD2000-63270 | 2600x2200 | 2800 | 2200 | 2713 | 602 | 3113 | 483.7 |
| 10 | D-LD2000-63271 | 2800x1800 | | 1800 | 2313 | | 3113 | 464.6 |
| 11 | D-LD2000-63272 | 2800x2000 | | 2000 | 2513 | | 3113 | 483.7 |
| 12 | D-LD2000-63273 | 2800x2200 | | 2200 | 2713 | | 3113 | 502.8 |
| 13 | D-LD2000-63274 | 2800x2400 | 3000 | 2400 | 2913 | 602 | 3113 | 521.9 |
| 14 | D-LD2000-63275 | 3000x2000 | | 2000 | 2513 | | 3513 | 205.8 |
| 15 | D-LD2000-63276 | 3000x2400 | | 2400 | 2913 | | 3513 | 540.7 |
| 16 | D-LD2000-63277 | 3000x2600 | | 2600 | 3113 | | 3513 | 559.8 |
| 17 | D-LD2000-63278 | 3200x2200 | 3200 | 2200 | 2713 | 602 | 3713 | 540.7 |
| 18 | D-LD2000-63279 | 3200x2600 | | 2600 | 3113 | | 3713 | 577.9 |
| 19 | D-LD2000-63280 | 3200x3000 | | 3000 | 3513 | | 3713 | 616.9 |
| 20 | D-LD2000-63281 | 3600x2400 | | 3600 | 2400 | | 2913 | 602 |
| 21 | D-LD2000-63282 | 3600x2800 | 2800 | | 3313 | 4113 | 635.9 | |
| 22 | D-LD2000-63283 | 3600x3200 | 3200 | | 3713 | 4113 | 674.1 | |
| 23 | D-LD2000-63284 | 4000x2800 | 4000 | | 2800 | 3313 | 602 | |
| 24 | D-LD2000-63285 | 4000x3000 | | 3000 | 3513 | 4513 | | 693 |
| 25 | D-LD2000-63286 | 4000x3200 | | 3200 | 3713 | 4513 | | 712.1 |
| 26 | D-LD2000-63287 | 4500x3000 | | 4500 | 3000 | 3513 | | 602 |
| 27 | D-LD2000-63288 | 4500x3400 | 3400 | | 3913 | 5013 | 778.7 | |
| 28 | D-LD2000-63289 | 4500x4000 | 4000 | | 4513 | 5013 | 835.8 | |
| 29 | D-LD2000-63290 | 5000x3400 | 5000 | | 3400 | 3913 | 602 | |
| 30 | D-LD2000-63291 | 5000x3800 | | 3800 | 4313 | 5513 | | 864.3 |
| 31 | D-LD2000-63292 | 5000x4200 | | 4200 | 4713 | 5513 | | 902.4 |
| 32 | D-LD2000-63293 | 5500x3600 | | 5500 | 3600 | 4113 | | 602 |
| 33 | D-LD2000-63294 | 5500x4200 | 4200 | | 4713 | 6013 | 949.2 | |
| 34 | D-LD2000-63295 | 5500x4800 | 4800 | | 5313 | 6013 | 1006.3 | |
| 35 | D-LD2000-63296 | 6000x4000 | 6000 | | 4000 | 4513 | 602 | |
| 36 | D-LD2000-63297 | 6000x4600 | | 4600 | 5113 | 6513 | | 1035.6 |
| 37 | D-LD2000-63298 | 6000x5000 | | 5000 | 5513 | 6513 | | 1073.7 |

矩形圆角双波补偿器 (半高)

D-LD2000-64634-64666

Rectangle with rounded corners, double wave compensator (a high)



矩形圆角双波补偿器 (半高)

| 序号 | 标号 | 公称通径 (A x B) (mm) | A1 (mm) | B1 (mm) | A2 (mm) | B2 (mm) | 重量 (kg) |
|----|----------------|-------------------|---------|---------|---------|---------|---------|
| 1 | D-LD2000-64634 | 2000 x 1800 | 2004 | 1804 | 2340 | 2140 | 331 |
| 2 | D-LD2000-64635 | 2000 x 2000 | | 2004 | | 2340 | 348 |
| 3 | D-LD2000-64636 | 2200 x 1200 | 2204 | 1204 | 2540 | 1540 | 298 |
| 4 | D-LD2000-64637 | 2200 x 1400 | | 1404 | | 1740 | 315 |
| 5 | D-LD2000-64638 | 2200 x 1600 | | 1604 | | 1940 | 331 |
| 6 | D-LD2000-64639 | 2200 x 1800 | | 1804 | | 2140 | 348 |
| 7 | D-LD2000-64640 | 2200 x 2000 | 2004 | 2340 | 364 | | |
| 8 | D-LD2000-64641 | 2200 x 1200 | 2401 | 1204 | 2740 | 1540 | 315 |
| 9 | D-LD2000-64642 | 2400 x 1400 | | 1404 | | 1740 | 331 |
| 10 | D-LD2000-64643 | 2400 x 1600 | | 1604 | | 1940 | 348 |
| 11 | D-LD2000-64644 | 2400 x 1800 | | 1804 | | 2140 | 364 |
| 12 | D-LD2000-64645 | 2400 x 2000 | 2004 | 2340 | 380 | | |
| 13 | D-LD2000-64646 | 2600 x 1600 | 2604 | 1604 | 2940 | 1940 | 364 |
| 14 | D-LD2000-64647 | 2600 x 1800 | | 1804 | | 2140 | 380 |
| 15 | D-LD2000-64648 | 2600 x 2000 | | 2004 | | 2340 | 397 |
| 16 | D-LD2000-64649 | 2600 x 2200 | | 2204 | | 2540 | 414 |
| 17 | D-LD2000-64650 | 2800 x 1800 | 2804 | 1804 | 3140 | 2140 | 397 |
| 18 | D-LD2000-64651 | 2800 x 2000 | | 2004 | | 2340 | 414 |
| 19 | D-LD2000-64652 | 2800 x 2200 | | 2204 | | 2540 | 431 |
| 20 | D-LD2000-64653 | 2800 x 2400 | | 2404 | | 2740 | 447 |
| 21 | D-LD2000-64654 | 3000 x 2000 | 3204 | 2004 | 3340 | 2340 | 431 |
| 22 | D-LD2000-64655 | 3000 x 2400 | | 2404 | | 2740 | 533 |
| 23 | D-LD2000-64656 | 3000 x 2600 | | 2604 | | 2940 | 553 |
| 24 | D-LD2000-64657 | 3200 x 2200 | | 2204 | | 2540 | 533 |
| 25 | D-LD2000-64658 | 3200 x 2600 | 3204 | 2604 | 3540 | 2940 | 572 |
| 26 | D-LD2000-64659 | 3200 x 3000 | | 3004 | | 3340 | 610 |
| 27 | D-LD2000-64660 | 3600 x 2400 | 3604 | 2404 | 3940 | 2740 | 591 |
| 28 | D-LD2000-64661 | 3600 x 2800 | | 2804 | | 3140 | 629 |
| 29 | D-LD2000-64662 | 3600 x 3200 | | 3204 | | 3540 | 667 |
| 30 | D-LD2000-64663 | 4000 x 2800 | 4005 | 2805 | 4341 | 3141 | 668 |
| 31 | D-LD2000-64664 | 4000 x 3000 | | 3005 | | 3341 | 687 |
| 32 | D-LD2000-64665 | 4000 x 3200 | | 3205 | | 3541 | 706 |
| 33 | D-LD2000-64666 | 4500 x 3000 | | 4505 | | 3005 | 4841 |

矩形圆角四波补偿器 (半高)

D-LD2000-66334-66366

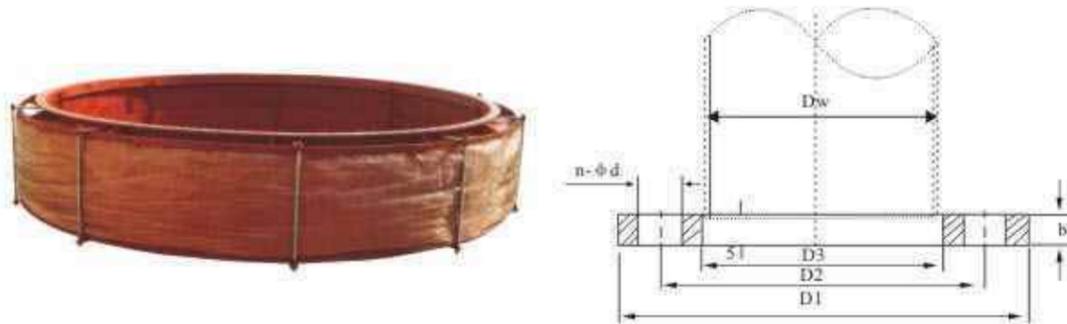
Rectangle with rounded corners four wave compensator (a high)



矩形圆角四波补偿器 (半高)

| 序号 | 标号 | 公称通径 (A x B) (mm) | A1 (mm) | B1 (mm) | A2 (mm) | B2 (mm) | 重量 (kg) |
|----|----------------|-------------------|---------|---------|---------|---------|---------|
| 1 | D-LD2000-66334 | 2000 x 1800 | 2004 | 1804 | 2344 | 2144 | 463 |
| 2 | D-LD2000-66335 | 2000 x 2000 | | 2004 | | 2344 | 488 |
| 3 | D-LD2000-66336 | 2000 x 1200 | 2204 | 1204 | 2544 | 1544 | 417 |
| 4 | D-LD2000-66337 | 2000 x 1400 | | 1404 | | 1744 | 441 |
| 5 | D-LD2000-66338 | 2000 x 1800 | | 1604 | | 1944 | 463 |
| 6 | D-LD2000-66339 | 2200 x 1800 | | 1804 | | 2144 | 488 |
| 7 | D-LD2000-66340 | 2200 x 2000 | 2004 | 2344 | 510 | | |
| 8 | D-LD2000-66341 | 2400 x 1200 | 2404 | 1204 | 2744 | 1544 | 441 |
| 9 | D-LD2000-66342 | 2400 x 1400 | | 1404 | | 1744 | 463 |
| 10 | D-LD2000-66343 | 2400 x 1600 | | 1604 | | 1944 | 488 |
| 11 | D-LD2000-66344 | 2400 x 1800 | | 1804 | | 2144 | 510 |
| 12 | D-LD2000-66345 | 2400 x 2000 | 2004 | 2344 | 532 | | |
| 13 | D-LD2000-66346 | 2600 x 1600 | 2604 | 1604 | 2944 | 1944 | 510 |
| 14 | D-LD2000-66347 | 2600 x 1800 | | 1804 | | 2144 | 532 |
| 15 | D-LD2000-66348 | 2600 x 2000 | | 2004 | | 2344 | 557 |
| 16 | D-LD2000-66349 | 2600 x 2200 | | 2204 | | 2544 | 579 |
| 17 | D-LD2000-66350 | 2800 x 1800 | 2804 | 1804 | 3144 | 2144 | 557 |
| 18 | D-LD2000-66351 | 2800 x 2000 | | 2004 | | 2344 | 579 |
| 19 | D-LD2000-66352 | 2800 x 2200 | | 2204 | | 2544 | 603 |
| 20 | D-LD2000-66353 | 2800 x 2400 | | 2404 | | 2744 | 626 |
| 21 | D-LD2000-66354 | 3000 x 2000 | 3004 | 2004 | 3344 | 2344 | 603 |
| 22 | D-LD2000-66355 | 3000 x 2400 | | 2404 | | 2744 | 718 |
| 23 | D-LD2000-66356 | 3000 x 2600 | | 2604 | | 2944 | 745 |
| 24 | D-LD2000-66357 | 3200 x 2200 | | 2204 | | 2544 | 718 |
| 25 | D-LD2000-66358 | 3200 x 2600 | 3204 | 2604 | 3544 | 2944 | 770 |
| 26 | D-LD2000-66359 | 3200 x 3000 | | 3004 | | 3344 | 822 |
| 27 | D-LD2000-66360 | 3600 x 2400 | 3604 | 2404 | 3944 | 2744 | 797 |
| 28 | D-LD2000-66361 | 3600 x 2800 | | 2804 | | 3144 | 847 |
| 29 | D-LD2000-66362 | 3600 x 3200 | | 3204 | | 3544 | 899 |
| 30 | D-LD2000-66363 | 4000 x 2800 | | 2805 | | 3145 | 899 |
| 31 | D-LD2000-66364 | 4000 x 3000 | 4005 | 3005 | 4345 | 3345 | 926 |
| 32 | D-LD2000-66365 | 4000 x 3200 | | 3205 | | 3545 | 951 |
| 33 | D-LD2000-66366 | 4500 x 3000 | 4505 | 3005 | 4845 | 3345 | 991 |

ZB型织物纤维补偿器（圆形） ZB type fabric fiber compensator (circular)



主要连接尺寸 Main joint dimension

| 圆形产品规格 specification of round product | DW | D ₁ | D ₂ | D ₃ | b | n | φd |
|---|------|----------------|----------------|----------------|----|----|----|
| | mm | | | | | | |
| φ108 | 108 | 200 | 164 | 110 | 10 | 4 | 10 |
| φ159 | 159 | 251 | 215 | 161 | | 8 | 10 |
| φ219 | 219 | 311 | 275 | 211 | | 12 | 10 |
| φ273 | 273 | 365 | 330 | 275 | | | 10 |
| φ325 | 325 | 427 | 385 | 327 | 10 | | |
| φ377 | 377 | 479 | 435 | 379 | 12 | | |
| φ426 | 426 | 528 | 490 | 428 | 12 | 12 | |
| φ480 | 480 | 595 | 540 | 483 | | 12 | |
| φ530 | 530 | 645 | 600 | 533 | | 12 | |
| φ630 | 630 | 745 | 700 | 633 | | 16 | 12 |
| φ720 | 720 | 843 | 800 | 723 | 14 | 14 | |
| φ820 | 820 | 943 | 900 | 823 | | 14 | |
| φ920 | 920 | 1043 | 1000 | 923 | | 14 | |
| φ1020 | 1020 | 1153 | 1100 | 1023 | | 20 | 14 |
| φ1120 | 1120 | 1253 | 1200 | 1123 | 14 | 14 | |
| φ1220 | 1220 | 1353 | 1300 | 1223 | | 14 | |
| φ1320 | 1320 | 1453 | 1400 | 1323 | | 24 | 14 |
| φ1420 | 1420 | 1553 | 1500 | 1423 | | 16 | 14 |
| φ1820 | 1820 | 1963 | 1910 | 1823 | 28 | | 16 |
| φ2020 | 2020 | 2363 | 2310 | 2223 | 18 | | 16 |
| φ2220 | 2220 | 2363 | 2310 | 2223 | | | 32 |
| φ2420 | 2420 | 2563 | 2510 | 2423 | | 36 | 16 |
| φ2820 | 2820 | 2983 | 2915 | 2823 | | 40 | 16 |
| φ3220 | 3220 | 3883 | 3315 | 3223 | 20 | 18 | |
| φ3620 | 3620 | 3783 | 3715 | 3623 | | 44 | 18 |
| | | | | | 22 | 52 | 18 |
| | | | | | | 56 | 18 |

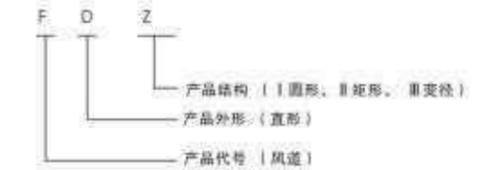
安装要求: 1、法兰螺栓应逐步均匀地加压拧紧, 所有螺栓松紧度尽可能一致。使用条件恶劣的场合, 除加平垫外可添加弹簧垫圈, 以防螺母松动。2、补偿器与配套平焊法兰之间应按工作温度选用相应橡胶石棉垫片。3、在试运行时, 应将补偿器限位螺丝作适当调整, 便于产品伸长和压缩。4、焊管连接时, 应将限位螺丝适当松动, 防止将补偿器限位板拉弯或产品变形。5、焊接作业时作遮盖物遮住橡胶(织物)表面, 防止焊渣损伤产品。

Installation requirements: 1. The flange bolt should be pressurized and screw down evenly gradually, and the tightness of all the carriage bolts are as nearly as possible. If they are used in bad conditions, spring washer can be added besides plain washer to avoid the nuts loosening. 2. Corresponding asbestos-rubber gasket should be selected and used between the compensator and mating slip-on welding flange according to the working temperature. 3. When trying out, one should make appropriate adjustments to the limit screw for the convenience of elongation and compression of the products. 4. When connecting the welding pipe, should properly loose the limit screw to prevent the stretch bending of compensator limit board or the deformation of products. 5. When welding, the rubber (fabric) surface should be covered with covering to prevent the products from damage.

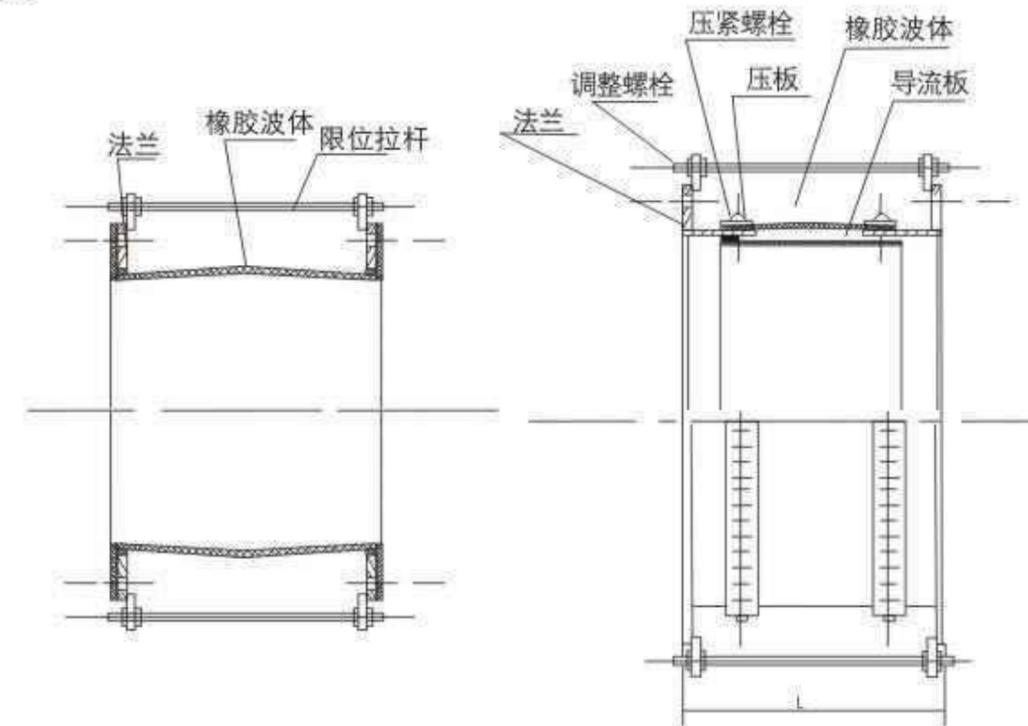
FUB型橡胶风道补偿器 FUB type rubber duct compensator



型号标识



产品结构



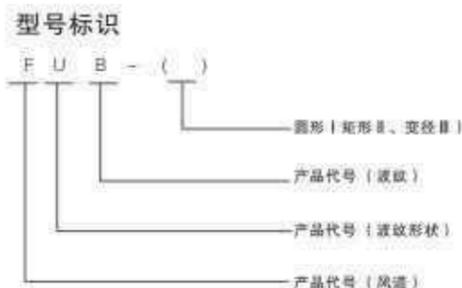
FDZ部分规格连接尺寸表

| D1 | D2 | D3 | 连接螺孔 | |
|------|------|------|------|----|
| | | | Φ | N |
| 600 | 650 | 676 | 12 | 16 |
| 800 | 860 | 910 | 15 | 16 |
| 1000 | 1065 | 1110 | 15 | 15 |
| 1200 | 1270 | 1330 | 15 | 24 |
| 1600 | 1660 | 1700 | 15 | 28 |
| 2000 | 2070 | 2020 | 15 | 32 |

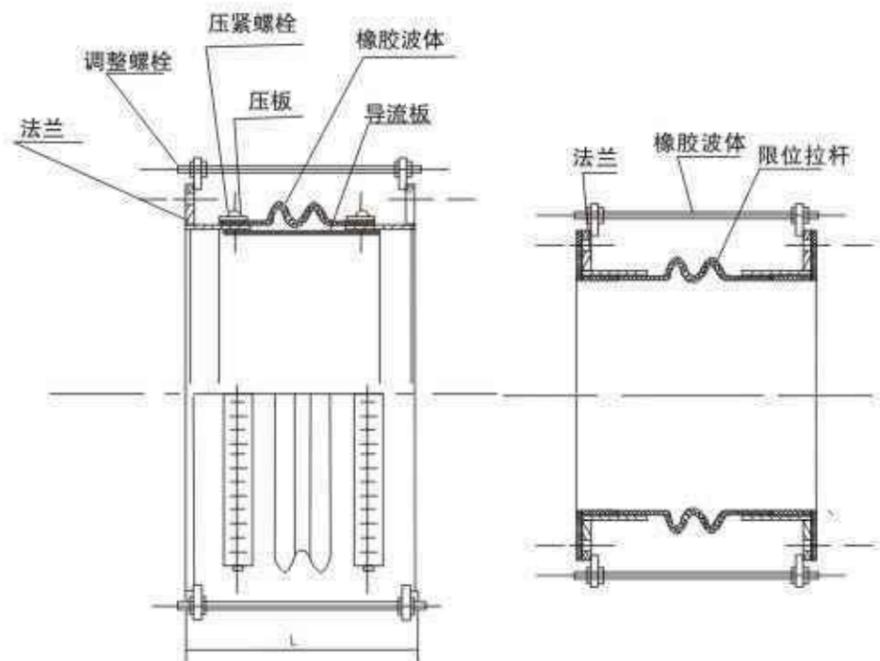
材料表

| 序号 | 名称 | 材料 |
|----|-------|--------|
| 1 | 法兰 | 0236 |
| 2 | 内、外胶层 | 天然合成橡胶 |
| 3 | 增强层 | 挂胶纤维织物 |

