

一流的技术 一流的产品 一流的服务



产品质量是企业的生命
服务态度是企业的灵魂

郑州宏泽阀门
ZHENGZHOUHONGZEFAMEN

郑州宏泽阀门管道设备有限公司

Zhengzhou Hongze Valve & Pipeline Equipment Co., Ltd.

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First class technology First class products First class service



COMPANY

INTRODUCTION 企业简介

郑州宏泽阀门管道设备有限公司(以下简称宏泽阀门)成立于2017年, 公司位于河南省郑州市, 是一家高级管道制造企业。

宏泽阀门的主要产品:橡胶膨胀节, 金属膨胀节, 金属编织软管, 拆装节等各种产品广泛用于给水, 排水, 污水处理厂, 电力冶金, 城市建设, 石油化工医院, 酒店, 供热管道, 环保产业等领域。经过8年的艰苦探索和先进的生产技术, 宏泽阀门已建立了一支经验丰富的服务团队, 并由专业工程师为客户提供设计方案。与海外有实力的公司进行长期的交流与合作, 不仅使公司的产品保持了较高的国际水平, 而且赢得了广泛的国际市场。产品远销俄罗斯, 哈萨克斯坦阿塞拜疆, 土耳其, 科威特, 南非, 埃及, 越南, 马来西亚, 印度, 澳大利亚韩国等加拿大和欧盟等国家和地区。到目前为止, 公司产品已通过ISO9001国际质量管理体系认证, 许多产品已获得国家外观专利, 实用新型专利等多项专利。公司理念:“产品是企业的核心竞争力, 质量是企业的永恒生命线, 服务是企业的第二生命力”

公司愿景:不断追求创新和技术管理, 竭诚为用户提供一流的技术, 一流的产品, 一流的服务, 以品牌占领市场, 真诚服务全球用户

Zhengzhou Hongze Valve Pipeline Equipment Co., Ltd. (hereinafter referred to as Hongze Valve) was established in 2017 and is located in Zhengzhou, Henan Province, China. It is a high-level pipeline manufacturing enterprise.

Hongze Valve's main products include rubber expansion joints, metal expansion joints, metal braided hoses, and dismantling joints. These products are widely used in water supply, drainage, sewage treatment plants, electric power and metallurgy, urban construction, petrochemical, hospitals, hotels, heating pipelines, and environmental protection industries.

After eight years of dedicated exploration and advanced production technology, Hongze Valve has built an experienced service team, with professional engineers providing customized design solutions for customers. Through long-term cooperation with powerful overseas companies, the company has not only maintained a high international standard for its products but also gained a broad international market.

Our products are exported to Russia, Kazakhstan, Azerbaijan, Turkey, Kuwait, South Africa, Egypt, Vietnam, Malaysia, India, Australia, South Korea, Canada, and EU countries, among others. Up to now, the company has obtained ISO9001 international quality management certification, and many of its products have been awarded national design patents and utility model patents.

Corporate Philosophy: "Product is the core competitiveness of the enterprise; quality is the eternal lifeline; and service is the second vitality of the enterprise."

Corporate Vision: To continuously pursue innovation and technical excellence, and wholeheartedly provide users with first-class technology, first-class products, and first-class services. Hongze Valve aims to build its brand through quality and sincerely serve customers worldwide.



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First class technology First class products First class service



➤ **精益求精 服务至上**
KEEP IMPROVING
AND SERVICE FIRST
高技术、高品质、高服务、高信誉

CULTURE

INTRODUCTION 企业文化

产品 企业核心竞争力

Product Core competitiveness of the enterprise

15年的经验，传承与创新，碰撞出耀眼的火花。我们把握时代脉搏，关爱客户需求，在管道这片热土上辛勤耕耘。我们主要生产橡胶接头，波纹补偿器，金属软管，膨胀接头和全球石油、化工、冶金、电力、建筑、供热、供水等行业为客户提供更高品质、更高标准的体验，创造无与伦比的竞争力

With 15 years of experience, inheritance and innovation collide with dazzling sparks. We grasp the pulse of the times, love customers' needs, and intensively work on the hot soil of the pipeline. We mainly produce rubber joints, corrugated compensators, metal hoses, expansion joints, and global oil, chemical, metallurgical, electric power, construction, heat, water supply and other industries to provide customers with higher quality, higher standards of experience, to create unparalleled competitiveness

质量 企业永恒生命力

Quality Enteral lifeline of the enterprise

公司坚持ISO9001质量管理体系，产品设计制造过程严格执行国际标准。我们始终坚持以“诚实守信、追求卓越”的质量目标，严格把控质量，从每一个环节、每一个过程进行质量控制。

We adhere to the ISO9001 quality management system, and the product design and manufacturing processes strictly implement international standards. We always adhere to the quality goal of "honesty and compliance, the pursuit of excellence", strictly control the quality, and carry out quality control from every link and every process.

服务 企业的第二生命力

Service second vitality of the enterprise

我们致力于打造“一站式、专业化”的服务。服务链包括预咨询、方案设计、设备生产、每台机器出厂前的检验、客户满意度调查回访。

We are committed to creating a "one-stop, professional" service. The service chain runs through pre-consultation, program design, equipment production, inspection of each machine before shipment, and customer satisfaction survey return visit.



生产现场 Production Site



发货现场 Delivery





工程案例 Project Cases



工程案例 Project Cases





产品索引 Product index



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可曲挠橡胶接头
Flexible rubber joint



page04

KXT型单球体可曲挠橡胶接头
KXT type single sphere flexible rubber joint



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KST型双球体橡胶接头
KST type double sphere rubber joint



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KDF型可曲挠高压单球橡胶接头
KDF flexible high pressure single sphere rubber joint



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KDF型可曲挠高压双球橡胶接头
KDF flexible high pressure double sphere rubber joint



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JDX型异径橡胶接头
JDX type reducing rubber joint



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



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JGD(KXT)型卡箍式橡胶接头
JGD (KXT) type clamp rubber joint



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WTX型可曲挠橡胶弯头
WTX type flexible rubber bent



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



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JGD-B型限位螺纹连接橡胶接头
JGD-B threaded type rubber joint



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负压橡胶接头
Negative pressure rubber joint



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负压橡胶接头
Negative pressure rubber joint



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衬四氟橡胶接头
PTFE-lined rubber joint



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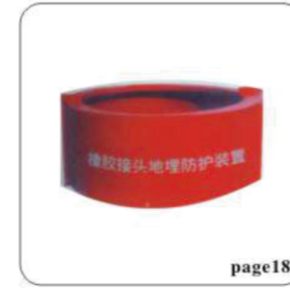
法兰式橡胶鸭嘴阀
Flange type rubber duckbill valve



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卡箍式橡胶鸭嘴止回阀
clamp type rubber duckbill check valve

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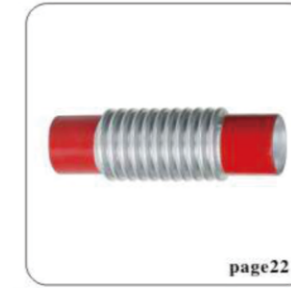
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可曲挠橡胶接头埋地防护装置
Buried protective device of flexible rubber joint



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JDZ型波纹管补偿器
JDZ Bellows compensators



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JDZ焊接波纹管补偿器
JDZ Welding Bellows Compensators



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JTW型金属软管
JTW Flexible metal hose



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风机盘管接头
Fan coil connector



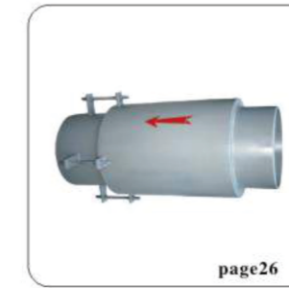
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四氟波纹补偿器
Tetrafluoro ripple compensator



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JZM型直埋内压轴向型波纹补偿器
JZM Type Direct Embedded Internal Pressure Axial Corrugation Compensator



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JZW型轴向外压式波纹补偿器
JZW Type Axial External Pressure Corrugation Compensator



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BW无约束型波纹补偿器
BW unconstrained ripple compensator



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轴向型复式波纹补偿器
Axial type compound ripple compensator



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轴向型复式波纹补偿器
Axial type compound ripple compensator



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JWJ单式万向铰链型波纹补偿器
JWJ Single Universal Hinge Corrugation Compensator



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JLJ单式铰链型波纹补偿器
JLJ single hinge type ripple compensator



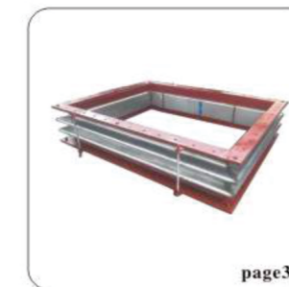
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JXH小拉杆轴向型波纹补偿器
JXH small pull rod axial corrugation compensator



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JDH大拉杆横向型波纹补偿器
JDH large tie rod transverse corrugation compensator



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FGFB型矩形单波膨胀节
Fibroblast Type Rectangular Single-Wave Expansion Joint



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FGFB型矩形多波膨胀节
Fibroblast type rectangular double
-wave expansion joint



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BYZMF煤粉管道三向型波纹补偿器
Byzmf pulverized coal pipeline three-
Directional corrugation compensator



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DBHKXW型大波纹板盒型
可限位伸缩补偿器
Dibkxw limited telescopic compensator with large corrugated plate box



page35

DBHKXW型大波纹板盒型
可限位伸缩补偿器
Dibkxw limited telescopic compensator with large corrugated plate box



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VSSJA-1 (BF) 型单法兰限位伸缩接头
VSSJA-1 (BF) Single Flange Limited
Telescopic Joint



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VSSJA-2 (B2F) 型双法兰限位伸缩接头
VSSJA-2 (B2F) Double Flanged Limited
Telescopic Joint



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VSSJAFG (CF) 型单法兰传力接头
VSSJAFG(CF) Single Flange Force
Transfer Joint



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VSSJAF (C2F) 型双法兰传力接头
VSSJAF (C2F) Double Flanged Force
Transfer Joint



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VSSJAFG(CC2F)型可拆式双法兰松套传力接头
VSSJAFG (CC2F) detachable double flanged
loose sleeve force transfer joint



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VSSJA (AF) 型法兰式松套伸缩接头
VSSJA(AF) Flanged Sleeve
Expansion Joint



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SSJB (AY) 型压盖式松套伸缩接头
SSJB (AY) type gland-type loose sleeve
expansion joint



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SSJB-3 (BY) 型压盖式松套限位伸缩接头
SSJB-3 (BY) type gland type loose sleeve
limit expansion joint



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D型大挠度松套补偿接头
D-type large deflection loose sleeve
compensating joint



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SSQ型钢伸缩器
SSQ steel stretcher



page45

铸铁伸缩器
Cast iron stretcher



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KRHD型钢柔性接头
KRHD Steel Flexible Joint

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



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



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E型球型补偿接头
E-type flange ball-joint



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



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



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



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



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02S404柔性防水套管
02S404 flexible waterproof sleeve



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02S404刚性防水套管
02S404 Rigid Waterproof Casing



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04FS02柔性密闭套管
04FS02 Flexible Sealed Casing



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04FS02刚性密闭套管
04FS02 Rigid Sealed Casing



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07FK02通风套管
07FK02 Ventilation Casing



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07FD02穿墙管密闭肋
07FD02 Wall-piercing Tube Sealing Rib



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



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



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



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可曲挠橡胶接头 Flexible rubber joint

产品特性

可曲挠橡胶接头又可称为：橡胶软连接、软接头、柔性橡胶接头、橡胶膨胀节、避震喉、减震器等，是一种高弹性、高气密性、耐介质和耐候性的管道接头。它的性能特点：1、体积小、重量轻、弹性好、安装维修方便。2、安装时可吸收管道震动产生的横向、轴向、角向位移；不受管道不同心，法兰不平行的限制。3、工作时可降低管道水泵等震动产生的噪音，吸振能力强。4、我们自主研发的内无缝高压橡胶接头，在耐高温、耐酸碱、耐油的管道中更有效地防止了腐蚀性介质对橡胶接头内壁的侵蚀，提高了使用寿命。

Product Features

The Flexible rubber joint also called rubber expansion joint, flex rubber joint, rubber bellow joint, compensator, shock absorber, with high flexible, high air tightness, medium resistance, and weather resistance. The Performance Feature: 1. Small Size, light weight, good elasticity, easy to install and maintenance. 2. It can absorb the displacement from axial lateral and angular when doing the installation. This will not limited by the different flats of pipes and flanges. 3. This can reduce the vibration and noise when the pipeline and pump working. 4. The Seamless high pressure rubber joints from our independent research can prevent the corrosion for the inner of the pipe which is under the working environment of high temperature, acid and Alkali and oil, and this also can increase the using life.



防拉脱装置
Limit tie rods

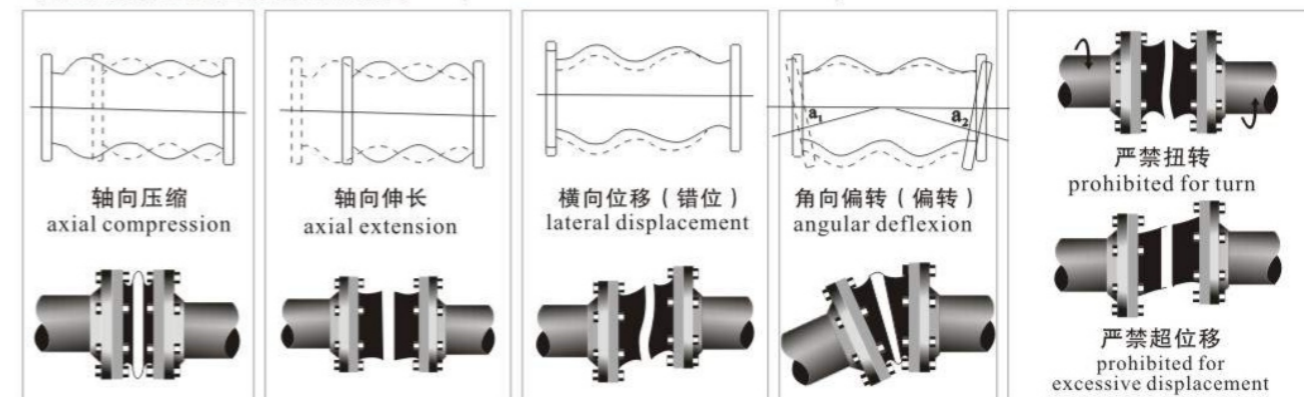
使用范围

由于可曲挠橡胶接头具有良好的综合性能，所以它广泛用于化工、建筑、给水、排水、石油、轻重工业、冷冻、卫生、水暖、消防、电力等基础工程。

Use scope

As the flexible rubber joint has good comprehensive properties, it is widely used in chemical industry, construction, water supply, drainage, oil, light and heavy industry, refrigeration, sanitation, plumbing, fire fighting, Electrical Power Engineering and so on.

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





限位可曲挠橡胶接头 Flexible rubber Joint with Tie Rod

产品特性

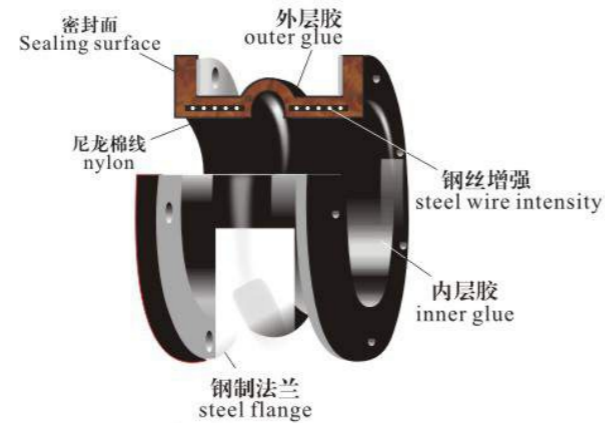
防拉脱装置也称限位防拉脱装置，是在原有产品性能的基础上增设限位装置，管道在允许的伸缩量中可以自由伸缩，一旦超过其最大伸缩量就起到限位，确保管道的安全运行，特别适用于有振动或有一定斜度及拐弯的管路中的连接。高层给水使用橡胶接头时，管道必须有固定支撑或固定托架，否则产品应安装防拉脱装置。

Product Features

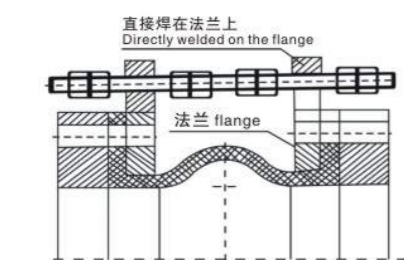
Tie Rod also called Limited Device. It is an additional device on the original products, and this device can make the pipe expands freely in the allowable amount of expansion rate. Make sure in the safe operation of pipeline. Especially use in the vibration or a certain degree of inclination and turn of the pipe. When rubber joints are used for high floor water supply, the pipe must have a fixed support or fixed bracket, or the products must with the Limited device.