FUB型橡胶风道补偿器 FUB type rubber duct compensator



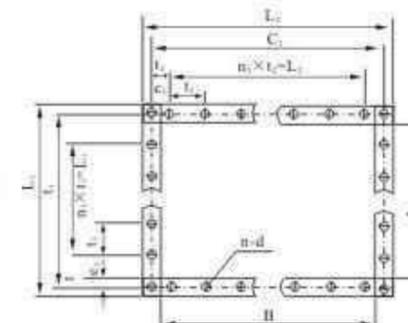
产品结构



材料表

| 序号 | 名称 | 材料 | 数量 |
|----|------|-----------|------|
| 1 | 法兰 | Q235扁钢、角钢 | 2件 |
| 2 | 内、外层 | 天然胶、硅胶 | 1件 |
| 3 | 增强层 | 挂胶纤维织物 | 2-4层 |
| 4 | 接管 | Q235 A3 | 2套 |
| 5 | 导流管 | Q235 A3 | 1套 |
| 6 | 压板 | Q235 A3 | 1件 |

ZB型织物纤维补偿器 (矩形) ZB type fabric fiber compensator (rectangle)



主要连接尺寸 Main joint dimension

| 矩形产品规格 specification of rectangle product | 管道外径 external diameter of pipeline | A | B | L ₁ | L ₂ | C ₁ | C ₂ | r | t ₁ | t ₂ | t ₃ | L ₁ | L ₂ | n ₁ | n ₂ | c ₁ /c ₂ | d | 螺栓孔数 Hole No. of bolt |
|---|--|------|------|----------------|----------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------------------|----|-----------------------------|
| 700×500 | 700×500 | 702 | 502 | 792 | 592 | 760 | 560 | 95 | 95 | 95 | 90 | 570 | 380 | 6 | 4 | 29/29 | 14 | 28 |
| 700×700 | 700×700 | 702 | 702 | 792 | 792 | 760 | 760 | 95 | 95 | 95 | 95 | 570 | 570 | 6 | 6 | 29/29 | 14 | 32 |
| 700×800 | 700×800 | 702 | 802 | 814 | 914 | 774 | 874 | 112 | 110 | 109 | 110 | 550 | 654 | 5 | 6 | 36/36 | 18 | 30 |
| 800×800 | 800×800 | 802 | 802 | 914 | 914 | 874 | 874 | 110 | 109 | 109 | 110 | 654 | 654 | 6 | 6 | 36/36 | 18 | 32 |
| 800×1200 | 800×1200 | 802 | 1202 | 914 | 1314 | 874 | 1274 | 110 | 109 | 116 | 115 | 654 | 1044 | 6 | 9 | 36/36 | 18 | 38 |
| 800×1600 | 800×1600 | 802 | 1602 | 914 | 1714 | 874 | 1674 | 110 | 109 | 119 | 123 | 654 | 1428 | 6 | 12 | 36/36 | 18 | 44 |
| 900×400 | 900×400 | 902 | 402 | 992 | 492 | 960 | 460 | 96 | 96 | 92 | 92 | 768 | 276 | 8 | 3 | 29/29 | 14 | 30 |
| 900×700 | 900×700 | 902 | 702 | 1014 | 814 | 974 | 774 | 124 | 121 | 110 | 112 | 726 | 550 | 6 | 5 | 36/36 | 18 | 30 |
| 900×1200 | 900×1200 | 902 | 1202 | 1014 | 1314 | 974 | 1274 | 124 | 120 | 110 | 115 | 726 | 1044 | 6 | 9 | 36/36 | 18 | 38 |
| 1000×600 | 1000×600 | 1002 | 602 | 1114 | 714 | 1074 | 674 | 117 | 120 | 112 | 113 | 840 | 448 | 7 | 4 | 36/36 | 18 | 30 |
| 1000×700 | 1000×700 | 1002 | 702 | 1114 | 814 | 1074 | 774 | 117 | 120 | 110 | 112 | 840 | 550 | 7 | 5 | 36/36 | 18 | 32 |
| 1000×800 | 1000×800 | 1002 | 802 | 1114 | 914 | 1074 | 874 | 117 | 120 | 109 | 110 | 840 | 654 | 7 | 6 | 36/36 | 18 | 34 |
| 1000×1000 | 1000×1000 | 1002 | 1002 | 1114 | 1114 | 1074 | 1074 | 117 | 116 | 120 | 117 | 840 | 840 | 7 | 7 | 36/36 | 18 | 36 |
| 1200×600 | 1200×600 | 1202 | 602 | 1314 | 714 | 1274 | 674 | 115 | 116 | 112 | 113 | 1044 | 448 | 9 | 4 | 36/36 | 18 | 34 |
| 1200×700 | 1200×700 | 1202 | 702 | 1314 | 814 | 1274 | 774 | 115 | 116 | 110 | 112 | 1044 | 550 | 9 | 5 | 36/36 | 18 | 36 |
| 1200×800 | 1200×800 | 1202 | 802 | 1314 | 914 | 1274 | 874 | 115 | 116 | 115 | 116 | 1044 | 654 | 9 | 6 | 36/36 | 18 | 38 |
| 1200×1000 | 1200×1000 | 1202 | 1002 | 1314 | 1114 | 1274 | 1074 | 115 | 116 | 120 | 117 | 1044 | 840 | 9 | 7 | 36/36 | 18 | 40 |
| 1200×1200 | 1200×1200 | 1202 | 1202 | 1314 | 1314 | 1274 | 1274 | 115 | 116 | 116 | 116 | 1044 | 1044 | 9 | 9 | 36/36 | 18 | 44 |
| 1400×700 | 1400×700 | 1402 | 702 | 1514 | 814 | 1474 | 774 | 110 | 114 | 110 | 112 | 1254 | 550 | 11 | 5 | 36/36 | 18 | 40 |
| 1400×800 | 1400×800 | 1402 | 802 | 1514 | 914 | 1474 | 874 | 110 | 114 | 109 | 110 | 1254 | 654 | 11 | 6 | 36/36 | 18 | 42 |
| 1400×900 | 1400×900 | 1402 | 902 | 1514 | 1014 | 1474 | 974 | 110 | 114 | 121 | 124 | 1254 | 726 | 11 | 6 | 36/36 | 18 | 42 |
| 1400×1000 | 1400×1000 | 1402 | 1002 | 1514 | 1114 | 1474 | 1074 | 110 | 114 | 120 | 117 | 1254 | 840 | 11 | 7 | 36/36 | 18 | 44 |
| 1400×1200 | 1400×1200 | 1402 | 1202 | 1514 | 1314 | 1474 | 1274 | 110 | 114 | 116 | 115 | 1254 | 1044 | 11 | 9 | 36/36 | 18 | 48 |
| 1500×800 | 1500×800 | 1502 | 802 | 1614 | 914 | 1574 | 874 | 116 | 122 | 109 | 110 | 1342 | 654 | 11 | 6 | 36/36 | 18 | 42 |
| 1500×900 | 1500×900 | 1502 | 902 | 1614 | 1014 | 1574 | 974 | 116 | 122 | 121 | 124 | 1342 | 726 | 11 | 6 | 36/36 | 18 | 42 |
| 1500×1000 | 1500×1000 | 1502 | 1202 | 1614 | 1114 | 1574 | 1074 | 116 | 122 | 120 | 117 | 1342 | 840 | 11 | 7 | 36/36 | 18 | 44 |
| 1500×1200 | 1500×1200 | 1502 | 1202 | 1614 | 1314 | 1574 | 1274 | 116 | 122 | 116 | 115 | 1342 | 1044 | 11 | 9 | 36/36 | 18 | 48 |
| 1600×1000 | 1600×1000 | 1602 | 1002 | 1714 | 1114 | 1674 | 1074 | 117 | 120 | 120 | 117 | 1440 | 840 | 12 | 7 | 36/36 | 18 | 46 |
| 1600×1200 | 1600×1200 | 1602 | 1202 | 1714 | 1314 | 1674 | 1274 | 117 | 120 | 116 | 115 | 1440 | 1044 | 12 | 9 | 36/36 | 18 | 50 |
| 1600×1400 | 1600×1400 | 1602 | 1402 | 1728 | 1528 | 1678 | 1478 | 139 | 140 | 134 | 136 | 1400 | 1206 | 10 | 9 | 38/38 | 22 | 46 |
| 1600×1600 | 1600×1600 | 1602 | 1602 | 1728 | 1728 | 1678 | 1678 | 139 | 140 | 140 | 139 | 1400 | 1400 | 10 | 10 | 38/38 | 22 | 48 |
| 1800×900 | 1800×900 | 1802 | 902 | 1914 | 1014 | 1874 | 974 | 118 | 117 | 121 | 124 | 1638 | 726 | 14 | 6 | 36/36 | 18 | 48 |
| 1800×1000 | 1800×1000 | 1802 | 1002 | 1914 | 1114 | 1874 | 1074 | 118 | 117 | 120 | 117 | 1638 | 840 | 14 | 7 | 36/36 | 18 | 50 |
| 1800×1200 | 1800×1200 | 1802 | 1202 | 1928 | 1328 | 1878 | 1278 | 135 | 134 | 142 | 142 | 1608 | 994 | 12 | 7 | 36/36 | 18 | 46 |
| 1800×1400 | 1800×1400 | 1802 | 1402 | 1928 | 1528 | 1878 | 1478 | 135 | 134 | 134 | 136 | 1608 | 1026 | 12 | 9 | 36/36 | 18 | 50 |
| 1800×1600 | 1800×1600 | 1802 | 1602 | 1928 | 1728 | 1878 | 1678 | 135 | 134 | 134 | 135 | 1608 | 1608 | 12 | 12 | 36/36 | 18 | 56 |
| 2000×1000 | 2000×1000 | 1802 | 1004 | 1928 | 1130 | 1878 | 1080 | 135 | 134 | 135 | 135 | 1608 | 810 | 12 | 6 | 36/36 | 18 | 46 |

密封橡胶推荐选用表

Recommended optional sealing rubber sheet

| 流体 Fluid | | 天然胶 NR | 丁基胶 Butyl rubber | 丁腈胶 NBR | 氯丁胶 Neoprene | 乙丙胶 Ethylenepropylene Rubber | 硅胶 Silicone | 氟胶 Fluorine rubber | 氯磺橡胶 Epichlorohydrin rubber | 氯丁橡胶 Chlorobutyl rubber |
|---------------------------|-----|-----------|---------------------|------------|-----------------|---------------------------------|----------------|-----------------------|--------------------------------|----------------------------|
| 名称 Name | | NR | LLR | NBR | CR | EPT | Si | - | CHR | CHC |
| 海水 Seawater | 90 | AB | AB | AB | AB | AB | - | - | AB | AB |
| 温泉水 Hot water | 90 | - | AB | AB | AB | AB | - | - | - | - |
| 蒸汽 Steam | 130 | - | AB | - | - | AB | - | AB | - | - |
| 氨水 Ammonia | RT | AB | - | AB | AB | AB | - | AB | - | - |
| 氨水 Ammonia (30%) | RT | AB | - | - | AB | AB | - | AB | - | - |
| 盐酸 Hydrochloric acid(10%) | RT | AB | AB | AB | AB | AB | - | AB | AB | AB |
| 干氯气 Dry chlorine | RT | - | - | - | - | - | - | AB | - | - |
| 湿氯气 Wet chlorine | RT | - | - | - | - | - | - | - | - | - |
| 硝酸 Nitric acid (10%) | RT | - | - | B | AB | - | - | AB | - | - |
| 硫酸 Sulfuric acid (10%) | RT | - | AB | - | AB | AB | - | AB | - | - |
| 硫酸 Sulfuric acid (30%) | RT | - | - | - | AB | AB | AB | AB | - | - |
| 酒精 Alcohol | RT | AB | AB | AB | AB | AB | - | AB | - | - |
| 苛性钠 Caustic soda (50%) | RT | AB | AB | AB | AB | AB | - | AB | AB | AB |
| 润滑油 Lubricating oil | 70 | - | - | AB | - | - | - | AB | AB | AB |
| 燃料油 Fuel Oil | RT | - | - | AB | - | - | - | AB | AB | AB |
| 重油 Heavy oil | RT | - | - | AB | - | - | - | AB | AB | AB |
| 汽油 Gasoline | RT | - | - | - | - | - | - | - | - | - |
| 挥发油 Volatile oil | RT | - | - | - | - | - | - | AB | - | - |
| 焦油 Tar | RT | - | - | - | - | - | - | AB | - | - |
| 氧气 Oxygen | RT | - | - | - | - | AB | AB | AB | AB | AB |
| 二氧化碳 Carbon dioxide | RT | AB | AB | AB | AB | AB | - | AB | AB | AB |
| 二氧化硫 Sulfur dioxide | RT | - | AB | AB | AB | - | - | AB | - | - |
| 天然气 Natural gas | RT | - | - | AB | AB | - | - | AB | - | - |
| 焦炉煤气 COG | RT | - | - | - | - | - | - | - | - | - |
| 发生炉煤气 Occurring gas stove | RT | - | - | AB | - | - | - | - | - | - |
| 高炉煤气 Blast furnace gas | RT | - | - | AB | AB | - | - | - | - | - |
| 真空管路 Vacuum line | RT | - | - | - | AB | - | - | - | - | - |
| 食品饮料 Food and Drink | RT | AB | - | - | - | - | AB | - | - | - |

注：1、“RT”为常温，“AB”为推荐使用，“B”为根据条件使用。

2、硅橡胶、氟橡胶价格昂贵因此部分流体本标不推荐使用，并请慎重选用。

3、上表为蝶阀产品主要橡胶胶种。

美国标准

设计标准：AWWA C504-80

连接法兰：ANSI B16.5-1992

结构长度：ANSI B16.10

阀门的检验与试验按API598

德国标准：

标准：DIN 3354

连接法兰：DIN2532.GB/T17241.6-1998

结构长度：DIN3202.BS5155

试验标准：DIN:3230.ZBJ16006-90

工作温度：

三元乙丙 ≤120℃

丁腈橡胶 ≤80℃

氟橡胶 ≤160℃

工况代号 Main joint dimension

| 代号 | P | J | Y | S |
|------|--------------------|-------------|---------------|-------|
| 适用介质 | 普通介质 | 酸碱 | 油品 | 食品医药 |
| 示例 | 水、空气、溶液、泥浆等，非腐蚀性介质 | 酸碱溶液或酸性碱性介质 | 矿物质油类动植物类有机溶剂 | 食品医药等 |

对夹式系列蝶阀尺寸表(二)

Wafer type butterfly valve series size table (B)

双向软密封手动对夹式蝶阀(D371X)、对夹式硬密封手动蝶阀(D371H)、对夹式管网自锁蝶阀(GD371X)、电动对夹式蝶阀(D971X)、气动对夹式蝶阀(D671X)、对夹式管网自锁蝶阀(GD371X)

Bidirectional soft sealing manual wafer type butterfly valve (D371X), on the folder type hard seal butterfly valve, manual (D371H) on the clip pipe self-locking butterfly valve (GD371X), electric clip on butterfly valve (D971X), Pneumatic clip on butterfly valve (D671X), on the clip hedgerow network self-locking butterfly valve (GD371X)

| 规格 DN | H1 | H2 | H3 | L | φ | 0.6MPa | | | | 1.0MPa | | | | 1.6MPa | | | | | |
|----------|------|------|-----|-----|------|--------|----------------|--------|--------|--------|------|----------------|--------|--------|------|------|----------------|--------|--------|
| | | | | | | D | D ₁ | n-d | 螺栓 | H | D | D ₁ | n-d | 螺栓 | H | D | D ₁ | n-d | 螺栓 |
| 100 | 115 | 242 | 80 | 64 | 150 | 210 | 170 | 4-φ18 | 4-M16 | 482 | 220 | 180 | 8-φ18 | 8-M16 | 482 | 220 | 180 | 8-φ18 | 8-M16 |
| 125 | 130 | 245 | 80 | 70 | 150 | 240 | 200 | 8-φ18 | 8-M16 | 500 | 250 | 210 | 8-φ18 | 8-M16 | 500 | 250 | 210 | 8-φ18 | 8-M16 |
| 150 | 145 | 277 | 80 | 76 | 150 | 265 | 225 | 8-φ18 | 8-M16 | 547 | 285 | 240 | 8-φ22 | 8-M20 | 547 | 285 | 240 | 8-φ18 | 8-M16 |
| 200 | 175 | 320 | 95 | 89 | 200 | 320 | 280 | 8-φ18 | 8-M16 | 653 | 340 | 295 | 8-φ22 | 8-M20 | 653 | 340 | 295 | 12-φ22 | 12-M20 |
| 250 | 210 | 350 | 95 | 114 | 200 | 375 | 335 | 12-φ18 | 12-M16 | 722 | 395 | 350 | 12-φ22 | 12-M20 | 722 | 405 | 355 | 12-φ26 | 12-M24 |
| 300 | 240 | 350 | 95 | 114 | 250 | 440 | 395 | 12-φ22 | 12-M20 | 827 | 445 | 400 | 12-φ22 | 12-M20 | 827 | 460 | 410 | 12-φ26 | 12-M24 |
| 350 | 262 | 438 | 95 | 127 | 250 | 490 | 445 | 12-φ22 | 12-M20 | 885 | 505 | 460 | 16-φ22 | 16-M20 | 885 | 520 | 470 | 16-φ26 | 16-M24 |
| 400 | 290 | 480 | 115 | 140 | 320 | 540 | 495 | 16-φ22 | 16-M20 | 1000 | 565 | 515 | 16-φ26 | 16-M24 | 1000 | 580 | 525 | 16-φ30 | 16-M27 |
| 450 | 315 | 505 | 115 | 152 | 320 | 595 | 550 | 16-φ22 | 16-M20 | 1052 | 615 | 565 | 20-φ26 | 20-M24 | 1052 | 640 | 585 | 20-φ30 | 20-M27 |
| 500 | 350 | 540 | 115 | 152 | 320 | 645 | 600 | 20-φ22 | 20-M20 | 1122 | 670 | 620 | 20-φ26 | 20-M24 | 1122 | 715 | 650 | 20-φ33 | 20-M30 |
| 600 | 400 | 640 | 160 | 178 | 500 | 755 | 705 | 20-φ26 | 20-M24 | 1215 | 780 | 725 | 20-φ30 | 20-M27 | 1215 | 840 | 770 | 20-φ36 | 20-M33 |
| 700 | 460 | 720 | 160 | 229 | 500 | 860 | 810 | 24-φ26 | 24-M24 | 1360 | 895 | 840 | 24-φ30 | 24-M27 | 1360 | 910 | 840 | 24-φ36 | 24-M33 |
| 800 | 520 | 770 | 270 | 241 | 500 | 975 | 920 | 24-φ30 | 24-M27 | 1580 | 1015 | 950 | 24-φ33 | 24-M30 | 1580 | 1025 | 950 | 24-φ39 | 24-M36 |
| 900 | 570 | 830 | 270 | 241 | 500 | 1075 | 1020 | 24-φ30 | 24-M27 | 1670 | 1115 | 1050 | 28-φ33 | 28-M30 | 1670 | 1125 | 1050 | 28-φ39 | 28-M36 |
| 1000 | 640 | 900 | 270 | 300 | 500 | 1175 | 1120 | 28-φ30 | 28-M27 | 1810 | 1230 | 1160 | 28-φ36 | 28-M33 | 1810 | 1255 | 1170 | 28-φ42 | 28-M39 |
| 1200 | 771 | 1029 | 285 | 360 | 500 | 1405 | 1340 | 32-φ33 | 32-M30 | 2085 | 1455 | 1380 | 32-φ39 | 32-M36 | 2085 | 1485 | 1390 | 32-φ48 | 32-M42 |
| 1400 | 880 | 1175 | 425 | 390 | 500 | 1630 | 1560 | 36-φ36 | 36-M33 | 2480 | 1675 | 1590 | 36-φ42 | 36-M39 | 2480 | 1685 | 1590 | 36-φ48 | 36-M42 |
| 1600 | 980 | 1260 | 425 | 440 | 500 | 1830 | 1760 | 40-φ36 | 40-M33 | 2665 | 1915 | 1820 | 40-φ48 | 40-M42 | 2665 | 1930 | 1820 | 40-φ56 | 42-M48 |
| 1800 | 1100 | 1380 | 425 | 490 | 500 | 2045 | 1970 | 44-φ39 | 44-M36 | 2905 | 2115 | 2020 | 44-φ48 | 44-M42 | 2905 | 2130 | 2020 | 44-φ56 | 44-M48 |
| 2000 | 1278 | 1525 | 425 | 540 | 500 | 2265 | 2180 | 48-φ42 | 48-M39 | 3228 | 2325 | 2230 | 48-φ48 | 48-M42 | 3228 | 2345 | 2230 | 48-φ60 | 48-M48 |
| 2200 | 1512 | 1519 | 425 | 500 | 2475 | 2390 | 52-φ42 | 52-M39 | 3456 | 2550 | 2440 | 52-φ56 | 52-M48 | | | | | | |
| 2400 | 1768 | 1748 | 425 | 610 | 2685 | 2600 | 56-φ42 | 56-M39 | 3941 | 2760 | 2650 | 56-φ56 | 56-M48 | | | | | | |
| 2600 | 1868 | 1847 | 565 | 610 | 2905 | 2810 | 60-φ48 | 60-M42 | 4280 | 2960 | 2850 | 60-φ56 | 60-M48 | | | | | | |
| 2800 | 1968 | 1946 | 565 | 610 | 3115 | 3020 | 64-φ48 | 64-M42 | 4479 | 3180 | 3070 | 64-φ56 | 64-M48 | | | | | | |
| 3000 | 2068 | 2048 | 565 | 610 | 3315 | 3220 | 68-φ48 | 68-M42 | 4681 | 3405 | 3290 | 68-φ62 | 68-M56 | | | | | | |

注：电动和气动部分尺寸根据所用电动装置的厂家的型号而改变。

CS型热力管道伸缩器 CS thermal pipeline expansion bend



安装注意事项:

1. 安装前松开压盘螺栓, 将伸缩器拉长至安装长度 (见上图), 然后对角法拧紧压盘螺栓, 切勿压偏;
2. 本伸缩器应安装在管道的直线段上两个固定支架之间, 为保证伸缩器正常伸缩并防止拉脱, 应设有导向支架及挡件

Cautions on installation:

1. Before installation, loosen the presser-plate bolts. Pull the expansion bend to the installation length (refer to the above drawing), and then fasten the presser-plate bolts with diagonal method and be sure not to compress them inclined to one side.
2. The expansion bend should be installed between two fixing brackets in the straight-line segment of the pipeline; to ensure that the expansion bend should expand and contract normally and to avoid being pulled off, the guide support and engaging element should be set up.