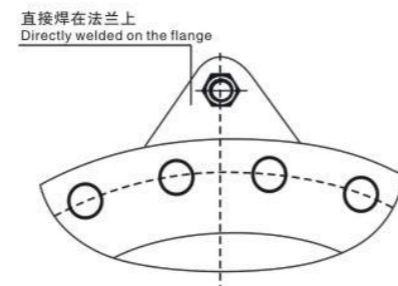
防拉脱装置
Limit tie rods



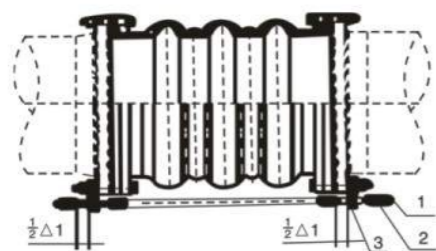
橡胶接头剖析图
Profile chart of rubber joint



直接焊在法兰上
Directly welded on the flange



直接焊在法兰上
Directly welded on the flange



1. 限位螺杆 2. 螺母 3. 限位块
1. Tie Rods 2. Nut 3. Limited Block

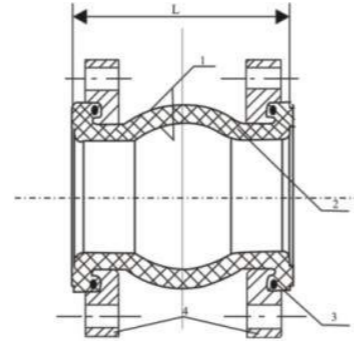
橡胶材质推荐选用表 Recommended rubber material table

流体 Fluid		天然胶 NR	丁基胶 Butyl rubber	丁腈胶 NBR	氯丁胶 Neoprene	乙丙胶 Ethylene-propylene rubber	硅胶 Silicone	氟胶 Fluorine rubber	氯醇橡胶 Epichlorohydrin rubber	
名称 Name	℃	NR	LLR	NBR	CR	EPDM	Si	-	GHR	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	AB	-	-
硫酸 Sulfuric acid (30%)	RT	-	-	-	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：“RT”为常温，“AB”为推荐使用，“B”为根据条件使用。

Note: “RT” is Normal temperature, “AB” is Recommended use, “B” Use according to conditions.

KXT型单球体可曲挠橡胶接头 KXT type single sphere flexible rubber joint



主要连接尺寸 Main connection dimensions

公称通径DN Nominal diameter DN		长度 Length L (mm)	轴向位移 Axial displacement		横向位移 Lateral displacement (mm)	偏转角度 Deflexion angle (a1+a2)
DN	inch		伸长 Extension	压缩 Compression		
32	1.25	95/130/152	6	9	9	15
40	1.5	95/130/152	6	10	9	15
50	2	105/130/152	7	10	10	15
65	2.5	115/130/152	7	13	11	15
80	3	130/135/152	8	15	12	15
100	4	130/135/150	10	19	13	15
125	5	130/152/165	12	19	13	15
150	6	130/152/180	12	20	14	15
200	8	130/152/180/200/210	16	25	22	15
250	10	130/200/230/240	16	25	22	15
300	12	130/200/245/260	16	25	22	15
350	14	200/255/265	16	25	22	15
400	16	200/255/265	16	25	22	15
450	18	200/255/265	16	25	22	15
500	20	200/255	16	25	22	15
600	24	200/260	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

注：1、特殊要求可按用户图纸制作，法兰标准采用GB/T9115.1-2000，可选配（GB、HG、ANSI、DIN、BS、EN、JIS、等）法兰标准生产。橡胶球体可做天然橡胶、三元乙丙橡胶、氯丁橡胶、丁基橡胶、丁晴橡胶、氟橡胶等。

2、悬空给水使用DN200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。

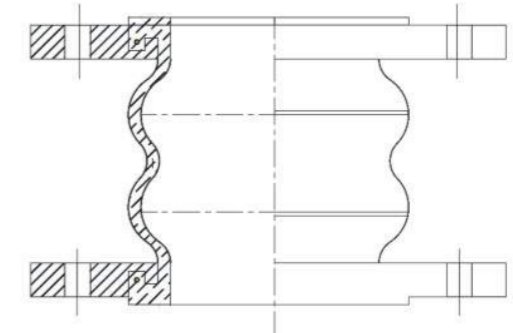
3、用户使用橡胶接头，对应法兰应是阀门法兰或符合GB/T9115.1（RF）法兰。

Note: 1, special requirements can be made according to user drawings, flange standard GB/T9115.1-2000, optional (GB, HG, ANSI, DIN, BS, EN, JIS) standard production of flange. Rubber body to NR, EPDM, CR, IIR, NBR, VITON.etc

2, the use of suspended water supply above DN200, the pipe must be fixed or fixed support bracket, or pull off device shall be installed.

3, When using rubber joints, the corresponding flange should be the valve flange or GB/T9115.1 (RF) flange.

KST型双球体橡胶接头 KST type double sphere rubber joint



主要连接尺寸 Main connection dimensions

公称通径DN Nominal diameter DN		长度 Length (L)	轴向位移 Axial displacement		横向位移 Lateral displacement (mm)	偏转角度 Deflexion angle (a1+a2)
DN	inch		伸长 Extension	压缩 Compression		
40	1.5	165	30	50	45	40°
50	2	165	30	50	45	40°
65	2.5	175	30	50	45	40°
80	3	175	30	50	45	40°
100	4	225	35	50	40	35°
125	5	225	35	50	40	35°
150	6	225	35	50	40	35°
200	8	325	35	60	35	30°
250	10	325	35	60	35	30°
300	12	325	35	60	35	30°
350	14	325	35	60	35	30°
400	16	340-400	35	60	35	30°
450	18	340-400	35	60	35	30°
500	20	340-400	35	60	35	30°
600	24	340-400	35	60	35	30°

注：1、特殊要求可按用户图纸制作，法兰标准采用GB/T9115.1-2000，可选配（GB、HG、ANSI、DIN、BS、EN、JIS、等）法兰标准生产。橡胶球体可做天然橡胶、三元乙丙橡胶、氯丁橡胶、丁基橡胶、丁晴橡胶、氟橡胶等。

2、悬空给水使用DN200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。

3、用户使用橡胶接头，对应法兰应是阀门法兰或符合GB/T9115.1（RF）法兰。

Note: 1, special requirements can be made according to user drawings, flange standard GB/T9115.1-2000, optional (GB, HG, ANSI, DIN, BS, EN, JIS) standard production of flange. Rubber body to NR, EPDM, CR, IIR, NBR, VITON.etc

2, the use of suspended water supply above DN200, the pipe must be fixed or fixed support bracket, or pull off device shall be installed.

3, When using rubber joints, the corresponding flange should be the valve flange or GB/T9115.1 (RF) flange.

KDF型可曲挠高压单球橡胶接头 KDF Flexible high pressure single sphere rubber joint

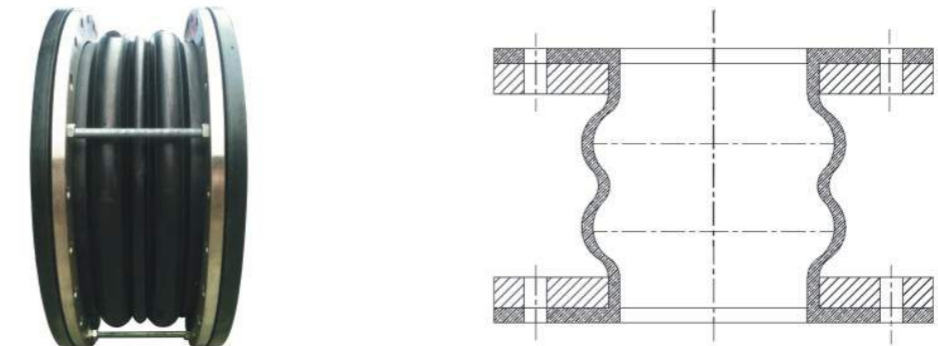


主要连接尺寸 Main connection dimensions

公称通径DN Nominal diameter DN		长度 Length L (mm)	轴向位移 Axial displacement		横向位移 Lateral displacement (mm)	偏转角度 (a1+a2) Deflexion angle
DN	inch		伸长 Extension	压缩 Compression		
50	2	105	7	10	10	15
65	2.5	115	7	13	11	15
80	3	135	8	15	12	15
100	4	150	10	19	13	15
125	5	165	12	19	13	15
150	6	185	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	255/290	16	25	22	15
600	24	260	16	25	22	15
700	28	260/300	16	25	22	15
750	30	260/300	16	25	22	15
800	32	260/300	16	25	22	15
900	36	260/300	16	25	22	15
1000	40	260/300/350	18	26	22	15
1100	44	300	18	26	22	15
1200	48	260/300	18	26	24	15
1300	51	300/400	18	26	24	15
1400	56	350/400	20	28	26	15
1500	60	350	20	35	26	15
1600	64	350	25	35	30	10
1800	72	400/450	25	35	30	10
2000	80	360/450	25	35	30	10
2200	88	420/450/500	25	35	30	10
2400	96	360/400/500	25	35	30	10
2600	104	450/500	25	35	30	10
2800	112	580	25	35	30	10
3000	120	500/550	25	35	30	10

注：1、特殊要求可按用户图纸制作，法兰标准采用GB/T9115.1-2000，可选配（GB、HG、ANSI、DIN、BS、EN、JIS、等）法兰标准生产。橡胶球体可做天然橡胶、三元乙丙橡胶、氯丁橡胶、丁基橡胶、丁晴橡胶、氟橡胶等。
2、悬空给水使用DN200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。
3、用户使用橡胶接头，对应法兰应是阀门法兰或符合GB/T9115.1（RF）法兰。
Note: 1, special requirements can be made according to user drawings, flange standard GB/T9115.1-2000, optional (GB, HG, ANSI, DIN, BS, EN, JIS) standard production of flange. Rubber body to NR, EPDM, CR, IIR, NBR, VITON, etc.
2, the use of suspended water supply above DN200, the pipe must be fixed or fixed support bracket, or pull off device shall be installed.
3, When using rubber joints, the corresponding flange should be the valve flange or GB/T9115.1 (RF) flange.

KDF型可曲挠高压双球橡胶接头 KDF Flexible high pressure double sphere rubber joint

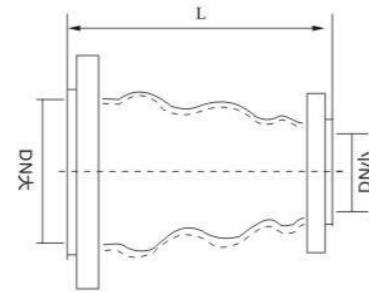


主要连接尺寸 Main connection dimensions

公称通径DN Nominal diameter DN		长度 Length L (mm)	轴向位移 Axial displacement		横向位移 Lateral displacement (mm)	偏转角度 (a1+a2) Deflexion angle
DN	inch		伸长 Extension (mm)	压缩 Compression (mm)		
500	20	400	35	50	35	20
600	24	400	35	50	35	20
650	26	330/400	35	50	35	20
700	28	400	35	50	35	20
750	30	400	35	50	35	20
800	32	400	35	50	30	20
900	36	400/450/500/600	35	60	30	20
1000	40	450/500	35	60	30	20
1200	48	450/500	35	60	30	20

注：1、特殊要求可按用户图纸制作，法兰标准采用GB/T9115.1-2000，可选配（GB、HG、ANSI、DIN、BS、EN、JIS、等）法兰标准生产。橡胶球体可做天然橡胶、三元乙丙橡胶、氯丁橡胶、丁基橡胶、丁晴橡胶、氟橡胶等。
2、悬空给水使用DN200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。
3、用户使用橡胶接头，对应法兰应是阀门法兰或符合GB/T9115.1（RF）法兰。
Note: 1, special requirements can be made according to user drawings, flange standard GB/T9115.1-2000, optional (GB, HG, ANSI, DIN, BS, EN, JIS) standard production of flange. Rubber body to NR, EPDM, CR, IIR, NBR, VITON, etc.
2, the use of suspended water supply above DN200, the pipe must be fixed or fixed support bracket, or pull off device shall be installed.
3, When using rubber joints, the corresponding flange should be the valve flange or GB/T9115.1 (RF) flange.

JDX型异径橡胶接头 JDX type reducing rubber joint

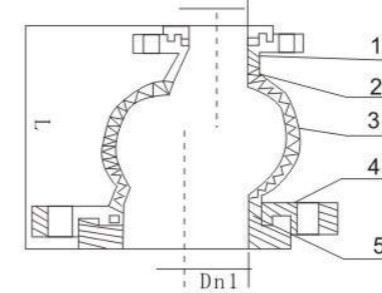


主要连接尺寸 Main connection dimensions

公称通径 Nominal diameter DN, XDN ₂	长度 Length L (mm)	轴向位移 Axial displacement		横向位移 Lateral displacement (mm)	偏转角度 Deflection angle ($\alpha_1 + \alpha_2$) [°]
		伸长 Extension	压缩 Compression		
50x32	180	20	30	45	35°
50x40	180	20	30	45	35°
65x40	180	20	30	45	35°
65x50	180	20	30	45	35°
80x40	180	20	30	45	35°
80x50	180	20	30	45	35°
80x65	180	20	30	45	35°
100x40	180	20	30	45	35°
100x50	180	20	30	45	35°
100x65	180	22	30	45	35°
100x80	180	22	30	45	35°
125x50	200	22	30	45	35°
125x65	200	22	30	45	35°
125x80	200	22	30	45	35°
125x100	200	22	30	45	35°
150x50	200	22	30	45	35°
150x65	200	22	30	45	35°
150x80	200	22	30	45	35°
150x100	200	22	30	45	35°
150x125	200	22	30	45	35°
200x80	200	22	30	40	30°
200x100	200	22	30	40	30°
200x125	200	25	30	40	30°
200x150	200	25	35	40	30°
250x125	220	25	35	40	30°
250x150	220	25	35	40	30°
250x200	220	25	35	40	30°
300x125	220	25	35	40	30°
300x150	220	25	35	40	30°
300x200	220	25	35	40	30°
300x250	220	25	35	40	30°
350x150	240	25	35	40	30°
350x200	240	28	38	35	26°
350x250	240	28	38	35	26°
350x300	240	25	35	40	30°
400x200	240	25	35	40	30°
400x250	240	28	38	40	30°
400x300	240	28	38	40	30°
400x350	240	28	38	40	30°
450x300	240	28	38	40	30°
450x350	240	28	38	40	30°
450x400	240	28	38	40	30°
500x350	240	28	38	40	30°
500x400	240	28	38	40	30°
500x450	240	28	38	40	30°
600x400	240	28	38	40	30°
600x450	240	28	38	40	30°
600x500	240	28	38	40	30°

注: DN200以上接头, 高压、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 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



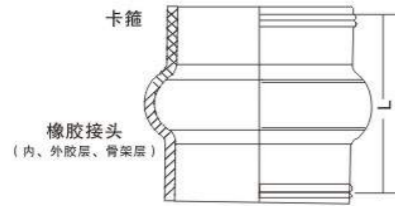
材料表 Materials Table

NO	名称 Name	材料 Material
1	外胶层 Outer	IIR, CR, EPDM, NR, NBR
2	内胶层 Inner	IIR, CR, EPDM, NR, NBR
3	骨架层 Skeleton	尼龙帘布 Nylon
4	法兰 Flange	Q235, 304 316L
5	加强圈 Ring	钢丝圈 Steel