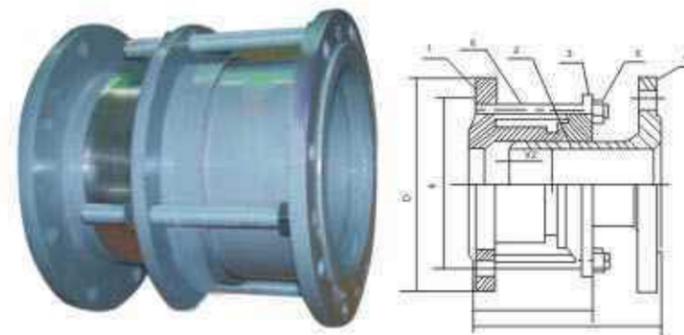
设计安装数据表

Design and installation datasheet

| 公称直径 DN nominal length | 补偿量 minimum length | 最小长度 min minimum length | 最大长度 max minimum length | 安装长度 L minimum length |
|---------------------------------|--------------------------|----------------------------------|----------------------------------|--------------------------------|
| 40 | 250 | 400 | 650 | 525 |
| 50 | 250 | 400 | 650 | 525 |
| 65 | 250 | 420 | 670 | 545 |
| 80 | 250 | 420 | 670 | 545 |
| 100 | 250 | 435 | 685 | 560 |
| 125 | 250 | 435 | 685 | 560 |
| 150 | 250 | 435 | 685 | 560 |
| 200 | 260 | 460 | 720 | 590 |
| 250 | 260 | 460 | 720 | 590 |
| 300 | 270 | 490 | 760 | 625 |
| 350 | 270 | 490 | 760 | 625 |
| 400 | 280 | 520 | 800 | 660 |
| 450 | 280 | 520 | 800 | 660 |
| 500 | 300 | 550 | 850 | 700 |
| 600 | 310 | 570 | 880 | 725 |
| 700 | 320 | 605 | 925 | 765 |
| 800 | 330 | 640 | 970 | 805 |
| 900 | 340 | 670 | 1010 | 840 |
| 1000 | 350 | 700 | 1050 | 875 |
| 1200 | 360 | 740 | 1100 | 920 |
| 1400 | 370 | 780 | 1150 | 965 |
| 1600 | 380 | 820 | 1200 | 1010 |

法兰式不限位伸缩节 Flange-type unlimited expansion bend

材料表



| 序号 Flange | 名称 Flange | 数量 Flange | 材料 Flange |
|--------------|------------------|--------------|--------------------|
| 1 | 本休 The Hugh | 1 | HT200 QT40-15 Q235 |
| 2 | 密封圈 The Hugh | 1 | 丁腈橡胶 The Hugh |
| 3 | 压盘 The Hugh | 1 | HT200 QT40-15 Q235 |
| 4 | 套管法兰 The Hugh | 1 | HT200 QT40-15 Q235 |
| 5 | 螺母 The Hugh | | 30#钢 30 # steel |
| 6 | 螺栓 The Hugh | | 30#钢 30 # steel |

产品性能及用途

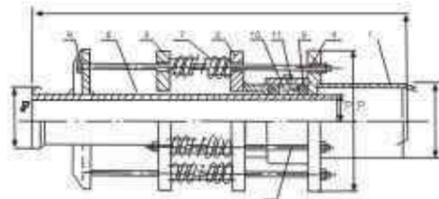
我公司生产的热力系列补偿器, 采用国家标准制造, 产品重量轻、补偿量大、结构简单、密封性极佳, 它能有效地补偿管道因热胀冷缩造成的管道位移和折裂。能和各种阀门配套使用, 使阀门装卸更便捷, 很好的增加了管线运行的安全可靠。

Product performance and use:

The heat series compensator produced by our company is manufactured in accordance with the national standard, with light weight, large compensation amount, simple structure, and excellent sealing quality; it can effectively compensate for the displacement and fracture of the pipeline caused by thermal expansion and cold contraction. It can be used together with various valves, facilitating the valve installation and removal and increasing the security and reliability of pipeline operation very well.

| DN (mm) | 法兰连接尺寸 flange connection size | | | 安装尺寸 Installation dimensions | | | | 重量 (公斤) The shortest length of the |
|------------|-------------------------------|------|-------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---|
| | D | φ | n-d | 最短长度 The shortest length of the | 安装长度 The shortest length of the | 最大长度 The shortest length of the | 伸缩量 The shortest length of the | |
| 50 | 165 | 125 | 4-18 | 170 | 200 | 230 | 60 | 9.8 |
| 65 | 185 | 145 | 4-18 | 170 | 200 | 230 | 60 | 12.1 |
| 80 | 200 | 160 | 8-18 | 170 | 200 | 230 | 60 | 14.23 |
| 100 | 220 | 180 | 8-18 | 225 | 260 | 295 | 70 | 19.55 |
| 120 | 250 | 210 | 8-18 | 225 | 260 | 295 | 70 | 23 |
| 150 | 285 | 240 | 8-22 | 225 | 260 | 295 | 70 | 30.55 |
| 200 | 340 | 295 | 8-22 | 225 | 260 | 295 | 70 | 40.7 |
| 250 | 395 | 350 | 12-22 | 225 | 260 | 295 | 70 | 53.5 |
| 300 | 445 | 400 | 12-22 | 280 | 330 | 380 | 100 | 75.6 |
| 350 | 505 | 460 | 16-22 | 280 | 330 | 380 | 100 | 91 |
| 400 | 565 | 515 | 16-26 | 280 | 330 | 380 | 100 | 112 |
| 450 | 615 | 565 | 20-26 | 280 | 330 | 380 | 100 | 127 |
| 500 | 670 | 620 | 20-26 | 300 | 360 | 420 | 120 | 147 |
| 600 | 780 | 725 | 20-30 | 300 | 360 | 420 | 120 | 235 |
| 700 | 895 | 840 | 24-30 | 300 | 360 | 420 | 120 | 269 |
| 800 | 1015 | 950 | 24-33 | 300 | 360 | 420 | 120 | 326 |
| 900 | 1115 | 1050 | 28-33 | 335 | 400 | 465 | 130 | 394 |
| 1000 | 1230 | 1160 | 28-33 | 335 | 400 | 465 | 130 | 451 |
| 1200 | 1455 | 1380 | 32-39 | 335 | 400 | 465 | 130 | 648 |
| 1400 | 1675 | 1590 | 36-42 | 345 | 420 | 495 | 150 | 869 |
| 1600 | 1915 | 1820 | 40-48 | 345 | 420 | 495 | 150 | 1175 |
| 1800 | 2115 | 2020 | 44-48 | 360 | 440 | 520 | 160 | 1406 |
| 2000 | 2325 | 2230 | 48-48 | 360 | 440 | 520 | 160 | 1649 |

TTB-B系列弹性套管式补偿器 TTB-B series elastic sleeve-type compensator

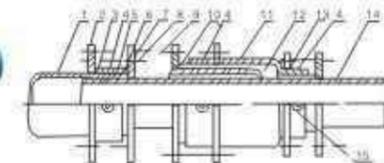


产品数据: Product data

| 公称直径 D ₁ Maximum Length | 芯管内径 D Maximum Length | 外壳外径 D1 Maximum Length | 芯管外径 D2 Maximum Length | 法兰外径 D3 Maximum Length | 填料长度 B Maximum Length | 补偿量ΔL max Maximum Length | 安装长度 max Maximum Length |
|--|-----------------------------|------------------------------|------------------------------|------------------------------|-----------------------------|--------------------------------|-------------------------------|
| 15 | 14 | 32 | 18 | 95 | 36 | 150 | 665 |
| 20 | 18 | 38 | 23 | 105 | 36 | 150 | 665 |
| 25 | 24 | 45 | 30 | 115 | 36 | 150 | 665 |
| 32 | 30 | 50 | 36 | 120 | 36 | 150 | 665 |
| (36) | 33 | 54 | 43 | 125 | 36 | 200 | 765 |
| 40 | 41 | 60 | 48 | 130 | 36 | 200 | 765 |
| 50 | 47 | 73 | 55 | 160 | 56 | 200 | 785 |
| 65 | 63 | 83 | 71 | 180 | 56 | 200 | 785 |
| (70) | 65 | 89 | 74 | 190 | 56 | 200 | 785 |
| 80 | 78 | 102 | 87 | 195 | 56 | 200 | 785 |
| 100 | 96 | 121 | 106 | 215 | 56 | 250 | 915 |
| 125 | 118 | 146 | 131 | 245 | 56 | 250 | 915 |
| 150 | 143 | 176 | 157 | 280 | 56 | 250 | 915 |
| (175) | 176 | 219 | 192 | 355 | 70 | 300 | 940 |
| 200 | 201 | 245 | 217 | 335 | 70 | 300 | 1040 |
| (225) | 225 | 264 | 243 | 390 | 70 | 350 | 1055 |
| 250 | 253 | 291 | 270 | 390 | 70 | 350 | 1155 |
| 300 | 303 | 346 | 322 | 440 | 91 | 400 | 1175 |
| 350 | 353 | 400 | 373 | 500 | 91 | 400 | 1315 |
| 400 | 404 | 454 | 424 | 565 | 91 | 400 | 1315 |
| 450 | 458 | 506 | 478 | 615 | 91 | 450 | 1320 |
| 500 | 508 | 556 | 528 | 670 | 91 | 450 | 1420 |
| 600 | 606 | 664 | 628 | 780 | 91 | 450 | 1435 |
| 700 | 698 | 754 | 720 | 880 | 91 | 450 | 1440 |
| 800 | 796 | 858 | 820 | 995 | 112 | 500 | 1570 |
| 900 | 896 | 958 | 920 | 1095 | 112 | 500 | 1570 |
| 1000 | 994 | 1058 | 1020 | 1195 | 112 | 500 | 1570 |
| 1100 | 1096 | 1168 | 1124 | 1295 | 112 | 500 | 1580 |
| 1200 | 1196 | 1268 | 1224 | 1395 | 112 | 500 | 1610 |
| 1300 | 1294 | 1368 | 1324 | 1495 | 112 | 500 | 1610 |
| 1400 | 1394 | 1468 | 1424 | 1595 | 112 | 500 | 1610 |
| 1600 | 1590 | 1670 | 1624 | 1795 | 112 | 500 | 1620 |
| (1700) | 1690 | 1770 | 1724 | 1895 | 112 | 500 | 1620 |
| 1800 | 1786 | 1874 | 1824 | 1995 | 112 | 500 | 1640 |
| 2000 | 1986 | 2078 | 2024 | 2195 | 112 | 500 | 1640 |

注: 当工作压力不是1.6Mpa时, 其摩擦力 $F_f = \frac{PC}{1.6} \times P_{1.6}$ Note: when the operating pressure is not 1.6Mpa, its friction $F_f = \frac{PC}{1.6} \times P_{1.6}$

TWB系列、ZTWB系列 注油式直流介质无推力套筒补偿器 TWB series and ZTWB series oiling DC medium zero-thrust sleeve compensator



1. 后套管体 2. 固定法兰 3. 定型石墨填料 4. 注油池
5. 填料室 6. 填料压紧圈 7. 压盖法兰 8. 压盖螺栓
9. 连接螺栓 10. 汽室填料室 11. 汽室体 12. 汽室小填料室 14. 伸缩管 15. 注油孔

1. rear sleeve body 2. mounting flange 3. Typing graphite packing 4. oiling pool 5. packing room 6. packing clamp ring 7. gland flange 8. gland screw 9. connection screw 10. packing room of steam chamber 11. steam chamber body 12. steam chamber room of steam chamber 14. expansion pipe 15. oiling hole

工作原理

该设计结构上巧妙的利用一个密环形汽室, 这个汽室内分别有两个环形受压面, 一个是固定的汽室内端面, 另一个是密闭在汽室内的伸缩管肩部环形面, 随伸缩管是可移动的。这个可移动的环形受压面的面积恰好和伸缩管横截面积相等, 当补偿器工作时, 在介质压力的作用下, 环形面上的压力和伸缩管横截面积的压力是相等, 而方向相反, 因此两压力相互抵消。这样一来, 在设计支架中仅考虑补偿器压紧填料的摩擦力, 对固定支架的推力计算中, 就不再计算由工作介质压力, 而引起的对固定支架的推力。因此固定支架属减载式支架, 可节省大量支架材料, 也节省人力和财力。

Operation principle:

The design cleverly uses an enclosed circular steam room in structure; inside the steam room, there are two circular compression surfaces (one is the fixed end face inside the steam room, and the other is the shoulder circular face of expansion pipe enclosed in the steam room), which are movable with the expansion pipe. The area of the movable circular compression face is just equal to the cross-sectional area of the expansion pipe; when the compensator is in operation, under the medium pressure, the pressures on the circular face and on the cross section of the expansion pipe are equal in force but opposite in direction, and thus the two pressures cancel out each other. As a result, in the design of brackets, it is only necessary to consider the friction of compressing the packing by the compensator, in the thrust calculation of fixing brackets, the thrust on the fixing brackets, caused by the pressure of working medium, should no longer be calculated. Therefore, the fixation brackets belong to the load-shedding brackets, which can save a lot of bracket materials, as well as the human and financial resources.

| 公称口径 DN(mm) Nominal diameter | 补偿量 ΔMax(mm) The amount of compensation | 外形尺寸 Size and shape | | |
|------------------------------------|---|---------------------------------|--|---|
| | | 管外径D (mm) Tube diameter D | 最大直径DMax (mm) The maximum diameter | 安装长度LMax (mm) The installation length |
| 25 | 150 | 32 | 116 | 1190 |
| 30 | 150 | 38 | 124 | 1190 |
| 40 | 150 | 45 | 136 | 1190 |
| 50 | 200 | 57 | 150 | 1400 |
| 65 | 200 | 73 | 172 | 1400 |
| 70 | 200 | 76 | 178 | 1400 |
| 80 | 200 | 89 | 194 | 1400 |
| 100 | 250 | 108 | 240 | 1640 |
| 125 | 250 | 133 | 274 | 1640 |
| 150 | 250 | 159 | 310 | 1640 |
| 200 | 250 | 219 | 390 | 1640 |
| 250 | 300 | 273 | 466 | 1910 |
| 300 | 300 | 325 | 556 | 1910 |
| 350 | 300 | 377 | 628 | 1910 |
| 400 | 350 | 426 | 708 | 2230 |
| 500 | 400 | 529 | 856 | 2400 |
| 600 | 400 | 630 | 994 | 2400 |
| 700 | 400 | 720 | 1130 | 2400 |
| 800 | 450 | 820 | 1268 | 2650 |
| 900 | 450 | 920 | 1406 | 2650 |
| 1000 | 450 | 1020 | 1552 | 2650 |

Installation requirements:

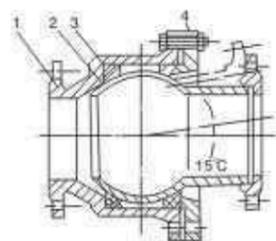
- (1) When the thickness of pipe wall welded with the two ends of the compensator is not less than 6mm, the beveled edge must be processed; after welding, the water pressure leakage inspection should be conducted according to the requirements.
- (2) The sliding brackets and fixation brackets should be installed according to the design; the use of ZTWB type has no difference except that the thrust caused by the pressure of working medium should not be calculated. To ensure that the pipeline makes no lateral displacement but the axial displacement, guiding slide bracket should be generally installed at both ends of the compensator, and fixation bracket should be installed at the pipeline corner.
- (3) The heat insulation protective structure of the compensator goes the same way as the pipeline, and no binding force should be generated at the telescopic part of expansion pipe. (4) The compensator can be installed with the maximum installation length LM3x under a variety of environmental temperatures, unnecessary to make expansion or contraction.

安装要求

- (1) 与补偿器两端相焊接的管段壁厚 $\geq 6\text{mm}$ 时, 必须进行坡口处理, 焊后按要求进行水压检测试验
- (2) 滑动支架和固定支架根据设计安装, 使用 ZTWB 型, 除不计算介质工作压力的推力外, 其余相同。为确保管道无侧向位移, 而沿轴向伸缩, 补偿器两端一般应安装导向滑动支架, 在管道转弯处, 必须安装固定支架,
- (3) 补偿器的保温防护结构均与管道同路, 但对伸缩管伸缩部分, 不可产生约束力,
- (4) 本补偿器在各种环境气温下, 均可按最大安装长度 LM3x 进行安装, 不需予以拉伸或压缩。

E型球型补偿接头

E-type flange ball-joint



| 序号 No. | 名称 Name | 数量 Quantity | 材料 Material |
|--------|------------------|-------------|-------------------------------|
| 1 | 球型管 Ball-tube | 1 | ZG230-450, Q235A 20, QT400-15 |
| 2 | 压盖 Gland | 1 | ZG230-450, Q235A 20, QT400-15 |
| 3 | 螺栓 Bolt | N | Q235A, 35 1Cr18Ni9Ti |
| 4 | 螺母 Nut | N | Q235A, 20 1Cr18Ni9Ti |
| 5 | 密封圈 Sealing ring | Z | NBR |
| 6 | 本体 Ontology | 1 | ZG230-450, Q235A 20, QT400-15 |

性能特点

球形补偿接头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。

Performance features:

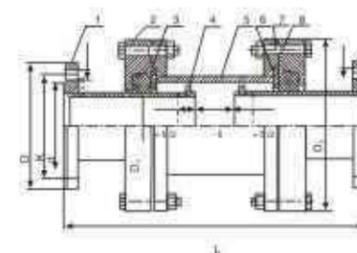
The spherical compensation joints are mainly applied to piping connection with large land subsidence, large vibration and complex terrain; after installed in the pip, the sphere can turn freely within the angle θ centering on the rotation center, so as to compensate for the piping deflection due to foundation settlement, thermal expansion and cold contraction. It has the following excellent features: large compensation amount, small volume, small fluid resistance, easy installation, low comprehensive cost, etc.

球形补偿接头的基本尺寸 Spherical joints compensate for the basic dimensions

| 公称尺寸 Nominal Size DN | Do | L | θ | 法兰连接尺寸 flange connection size | | | | | | | | |
|----------------------------|------|------|------|-------------------------------|--------|--------|--------|--------|--------|--------|------|--------|
| | | | | 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-φ18 | 220 | 180 | 8-φ18 | 220 | 180 | 8-φ19 |
| 150 | 346 | 320 | | 265 | 225 | 8-φ18 | 285 | 240 | 8-φ22 | 285 | 240 | 8-φ23 |
| 200 | 410 | 382 | | 320 | 280 | 8-φ18 | 340 | 295 | 8-φ22 | 340 | 295 | 12-φ23 |
| 250 | 464 | 410 | | 375 | 335 | 12-φ18 | 395 | 350 | 12-φ22 | 405 | 355 | 12-φ27 |
| 300 | 535 | 430 | | 440 | 395 | 12-φ22 | 445 | 400 | 12-φ22 | 460 | 410 | 12-φ27 |
| 350 | 607 | 470 | | 490 | 445 | 12-φ22 | 505 | 460 | 16-φ22 | 520 | 470 | 16-φ27 |
| 400 | 688 | 550 | | 540 | 495 | 16-φ22 | 565 | 515 | 16-φ26 | 580 | 525 | 16-φ30 |
| 450 | 728 | 600 | | 595 | 550 | 16-φ22 | 615 | 565 | 20-φ26 | 640 | 585 | 20-φ30 |
| 500 | 798 | 689 | | 645 | 600 | 20-φ22 | 670 | 620 | 20-φ26 | 715 | 650 | 20-φ34 |
| 600 | 918 | 725 | | 755 | 705 | 20-φ26 | 780 | 725 | 20-φ30 | 840 | 770 | 20-φ37 |
| 700 | 1056 | 800 | | 860 | 810 | 24-φ26 | 895 | 840 | 24-φ30 | 910 | 840 | 24-φ37 |
| 800 | 1160 | 893 | | 975 | 920 | 24-φ30 | 1015 | 960 | 24-φ33 | 1025 | 950 | 24-φ40 |
| 900 | 1310 | 920 | | 1075 | 1020 | 24-φ30 | 1115 | 1050 | 28-φ33 | 1125 | 1050 | 28-φ40 |
| 1000 | 1433 | 975 | | 1175 | 1120 | 28-φ30 | 1230 | 1160 | 28-φ36 | 1255 | 1170 | 28-φ43 |
| 1200 | 1693 | 1125 | | 1405 | 1340 | 32-φ33 | 1455 | 1380 | 32-φ39 | 1485 | 1390 | 32-φ48 |
| 1400 | 1942 | 1290 | 1630 | 1560 | 36-φ36 | 1675 | 1590 | 36-φ42 | | | | |
| 1600 | 2164 | 1385 | 1830 | 1760 | 40-φ36 | 1915 | 1820 | 40-φ48 | | | | |
| 1800 | 2400 | 1580 | 2045 | 1970 | 44-φ39 | 2115 | 2020 | 44-φ48 | | | | |
| 2000 | 2730 | 1870 | 2265 | 2180 | 48-φ42 | 2325 | 2230 | 48-φ48 | | | | |
| 2200 | 2910 | 1950 | 2475 | 2390 | 52-φ42 | 2550 | 2440 | 52-φ56 | | | | |
| 2400 | 3135 | 2080 | 2685 | 2600 | 56-φ42 | 2760 | 2650 | 56-φ56 | | | | |

D型大挠度松套补偿接头

D-type connector compensation for large deflection of loose sets



性能特点

大挠度松套补偿接头是在吸收国外先进的技术并结合我国实情基础上研究开发的一种新型管道连接器。其主要结构有短管法兰、压盖、滑动管和密封装置等组成。它采用独特的抗轴力设计，结构简单、密封性能可靠、抗拉脱力强。具有较大的可挠量和伸缩量，适用于工况恶劣，地形复杂场合的管道。

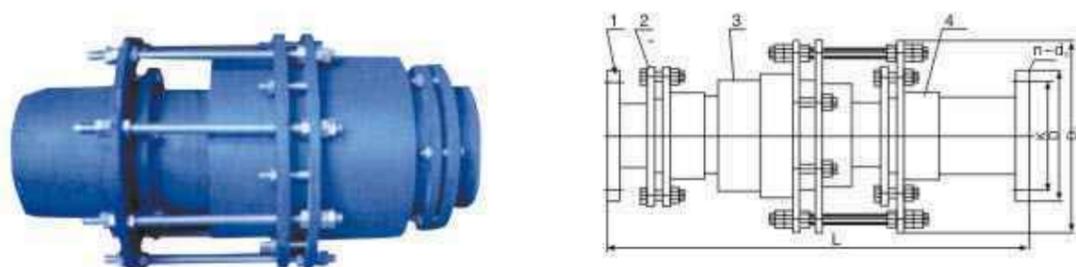
Performance features:

The large-deflection sleeve compensation joint is new type of pipe connector developed through absorbing foreign advanced technology and on the basis of combining the actual national situation. Its main structure includes short-tube flange, gland, slide tube, sealing device and so on. It uses the unique anti-axial force design, with simple structure, reliable sealing performance, and strong tensile strength. With relatively large flexible capacity and telescopic capacity, it is applicable to the pipelines in areas with harsh working conditions and complex terrain.

| 序号 No. | 名称 Name | 数量 Quantity | 材料 Material |
|--------|------------------------|-------------|-----------------------------------|
| 1 | 短管法兰 Short-tube flange | 2 | Q235, 20, 不锈钢 Q235, 20, Stainless |
| 2 | 压盖 Gland | 2 | Q235, 20, 不锈钢 Q235, 20, Stainless |
| 3 | 密封圈 Ring | 2 | NBR, FPM, NBR NBR, FPM, NBR |
| 4 | 限位块 Limit block | 2 | Q235, 20 Q235, 20 |
| 5 | 本体 Ontology | 1 | Q235, 20, 不锈钢 Q235, 20, Stainless |
| 6 | 挡圈 Circlip | 2 | Q235, 20 Q235, 20 |
| 7 | 螺栓 Bolt | 1 | Q235, 35, 不锈钢 Q235, 35, Stainless |
| 8 | 密封条 Seal | 2 | NBR, FPM, NBR NBR, FPM, NBR |

| 公称尺寸 Nominal Size DN | 可挠量 Flexible capacity | 伸缩量 mm compensation length | L | Do | 法兰连接尺寸 flange connection size | | | | | | | | |
|----------------------------|--------------------------|----------------------------------|------|------|-------------------------------|------|--------|--------|------|--------|--------|------|--------|
| | | | | | 0.6Mpa | | | 1.0Mpa | | | 1.6Mpa | | |
| | | | | | D | K | n-do | D | K | n-do | D | K | N-do |
| 100 | 7 | ±60 | 520 | 305 | 210 | 170 | 4-φ18 | 220 | 180 | 8-φ18 | 220 | 180 | 8-φ19 |
| 200 | | | 560 | 415 | 320 | 280 | 8-φ18 | 340 | 295 | 8-φ23 | 340 | 295 | 12-φ23 |
| 300 | | | 605 | 530 | 440 | 395 | 12-φ23 | 445 | 400 | 12-φ23 | 460 | 410 | 12-φ27 |
| 400 | | | 660 | 645 | 540 | 495 | 16-φ23 | 565 | 515 | 16-φ27 | 580 | 525 | 16-φ30 |
| 500 | | | 670 | 750 | 645 | 600 | 20-φ23 | 670 | 620 | 20-φ27 | 715 | 650 | 20-φ33 |
| 600 | | | 720 | 870 | 755 | 705 | 20-φ27 | 780 | 725 | 20-φ30 | 840 | 770 | 20-φ36 |
| 700 | 6.5 | ±65 | 750 | 960 | 860 | 810 | 24-φ27 | 895 | 840 | 24-φ30 | 910 | 840 | 24-φ36 |
| 800 | | | 810 | 1085 | 975 | 920 | 24-φ30 | 1015 | 950 | 24-φ33 | 1025 | 950 | 24-φ39 |
| 900 | | | 855 | 1185 | 1075 | 1020 | 24-φ30 | 1115 | 1050 | 28-φ33 | 1125 | 1050 | 28-φ39 |
| 1000 | | | 950 | 1305 | 1175 | 1120 | 28-φ30 | 1230 | 1160 | 28-φ36 | 1255 | 1170 | 28-φ42 |
| 1200 | | | 1000 | 1505 | 1405 | 1340 | 32-φ33 | 1455 | 1380 | 32-φ39 | 1485 | 1390 | 32-φ48 |
| 1400 | | | 1050 | 1715 | 1630 | 1560 | 36-φ36 | 1675 | 1590 | 36-φ42 | 1685 | 1590 | 36-φ48 |
| 1600 | | | 1140 | 1930 | 1830 | 1760 | 40-φ36 | 1915 | 1820 | 40-φ48 | 1930 | 1820 | 40-φ56 |
| 1800 | | | 1200 | 2150 | 2045 | 1970 | 44-φ40 | 2115 | 2020 | 44-φ48 | 2130 | 2020 | 44-φ56 |
| 2000 | | | 1250 | 2370 | 2265 | 2180 | 48-φ42 | 2325 | 2230 | 48-φ48 | 2345 | 2230 | 48-φ62 |
| 2200 | | | 1300 | 2570 | 2475 | 2390 | 52-φ42 | 2550 | 2440 | 52-φ56 | - | - | - |
| 2400 | | | 1420 | 2820 | 2685 | 2600 | 56-φ42 | 2760 | 2650 | 56-φ56 | - | - | - |
| 2600 | | | 1450 | 3020 | 2905 | 2810 | 60-φ48 | 2960 | 2850 | 60-φ56 | - | - | - |
| 2800 | 1500 | 3230 | 3115 | 3020 | 64-φ48 | 3180 | 3070 | 64-φ56 | - | - | - | | |
| 3000 | 1600 | 3440 | 3315 | 3220 | 68-φ48 | 3405 | 3290 | 68-φ62 | - | - | - | | |
| 3200 | 1780 | 3685 | 3525 | 3430 | 72-φ48 | - | - | - | - | - | - | | |

F型压力平衡型补偿接头 F-type connector pressure balanced compensation



性能特点

普通补偿接头为承插式的，轴向伸缩接头本身无法承受介质内压产生的盲板力，所以必须考虑管路的固定，即支架。除了必要的固家静与支撑外，支架主要承受的是热胀冷缩和介质内部压力所产生的推力，特别是管路拐弯及三通、四通的位置，支架的造价非常高。为了降低支架造价又能满足使用要求，主要用于在吸收轴向位移的同时能平衡内压推力的补偿接头。

Performance features:

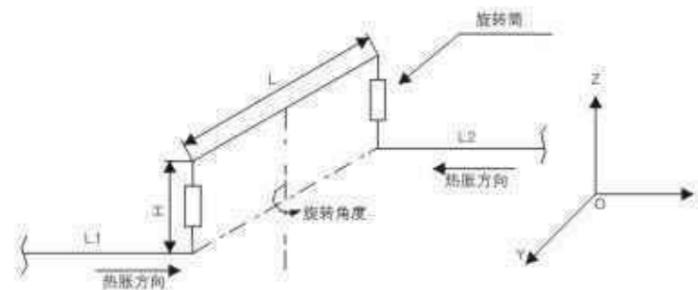
The general compensation joints are in spigot and socket form; the axial expansion joints themselves can not bear blind force generated by internal pressure of the medium, so the pipeline fixation, namely the bracket, must be taken into account. In addition to the necessary solid sitence and support, the bracket mainly withtands the thrust generated by the expansion and contraction and the internal pressure of the medium; the cost of brackets are very high, especially in the position of piping bend, T-joint and cross joint. In order to reduce the bracket costs and to meet the application requirements, the compensation joints, which can absorb axial displacement and meanwhile balance the thrust of internal pressure, are mainly used.

| 公称尺寸 DN Nominal Size | 外形尺寸 external dimension | | 伸缩量 S | 法兰连接尺寸 flange connection size | | | | | | | | |
|-------------------------------|----------------------------|------|----------|-------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | 0.6Mpa | | | 1.0Mpa | | | 1.6Mpa | | |
| | Do | L | | D | K | n-do | D | K | N-do | D | K | N-do |
| 100 | 350 | 1050 | ±70 | 210 | 170 | 4-φ18 | 220 | 180 | 8-φ18 | 220 | 180 | 8-φ18 |
| 150 | 400 | | | 285 | 225 | 8-φ18 | 285 | 240 | 8-φ23 | 285 | 240 | 8-φ23 |
| 200 | 475 | 320 | | 280 | 340 | | 295 | 340 | | 295 | 12-φ23 | |
| 250 | 540 | 1200 | | 375 | 335 | 12-φ18 | 395 | 350 | 12-φ23 | 405 | 355 | 12-φ27 |
| 300 | 620 | | | 440 | 395 | 12-φ23 | 445 | 400 | | 460 | 410 | |
| 350 | 680 | 1400 | | 490 | 445 | 12-φ23 | 505 | 460 | 16-φ23 | 520 | 470 | 16-φ27 |
| 400 | 770 | | | 540 | 495 | 16-φ23 | 565 | 515 | 16-φ27 | 580 | 525 | 16-φ30 |
| 450 | 860 | 1500 | | 595 | 550 | 16-φ23 | 615 | 565 | 20-φ27 | 640 | 585 | 20-φ30 |
| 500 | 920 | | | 645 | 600 | 20-φ23 | 670 | 620 | 20-φ27 | 715 | 650 | 20-φ33 |
| 600 | 1050 | 1550 | | 755 | 705 | 20-φ27 | 780 | 725 | 20-φ30 | 840 | 770 | 20-φ36 |
| 700 | 1200 | | 860 | 810 | 24-φ27 | 895 | 840 | 24-φ30 | 910 | 840 | 24-φ36 | |
| 800 | 1360 | 1800 | 975 | 920 | 24-φ30 | 1015 | 950 | 24-φ33 | 1025 | 950 | 24-φ39 | |
| 900 | 1520 | | 1075 | 1020 | 24-φ30 | 1115 | 1050 | 28-φ33 | 1125 | 1050 | 28-φ39 | |
| 1000 | 1640 | 2000 | 1175 | 1120 | 28-φ30 | 1230 | 1160 | 28-φ36 | 1255 | 1170 | 28-φ42 | |
| 1200 | 1950 | | 1405 | 1340 | 32-φ30 | 1455 | 1380 | 32-φ37 | 1485 | 1390 | 32-φ48 | |

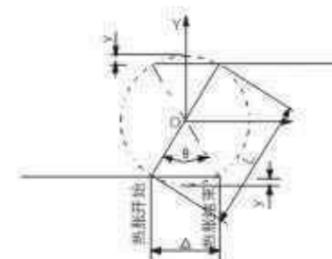
YTXZ型无推力旋转式补偿器 YTXZ type no thrust rotary compensator

YTXZ型系列旋转式补偿器的特点

1. 补偿量大, 一组旋转补偿器补偿能力可达1800mm;
2. 没有节制压力产生的内压推力, 因而补偿器两段的固定支架可以做的较小;
3. 采用双重密封结构, 密封填料优越, 长期长期运行不需要维护, 工作性能可靠;
4. 耐压强度高, 安全性能好, 最高压力可达10MPa, 最高温度540°C;
5. 安装方便, 热量损失小, 性价比高;
6. 本补偿器有两种基本组合, 数十种变化。



图一 YTXZ型组合补偿器立体图 (平行布置)



图二 YTXZ型组合补偿器平面图

YTXZ型系列旋转补偿器的补偿原理, 是通过成双旋转筒和L力臂形成力偶, 使大小相等、方向相反的一对力, 由力臂回绕着Z轴中心旋转, 以达到力偶两边热管道产生的热胀量的吸收。

当在吸收热膨胀量时, 在力偶臂旋转到θ出现热管道发生最大的摆动y值, 因此补偿器第一只导向支架的距离要加大。

虽然吸收热胀随着转角θ或力偶臂L的加大而增加, 但为了限止y摆动过大, 对θ值不超过表三的推荐值, L值在条件许可的情况下尽量选择大一些, 一般在2-6米范围内为宜。

| 序号 NO. Serial number | 公称直径 (DN) Nominal diameter | 接口尺寸 (D) Interface size | 最大外形尺寸 (D1) The biggest size | 产品长度 (L) Product length |
|-------------------------|-------------------------------|----------------------------|---------------------------------|----------------------------|
| 1 | 50 | 57 | 142 | 225 |
| 2 | 80 | 89 | 190 | 250 |
| 3 | 100 | 108 | 220 | 260 |
| 4 | 125 | 133 | 240 | 280 |
| 5 | 150 | 159 | 275 | 280 |
| 6 | 200 | 219 | 335 | 300 |
| 7 | 250 | 273 | 395 | 300 |
| 8 | 300 | 325 | 450 | 350 |
| 9 | 350 | 377 | 510 | 350 |
| 10 | 400 | 426 | 560 | 350 |
| 11 | 450 | 480 | 610 | 380 |
| 12 | 500 | 530 | 670 | 380 |
| 13 | 600 | 630 | 760 | 400 |

<本公司旋转补偿器已生产至DN1800以上, DN650以上此表未列出>

TD单项热力套筒补偿器 TD single thermal sleeve compensator



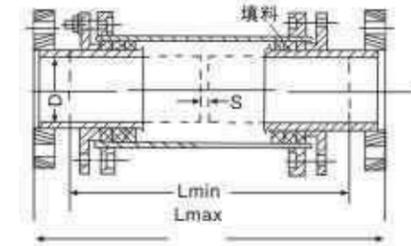
单项套筒式补偿器结构尺寸及补偿量
Structural dimensions and compensation amount of single sleeve-type compensator

| 公称口径 DN (mm) Nominal diameter | D1 | D1 | D2 | D3 | 补偿量(mm) The amount of compensation | 最小长度(mm) The minimum length | 最大长度(mm) The maximum length | 安装长度(mm) The installation length |
|---|-----|-----|-----|-----|--|-----------------------------------|-----------------------------------|--|
| | mm | | | | | | | |
| 100 | 108 | 100 | 133 | 190 | 150 | 380 | 530 | 460 |
| 125 | 133 | 125 | 159 | 251 | 150 | 380 | 530 | 460 |
| 150 | 159 | 150 | 194 | 250 | 150 | 380 | 530 | 460 |
| 200 | 219 | 205 | 273 | 345 | 150 | 380 | 530 | 460 |
| 250 | 273 | 259 | 325 | 395 | 150 | 380 | 530 | 460 |
| 300 | 325 | 311 | 377 | 450 | 200 | 460 | 660 | 560 |
| 350 | 377 | 363 | 426 | 500 | 200 | 460 | 660 | 560 |
| 400 | 426 | 421 | 478 | 560 | 200 | 460 | 660 | 560 |
| 450 | 478 | 464 | 529 | 610 | 200 | 460 | 660 | 560 |
| 500 | 529 | 515 | 594 | 675 | 250 | 520 | 770 | 640 |
| 600 | 630 | 614 | 704 | 780 | 250 | 520 | 770 | 640 |
| 700 | 720 | 704 | 794 | 875 | 250 | 520 | 770 | 640 |

单项热力套筒补偿器数据表 Single thermal sleeve compensator Data Sheet

| 公称口径(DN) Nominal diameter (DN) | 补偿量(mm) The amount of compensation | 最小长度(mm) The minimum length | 最大长度(mm) The maximum length | 安装长度(mm) The installation length |
|-----------------------------------|---------------------------------------|--------------------------------|--------------------------------|-------------------------------------|
| 40 | 120 | 350 | 470 | 410 |
| 50 | 120 | 350 | 470 | 410 |
| 65 | 120 | 350 | 470 | 410 |
| 80 | 120 | 350 | 470 | 410 |
| 100 | 150 | 380 | 530 | 460 |
| 125 | 150 | 380 | 530 | 460 |
| 150 | 150 | 380 | 530 | 460 |
| 200 | 150 | 380 | 530 | 460 |
| 250 | 150 | 380 | 530 | 460 |
| 300 | 200 | 460 | 660 | 560 |
| 350 | 200 | 460 | 660 | 560 |
| 400 | 200 | 460 | 660 | 560 |
| 450 | 200 | 460 | 660 | 560 |
| 500 | 250 | 520 | 770 | 640 |
| 600 | 250 | 520 | 770 | 640 |
| 700 | 250 | 520 | 770 | 640 |
| 800 | 300 | 600 | 900 | 750 |

TS双项热力套筒补偿器 TS double thermal sleeve compensator



套筒式补偿器安装时应注意:

- (1) 安装前要检查填料是否填满, 如不满时应补添, 压紧。
- (2) 如发现套管有锈蚀或拉伸不动现象时, 应将套管拆开清洗后再组装, 填料如已硬化应进行更换。
- (3) 安装时先将套管抽出, 抽出长度应按设计的伸缩数字预拉伸。拉伸后要详细核对间隙S(见表和图)的有效尺寸, 这项检查每个套筒式补偿器都要进行, 以免发生故障。
- (4) 套筒式补偿器应安装在固定支架附近, 将套管外壳一端朝向管道的固定支架, 伸缩套管一端与产生热胀缩的管子相连, 为保证管子与补偿器同心, 补偿器的伸缩端方向必须设1-2个导向支架。
- (5) 填料函应用机油浸过的渗有石墨粉的石棉绳填塞, 石棉绳应逐圈装人, 逐圈压紧, 各环的接口应相互错开, 石棉绳的粗细应不于小填料函的间隙。

Note the following items when installing the sleeve-type compensator:

- (1) Before installation, check whether the packing is filled up; if not, add the packing and compress it.
- (2) If the sleeve is found to have rust or hard to stretch, assemble it again after dismantling and cleaning it; if the packing has hardened, it should be replaced.
- (3) When installing, firstly draw out the sleeve, and the extracted length should be pre-stretched according to the designed expansion figure. After the stretching, check carefully the effective size of the clearance S (refer to the table and drawing); the inspection should be carried out for every sleeve-type compensator in order to avoid failure.
- (4) The sleeve-type compensator should be installed near the fixation bracket; make one end of the sleeve shell towards the fixation bracket of pipeline, and connect one end of expansion sleeve with the pipe producing thermal expansion and contraction; to ensure the pipe is concentric with the compensator, 1-2 guiding bracket(s) should be set up in the direction of telescopic end of the compensator.
- (5) The packing box should be stuffed with asbestos cord permeated with graphite powder which has been impregnated with engine oil; the asbestos cord should be stuffed and compressed from coil to coil; the interface of each ring should be staggered mutually, and the thickness of asbestos cord should not be less than the gap of small packing box.

双项套筒补偿器数据表 Datasheet of double sleeve compensator

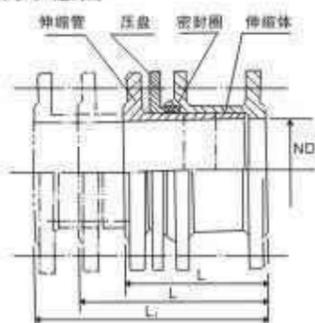
| 公称口径(DN) Nominal diameter | 补偿量(mm) The amount of compensation | 最小长度(mm) The minimum length | 最大长度(mm) The maximum length | 安装长度(mm) The installation length |
|------------------------------|---------------------------------------|--------------------------------|--------------------------------|-------------------------------------|
| 40 | 150 | 350 | 500 | 425 |
| 50 | 150 | 350 | 500 | 425 |
| 65 | 150 | 350 | 500 | 425 |
| 80 | 150 | 350 | 500 | 425 |
| 100 | 200 | 400 | 600 | 500 |
| 125 | 200 | 400 | 600 | 500 |
| 150 | 200 | 400 | 600 | 500 |
| 200 | 200 | 400 | 600 | 500 |
| 250 | 250 | 450 | 600 | 460 |
| 300 | 250 | 450 | 660 | 560 |
| 350 | 250 | 450 | 660 | 560 |
| 400 | 250 | 450 | 660 | 560 |
| 450 | 250 | 480 | 660 | 560 |
| 500 | 250 | 480 | 770 | 640 |
| 600 | 300 | 600 | 770 | 640 |
| 700 | 300 | 600 | 770 | 640 |
| 800 | 300 | 600 | 900 | 750 |

SSQ型套管式伸缩器 SSQ type sleeve type telescopic device

SSQ-1型限位伸缩器



结构示意图



SSQ-2型限位伸缩器 SSQ-3型限位伸缩器



说明:

- 1、改系列产品为各种给排水管道、水塔、水泵、水表、阀门的安装拆换提供了极大方便，给长距离管路因温差引起的伸缩起到了很好的调节作用。
- 2、安装前须松开压盘螺栓，将该器拉至安装长度，然后用对角法拧紧，切勿压扁，如架空使用两端须安装相应的固定支架。

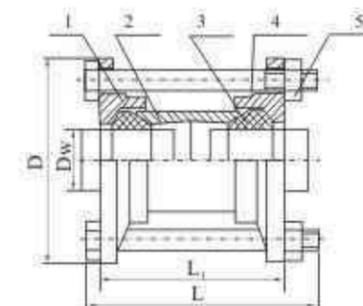
Explain.

For it provides great convenience to open 1. modified products plumbing, water tower, water pump, for a variety of water meter, valve installation, for long distance pipeline expansion caused by temperature difference plays a good regulation.
2. before installation shall release the pressure plate bolt, the drawing device to the installation length, and then use the diagonal tightening, not compressed, such as overhead using both ends must be fixed bracket corresponding.