主要连接尺寸 Main connection dimensions

公称通径 Nominal diameter DN, XDN ₂	长度 Length L (mm)	轴向位移 Axial displacement		横向位移 Lateral displacement (mm)	偏转角度 Deflection angle ($\alpha_1 + \alpha_2$) [°]
		伸长 Extension	压缩 Compression		
50x32	180	20	30	45	350
50x40	180	20	30	45	350
65x40	180	20	30	45	350
65x50	180	20	30	45	350
80x40	180	20	30	45	350
80x50	180	20	30	45	350
80x65	180	20	30	45	350
100x40	180	20	30	45	350
100x50	180	20	30	45	350
100x65	180	22	30	45	350
100x80	180	22	30	45	350
125x50	200	22	30	45	350
125x65	200	22	30	45	350
125x80	200	22	30	45	350
125x100	200	22	30	45	350
150x50	200	22	30	45	350
150x65	200	22	30	45	350
150x80	200	22	30	45	350
150x100	200	22	30	45	350
150x125	200	22	30	45	350
200x80	200	22	30	40	300
200x100	200	22	30	40	300
200x125	200	25	30	40	300
200x150	200	25	35	40	300
250x125	220	25	35	40	300
250x150	220	25	35	40	300
250x200	220	25	35	40	300
300x125	220	25	35	40	300
300x150	220	25	35	40	300
300x200	220	25	35	40	300
300x250	220	25	35	40	300
350x150	240	25	35	40	300
350x200	240	25	35	40	300
350x250	240	25	35	40	300
350x300	240	25	35	40	300
400x200	240	25	35	40	300
400x250	240	28	38	40	300
400x300	240	28	38	40	300
400x350	240	28	38	40	300
450x300	240	28	38	40	300
450x350	240	28	38	40	300
450x400	240	28	38	40	300
500x350	240	28	38	40	300
500x400	240	28	38	40	300
500x450	240	28	38	40	300
600x400	240	28	38	40	300
600x450	240	28	38	40	300
600x500	240	28	38	40	300

JGD(KXT)型卡箍式橡胶接头 JGD (KXT) type clamp rubber joint



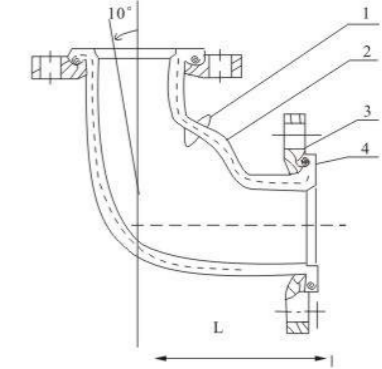
材料表 Materials Table

NO	名称 Name	材料 Material
1	外胶层 Outer	IIR, CR, EPDM, NR, NBR
2	内胶层 Inner	IIR, CR, EPDM, NR, NBR
3	骨架层 Skeleton	尼龙帘布 Nylon
4	卡箍 Clamp	Q235, 304 316L

主要连接尺寸 Main connection dimensions

公称通径 DN Nominal diameter		长度 Length L (mm)	轴向伸长 Axial extension (mm)	轴向压缩 Axial compression (mm)	横向位移 Lateral displacement (mm)	偏转角度 Deflexion angle ($\alpha_1 + \alpha_2$)°
DN	inch					
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°

WTX型可曲挠橡胶弯头 WTX type flexible rubber bent



技术条件 Technical Conditions

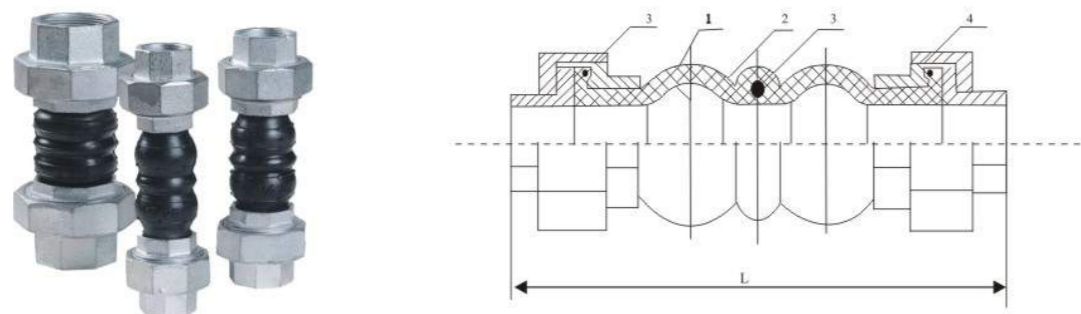
型号 Type	WTX-1	WTX-II	WTX-III
工作压力MPa(Kg f/cm²) Working Pressure	1.0(10)	1.6(16)	2.5(25)
爆破压力MPa(Kg f/cm²) Bursting pressure	2.0(20)	3.2(32)	4.5(45)
真空度KPa(mmHg) Vacuum	53.3(400)	86.7(650)	100(750)
适用温度℃ Applicable Temperature℃	-15-115, 特殊可达-30-250 -15-115, (for special conditions) it can be -30-250		
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 connection dimensions

公称通径 DN Nominal diameter		长度 Length L (mm)	轴向伸长 Axial extension (mm)	轴向压缩 Axial compression (mm)	横向位移 Lateral displacement (mm)	偏转角度 Deflexion angle ($\alpha_1 + \alpha_2$)°
DN	inch					
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°

JGD-B型丝扣连接橡胶接头 JGD-B Threaded type 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	加压环 Pressurized ring	钢丝绳 Steel wire
4	螺纹活接头 Thread woggle joint	可锻铸铁 Forged cast iron

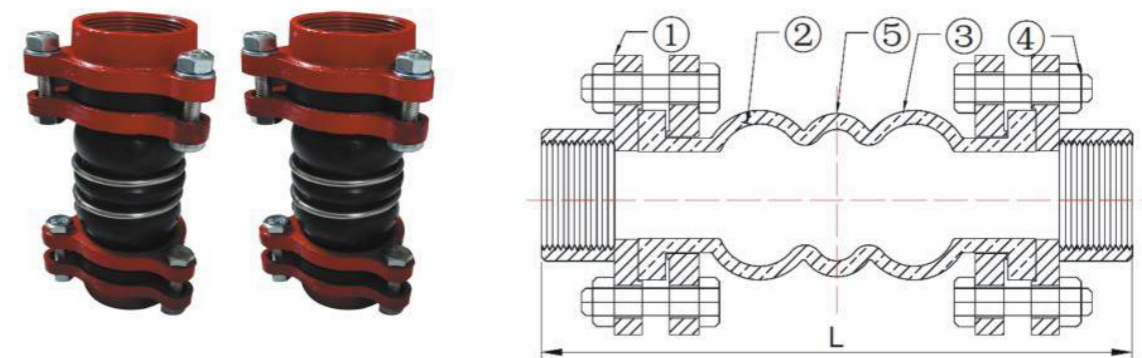
技术条件 Technical Conditions

工作压力 Working Pressure	1.6MPa(16Kg f/cm ²)	偏转角度 Deflexion angle	(a ₁ +a ₂)45°
爆破压力 Bursting pressure	4.8MPa(48Kg f/cm ²)	真空度 vacuum	53.3KPa(400mmHg)
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	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 connection dimensions

公称通径DN Nominal diameter		长度 L Length (mm)	轴向位移 Axial displacement		横向位移 Lateral displacement (mm)	偏转角度 Deflexion angle (a ₁ +a ₂)°
DN	inch		伸长Extension(mm)	压缩Compression(mm)		
15	1/2	203	5-6	22	22	45°
20	3/4	203	5-6	22	22	45°
25	1	203	5-6	22	22	45°
32	1 1/4	203	5-6	22	22	45°
40	1 1/2	203	5-6	22	22	45°
50	2	203	5-6	22	22	45°
65	2 1/2	240/265	8-10	24	24	45°
80	3	240/285	8-10	24	24	45°

JGD-B型限位螺纹连接橡胶接头 JGD-B threaded type rubber joint



各部分材质 Material of Parts

项目 Item	零件名称 Part Name	材料 Material
1	法兰螺栓 Bolt on flange	可锻铸铁 Malleable Iron
2	关键帧 Key frame	尼龙绳织物 Nylon cord fabric
3	外/内橡胶 Outer / Inner rubber	氯丁橡胶、丁腈橡胶、三元乙丙橡胶 Neoprene, NBR, EPDM
4	螺栓/螺母 Bolts / Nuts	低碳钢 LOW carbon steel
5	增压环 Reinforcing Ring	钢丝 Steel wire

工作压力和温度 working pressure and temperature

工作压力: 232 psi/16 bar Working Pressure : 232 psi/ 16 Bar
 爆破压力: 696 psi/48 bar Bursting Pressure : 696 psi/ 48 Bar
 真空等级: 400 mmHg Vacuum Rating : 400 mmHg
 三元乙丙橡胶的温度为-10℃至90℃。 Temperature from -10℃ to 90℃for EPDM
 NBR的温度为-10℃至80℃。 Temperature from -10℃ to 80℃for NBR
 氯丁橡胶温度-10℃至90℃ Temperature from -10℃ to 90℃for Neoprene
 介质: 空气、水、油、酸、碱、海水 Medium : Air, Water, Oil, Acid, Alkali, Sea-water

主要连接尺寸 Main connection dimensions

公称通径DN Nominal diameter		长度 Length L (mm)	轴向位移 Axial displacement		横向位移 Lateral displacement (mm)	偏转角度 Deflexion angle (a ₁ +a ₂)°
DN	inch		伸长 Extension	压缩 Compression		
15	1/2	203	5-6	22	22	45°
20	3/4	203	5-6	22	22	45°
25	1	203	5-6	22	22	45°
32	1 1/4	203	5-6	22	22	45°
40	1 1/2	203	5-6	22	22	45°
50	2	203	5-6	22	22	45°
65	2 1/2	265	8-10	24	24	45°
80	3	285	8-10	24	24	45°

负压橡胶接头 Negative pressure rubber joint



负压橡胶接头是能够顶得吸力的橡胶接头，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。2、橡胶接头适用于各种介质和环境。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采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。

The negative pressure rubber joint is a rubber joint capable of supporting suction, the external pressure is greater than the internal pressure. (rubber expansion joint/soft joint/rubber shock absorber/compensator): 1. According to the different materials, the Negative pressure rubber joint can make into acid resistance, alkali resistance, corrosion resistance, oil resistance, hot resistance rubber expansion joint. 2. Rubber joints are suitable for a variety of media and environments. 3. The materials for the rubber joints is polar rubber, it has good tightness, with light weight. Easy to install and has a long using life. Put the rubber joints away from the sharp metal things or it will get damage. 4. The Rubber Joint must with the elastic support when it needs aerial state. And fasten the bolts when doing the installing. 5. When the pressure is too high, the both side must connect by flange with bolts and nuts. 6. Rubber expansion joints flange connection depend on the GB4216.3-4216.5 standard. The pressure level is 0.6Mpa, 1Mpa, 1.6Mpa, 2.5Mpa. Use a negative pressure sphere in a vacuum to prevent deformation and damage.

衬四氟橡胶接头 PTFE-lined rubber joint



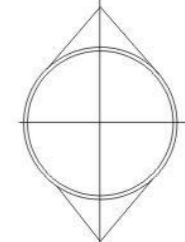
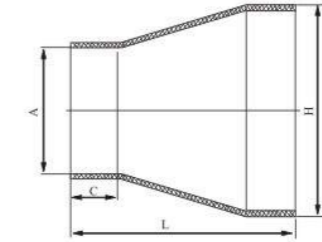
衬四氟可曲挠橡胶接头具有减振、耐高温、能挠曲、耐摩擦等特点。适用于管道错位差、位移、尺寸变化及振动部位的连接。可作贮罐、槽车等设备的给、排料管，还可作其它特殊之用。其使用范围较广泛，作用较全面。衬氟橡胶接头的四氟具有优良的化学稳定性、耐腐蚀性，是当今世界上耐腐蚀性能最佳材料之一，除熔融金属钠和液氟外，能耐其它一切化学药品，在王水中煮沸也不起变化，广泛应用于各种需要抗酸碱和有机溶剂的。密封性、高润滑不粘性、电绝缘性和良好的抗老化耐力、耐高温优异（能在+250℃至-180℃的温度下长期工作）。衬氟橡胶接头适用于各种介质的管道连接。

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。

Tetrafluoro-lined (PTFE) rubber expansion joint has the characteristics of shock absorption, high temperature resistance, flexure resistance and friction resistance. Suitable for connection of pipe error, displacement, size change and vibration parts. Can be used for storage in tanks, trucks or other equipment. This Used widely. Tetrafluoro-lined rubber joints have chemical stability, corrosion resistance, is the best corrosion resistant material. Widely used in a variety of acid and alkali resistance and organic solvent environment. Good sealing, good lubrication, good electrical insulation, and anti-aging properties, high temperature resistance (+250° to -180°) Tetrafluoro-lined rubber joints are suitable for pipe connections of various media.

Tetrafluoro-lined rubber joints have good acid and alkali resistance, corrosion resistance, can be used in various strong acid rappe media of the pipeline, in the chemical pipeline and acid production

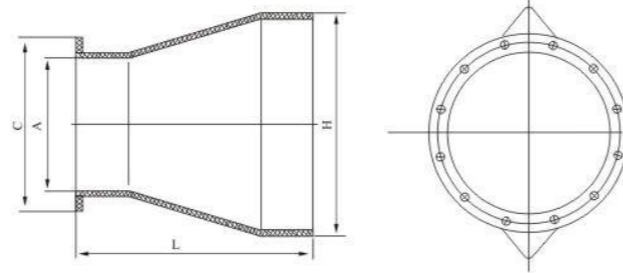
卡箍式橡胶鸭嘴止回阀 Clamp type rubber duckbill check valve



主要连接尺寸 Main connection dimensions

型号 Type	管道公称直径 Nominal diameter of pipe	长度L Length d ₀	高度H Height	套入深度C Embed depth
XF50-158-T	50	158	100	25
XF80-232-T	80	232	140	40
XF100-270-T	100	270	200	40
XF150-360-T	150	360	265	50
XF200-450-T	200	450	325	50
XF250-560-T	250	560	425	75
XF300-650-T	300	650	525	115
XF350-750-T	350	750	625	115
XF400-850-T	400	850	725	135
XF450-950-T	450	950	825	150
XF500-1060-T	500	1060	925	200
XF600-1200-T	600	1200	1025	200
XF700-1260-T	700	1260	1125	200
XF800-1450-T	800	1450	1400	250
XF900-1620-T	900	1620	1525	250
XF1000-1720-T	1000	1720	1725	250
XF1200-2010-T	1200	2010	1950	300
XF1400-2280-T	1400	2280	2320	320
XF1600-2600-T	1600	2600	2650	350
XF1800-2920-T	1800	2920	2960	400
XF2000-3150-T	2000	3150	3300	450
XF2200-3450-T	2200	3450	3580	500
XF2400-3760-T	2400	3760	3925	550
XF2600-3900-T	2600	3900	4250	600
XF2800-4200-T	2800	4200	4580	650
XF3000-4500-T	3000	4500	4990	700

法兰式橡胶鸭嘴阀 Flange type rubber duckbill valve



主要连接尺寸 Main connection dimensions

型号 Type	管道公称直径 Nominal diameter of pipe	长度L Length d_0	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

XH81、XH41、XH81A、XH41A型橡胶排污止回阀 Xh81, XH41, XH81A, XH41A rubber sewage check valve



XH81型
DN20-2000mm



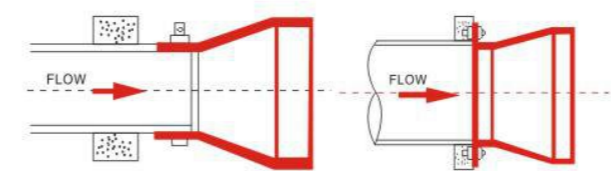
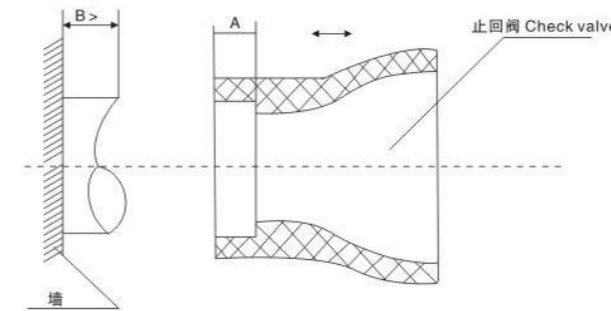
XH41型
DN100-2000mm