安装数据表

| 公称直径DN Nominal diameter of DN | 最小长度L ₁ The minimum length of L ₁ | 安装长度L ₂ Installation of length L ₂ | 最大长度L ₃ The maximum length of L ₃ | 伸缩量 Expansion amount |
|-------------------------------------|---|--|---|----------------------------|
| 40 | 140 | 170 | 200 | 40 |
| 50 | 160 | 190 | 225 | 40 |
| 65 | 170 | 205 | 240 | 50 |
| 80 | 170 | 205 | 240 | 60 |
| 100 | 180 | 220 | 255 | 70 |
| 125 | 180 | 220 | 255 | 70 |
| 150 | 200 | 240 | 275 | 80 |
| 200 | 210 | 250 | 285 | 80 |
| 250 | 220 | 265 | 310 | 80 |
| 300 | 220 | 265 | 310 | 90 |
| 350 | 240 | 290 | 335 | 90 |
| 400 | 250 | 300 | 350 | 90 |
| 450 | 260 | 315 | 370 | 90 |
| 500 | 270 | 330 | 385 | 90 |
| 600 | 290 | 350 | 410 | 100 |
| 700 | 300 | 360 | 420 | 100 |
| 800 | 320 | 385 | 450 | 100 |
| 900 | 350 | 415 | 480 | 100 |
| 1000 | 350 | 415 | 480 | 100 |
| 1200 | 390 | 465 | 540 | 100 |
| 1400 | 470 | 545 | 620 | 110 |
| 1600 | 470 | 545 | 620 | 110 |
| 1800 | 470 | 545 | 620 | 120 |
| 2000 | 480 | 555 | 630 | 120 |
| 2200 | 500 | 580 | 660 | 130 |

SSJB(A Y)型压盖式松套伸缩接头 SSJB (AY) gland bush telescopic joint



| 序号 No. | 名称 Name | 数量 Quantity | 材料 Material |
|--------|------------|-------------|---------------------------------------|
| 1 | 压盖 Cover | 2 | QT400-15, Q235A, ZG230-450, 1Cr13, 20 |
| 2 | 套筒 Sleeve | 1 | Q235A, 20, 16Mn, 1Cr18Ni9Ti |
| 3 | 密封圈 Gasket | 2 | NBR, CR, EPDM, NR |
| 4 | 螺栓 Bolt | n | Q235A, 35, 1Cr18Ni9Ti |
| 5 | 螺母 Nut | n | Q235A, 20, 1Cr18Ni9Ti |

主要连接尺寸 Main connecting dimension

| 公称直径DN nominal diameter | 管子外径Dw external diameter | 外形尺寸 external dimension | | N-Th | | | |
|----------------------------|-----------------------------|-------------------------|-----|------|-------------|------------|--------|
| | | 长度 Length | | D | D.25-1.6Mpa | 2.5-5.4Mpa | |
| 65 | 76 | 180 | 208 | 155 | 4-M12 | 4-M12 | |
| 80 | 89 | | | | | | |
| 100 | 108 | | | | | | |
| 100 | 114 | | | | | | |
| 125 | 139 | | | | | | |
| 125 | 140 | | | | | | |
| 150 | 159 | | 220 | 220 | 225 | 6-M20 | 8-M20 |
| 150 | 168 | | | | | | |
| 200 | 219 | | | | | | |
| 225 | 245 | | | | | | |
| 250 | 273 | | | | | | |
| 300 | 325 | | | | | | |
| 350 | 355 | 290 | | 273 | 440 | 8-M20 | 10-M20 |
| 350 | 377 | | | | | | |
| 400 | 406 | | | | | | |
| 400 | 426 | | | | | | |
| 450 | 457 | | | | | | |
| 450 | 480 | | | | | | |
| 500 | 508 | | 400 | 355 | 590 | 10-M20 | 12-M20 |
| 500 | 530 | | | | | | |
| 600 | 610 | | | | | | |
| 600 | 630 | | | | | | |
| 700 | 720 | | | | | | |
| 800 | 820 | | | | | | |
| 900 | 920 | 490 | | 377 | 855 | 12-M20 | 14-M20 |
| 1000 | 1020 | | | | | | |
| 1200 | 1220 | | | | | | |
| 1400 | 1420 | | | | | | |
| 1500 | 1520 | | | | | | |
| 1600 | 1620 | | | | | | |
| 1800 | 1820 | | 500 | 400 | 970 | 12-M24 | 16-M24 |
| 2000 | 2020 | | | | | | |
| 2200 | 2220 | | | | | | |
| 2400 | 2420 | | | | | | |
| 2600 | 2620 | | | | | | |
| 2800 | 2820 | | | | | | |
| 3000 | 3020 | 500 | | 490 | 1070 | 14-M24 | 18-M24 |
| 3200 | 3220 | | | | | | |
| 3400 | 3420 | | | | | | |
| 3600 | 3620 | | | | | | |
| 3800 | 3820 | | | | | | |
| 4000 | 4020 | | | | | | |

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

SSJB-2(BY)压盖式松套限位伸缩接头
SSJB-3(BY)压盖式松套限位伸缩接头

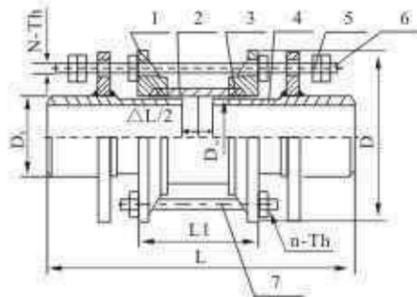
SSJB-2 (BY) cover limited telescopic joint
SSJB-3 (BY) cover limited telescopic joint



SSJB-2



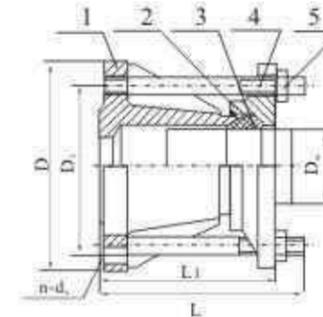
SSJB-3



| 序号 No. | 名称 Name | 数量 Quantity | 材料 Material |
|--------|-------------------------|-------------|-----------------|
| 1 | 压盖 follower | 2 | QT450-10, Q235A |
| 2 | 套筒 sleeve | 1 | NBR |
| 3 | 密封圈 Gasket | 2 | QT450-10, Q235A |
| 4 | 限位短管 limited short pipe | 2 | Q235A |
| 5 | 螺母 nut | Tn | Q235A, 20# |
| 6 | 长螺栓 long stud | n | Q235A, 35# |
| 7 | 短螺栓 short stud | n | Q235A, 35# |

| 公称直径DN nominal diameter | 管子外径DW External diameter of pipe | | 外形尺寸 Shape dimension | | | 补偿量 ▲ L compensation length | n-Th | | | | |
|----------------------------|-------------------------------------|------|----------------------|------|----------------|--------------------------------|------------|--------|-----|-------|-------|
| | DW | Do | D | L | L ₁ | | 0.6-1.6MPa | 2.5MPa | | | |
| 65 | 76 | 76 | 155 | 645 | 180 | 90 | 2-M12 | 2-M12 | | | |
| 80 | 89 | 89 | 165 | | | | | | | | |
| 100 | 108 | 108 | 195 | | | | | | | | |
| 125 | 133 | 133 | 225 | | | | | | | | |
| 150 | 159 | 159 | 255 | | | | | | | | |
| 200 | 219 | 219 | 310 | | | | | | | | |
| 250 | 273 | 273 | 375 | | | | 2-M16 | 3-M16 | | | |
| 300 | 325 | 325 | 440 | | | | | | | | |
| 350 | 377 | 377 | 490 | | | | | | | | |
| 400 | 426 | 426 | 540 | | | | | | | | |
| 450 | 480 | 480 | 590 | | | | | | | | |
| 500 | 530 | 530 | 645 | | | | | | | | |
| 600 | 630 | 630 | 750 | 655 | 220 | 110 | 5-M20 | 6-M20 | | | |
| 700 | 720 | 720 | 850 | | | | | | | | |
| 800 | 820 | 820 | 965 | | | | | | | | |
| 900 | 920 | 920 | 1065 | | | | | | | | |
| 1000 | 1020 | 1020 | 1165 | | | | | | | | |
| 1200 | 1220 | 1220 | 1365 | | | | | | | | |
| 1400 | 1420 | 1428 | 1590 | | | | 1075 | 290 | 150 | 7-M24 | 8-M24 |
| 1500 | 1520 | 1528 | 1690 | | | | | | | | |
| 1600 | 1620 | 1628 | 1795 | | | | | | | | |
| 1800 | 1820 | 1828 | 2000 | | | | | | | | |
| 2000 | 2020 | 2030 | 2200 | | | | | | | | |
| 2200 | 2220 | 2230 | 2420 | | | | | | | | |
| 2400 | 2420 | 2430 | 2635 | 1130 | 400 | 260 | 8-M24 | 10-M24 | | | |
| 2600 | 2620 | 2630 | 2835 | | | | | | | | |
| 2800 | 2820 | 2830 | 3040 | | | | | | | | |
| 3000 | 3020 | 3030 | 3240 | | | | | | | | |
| 3200 | 3220 | 3230 | 3440 | | | | | | | | |
| 3400 | 3420 | 3432 | 3640 | | | | | | | | |
| 3600 | 3620 | 3632 | 3860 | | | | 20-M33 | 21-M36 | | | |
| 3800 | 3820 | 3832 | 4080 | | | | | | | | |
| 4000 | 4020 | 4034 | 4300 | | | | | | | | |

VSSJA(AF)型法兰式松套伸缩接头
VSSJA (AF) flange telescopic joint



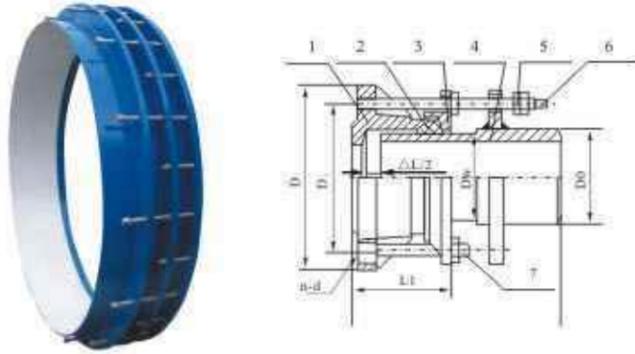
| 序号 No. | 名称 Name | 数量 Quantity | 材料 Material |
|--------|---------------|-------------|---------------------------------------|
| 1 | 本体 Valve body | 1 | QT400-15, Q235A, ZG230-450, 1Cr13, 20 |
| 2 | 压盖 Cover | 1 | QT400-15, Q235A, 20, ZG230-450, 1Cr13 |
| 3 | 密封圈 Gasket | 2 | NBR, CR, EPDM, NR |
|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

主要连接尺寸 Main connecting dimension

| 公称直径DN nominal diameter | 管子外径DW External of pipe diameter | 长度 Length | 法兰连接尺寸 flange connection size | | | | | | | | | | | | |
|----------------------------|-------------------------------------|--------------|-------------------------------|----------------|------|----------------|----------------|--------|----------------|----------------|--------|--------|------|--------|--------|
| | | | 0.25MPa | | | 0.6MPa | | | 1.0MPa | | | | | | |
| | | | D ₁ | D ₂ | n-do | D ₁ | D ₂ | n-do | D ₁ | D ₂ | n-do | | | | |
| 65 | 76 | 105 | 118 | 160 | 130 | 4-φ14 | 160 | 130 | 4-φ14 | 185 | 145 | 4-φ18 | | | |
| 80 | 89 | 105 | 123 | 190 | 150 | 4-φ18 | 190 | 150 | 4-φ18 | 200 | 160 | 8-φ18 | | | |
| 100 | 108 | | | 210 | 170 | | 210 | 170 | | 220 | 180 | | | | |
| 125 | 133 | | | 240 | 200 | 240 | 200 | 250 | 210 | | | | | | |
| 150 | 140 | | | 265 | 225 | 265 | 225 | 285 | 240 | | | | | | |
| 150 | 159 | 105 | 130 | 320 | 280 | 12-φ18 | 320 | 280 | 12-φ18 | 340 | 295 | 12-φ22 | | | |
| 200 | 219 | | | 375 | 335 | | 375 | 335 | | 395 | 350 | | | | |
| 250 | 273 | | | 440 | 395 | | 440 | 395 | | 445 | 400 | | | | |
| 300 | 325 | | | 490 | 445 | | 490 | 445 | | 505 | 460 | | | | |
| 350 | 377 | | | 540 | 495 | | 540 | 495 | | 565 | 515 | | | | |
| 400 | 406 | | | 595 | 550 | | 595 | 550 | | 615 | 565 | | | | |
| 400 | 426 | | | 130 | 160 | 645 | 600 | 20-φ22 | 645 | 600 | 20-φ22 | | 670 | 620 | 20-φ26 |
| 450 | 457 | | | | | 755 | 705 | | 755 | 705 | | | 780 | 725 | |
| 450 | 480 | | | | | 860 | 810 | | 860 | 810 | | | 895 | 840 | |
| 500 | 508 | | | | | 975 | 920 | | 975 | 920 | | | 1015 | 950 | |
| 500 | 530 | | | | | 1075 | 1020 | | 1075 | 1020 | | | 1115 | 1050 | |
| 600 | 610 | | | | | 1175 | 1120 | | 1175 | 1120 | | | 1230 | 1160 | |
| 600 | 630 | 220 | 255 | | | 1375 | 1320 | 28-φ30 | 1405 | 1340 | 32-φ33 | 1455 | 1380 | 28-φ36 | |
| 700 | 720 | | | | | 1575 | 1520 | | 1630 | 1560 | | 1675 | 1590 | | |
| 800 | 820 | | | | | 1790 | 1730 | | 1830 | 1760 | | 1915 | 1820 | | |
| 900 | 920 | | | | | 1990 | 1930 | | 2045 | 1970 | | 2115 | 2020 | | |
| 1000 | 1020 | | | | | 2190 | 2130 | | 2265 | 2180 | | 2325 | 2230 | | |
| 1200 | 1220 | | | | | 2405 | 2340 | | 2475 | 2390 | | 2550 | 2440 | | |
| 1400 | 1420 | | | 220 | 275 | 2605 | 2540 | 56-φ33 | 2685 | 2600 | 56-φ42 | 2760 | 2650 | | 56-φ56 |
| 1600 | 1620 | | | | | 2805 | 2740 | | 2905 | 2810 | | 2960 | 2850 | | |
| 1800 | 1820 | | | | | 3030 | 2960 | | 3115 | 3020 | | 3180 | 3070 | | |
| 2000 | 2020 | | | | | 3230 | 3160 | | 3315 | 3220 | | 3405 | 3290 | | |
| 2200 | 2220 | | | | | 3430 | 3360 | | 3525 | 3430 | | 3620 | 3510 | | |
| 2400 | 2420 | | | | | 3630 | 3560 | | 3735 | 3640 | | 3840 | 3730 | | |
| 2600 | 2620 | 240 | 300 | | | 3840 | 3770 | 80-φ36 | 3970 | 3860 | 80-φ56 | 4045 | 3970 | 80-φ56 | |
| 2800 | 2820 | | | | | 4045 | 3970 | | 4245 | 4170 | | 4455 | 4380 | | |
| 3000 | 3020 | | | | | 4245 | 4170 | | 4455 | 4380 | | 4665 | 4590 | | |
| 3200 | 3220 | | | | | 4445 | 4380 | | 4665 | 4590 | | 4875 | 4800 | | |
| 3400 | 3420 | | | | | 4645 | 4590 | | 4875 | 4800 | | 5085 | 5010 | | |
| 3600 | 3620 | | | | | 4845 | 4790 | | 5085 | 5010 | | 5295 | 5220 | | |
| 3800 | 3820 | 240 | 300 | 5085 | 5010 | 84-φ39 | 5295 | 5220 | 84-φ56 | 5505 | 5430 | | | | |
| 4000 | 4020 | | | 5295 | 5220 | | 5505 | 5430 | | 5715 | 5640 | | | | |

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

VSSJA-1(BF)型单法兰松套限位伸缩接头
VSSJA-1 (BF) single flange limited telescopic joint



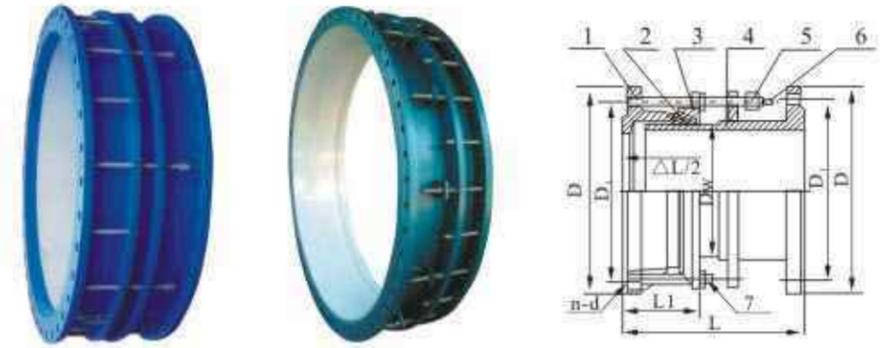
| 序号 No. | 名称 Name | 数量 Quantity | 材料 Material |
|--------|-------------------------|-------------|-----------------|
| 1 | 本体 Valve body | 1 | QT450-10, Q235A |
| 2 | 密封圈 Gasket | 1 | NBR |
| 3 | 压盖 follower | 1 | QT450-10, Q235A |
| 4 | 限位短管 limited short pipe | 1 | Q235A |
| 5 | 螺母 nut | 4n | Q235A, 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 Main connecting dimension

| 公称通径DN nominal diameter | 管子外径Dw external diameter of pipe | | 外形尺寸 external dimension | | 伸缩量 ▲ L compensation length | 法兰连接尺寸 flange connection size | | | | | | | | |
|----------------------------|-------------------------------------|------|----------------------------|------|--------------------------------|-------------------------------|------|--------|--------|--------|--------|------|--------|--------|
| | Dw | D0 | L | L | | 0.6MPa | | | 1.0MPa | | | | | |
| | | | | | | D | D0 | n-d0 | D | D0 | n-d0 | | | |
| 65 | 76 | 76 | 340 | 105 | 50 | 160 | 130 | 4-φ14 | 185 | 145 | 4-φ18 | | | |
| 80 | 89 | 89 | | | | 190 | 150 | 200 | 160 | 8-φ18 | | | | |
| 100 | 108 | 108 | | | | 210 | 170 | 220 | 180 | | | | | |
| 100 | 114 | 114 | | | | 210 | 170 | 220 | 180 | | | | | |
| 125 | 133 | 133 | | | | 240 | 200 | 250 | 210 | | | | | |
| 125 | 140 | 140 | | | | 240 | 200 | 250 | 210 | 8-φ22 | | | | |
| 150 | 159 | 159 | | | | 265 | 225 | 285 | 240 | | | | | |
| 150 | 168 | 168 | | | | 265 | 225 | 285 | 240 | | | | | |
| 200 | 219 | 219 | | | | 320 | 280 | 340 | 295 | | | | | |
| 250 | 273 | 273 | | | | 375 | 335 | 395 | 350 | 12-φ22 | | | | |
| 300 | 325 | 325 | | | | 440 | 395 | 445 | 400 | 12-φ22 | | | | |
| 350 | 377 | 377 | | | | 490 | 445 | 505 | 460 | 16-φ22 | | | | |
| 400 | 426 | 426 | 350 | 130 | 65 | 540 | 495 | 16-φ22 | 565 | 515 | 16-φ26 | | | |
| 450 | 480 | 480 | | | | 595 | 550 | 615 | 565 | 20-φ26 | | | | |
| 500 | 530 | 530 | | | | 645 | 600 | 670 | 620 | 20-φ26 | | | | |
| 600 | 630 | 630 | | | | 755 | 705 | 780 | 725 | 20-φ26 | | | | |
| 700 | 720 | 720 | | | | 860 | 810 | 895 | 840 | 20-φ30 | | | | |
| 800 | 820 | 820 | | | | 975 | 920 | 1015 | 950 | 24-φ30 | | | | |
| 900 | 920 | 920 | | | | 1075 | 1020 | 1115 | 1050 | 24-φ33 | | | | |
| 1000 | 1020 | 1020 | | | | 1175 | 1120 | 1230 | 1160 | 28-φ33 | | | | |
| 1200 | 1220 | 1220 | | | | 1405 | 1340 | 1455 | 1380 | 28-φ36 | | | | |
| 1400 | 1420 | 1428 | | | | 1630 | 1560 | 1675 | 1590 | 32-φ40 | | | | |
| 1500 | 1520 | 1528 | | | | 590 | 220 | 130 | 1730 | 1660 | 36-φ36 | 1675 | 1590 | 36-φ42 |
| 1600 | 1620 | 1628 | | | | | | | 1830 | 1760 | 1915 | 1820 | 40-φ36 | |
| 1800 | 1820 | 1828 | 2045 | 1970 | 2115 | | | | 2020 | 44-φ40 | | | | |
| 2000 | 2020 | 2030 | 2265 | 2180 | 2325 | | | | 2230 | 44-φ48 | | | | |
| 2200 | 2220 | 2230 | 2475 | 2390 | 2550 | | | | 2440 | 48-φ48 | | | | |
| 2400 | 2420 | 2430 | 2685 | 2600 | 2760 | | | | 2650 | 52-φ56 | | | | |
| 2600 | 2620 | 2630 | 2905 | 2810 | 2960 | | | | 2850 | 56-φ56 | | | | |
| 2800 | 2820 | 2830 | 3115 | 3020 | 3180 | | | | 3070 | 60-φ56 | | | | |
| 3000 | 3020 | 3030 | 3315 | 3220 | 3405 | | | | 3290 | 64-φ56 | | | | |
| 3200 | 3220 | 3230 | 3525 | 3430 | 3615 | | | | 3500 | 68-φ60 | | | | |
| 3400 | 3420 | 3430 | 3735 | 3640 | 3825 | | | | 3710 | 72-φ60 | | | | |
| 3600 | 3620 | 3630 | 3970 | 3860 | 4065 | | | | 3950 | 80-φ56 | | | | |