XH81A型
DN200-1200mm

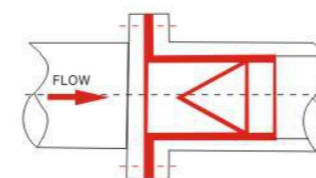


XH41A型
DN200-500mm

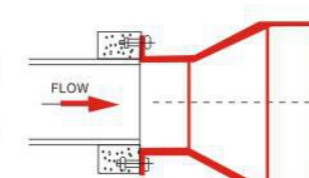


套接式 Socket type
安装在排水管的出口
Installed at the exit of drainage pipe

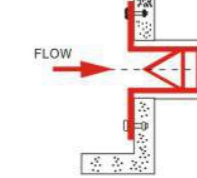
法兰式 Flange type
安装在排水管带法兰的出口末端
Installed in the drain outlet end with flange



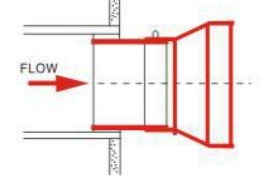
链嵌式 Chain block type
安装于城市雨水污水管道中间
Installed in the city of rain sewage pipeline intermediate



安装板式 Mounting plate
安装于出水末端建筑物上
Installed in the water outlet end of a building



内置式 Built in type
安装于城市雨水污水和系统出口末
At the end of the system of export



灰浆或水泥管道式 Mortar or cement pipe
安装于灰浆或水泥管道的末端
At the end of the installation in the mortar or cement pipe

DN	配合管道通径 With the pipe size	阀口台阶 (A) Valve opening step (A)	管道接触 (B) Pipeline contact (B)
50	2"	20	20
65	2"-1/2"	25	25
80	3"	40	40
100	4"	50	50
150	6"	50	50
200	8"	50	50
250	10"	50	50
300、350	12"-14"	100	100
400、450、500	16"20"	150	150
600、700、800、900	24"-36"	200	200
1000	40"	250	250
1200、1400、1600	64"	300	300
1800	72"	400	400

说明: DN800-1800 (32"-72") 为双包箱
特殊要求: 可来函图定制 Special requirements can be customized to map the letter.

贮存与运输注意事项:

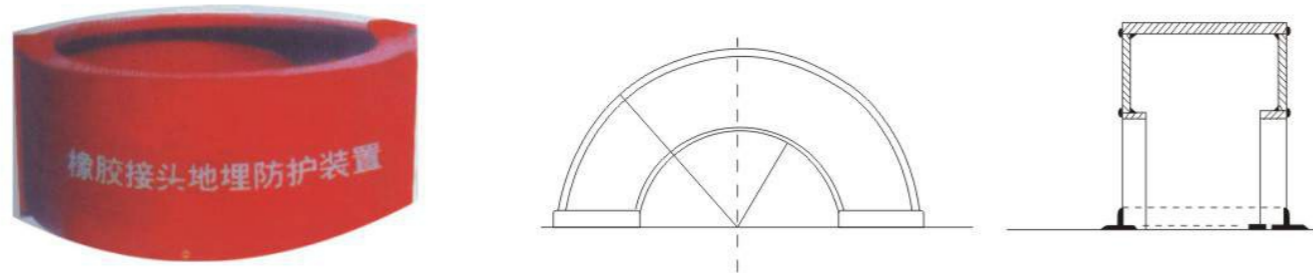
- A、XH81、XH41型橡胶排污止回阀, 应放于低温、干燥处, 并保证运输时立式状态放置;
- B、设置地板或高于地平面立放;
- C、该阀门应远离热源、臭氧、机油、强酸、强碱区域;
- D、严禁强辐射光线暴晒和承重;
- E、严禁锐利器具划破表面;
- F、包装箱上标有“↑”, 不允许倒放或平放。

Storage and transport notes

- A, XH81, XH41 rubber sewage check valve, should be placed in low temperature, dry place, and kept vertical in transportation;
- B, keep verticle on the flooring or above the ground;
- C, the valve should be away from heat, ozone, oil, acid, alkali area;
- D, no strong radiation exposure and bearing;
- E, no sharp instruments through the surface;
- F, the packing box is marked with "↑", do not allow the upside down or horizontal placement.



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



可曲挠橡胶接头埋地的防护装置，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。管线安装完毕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理，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台锁紧螺栓，以备安装完毕后装备，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，2保护装置—旋紧对台锁紧螺栓（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，下部捣实，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，以备后检查更换确定位置）。

特别提醒注意：订货时务必提供埋地深度，以便我们为您设制合理的保护装置。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。

The protective device of flexible rubber joint burried in shall leave enough space and not affect the displacement of performance of the rubber joint. it shall be able to isolate the rubber joint from the earth covered on it, but also allow the pipelines free sliding movement on both sides of the rubber joint without any resistance. after pipelines are installed, the ground shall be filled flat and hammered solid to withstand the viechles driving or heavy storage or equipment mounting for future use.

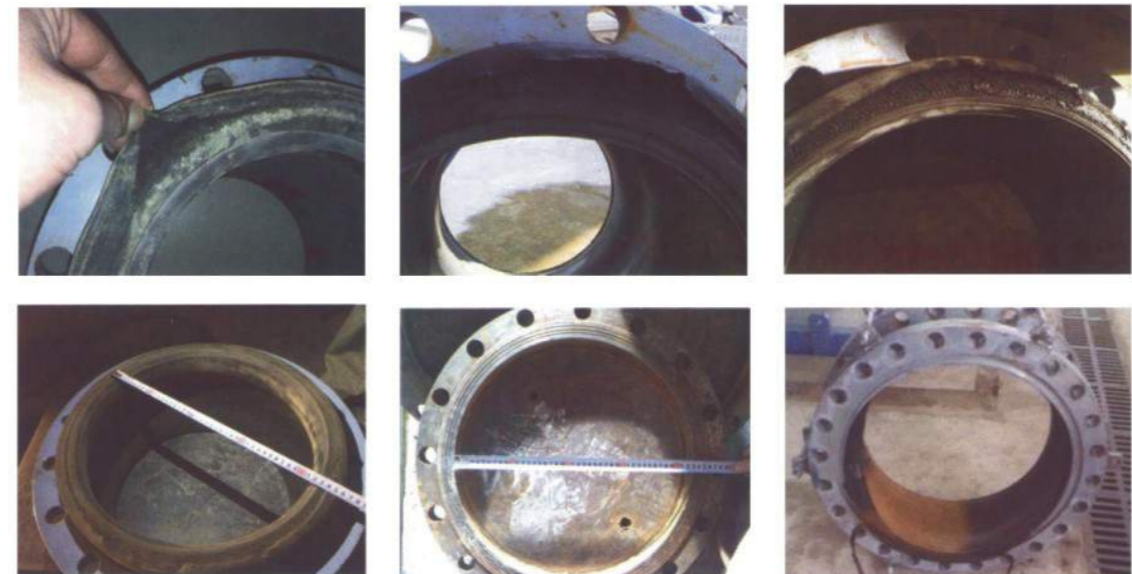
The burried device is made of two half circular hollow cylinders. the rubber joint and flat welding flanges are all put in the body of the protective device. two small round plates are provided on both ends to manage the steel flanges. both ends supporting shall be defined by the soil depth above the burried part so that it can withstand the pressure on it. a certian number of bolts are equipped for post installation. installation procedures are as below: install the rubber joint protective device; paint antirust painting in the inner of the protective device, put the lower 1/2 device on right position, put on the upper 1/2 device; bolt and tighten the device. please make sure the rubber joint is in the center middle of the protective device; paint the anti rust coating on the outer of the protective device, refill the earth in ground, tamping the earth on the ground. preferably to set up a permanent mark on proper position for future check and replacement.

Please provide buried depth when ordering, so the proper setup of the protective device can be provided. the protective device can last 30 years as long as the anti-corrosion is well treated.