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



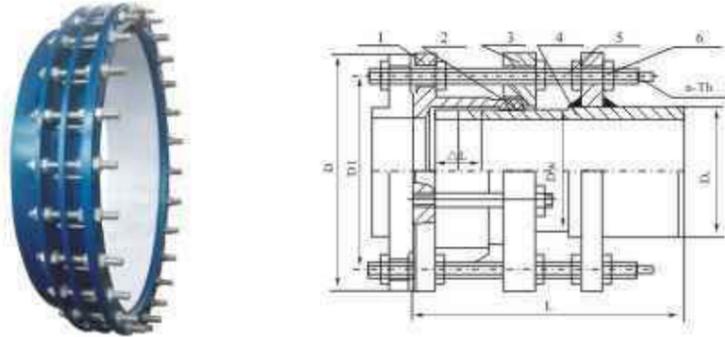
| 序号 No. | 名称 Name | 数量 Quantity | 材料 Material |
|--------|-------------------------|-------------|-----------------|
| 1 | 本体 Valve body | 1 | QT450-10, Q235A |
| 2 | 密封圈 Gasket | 1 | NBR |
| 3 | 压盖 follower | 1 | QT450-10, Q235A |
| 4 | 限位短管 limited short pipe | 1 | Q235A |
| 5 | 螺母 nut | 4n | Q235A, 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 Main connecting dimension

| 公称通径DN nominal diameter | 管子外径Dw External diameter of pipe | | 外形尺寸 external dimension | | 伸缩量 ▲ L compensation length | 法兰连接尺寸 flange connection size | | | | | | | | |
|----------------------------|-------------------------------------|------|----------------------------|------|--------------------------------|-------------------------------|------|--------|--------|--------|--------|------|--------|--------|
| | Dw | D0 | L | L | | 0.6MPa | | | 1.0MPa | | | | | |
| | | | | | | D | D0 | n-d0 | D | D0 | n-d0 | | | |
| 65 | 76 | 76 | 340 | 105 | 50 | 160 | 130 | 4-φ14 | 185 | 145 | 4-φ18 | | | |
| 80 | 89 | 89 | | | | 190 | 150 | 200 | 160 | 8-φ18 | | | | |
| 100 | 108 | 108 | | | | 210 | 170 | 220 | 180 | | | | | |
| 100 | 114 | 114 | | | | 210 | 170 | 220 | 180 | | | | | |
| 125 | 133 | 133 | | | | 240 | 200 | 250 | 210 | | | | | |
| 125 | 140 | 140 | | | | 240 | 200 | 250 | 210 | 8-φ22 | | | | |
| 150 | 159 | 159 | | | | 265 | 225 | 285 | 240 | | | | | |
| 150 | 168 | 168 | | | | 265 | 225 | 285 | 240 | | | | | |
| 200 | 219 | 219 | | | | 320 | 280 | 340 | 295 | | | | | |
| 250 | 273 | 273 | | | | 375 | 335 | 395 | 350 | 12-φ22 | | | | |
| 300 | 325 | 325 | | | | 440 | 395 | 445 | 400 | 12-φ22 | | | | |
| 350 | 377 | 377 | | | | 490 | 445 | 505 | 460 | 16-φ22 | | | | |
| 400 | 426 | 426 | 370 | 130 | 65 | 540 | 495 | 16-φ22 | 565 | 515 | 16-φ26 | | | |
| 450 | 480 | 480 | | | | 595 | 550 | 615 | 565 | 20-φ26 | | | | |
| 500 | 530 | 530 | | | | 645 | 600 | 670 | 620 | 20-φ26 | | | | |
| 600 | 630 | 630 | | | | 755 | 705 | 780 | 725 | 20-φ26 | | | | |
| 700 | 720 | 720 | | | | 860 | 810 | 895 | 840 | 20-φ30 | | | | |
| 800 | 820 | 820 | | | | 975 | 920 | 1015 | 950 | 24-φ30 | | | | |
| 900 | 920 | 920 | | | | 1075 | 1020 | 1115 | 1050 | 24-φ33 | | | | |
| 1000 | 1020 | 1020 | | | | 1175 | 1120 | 1230 | 1160 | 28-φ33 | | | | |
| 1200 | 1220 | 1220 | | | | 1405 | 1340 | 1455 | 1380 | 28-φ36 | | | | |
| 1400 | 1420 | 1428 | | | | 1630 | 1560 | 1675 | 1590 | 32-φ40 | | | | |
| 1500 | 1520 | 1528 | | | | 600 | 220 | 130 | 1730 | 1660 | 36-φ36 | 1675 | 1590 | 36-φ42 |
| 1600 | 1620 | 1628 | | | | | | | 1830 | 1760 | 1915 | 1820 | 40-φ36 | |
| 1800 | 1820 | 1828 | 2045 | 1970 | 2115 | | | | 2020 | 44-φ40 | | | | |
| 2000 | 2020 | 2030 | 2265 | 2180 | 2325 | | | | 2230 | 44-φ48 | | | | |
| 2200 | 2220 | 2230 | 2475 | 2390 | 2550 | | | | 2440 | 48-φ48 | | | | |
| 2400 | 2420 | 2430 | 2685 | 2600 | 2760 | | | | 2650 | 52-φ56 | | | | |
| 2600 | 2620 | 2630 | 2905 | 2810 | 2960 | | | | 2850 | 56-φ56 | | | | |
| 2800 | 2820 | 2830 | 3115 | 3020 | 3180 | | | | 3070 | 60-φ56 | | | | |
| 3000 | 3020 | 3030 | 3315 | 3220 | 3405 | | | | 3290 | 64-φ56 | | | | |
| 3200 | 3220 | 3230 | 3525 | 3430 | 3615 | | | | 3500 | 68-φ60 | | | | |
| 3400 | 3420 | 3430 | 3735 | 3640 | 3825 | | | | 3710 | 72-φ60 | | | | |
| 3600 | 3620 | 3630 | 3970 | 3860 | 4065 | | | | 3950 | 80-φ56 | | | | |

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

VSSJAFG(CF)型单法兰松套传力接头 VSSJAFG (CF) single flange power delivery joint



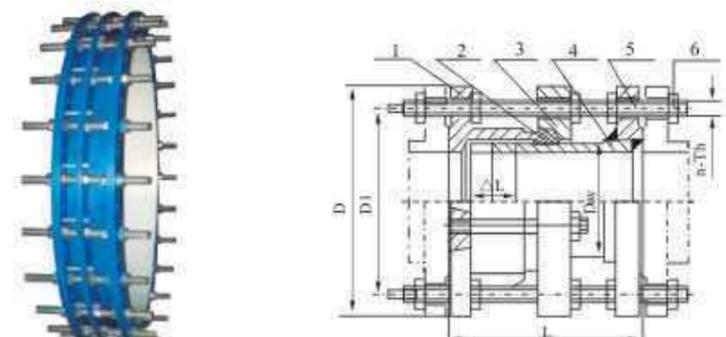
| 序号 No. | 名称 Name | 数量 Quantity | 材料 Material |
|--------|-------------------------|-------------|-----------------|
| 1 | 本体 Valve body | 1 | QT450-10, Q235A |
| 2 | 密封圈 Gasket | 1 | NBR |
| 3 | 压盖 follower | 1 | QT450-10, Q235A |
| 4 | 限位短管 limited short pipe | 1 | Q235A |
| 5 | 螺栓 bolt | n | Q235A, 35# |
| 6 | 螺母 nut | Tn | Q235A, 20# |

主要连接尺寸 Main connecting dimension

| 公称通径DN nominal diameter | 管子外径DW External diameter of pipe | | 外形尺寸 external dimension | | 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 | 76 | 400 | 40 | 160 | 130 | 4-M12 | 16 | 185 | 145 | 4-M16 | 20 |
| 80 | 89 | 89 | | | 190 | 150 | 4-M16 | 18 | 200 | 160 | 8-M16 | 22 |
| 100 | 114 | 114 | | | 210 | 170 | 8-M16 | 18 | 220 | 180 | 8-M16 | 24 |
| 125 | 140 | 140 | | | 240 | 200 | 8-M16 | 20 | 250 | 210 | 8-M20 | 26 |
| 150 | 168 | 168 | | | 265 | 225 | 8-M16 | 20 | 285 | 240 | 8-M20 | 26 |
| 200 | 219 | 219 | | | 320 | 280 | 12-M16 | 22 | 340 | 295 | 12-M20 | 28 |
| 250 | 273 | 273 | | | 375 | 335 | 12-M16 | 24 | 395 | 350 | 12-M20 | 28 |
| 300 | 325 | 325 | | | 440 | 395 | 12-M20 | 24 | 445 | 400 | 12-M20 | 28 |
| 350 | 377 | 377 | | | 490 | 445 | 16-M20 | 26 | 505 | 460 | 16-M20 | 30 |
| 400 | 426 | 426 | | | 540 | 495 | 16-M20 | 28 | 565 | 515 | 16-M24 | 32 |
| 450 | 480 | 480 | 595 | 550 | 20-M20 | 28 | 615 | 565 | 20-M24 | 32 | | |
| 500 | 530 | 530 | 645 | 600 | 20-M20 | 30 | 670 | 620 | 20-M24 | 34 | | |
| 600 | 630 | 630 | 755 | 705 | 20-M24 | 30 | 780 | 725 | 20-M27 | 36 | | |
| 700 | 720 | 720 | 860 | 810 | 24-M24 | 32 | 895 | 840 | 24-M27 | 40 | | |
| 800 | 820 | 820 | 975 | 920 | 24-M27 | 34 | 1015 | 950 | 24-M30 | 44 | | |
| 900 | 920 | 920 | 1075 | 1020 | 24-M27 | 36 | 1115 | 1050 | 28-M30 | 46 | | |
| 1000 | 1020 | 1020 | 1175 | 1120 | 28-M27 | 36 | 1230 | 1160 | 28-M33 | 50 | | |
| 1200 | 1220 | 1220 | 1405 | 1340 | 32-M30 | 40 | 1455 | 1380 | 32-M36 | 56 | | |
| 1400 | 1420 | 1428 | 1630 | 1560 | 36-M33 | 44 | 1675 | 1590 | 36-M39 | 62 | | |
| 1600 | 1620 | 1628 | 1830 | 1760 | 40-M33 | 48 | 1915 | 1820 | 40-M45 | 68 | | |
| 1800 | 1820 | 1828 | 2045 | 1970 | 44-M36 | 50 | 2115 | 2020 | 44-M45 | 70 | | |
| 2000 | 2020 | 2030 | 2265 | 2180 | 48-M39 | 54 | 2325 | 2230 | 48-M45 | 74 | | |
| 2200 | 2220 | 2230 | 2475 | 2390 | 52-M39 | 60 | 2550 | 2440 | 52-M52 | 80 | | |
| 2400 | 2420 | 2430 | 2685 | 2600 | 56-M39 | 62 | 2760 | 2650 | 56-M52 | 82 | | |
| 2600 | 2620 | 2630 | 2905 | 2810 | 60-M45 | 64 | 2960 | 2850 | 60-M52 | 88 | | |
| 2800 | 2820 | 2830 | 3115 | 3020 | 64-M45 | 68 | 3180 | 3070 | 64-M52 | 94 | | |
| 3000 | 3020 | 3030 | 3315 | 3220 | 68-M45 | 70 | 3405 | 3290 | 68-M56 | 100 | | |
| 3200 | 3220 | 3230 | 3525 | 3430 | 72-M45 | 76 | | | | | | |

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

VSSJAF(C2F)型双法兰松套传力接头 VSSJAF (C2F) double flange power delivery joint



| 序号 No. | 名称 Name | 数量 Quantity | 材料 Material |
|--------|-------------------------|-------------|-----------------|
| 1 | 本体 Valve body | 1 | QT450-10, Q235A |
| 2 | 密封圈 Gasket | 1 | NBR |
| 3 | 压盖 follower | 1 | QT450-10, 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# |

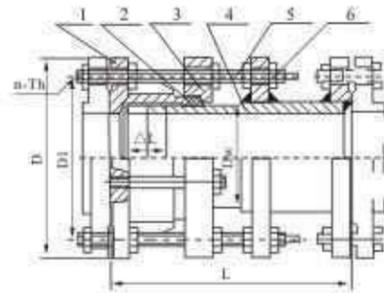
主要连接尺寸 Main connecting dimension

| 公称通径DN nominal diameter | 管子外径DW External diameter of pipe | | 外形尺寸 Shape dimension | | 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 | 76 | 200 | 40 | 160 | 130 | 4-M12 | 16 | 185 | 145 | 4-M16 | 20 |
| 80 | 89 | 89 | | | 190 | 150 | 4-M16 | 18 | 200 | 160 | 8-M16 | 22 |
| 100 | 114 | 114 | | | 210 | 170 | 8-M16 | 18 | 220 | 180 | 8-M16 | 24 |
| 125 | 140 | 140 | | | 240 | 200 | 8-M16 | 20 | 250 | 210 | 8-M20 | 26 |
| 150 | 168 | 168 | | | 265 | 225 | 8-M16 | 20 | 285 | 240 | 8-M20 | 26 |
| 200 | 219 | 219 | | | 320 | 280 | 12-M16 | 22 | 340 | 295 | 12-M20 | 28 |
| 250 | 273 | 273 | | | 375 | 335 | 12-M16 | 24 | 395 | 350 | 12-M20 | 28 |
| 300 | 325 | 325 | | | 440 | 395 | 12-M20 | 24 | 445 | 400 | 12-M20 | 28 |
| 350 | 377 | 377 | | | 490 | 445 | 16-M20 | 26 | 505 | 460 | 16-M20 | 30 |
| 400 | 426 | 426 | | | 540 | 495 | 16-M20 | 28 | 565 | 515 | 16-M24 | 32 |
| 450 | 480 | 480 | 595 | 550 | 20-M20 | 28 | 615 | 565 | 20-M24 | 32 | | |
| 500 | 530 | 530 | 645 | 600 | 20-M20 | 30 | 670 | 620 | 20-M24 | 34 | | |
| 600 | 630 | 630 | 755 | 705 | 20-M24 | 30 | 780 | 725 | 20-M27 | 36 | | |
| 700 | 720 | 720 | 860 | 810 | 24-M24 | 32 | 895 | 840 | 24-M27 | 40 | | |
| 800 | 820 | 820 | 975 | 920 | 24-M27 | 34 | 1015 | 950 | 24-M30 | 44 | | |
| 900 | 920 | 920 | 1075 | 1020 | 24-M27 | 36 | 1115 | 1050 | 28-M30 | 46 | | |
| 1000 | 1020 | 1020 | 1175 | 1120 | 28-M27 | 36 | 1230 | 1160 | 28-M33 | 50 | | |
| 1200 | 1220 | 1220 | 1405 | 1340 | 32-M30 | 40 | 1455 | 1380 | 32-M36 | 56 | | |
| 1400 | 1420 | 1428 | 1630 | 1560 | 36-M33 | 44 | 1675 | 1590 | 36-M39 | 62 | | |
| 1600 | 1620 | 1628 | 1830 | 1760 | 40-M33 | 48 | 1915 | 1820 | 40-M45 | 68 | | |
| 1800 | 1820 | 1828 | 2045 | 1970 | 44-M36 | 50 | 2115 | 2020 | 44-M45 | 70 | | |
| 2000 | 2020 | 2030 | 2265 | 2180 | 48-M39 | 54 | 2325 | 2230 | 48-M45 | 74 | | |
| 2200 | 2220 | 2230 | 2475 | 2390 | 52-M39 | 60 | 2550 | 2440 | 52-M52 | 80 | | |
| 2400 | 2420 | 2430 | 2685 | 2600 | 56-M39 | 62 | 2760 | 2650 | 56-M52 | 82 | | |
| 2600 | 2620 | 2630 | 2905 | 2810 | 60-M45 | 64 | 2960 | 2850 | 60-M52 | 88 | | |
| 2800 | 2820 | 2830 | 3115 | 3020 | 64-M45 | 68 | 3180 | 3070 | 64-M52 | 94 | | |
| 3000 | 3020 | 3030 | 3315 | 3220 | 68-M45 | 70 | 3405 | 3290 | 68-M56 | 100 | | |
| 3200 | 3220 | 3230 | 3525 | 3430 | 72-M45 | 76 | | | | | | |

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

VSSJAFC(CC2F)型可拆式双法兰松套传力接头

VSSJAFC (CC2F) detachable double flange power delivery joint



| 序号 No. | 名称 Name | 数量 Quantity | 材料 Material |
|--------|-------------------------|-------------|-----------------|
| 1 | 本体 Valve body | 1 | QT450-10, Q235A |
| 2 | 密封圈 Gasket | 1 | NBR |
| 3 | 压盖 follower | 1 | QT450-10, Q235A |
| 4 | 限位短管 limited short pipe | 1 | Q235A |
| 5 | 螺栓 stud | n | Q235A, 35# |
| 6 | 螺母 nut | Sn | Q235A, 20# |

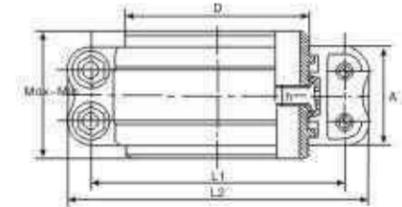
主要连接尺寸 Main connecting dimension

| 公称直径DN nominal diameter | 管子外径DW External diameter of pipe | 外形尺寸 external dimension | | 法兰连接尺寸 flange connection size | | | | | | | |
|----------------------------|-------------------------------------|----------------------------|-----|-------------------------------|----------------|--------|--------|--------|----------------|--------|--------|
| | | | | 0.6MPa | | | | 1.0MPa | | | |
| | | L | ▲L | 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 | | 18 | 220 | 180 | | 24 |
| 125 | 140 | | | 240 | 200 | | 20 | 250 | 210 | | 26 |
| 150 | 168 | | | 420 | 50 | 265 | 225 | 8-M16 | 20 | 285 | 240 |
| 200 | 219 | 320 | 280 | | | 22 | 340 | 295 | 28 | | |
| 250 | 273 | 375 | 335 | | | 12-M16 | 24 | 395 | 350 | 12-M20 | 28 |
| 300 | 325 | 440 | 395 | | | 12-M20 | 24 | 445 | 400 | 12-M20 | 28 |
| 350 | 377 | 490 | 445 | | | 16-M20 | 26 | 505 | 460 | 16-M20 | 30 |
| 400 | 426 | 440 | 60 | 540 | 495 | 16-M20 | 28 | 565 | 515 | 16-M24 | 32 |
| 450 | 480 | | | 595 | 550 | | 28 | 615 | 565 | 20-M24 | 32 |
| 500 | 530 | | | 645 | 600 | | 20-M20 | 30 | 670 | 620 | 20-M24 |
| 600 | 630 | | | 755 | 705 | 20-M24 | 30 | 780 | 725 | 20-M27 | 36 |
| 700 | 720 | | | 860 | 810 | 24-M24 | 32 | 895 | 840 | 24-M27 | 40 |
| 800 | 820 | 600 | 80 | 975 | 920 | 24-M27 | 34 | 1015 | 950 | 24-M30 | 44 |
| 900 | 920 | | | 1075 | 1020 | 24-M27 | 36 | 1115 | 1050 | 28-M30 | 46 |
| 1000 | 1020 | | | 1175 | 1120 | 28-M27 | 36 | 1230 | 1160 | 28-M33 | 50 |
| 1200 | 1220 | | | 1405 | 1340 | 32-M30 | 40 | 1455 | 1380 | 32-M36 | 56 |
| 1400 | 1420 | | | 1630 | 1560 | 36-M33 | 44 | 1675 | 1590 | 36-M39 | 62 |
| 1600 | 1620 | 650 | 90 | 1830 | 1760 | 40-M33 | 48 | 1915 | 1820 | 40-M45 | 68 |
| 1800 | 1820 | | | 2045 | 1970 | 44-M36 | 50 | 2115 | 2020 | 44-M45 | 70 |
| 2000 | 2020 | | | 2265 | 2180 | 48-M39 | 54 | 2325 | 2230 | 48-M45 | 74 |
| 2200 | 2220 | | | 2475 | 2390 | 52-M39 | 60 | 2550 | 2440 | 52-M52 | 80 |
| 2400 | 2420 | | | 2685 | 2600 | 56-M39 | 62 | 2760 | 2650 | 56-M52 | 82 |
| 2600 | 2620 | 700 | 100 | 2905 | 2810 | 60-M45 | 64 | 2960 | 2850 | 60-M52 | 88 |
| 2800 | 2820 | | | 3115 | 3020 | 64-M45 | 68 | 3180 | 3070 | 64-M52 | 94 |
| 3000 | 3020 | | | 3315 | 3220 | 68-M45 | 70 | 3405 | 3290 | 68-M56 | 100 |
| 3200 | 3220 | | | 3525 | 3430 | 72-M45 | 76 | | | | |

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

KRHD型钢制卡箍接头

KRHD steel clamp joint

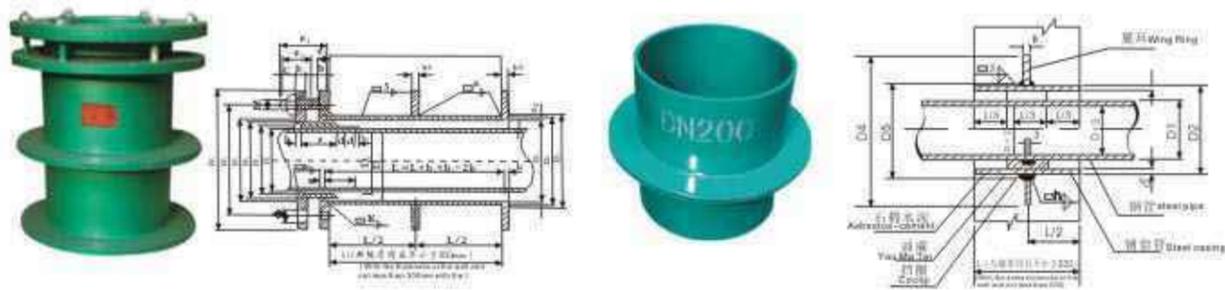


主要安装尺寸(单位: mm)

Main installation dimensions (unit: mm) PN1.6、2.5、4.0、6.4MPa

| 外径接管 DW External diameter of connection tube (mm) | 公称直径 DN nominal diameter (mm) | 允许管端轴向负荷 permitted axial load (Kgf) | 补偿量 Compensation length (mm) | 允许外伸 permitted outer corner | 最小长度 minimum length (mm) | 安装长度 installation length (mm) | 最大长度 length (mm) | 紧固螺栓 fastening bolt (mm) |
|--|-------------------------------------|---|---------------------------------------|-----------------------------------|--------------------------------|--|------------------------|--------------------------------|
| 89 | 80 | 2680 | 20 | 17.90 | 90 | 100 | 110 | M12×60 |
| 108 | 100 | 3550 | 20 | 15.06 | 90 | 100 | 110 | M14×60 |
| 133 | 125 | 4620 | 20 | 13.05 | 95 | 105 | 115 | M14×60 |
| 159 | 150 | 5530 | 20 | 12.09 | 100 | 110 | 120 | M14×60 |
| 194 | 175 | 7370 | 20 | 10.51 | 100 | 110 | 120 | M16×60 |
| 219 | 200 | 9370 | 20 | 9.33 | 106 | 116 | 126 | M16×75 |
| 245 | 225 | 11750 | 20 | 8.36 | 112 | 122 | 132 | M16×80 |
| 273 | 250 | 14620 | 20 | 7.51 | 117 | 127 | 137 | M18×90 |
| 325 | 300 | 20680 | 20 | 6.32 | 120 | 130 | 140 | M18×100 |
| 377 | 350 | 27875 | 20 | 5.45 | 125 | 135 | 145 | M18×100 |
| 426 | 400 | 35600 | 20 | 4.80 | 130 | 140 | 150 | M18×110 |
| 480 | 450 | 45180 | 20 | 4.28 | 135 | 145 | 155 | M18×110 |
| 530 | 500 | 55120 | 20 | 3.88 | 140 | 150 | 160 | M18×120 |
| 630 | 600 | 65900 | 22 | 3.27 | 145 | 155 | 165 | M18×120 |
| 720 | 700 | 70170 | 22 | 2.86 | 150 | 160 | 170 | M20×120 |
| 820 | 800 | 84400 | 22 | 2.51 | 155 | 165 | 175 | M20×130 |
| 920 | 900 | 106200 | 22 | 2.24 | 160 | 170 | 180 | M20×130 |
| 1020 | 1000 | 116870 | 22 | 2.02 | 165 | 175 | 185 | M20×130 |
| 1220 | 1200 | 130600 | 24 | 1.69 | 170 | 180 | 190 | M22×140 |
| 1420 | 1400 | 146200 | 24 | 1.45 | 175 | 185 | 195 | M22×140 |
| 1620 | 1600 | 158300 | 24 | 1.27 | 180 | 190 | 200 | M22×140 |
| 1820 | 1800 | 166000 | 24 | 1.13 | 185 | 195 | 205 | M22×150 |
| 2020 | 2000 | 179000 | 24 | 1.01 | 190 | 200 | 210 | M24×150 |
| 2220 | 2200 | 187000 | 26 | 1.01 | 195 | 205 | 215 | M24×150 |
| 2420 | 2400 | 196000 | 26 | 1.01 | 200 | 210 | 220 | M24×150 |
| 2620 | 2600 | 206000 | 26 | 1.01 | 205 | 215 | 225 | M24×160 |
| 2830 | 2800 | 253300 | 26 | 1.01 | 210 | 220 | 230 | M27×160 |
| 3020 | 3000 | 260100 | 26 | 1.01 | 215 | 225 | 235 | M27×160 |
| 3220 | 3200 | 286900 | 26 | 1.01 | 220 | 230 | 240 | M27×180 |

S312、02S404柔性、刚性防水套管 S312, 02S404 flexible and rigid waterproof sleeve



S312、02S404型防水套管主要用于管道穿过墙壁之处有震动或有严密防水要求的工况，它一方面有利于管道的安装拆卸以及防渗防漏，另一方面也保护了建筑物不受水和震动的损害。

S312, 02S404 waterproof sleeves are mainly used under the working conditions where there is vibration or strict waterproof requirement at the place where the pipeline passes through the wall. On the one hand, it is conducive to the pipeline installation and removal, as well as anti seepage and anti leakage, on the other hand, it also protects the buildings from the damage caused by water and vibration.

安装数据表 Design and Installation Dimension Table

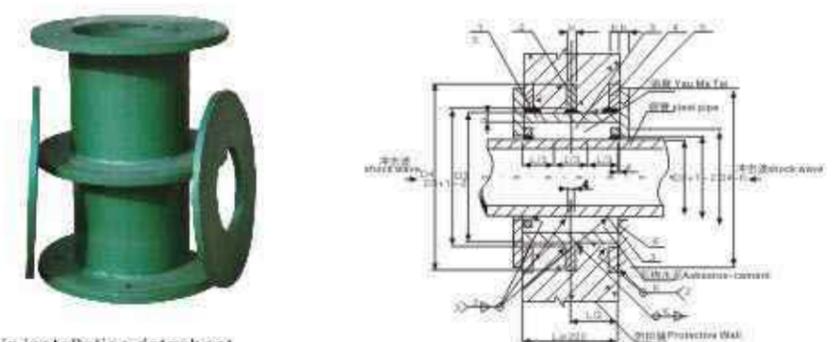
| 名称 Name | | 柔性防水套管 Flexible waterproof casing | | | | 刚性防水套管 Rigid waterproof casing | |
|-------------|--------------|--------------------------------------|-----------------------------------|-----------------------------------|---|-----------------------------------|-------------|
| 型号 Model | | S312-R | | | | S312-G | |
| DN | 长度 Length | 适用 壁厚 For Wall Thickness | 适用 管子 外径 For Tubes OD | 翼环 直径 Wing Ring Diameter | 长度 (壁厚 厚度) Length (Wall Thickness) | 适用管子 外径 For Tubes OD | |
| | | | | | | IV型 Type | IV型 Type |
| 50 | 380 | 300 | 60 | 177 | 200 | 60 | 225 |
| 70 | 380 | 300 | 73 | 190 | 200 | 73 | 238 |
| 80 | 384 | 300 | 89 | 217 | 200 | 89 | 251 |
| 100 | 384 | 300 | 108 | 236 | 200 | 108 | 280 |
| 125 | 386 | 300 | 133 | 267 | 200 | 133 | 301 |
| 150 | 386 | 300 | 159 | 280 | 200 | 159 | 324 |
| 200 | 386 | 300 | 219 | 350 | 200 | 219 | 394 |
| 250 | 388 | 300 | 273 | 402 | 200 | 273 | 446 |
| 300 | 388 | 300 | 325 | 462 | 200 | 325 | 498 |
| 350 | 392 | 300 | 377 | 511 | 200 | 377 | 567 |
| 400 | 392 | 300 | 426 | 565 | 200 | 426 | 621 |
| 450 | 394 | 300 | 480 | 615 | 200 | 480 | 671 |
| 500 | 394 | 300 | 530 | 673 | 200 | 530 | 720 |
| 600 | 407 | 300 | 630 | 787 | 200 | 630 | 822 |
| 700 | 409 | 300 | 720 | 877 | 200 | 720 | 911 |
| 800 | 411 | 300 | 820 | 987 | 200 | 820 | 1011 |
| 900 | 413 | 300 | 920 | 1087 | 200 | 920 | 1113 |
| 1000 | 415 | 300 | 1020 | 1187 | 200 | 1020 | 1213 |

注：1. 订货时必须标明型号及壁厚和插入管的外径。
2. 大口径特殊要求可按客户要求制造。
3. 本表尺寸为选择标注，订货时欢迎咨询。

| 名称 Name | | 柔性防水套管 Flexible waterproof casing | | | | 刚性防水套管 Rigid waterproof casing | | | |
|-------------|--------------|--------------------------------------|-----------------------------------|-----------------------------------|---|-----------------------------------|------------|-------------------------------|--------------------------------|
| 型号 Model | | S404-R | | | | S404-G | | | |
| DN | 长度 Length | 适用 壁厚 For Wall Thickness | 适用 管子 外径 For Tubes OD | 翼环 直径 Wing Ring Diameter | 长度 (壁厚 厚度) Length (Wall Thickness) | 适用管子 外径 For Tubes OD | | 翼环直径 Wing Ring Diameter | 翼环厚度 Wing Ring Thickness |
| | | | | | | A型 Type | B型 Type | | |
| 50 | 380 | 300 | 60 | 200 | 200 | 60 | 60 | 225 | 225 |
| 65 | 380 | 300 | 76 | 220 | 200 | 75.5 | 75.5 | 230 | 238 |
| 80 | 384 | 300 | 89 | 235 | 200 | 89 | 93 | 250 | 250 |
| 100 | 384 | 300 | 108 | 255 | 200 | 108 | 118 | 270 | 280 |
| 125 | 386 | 300 | 133 | 290 | 200 | 133 | 143 | 290 | 315 |
| 150 | 386 | 300 | 159 | 315 | 200 | 159 | 169 | 330 | 330 |
| 200 | 386 | 300 | 219 | 375 | 200 | 219 | 220 | 385 | 385 |
| 250 | 388 | 300 | 273 | 435 | 200 | 273 | 271.6 | 435 | 435 |
| 300 | 388 | 300 | 325 | 495 | 200 | 325 | 322.8 | 500 | 500 |
| 350 | 392 | 300 | 377 | 545 | 200 | 377 | 374 | 550 | 550 |
| 400 | 392 | 300 | 426 | 600 | 200 | 426 | 425.6 | 600 | 600 |
| 450 | 394 | 300 | 480 | 650 | 200 | 480 | 478.8 | 650 | 650 |
| 500 | 394 | 300 | 530 | 705 | 200 | 530 | 528 | 730 | 730 |
| 600 | 407 | 300 | 630 | 820 | 200 | 630 | 630.8 | 830 | 830 |
| 700 | 409 | 300 | 720 | 910 | 200 | 720 | 733 | 920 | 930 |
| 800 | 411 | 300 | 820 | 1020 | 200 | 820 | 836 | 1020 | 1040 |
| 900 | 413 | 300 | 920 | 1120 | 200 | 920 | 939 | 1120 | 1140 |
| 1000 | 415 | 300 | 1020 | 1220 | 200 | 1020 | 1041 | 1230 | 1240 |

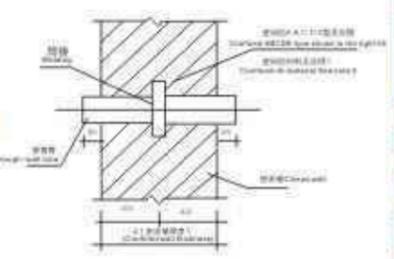
Notes: 1. When placing an order, be sure to state the models, wall thickness and outer diameter of insertion pipe.
2. Large-caliber special requirements can be met according to customers' requests.
3. The dimensions in the table size are entered selectively, when ordering the products, you are welcome to make consultation.

两侧防护刚性密闭套管 Both sides of the rigid airtight protective sleeve



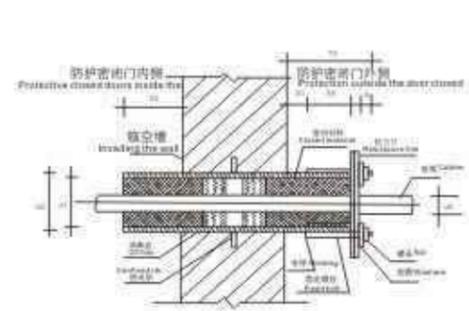
主安装数据表 Main installation datasheet

| DN | D1 | D2 | D3 | D4 | D5 | D7 | l | l ₁ | l ₂ | l ₃ | l ₄ | D ₁ | D ₂ | D ₃ | D ₄ | D ₅ | K |
|-----|-----|-----|-----|-----|-----|-----|----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|
| 50 | 60 | 95 | 65 | 145 | 200 | 81 | 65 | / | 72 | 30 | 3.5 | 4 | 8 | 65 | 86 | 4 | 4-M12 |
| 65 | 76 | 114 | 80 | 165 | 220 | 96 | 65 | 25 | 72 | 30 | 3.75 | 4 | 8 | 80 | 105 | 4 | 4-M12 |
| 80 | 89 | 127 | 95 | 180 | 235 | 115 | 65 | 25 | 76 | 38 | 4 | 4 | 10 | 95 | 118 | 4 | 4-M16 |
| 100 | 108 | 146 | 114 | 200 | 255 | 134 | 65 | 25 | 76 | 38 | 4 | 4.5 | 10 | 114 | 138 | 4 | 4-M16 |
| 125 | 133 | 180 | 140 | 235 | 290 | 160 | 65 | 25 | 76 | 38 | 4 | 6 | 10 | 140 | 167 | 6 | 6-M16 |
| 150 | 159 | 203 | 165 | 260 | 315 | 185 | 65 | 25 | 76 | 38 | 4.5 | 6 | 10 | 165 | 190 | 6 | 6-M16 |
| 200 | 219 | 265 | 226 | 320 | 375 | 246 | 65 | 25 | 76 | 38 | 6 | 6 | 10 | 226 | 252 | 6 | 6-M16 |



(防护) 密闭管和密封尺寸表 Flange connection size

| 序号 No. | 镀锌钢管 Galvanized steel pipe | | 管径尺寸 Pipe size L (mm) | 备注 Remarks |
|-----------|-------------------------------|---------------------------|-----------------------------|---------------|
| | 公称直径 (mm) Nominal diameter | 外径 (mm) Outer diameter | | |
| 1 | 20 | 26.8 | 50 | |
| 2 | 25 | 33.5 | 50 | |
| 3 | 32 | 42.3 | 60 | |
| 4 | 40 | 48 | 75 | |
| 5 | 50 | 60 | 100 | |
| 6 | 70 | 75.5 | 125 | |
| 7 | 80 | 88.5 | 150 | |
| 8 | 100 | 114 | 200 | |



保护和抗力片尺寸表 Flange connection size

| 管径材料 Material | 公称直径 Diameter | d1 | d2 | d3 | 壁厚 Thickness | 备注 Remarks |
|-------------------------------|------------------|------|------|------|-----------------|---------------|
| 无缝钢管 Seamless Steel Pipe | 1 | D45 | 39 | 45 | 90 | 3 |
| | 2 | D57 | 50 | 57 | 100 | 3.5 |
| | 3 | D89 | 82 | 89 | 130 | 3.5 |
| 镀锌钢管 Galvanized Steel Pipe | 4 | SC40 | 41 | 48 | 90 | 3.5 |
| | 5 | SC50 | 53 | 60 | 100 | 3.5 |
| | 6 | SC80 | 80.5 | 88.5 | 130 | 4 |

防护密闭材料表 Protective casing material list

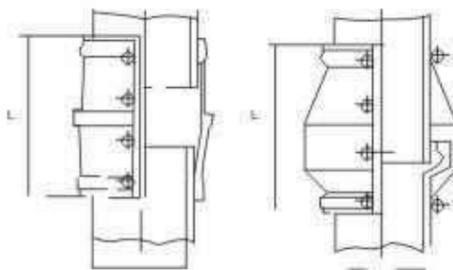
| 序号 No. | 名称 Name | 规格 Speci- fications | 数量 Quantity | 备注 Remarks |
|-----------|------------------------|-------------------------------|----------------|--|
| 1 | 保护管 Protection tube | 无缝钢管 Seamless | | 长度按需确定 To determine the length of on-demand |
| 2 | 保护管 Protection tube | 镀锌钢管 Galvanized Steel Pipe | | 长度按需确定 To determine the length of on-demand |
| 3 | 固定螺栓 Fixed bolt | M6, L=55mm | 2套 2sets | 附螺母及垫圈 Nuts and washers attached |
| 4 | 抗力片 Resistance film | 厚6mm 6mm thick | 2片 | |

1. 本图用于防护密闭门框上的电缆明线穿墙，也适用于其它位置电缆线穿越防护密闭墙。
2. 抗力片电缆槽d0必需严格按电缆处理后的外径开设，槽口必需光滑。
3. 铠装电缆穿闭管时不得剥去铠装。

- 1 This drawing is used in the open wire wall feed-through above the doorframe of the protective light door, and it also applies to the protective enclosed wall feed-through of cable wires in other locations.
- 2 The resistance sheet cable channel d0 must be set up in accordance with the outer diameter of the processed cable, and the notch must be smooth.
- 3 The armored cable cannot be stripped of the armor when passing through the closed pipe.

承口直口管道快速堵漏器

bell mouth/ straight mouth pipe quick leak stopping device



水泥管堵漏器系列
cement pipe leak stopping device series

| 口径 Diameter | 直口长度Lmin Straight mouth length | 承口长度 Straight mouth length |
|----------------|-----------------------------------|-------------------------------|
| 100 | 350 | 430 |
| 200 | 350 | 480 |
| 300 | 400 | 600 |
| 400 | 400 | 760 |
| 600 | 500 | 770 |
| 800 | 500 | 782 |
| 1000 | 500 | 800 |

铸铁管堵漏器系列
Cast iron pipe leak stopping device series

| 口径DN Diameter | 直口长度Lmin Straight mouth length | 承口长度 Straight mouth length |
|------------------|-----------------------------------|-------------------------------|
| 80 | 230 | 260 |
| 100 | 250 | 260 |
| 150 | 300 | 270 |
| 200 | 350 | 270 |
| 250 | 350 | 270 |
| 300 | 400 | 300 |
| 350 | 400 | 337 |
| 400 | 500 | 350 |
| 450 | 500 | 350 |
| 500 | 500 | 360 |
| 600 | 500 | 370 |
| 700 | 600 | 370 |
| 800 | 600 | 380 |
| 900 | 700 | 380 |
| 1000 | 700 | 390 |
| 1200 | 820 | 450 |

SKX-10型直管堵漏器和承口堵漏器均有两种型号(A型和B型), A型为全密封面加长型。B型为通用型。材质为铸铁和球墨铸铁件两种, 密封圈为特殊橡胶材料。本产品有三通管道堵漏器和变径管道堵漏器。

SKX-10型直管堵漏器
本产品适用于各种管道的断裂, 爆管的维护和抢修, 不需要停水, 在断裂爆管处安装直管堵漏器, 快速堵漏, 保障管道正常供水。

SKX-10型承口堵漏器
本产品用于铸铁管, 球墨铸铁管的承口处漏水的抢修, 降低劳动强度, 方便快捷, 快速堵漏, 保障管道正常供水。

直管卡式快速接头(又名: 直管开边抢修器)
型号: ZKX-10Z / P
材料: 球墨铸铁

Both SKX-10 type straight leak stopping device and SKX-10 type bell mouth leak stopping device have two models (A-type and B-type). B-type is the general type. The material is divided into two kinds: cast iron and nodular iron casting. The seal ring is special rubber material. This product has three-way pipe leak stopping device and tapered pipeline leak stopping device.

SKX-10 type straight pipe wall leakage device
This product is applicable to the maintenance and rush repair of the fracture and burst of various pipes. Water stopping is not needed. Straight pipe leak stopping device should be installed where there is fracture and pipe burst. Rapidly stop the leak and ensure normal water supply.

SKX-10 type bell mouth leak stopping device
This product is applied to the rush repair of leak on in the bell mouth of cast iron pipe and the nodular cast iron pipe. Reduce the labour intensity, fast and convenient. Rapidly stop the leak and ensure normal water supply.

Straight pipe cassette quick joint (also known as: straight pipe splitting rush repair device)
Model: ZKX-10Z / P
Material: nodular cast iron

ZKX-10Z / P(铸铁管用) ZKX-10Z / P (used for cast iron pipe)
规格及主要尺寸: mm Specification and main dimension: mm

| 公称口径DN Nominal diameter | L | L ₁ | G |
|----------------------------|-----|----------------|------|
| 80 | 250 | 220 | 1/2" |
| 100 | 270 | 230 | 1/2" |
| 150 | 270 | 230 | 1/2" |
| 200 | 310 | 270 | 3/4" |
| 250 | 350 | 310 | 1" |
| 300 | 430 | 375 | 1" |

ZKX-10P(PVC、PE、镀锌管用) ZKX-10P(used for PVC, PE, galvanized pipe)
规格及主要尺寸: mm Specification and main dimension: mm

| 公称口径DN Nominal diameter | L | L ₁ | G |
|----------------------------|-----|----------------|------|
| 90 | 220 | 250 | 1/2" |
| 110 | 230 | 260 | 1/2" |
| 150 | 230 | 250 | 3/4" |
| 200 | 260 | 300 | 1" |

性能规范数据 Performance specification data

| 公称压力Mpa / Nominal diameter | 1.0-1.5 |
|---|---|
| 试验压力Mpa / Test pressure Mpa | 1.3-2.0 |
| 深度 / Depth | 1.1-2.0 |
| 密封 / Seal | 1.1-2.0 |
| 20℃以下允许工作压力MPa / 20℃ below allowable working pressure Mpa | 1.0-1.5 |
| 适用温度℃ / Tars for degree ℃ | ≤50 |
| 适用范围 / Application | 淡水、海水、污水等 / fresh water, sewage, sea water, etc |

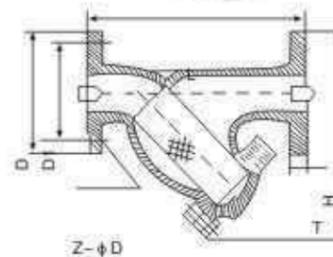
包夹插卡式快速接头(又名: 包大头开边抢修器) Baocheng card-plug-in type quick joint (also known as: Baodatou splitting rush repair device)

型号BKX-10
材料: 球墨铸铁
规格及主要尺寸: mm

| 公称口径DN Nominal diameter | L | L ₁ | G |
|----------------------------|-----|----------------|------|
| 80 | 350 | 330 | 1/2" |
| 100 | 400 | 360 | 1/2" |
| 150 | 420 | 380 | 1/2" |
| 200 | 480 | 440 | 3/4" |
| 250 | 480 | 440 | 1" |
| 300 | 510 | 450 | 1" |

Y型管道过滤器

Y type pipe filter



Z-φD



主要性能规范 Main performance specification

| 型号 Type | 工作压力 PN(MPa) Working Pressure | 试验压力PS (Mpa) Test pressure PS (Mpa) | | 适用介质 Applicable medium | 适用温度 Suitable temperature |
|------------|-------------------------------------|--|------------|---------------------------|------------------------------|
| | | 强度 Strength | 密封 Seal | | |
| G141 | 1.0 | 1.5 | 1.1 | 水 | ≤150℃ |
| G141 | 1.0 | 1.5 | 1.1 | 水 | ≤150℃ |
| G141 | 1.6 | 2.4 | 1.8 | 水 | ≤150℃ |
| G141 | 1.6 | 2.4 | 1.8 | 水 | ≤150℃ |

主要尺寸 (1.0mpa) Main dimension (1.0mpa)

| 尺寸 Type | 规格 Type | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 |
|----------------|------------|------|------|------|------|------|------|------|-------|-------|
| t | | 170 | 21 | 220 | 285 | 290 | 330 | 480 | 590 | 675 |
| H | | 65 | 65 | 165 | 200 | 215 | 260 | 330 | 480 | 500 |
| D | | 160 | 180 | 195 | 215 | 245 | 280 | 335 | 390 | 440 |
| D ₁ | | 125 | 145 | 160 | 180 | 210 | 240 | 295 | 350 | 400 |
| T | | 20 | 20 | 22 | 24 | 26 | 26 | 28 | 28 | 28 |
| Z-φ-D | | 4-18 | 4-18 | 8-18 | 8-18 | 8-18 | 8-23 | 8-23 | 12-23 | 12-23 |

SSLW型滤网伸缩器

SSLW type filter screen expansion bend

主要性能规范

1×1-50-600水平螺旋式水表由于其本身不带有滤网, 在使用中如管道内杂质(如泥沙、水草、水石块等)较多往往使水且停走或影响其快慢。为此必须在水源进口管道上安装“滤水箱”。但是该系列水表由于口径较大, 且两端与管道采用法兰连接, 为了方便安装及维修水表, 一端需要安装伸缩器。

滤网伸缩, 是最新设计一物两用, 具有结构紧凑, 安装尺寸小, 重量轻的新型给排水产品。

Main performance specification:
Without filter screen, the 1×1-50-600 horizontal spiral type water meter often become wet with water and stop or affect the speed during its running if there are many impurities (such as sand, water grass and water stone as so on) in the pipe. Therefore, water filter box should be installed on the water inlet pipe. But the caliber of the water meters of this series is large and flange connection is adopted between their two ends and the pipe, so an expansion bend should be installed on one end for the convenience of the installation and maintenance of water meter.
Filter screen expansion is a newest type of water supply and drainage product with two functions, compact structure, small installation and light weight.

主要安装数据表 Main installation data sheet

| DN | 1安 Ab. | L小 Small | L大 Large | D | D ₁ | H | d | 孔数 Holes |
|-----|-----------|-------------|-------------|-----|----------------|-----|----|-------------|
| 50 | 340 | 300 | 360 | 125 | 160 | 90 | 18 | 4 |
| 80 | 340 | 300 | 360 | 160 | 195 | 105 | 18 | 4 |
| 100 | 360 | 325 | 390 | 180 | 215 | 112 | 18 | 4 |
| 150 | 365 | 330 | 400 | 240 | 280 | 145 | 23 | 8 |
| 200 | 400 | 370 | 460 | 295 | 335 | 175 | 23 | 8 |
| 250 | 410 | 380 | 470 | 350 | 390 | 205 | 23 | 12 |
| 300 | 450 | 420 | 510 | 400 | 440 | 230 | 23 | 12 |
| 400 | 450 | 410 | 550 | 515 | 565 | 295 | 25 | 16 |
| 500 | 460 | 510 | 650 | 620 | 670 | 345 | 25 | 20 |
| 600 | 460 | 510 | 650 | 725 | 780 | 350 | 30 | 20 |

技术条件 Technical Conditions

| 项目公称口径 Project DN | 1SS80-200 |
|---------------------------|--------------|
| 适用介质 Applicable medium | 水 Water |
| 工作压力 Applicable medium | ≤1MPa |
| 适用温度 Applicable medium | ≤110℃ |
| 连接方法 Applicable medium | 法兰 Flange |

CWQ除污器 CWQ cleaner



用途：该阀适用于温度≤200℃R的管网上过滤杂质之用。
Use: the valve is applicable to the pipeline temperature are less than 200 R for filtering impurities on.

主要连接尺寸 Main connection dimensions

| DN | I | D | D ₁ | D ₂ | d | B | Z-d | H ₁ | H ₂ |
|-----|-----|-----|----------------|----------------|----|----|-------|----------------|----------------|
| 25 | 160 | 115 | 85 | 65 | 14 | 16 | 4-14 | 16 | 105 |
| 32 | 180 | 140 | 100 | 78 | 18 | 18 | 4-14 | 18 | 110 |
| 40 | 200 | 150 | 110 | 88 | 18 | 18 | 4-14 | 18 | 115 |
| 50 | 230 | 165 | 125 | 102 | 18 | 20 | 4-18 | 20 | 140 |
| 65 | 290 | 185 | 145 | 122 | 18 | 20 | 4-18 | 20 | 140 |
| 80 | 310 | 200 | 160 | 133 | 18 | 22 | 8-18 | 22 | 150 |
| 100 | 350 | 220 | 180 | 158 | 18 | 22 | 8-18 | 22 | 150 |
| 125 | 400 | 250 | 210 | 184 | 20 | 22 | 8-18 | 22 | 155 |
| 150 | 480 | 285 | 240 | 212 | 22 | 24 | 8-22 | 24 | 190 |
| 200 | 495 | 340 | 295 | 268 | 22 | 24 | 12-22 | 24 | 190 |
| 250 | 622 | 405 | 366 | 320 | 25 | 26 | 12-26 | 26 | 235 |
| 300 | 689 | 460 | 410 | 375 | 25 | 28 | 12-26 | 28 | 260 |
| 350 | 787 | 520 | 470 | 430 | 28 | 36 | 16-25 | 36 | 270 |
| 400 | 914 | 580 | 525 | 482 | 30 | 38 | 16-26 | 38 | 290 |

主要性能规范 The main performance specifications

| 公称压力Nominal pressure | | |
|----------------------|-----------------------|------|
| 实验Experiment | 密封强度The seal strength | 1.76 |
| 压力Pressure | | 2.4 |

主要零件材料 Materials of main parts

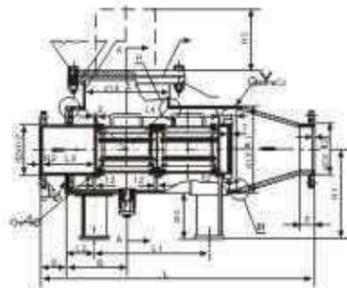
| 零件名称Part name | 材料Material Science |
|-------------------|--------------------|
| 阀体The valve body | 碳钢Carbon steel |
| 阀盖The valve cover | 碳钢Carbon steel |
| 过滤网The filter net | 不锈钢Stainless steel |

立式直通除污器 Vertical straight through cleaner

安装使用事项

- 1、图示水流方向适用于地沟、检查井内的安装。室内安装时，可反方向设置，有利于杂质沉淀、延长检修时间。
- 2、焊接方法除图中标明外，其余均为周边角焊，焊接高度不小于被焊件的最小厚度。

The installation and use of matters
1, the flow direction is suitable for cooking, graphic inspection well installation. Indoor installation, can reverse direction setting, in favor of impurities Precipitation, prolong the maintenance time.
2, welding method in addition to map indicating the outside, the rest are around the corner welding, welding height of not less than the minimum thickness of the weldment was.



主要连接尺寸 Main connection dimensions

| 公称口径 (mm) | d1×s1 (273X45) | D2×s2 (291X6) | M | B | L1 | L2 | L3 | L4 | L | E | F | C | n | G | K1 | K2 | K | H1 | H2 | H | 螺栓Bolt | | |
|--------------|-------------------|------------------|--------------|-----|-----|-----|-----|-----|------|-----|----|----|---|-----|----|----|------------|------|-----|------|----------------------|--------------|--------------|
| | | | | | | | | | | | | | | | | | | | | | 规格 Specifications | 数量 Number | 重量(kg) |
| 150 | 73X5 (273X45) | 159X45 | 230 (232) | 225 | 335 | 110 | 237 | 360 | 932 | 110 | 70 | 45 | 4 | 180 | 10 | 6 | 8 (6) | 3365 | 300 | 5975 | M20X80 (M16X70) | 12 | 101 (87.6) |
| 200 | 77X6 (273X5) | 291X6 | 290 (296) | 270 | 465 | 140 | 240 | 520 | 1197 | 110 | 70 | 60 | 4 | 250 | 11 | 8 | 10 (8) | 3885 | 370 | 7155 | M20X90 (M20X80) | 16 (12) | 183(152) |
| 250 | 26X7 (426X7) | 273X65 | 330 (336) | 300 | 520 | 150 | 253 | 580 | 1272 | 110 | 70 | 60 | 4 | 280 | 11 | 10 | 12 (10) | 413 | 420 | 783 | M22X90 (M20X80) | 16 | 245.5(191.4) |
| 300 | 480X7 (480X5) | 325X75 | 358 (364) | 350 | 565 | 170 | 292 | 620 | 1362 | 110 | 75 | 60 | 5 | 320 | 11 | 10 | 9 (7) | 440 | 475 | 840 | M22X90 (M20X80) | 20 (16) | 314.1(249.2) |
| 350 | 532X8 (530X6) | 377X9 | 389 (397) | 370 | 590 | 180 | 312 | 660 | 1417 | 120 | 75 | 60 | 5 | 350 | 11 | 11 | 10 (8) | 465 | 525 | 900 | M27X100 (M20X90) | 20 (16) | 408.5(324.2) |
| 400 | 30X9 (630X6) | 426X9 | 440 (448) | 435 | 740 | 220 | 337 | 840 | 1737 | 125 | 80 | 75 | 6 | 420 | 11 | 11 | 11 (8) | 585 | 580 | 1005 | M27X110 (M22X100) | 20 | 611.5(461) |
| 450 | 720X10 (720X7) | 480X9 | 534 (544) | 490 | 890 | 240 | 372 | 980 | 1992 | 140 | 85 | 90 | 6 | 470 | 11 | 11 | 13 (10) | 560 | 650 | 1150 | M27X130 (M22X100) | 24 | 878.1(650.5) |

法兰系列蝶阀尺寸表(一) Flange series of butterfly valve size table (A)

法兰式双向软密封手动蝶阀(D341X / D343X), 伸缩式双向软密封手动法兰蝶阀(SD341X / SD343X)、法兰式硬密封手动蝶阀(D341H/D343H), 伸缩式硬密封手动双法兰蝶阀(SD341H/SD343H)、电动双法兰式蝶阀(D941X)、气动双法兰式蝶阀(D641X)、双法兰式管网自锁蝶阀(GD341X)。

Flange type bidirectional soft sealing manual butterfly valve (D341X / D343X), telescopic bidirectional soft sealing manual butterfly valve flange (SD341X / SD343X), flange type manual butterfly valve hard seal(D341H/D343H), telescopic seal manual double flanged butterfly valve (SD341H/S D343H), electric double flange type butterfly valve (D941X), pneumatic double flange type butterfly valve (D641X), dual method Flange type pipeline self-locking butterfly valve (GD341X).

| 规格 DN | H1 | H2 | H3 | L2 | 伸缩筒 L1 | Φ/D1 | 1.0MPa | | | | | 1.6MPa | | | | |
|----------|------|------|-----|------|-----------|------|--------|------|----------------|--------|--------|--------|------|----------------|--------|--------|
| | | | | | | | H | D | D ₁ | n-d | 螺栓 | H | D | D ₁ | n-d | 螺栓 |
| 100 | 115 | 242 | 248 | 127 | 190±15 | 150 | 605 | 220 | 180 | 8-φ18 | 8-M16 | 482 | 220 | 180 | 8-φ18 | 8-M16 |
| 125 | 130 | 245 | 248 | 140 | 200±15 | 150 | 623 | 250 | 210 | 8-φ18 | 8-M16 | 500 | 250 | 210 | 8-φ18 | 8-M16 |
| 150 | 145 | 277 | 248 | 140 | 210±15 | 150 | 670 | 285 | 240 | 8-φ22 | 8-M20 | 547 | 285 | 240 | 8-φ18 | 8-M16 |
| 200 | 175 | 320 | 333 | 152 | 230±15 | 200 | 828 | 340 | 295 | 8-φ22 | 8-M20 | 653 | 340 | 295 | 12-φ22 | 12-M20 |
| 250 | 210 | 350 | 333 | 165 | 250±15 | 200 | 893 | 395 | 350 | 12-φ22 | 12-M20 | 722 | 405 | 355 | 12-φ26 | 12-M24 |
| 300 | 240 | 405 | 342 | 178 | 270±15 | 250 | 987 | 445 | 400 | 12-φ22 | 12-M20 | 827 | 460 | 410 | 12-φ26 | 12-M24 |
| 350 | 262 | 438 | 342 | 190 | 290±20 | 250 | 1042 | 505 | 460 | 16-φ22 | 16-M20 | 885 | 520 | 470 | 16-φ26 | 16-M24 |
| 400 | 290 | 480 | 342 | 216 | 310±20 | 320 | 1112 | 565 | 515 | 16-φ26 | 16-M24 | 1000 | 580 | 525 | 16-φ30 | 16-M27 |
| 450 | 315 | 505 | 342 | 222 | 330±20 | 320 | 1162 | 615 | 565 | 20-φ26 | 20-M24 | 1052 | 640 | 585 | 20-φ30 | 20-M27 |
| 500 | 350 | 540 | 342 | 229 | 350±25 | 320 | 1232 | 670 | 620 | 20-φ26 | 20-M24 | 1122 | 715 | 650 | 20-φ33 | 20-M30 |
| 600 | 400 | 640 | 437 | 267 | 390±30 | 500 | 1477 | 780 | 725 | 20-φ30 | 20-M27 | 1215 | 840 | 770 | 20-φ36 | 20-M33 |
| 700 | 460 | 720 | 437 | 292 | 430±30 | 500 | 1617 | 895 | 840 | 24-φ30 | 24-M27 | 1360 | 910 | 840 | 24-φ36 | 24-M33 |
| 800 | 520 | 770 | 383 | 318 | 470±35 | 500 | 1673 | 1015 | 950 | 24-φ33 | 24-M30 | 1580 | 1025 | 950 | 24-φ39 | 24-M36 |
| 900 | 570 | 830 | 383 | 330 | 510±35 | 500 | 1783 | 1115 | 1050 | 28-φ33 | 28-M30 | 1670 | 1125 | 1050 | 28-φ39 | 28-M36 |
| 1000 | 640 | 900 | 383 | 410 | 550±40 | 500 | 1923 | 1230 | 1160 | 28-φ36 | 28-M33 | 1810 | 1255 | 1170 | 28-φ42 | 28-M39 |
| 1200 | 771 | 1029 | 383 | 470 | 630±40 | 500 | 2183 | 1455 | 1380 | 32-φ39 | 32-M36 | 2085 | 1485 | 1390 | 32-φ54 | 32-M48 |
| 1400 | 880 | 1175 | 408 | 530 | 710±50 | 500 | 2463 | 1675 | 1590 | 36-φ42 | 36-M39 | | | | | |
| 1600 | 980 | 1260 | 408 | 600 | 790±50 | 500 | 2648 | 1915 | 1820 | 40-φ48 | 40-M42 | | | | | |
| 1800 | 1100 | 1380 | 408 | 670 | 870±60 | 500 | 2888 | 2115 | 2020 | 44-φ48 | 44-M42 | | | | | |
| 2000 | 1278 | 1525 | 408 | 760 | 950±60 | 500 | 3211 | 2325 | 2230 | 48-φ48 | 48-M42 | | | | | |
| 2200 | 1512 | 1519 | 408 | 800 | | 500 | 3506 | 2550 | 2440 | 52-φ56 | 52-M52 | | | | | |
| 2400 | 1768 | 1748 | 408 | 900 | | 610 | 3924 | 2760 | 2650 | 56-φ56 | 56-M52 | | | | | |
| 2600 | 1868 | 1847 | 430 | 1000 | | 610 | 4145 | 2960 | 2850 | 60-φ56 | 60-M52 | | | | | |
| 2800 | 1968 | 1946 | 430 | 1100 | | 610 | 4344 | 3180 | 3070 | 64-φ56 | 64-M52 | | | | | |
| 3000 | 2068 | 2048 | 430 | 1200 | | 610 | 4546 | 3405 | 3290 | 68-φ62 | 68-M56 | | | | | |

注：
阀门设计制造按国家标准：
GB12238-89
阀门结构长度按国家标准：
GB12221-89
法兰连接尺寸按国家标准：
GB/T9115.1-2000、
GB/T172416-98
阀门压力试验按国家标准：
GB/T13927-92
表中L2尺寸为伸缩蝶阀安装长度
及伸缩量
电动和气动部分尺寸根据所用电动
装置的厂家的型号而改变。

软密封蝶阀

Soft seal butterfly valve

D341X 0.6/1.0/1.6MPa双法兰式双向软密封手动蝶阀
D341X 0.6/1.0/1.6MPa dual bidirectional soft sealing flange manual butterfly



D371X 0.6/1.0/1.6MPa对夹式双向软密封手动蝶阀
D371X 0.6/1.0/1.6MPa Wafer soft seal bi-manual butterfly



D341X 0.6/1.0/1.6MPa双法兰式管网自锁蝶阀
D341X 0.6/1.0/1.6MPa double flanged pipe network self-locking butterfly



软密封蝶阀

Soft seal butterfly valve

D371X 0.6/1.0/1.6MPa对夹式管网自锁蝶阀
D371X 0.6/1.0/1.6MPa clip-pipe network self-locking butterfly



D941X 0.6/1.0/1.6MPa电动双法兰式蝶阀
D941X 0.6/1.0/1.6MPa electric double flanged butterfly valve



D971X 0.6/1.0/1.6MPa电动对夹式蝶阀
D971X 0.6/1.0/1.6MPa Electric Wafer Butterfly



软密封蝶阀

Soft seal butterfly valve

D641X 0.6/1.0/1.6MPa气动双法兰式蝶阀
D641X 0.6/1.0/1.6MPa pneumatic double flanged butterfly valve



D671X 0.6/1.0/1.6MPa气动对夹式蝶阀
D671X 0.6/1.0/1.6MPa Pneumatic wafer butterfly valve



SD341X 0.6/1.0/1.6MPa(专利产品)伸缩式双向软密封手动双法兰蝶阀
SD341X 0.6/1.0/1.6MPa (patent products) retractable bi-manual dual flanged soft-sealed butterfly valve



硬密封蝶阀

Hard sealing butterfly valve

D341H 0.6/1.0/1.6MPa法兰式硬密封手动蝶阀
D341X 0.6/1.0/1.6MPa manual butterfly hard seal flange



D371H 0.6/1.0/1.6MPa对夹式硬密封手动蝶阀
D371H 0.6/1.0/1.6MPa Wafer hard seal butterfly valve manually



SD341H 0.6/1.0/1.6MPa伸缩式硬密封手动双法兰蝶阀
SD341H 0.6/1.0/1.6MPa manual dual retractable hard sealing butterfly valve flange



中华人民共和国法兰标准

| 工程 通径 DN | PN6 | | | PN10 | | | PN16 | | | PN25 | | | | |
|----------------|---------|---------|-----------------------|---------|----------------------|---------|----------|---------|---------|-----------------------|---------|----------------------|---------|----------|
| | 内径 D | 外径 D | 中心 距D ₀ | 厚度 b | 孔径 d ₁ | 孔数 n | 重量 kg | 内径 D | 外径 D | 中心 距D ₀ | 厚度 b | 孔径 d ₁ | 孔数 n | 重量 kg |
| 32 | 38 | 120 | 90 | 16 | φ14 | 4 | 1.097 | 38 | 135 | 100 | 16 | φ18 | 4 | 1.6 |
| 40 | 48 | 130 | 100 | 16 | φ14 | 4 | 1.219 | 48 | 145 | 110 | 18 | φ18 | 4 | 2.00 |
| 50 | 57 | 140 | 110 | 16 | φ14 | 4 | 1.348 | 57 | 160 | 125 | 18 | φ18 | 4 | 2.61 |
| 65 | 76 | 160 | 130 | 16 | φ14 | 4 | 1.67 | 76 | 180 | 145 | 20 | φ18 | 4 | 3.45 |
| 80 | 89 | 185 | 150 | 18 | φ18 | 4 | 2.48 | 89 | 195 | 160 | 20 | φ18 | 4 | 3.71 |
| 100 | 108 | 205 | 170 | 18 | φ18 | 4 | 2.89 | 108 | 215 | 180 | 22 | φ18 | 4 | 4.8 |
| 125 | 133 | 235 | 200 | 20 | φ18 | 8 | 3.94 | 133 | 245 | 210 | 24 | φ18 | 8 | 6.47 |
| 150 | 159 | 260 | 225 | 20 | φ18 | 8 | 4.47 | 159 | 280 | 240 | 24 | φ23 | 8 | 7.92 |
| 200 | 219 | 315 | 280 | 22 | φ18 | 8 | 6.07 | 219 | 335 | 295 | 24 | φ23 | 8 | 10.1 |
| 250 | 273 | 370 | 335 | 24 | φ18 | 12 | 8.03 | 273 | 390 | 350 | 26 | φ23 | 12 | 15.7 |
| 300 | 325 | 435 | 395 | 24 | φ23 | 12 | 10.3 | 325 | 440 | 400 | 28 | φ23 | 12 | 18.1 |
| 350 | 377 | 485 | 445 | 26 | φ23 | 12 | 12.59 | 377 | 500 | 460 | 28 | φ23 | 16 | 23.3 |
| 400 | 426 | 535 | 495 | 28 | φ23 | 16 | 15.2 | 426 | 565 | 515 | 30 | φ26 | 16 | 31 |
| 450 | 478 | 590 | 550 | 28 | φ23 | 16 | 17.59 | 478 | 615 | 565 | 30 | φ26 | 16 | 40.2 |
| 500 | 529 | 640 | 600 | 30 | φ23 | 20 | 20.67 | 529 | 670 | 620 | 32 | φ26 | 20 | 55.7 |
| 600 | 630 | 755 | 705 | 30 | φ25 | 20 | 26.57 | 630 | 780 | 725 | 36 | φ30 | 20 | 80.3 |
| 700 | 724 | 860 | 810 | 32 | φ25 | 24 | 37.1 | 724 | 895 | 840 | 36 | φ30 | 24 | 83.76 |
| 800 | 824 | 975 | 920 | 32 | φ30 | 24 | 46.2 | 824 | 1010 | 950 | 38 | φ34 | 24 | 118.97 |
| 900 | 924 | 1075 | 1020 | 34 | φ30 | 24 | 55.1 | 924 | 1110 | 1050 | 42 | φ34 | 28 | 186.111 |
| 1000 | 1024 | 1175 | 1120 | 36 | φ30 | 28 | 67.3 | 1024 | 1220 | 1160 | 44 | φ36 | 28 | 196.151 |
| 1200 | 1224 | 1400 | 1340 | 40 | φ34 | 32 | 92 | 1224 | 1450 | 1380 | 48 | φ39 | 32 | 284.208 |
| 1400 | 1424 | 1620 | 1560 | 44 | φ36 | 36 | 142 | 1424 | 1675 | 1590 | 54 | φ42 | 36 | 358.232 |
| 1600 | 1624 | 1820 | 1760 | 48 | φ36 | 40 | 170 | 1624 | 1915 | 1820 | 62 | φ48 | 40 | 512.383 |
| 1800 | 1824 | 2046 | 1970 | 50 | φ39 | 44 | 239 | 1824 | 2115 | 2020 | 66 | φ48 | 44 | |
| 2000 | 2024 | 2265 | 2180 | 54 | φ42 | 48 | 292 | 2024 | 2325 | 2230 | 72 | φ48 | 48 | |
| 2200 | 2226 | 2475 | 2390 | 60 | φ42 | 52 | 367.6 | 2226 | 2550 | 2440 | 72 | φ56 | 52 | |
| 2400 | 2426 | 2685 | 2600 | 62 | φ42 | 56 | 433.7 | | | | | | | |
| 2600 | 2626 | 2900 | 2810 | 64 | φ48 | 60 | 501.8 | | | | | | | |
| 2800 | 2826 | 3110 | 3020 | 68 | φ48 | 64 | 600 | | | | | | | |
| 3000 | 3026 | 3310 | 3220 | 70 | φ48 | 68 | 660.8 | | | | | | | |