可曲挠合成橡胶接头安装说明 Installation Instructions for Flexible Rubber Joints

- 一、可曲挠合成橡胶接头在安装时，严禁超位移极限安装。
- 二、1.0Mpa以上地面横向、悬空、垂直安装橡胶接头，管道两端应有固定支撑或固定托架，以防拉脱或破坏设施。
- 三、固定支撑或固定托架的力，必须大于工作的轴向力，否则应安装防拉脱装置。
- 四、安装可曲挠合成橡胶接头的对应法兰，应按标准GB/T9115.1 (RF) 法兰(即小口径法兰)，以防法兰D2、do尺寸过窄，出现密封面漏水。
- 五、安装可曲挠合成橡胶接头法兰螺栓，要对称逐步加压拧紧，以防承压出现局部泄漏或破坏可曲挠合成橡胶接头的密封面。
- 六、1.0MPa以上工作压力，垂直、悬空使用橡胶接头，安装螺栓要有弹垫，以防工作时螺栓松动，造成局部漏水，渗水。
- 七、垂直安装，可曲挠合成橡胶接头应有固定支撑，严禁橡胶接头受重压。

1. When installing flexible synthetic rubber joints, it is strictly forbidden to install them beyond the limit of displacement.
2. Rubber joints shall be installed horizontally, suspended and vertically on the ground above 1.0 Mpa. Fixed supports or brackets shall be provided at both ends of the pipeline to prevent pull-off or ring breakage.
3. The force of fixed support or fixed bracket must be greater than the axial force of work, otherwise anti-pull-off device should be installed.
4. Installation of flanges corresponding to flexible synthetic rubber joints shall be in accordance with standard GB/T9115.1 (RF) flanges (i.e. small-caliber flanges) in order to prevent flange D2, do size from being too narrow and leakage of sealing surface.
5. Install flange bolts of flexible synthetic rubber joints, and tighten them symmetrically step by step to prevent local leakage of pressure or damage the sealing surface of flexible synthetic rubber joints.
6. Over 1.0 MPa working pressure, rubber joints are used vertically and in suspension. Installation bolts should have cushions to prevent loosening of bolts, causing local leakage and water leakage.
7. Vertical installation. Flexible synthetic rubber joints should be supported by fixed supports. Heavy pressure on rubber joints is strictly prohibited.

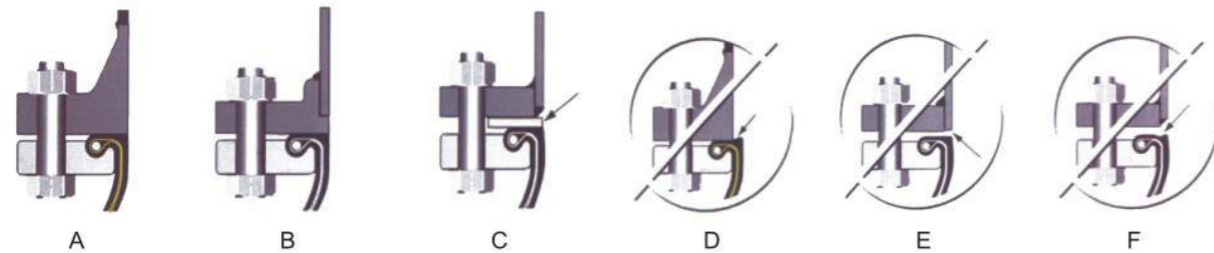


注明：请严格按照安装要求使用可曲挠橡胶接头，如果因为安装不当造成任何后果，工厂不承担责任。
Note: Please use flexible rubber joints in strict accordance with the installation requirements, the factory is not responsible if there are any consequences due to improper installation.

橡胶接头理化数据 Physical and Chemical Data of Rubber Joints

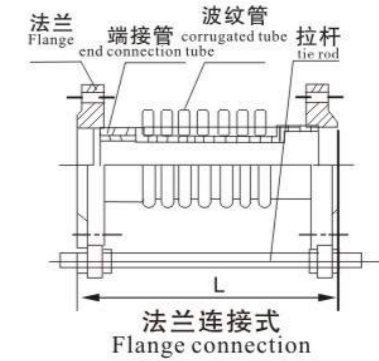
- 一、抗疲劳系数(轴向往复1000次); ≥ 0.85 注:长度缩短20%
 - 二、拉伸强度(MPa)内外胶平均 ≥ 12.5
 - 三、热空气老化拉变率, 内外 $\pm 25\%$ (100Cx48h) 扯变率 内外 $\pm 15\%$
 - 四、耐酸系数10% H₂SO₄X168h 室温 ≥ 0.7
 - 五、耐碱系数10% NaOHx168h 室温 ≥ 0.7
 - 六、扯断伸长率(%) ≥ 450
1. Anti-fatigue coefficient (1000 axial reciprocating times); > 0.85 Note: Length shortened by 20%.
 2. Tensile Strength (MPa) Average of Inside and Outside Adhesives (> 12.5)
 3. Tensile strain rate of hot air aging, internal and external ($\pm 25\%$) (100Cx48h) and internal and external ($\pm 15\%$).
 4. Acid resistance coefficient 10% H₂SO₄X168h room temperature (> 0.7)
 5. Alkali Resistance Coefficient 10% NaOHx168h Room Temperature (> 0.7)
 6. elongation at break (%) greater than 450

请选择正确的法兰 Please choose the right flange



- A. 采用正确的配套法兰防止损坏橡胶密封封面
 - B. 正确采用的焊颈法兰防止损坏橡胶密封封面
 - C. 采用大口内径平焊法兰时应安装一个小口径金属垫片可以防止损坏橡胶
 - D. 法兰不能与橡胶密封面完全密封, 冲洗橡胶
 - E. 不平衡端管对橡胶密封面造成损坏
 - F. 法兰内边缘损坏橡胶密封面
- A. Uses the correct supporting flange to prevent damage to the rubber seal cover
 - B. Correctly use welding neck flange to prevent damage to rubber seal surface
 - C. Big diameter flange should be installed on a small caliber metal gasket to prevent damage of rubber
 - D. Flange can not be completely sealed with rubber seal surface, rinse rubber
 - E. Uneven pipe end damage to rubber sealing surface
 - F. Damage of rubber sealing surface at the inner edge of flange

JDZ型波纹管补偿器 JDZ Bellows compensators



主要连接尺寸 Main connection dimensions

公称 口径DN Nominal diameter	波数 Quantity of ripple	压力等级MPa Pressure level					波纹管有效 面积(cm ²) Effective area of corrugated tube	最大外径尺寸 Maximum 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/J (mm) Connection tube JZ/J
		轴向补偿量mm/刚度N/mm Axial compensation length mm/ toughness 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	282/314	316/342
125	9	85/23	77/29	66/36	58/45	49/63	180	334	382/386	388/414
150	5	49/42	44/50	40/62	34/78	29/92	257	364	282/339	338/367
150	8	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



JDZ焊接波纹管补偿器 JDZ Welding Bellows Compensators



温度/最大推荐压力率
TEMPERATURE / MAXIMUM RECOMENDED PRESSURE RATE

50℃	100℃	150℃	200℃	250℃	300℃	350℃	400℃
10 BAR	9 BAR	8.5 BAR	7.5 BAR	7 BAR	6.3 BAR	5 BAR	4 BAR

主要连接尺寸 Main connection dimensions

DN	L	E	H	A	AXIAL		Kgs
15	250	26	22	120	+5	-25	0.3
20	250	32	27	120	+5	-25	0.4
25	250	38	34	120	+5	-25	1
32	350	48	42	180	+10	-30	1.30
40	350	59	48	180	+10	-30	1.40
50	350	73	60	180	+10	-35	1.60
65	350	90	76	180	+10	-35	2
80	350	103	88	180	+10	-40	2.30
100	350	136	115	180	+10	-40	4
125	350	162	140	180	+10	-40	5.30
150	350	196	168	180	+10	-40	6.50
200	350	248	220	180	+10	-40	8.20
250	350	310	275	180	+10	-40	10.5
300	350	360	325	180	+10	-40	15.5

JTW型金属软管 JTW Flexible 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。

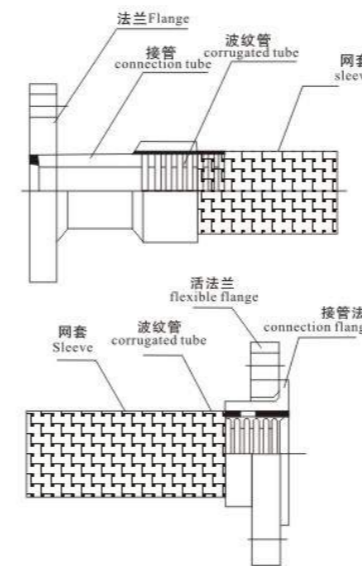
波纹金属软管具有了良好的柔软性、抗疲劳性、耐高温、耐低温、耐腐蚀性等诸多特性，他相对其它软管（橡胶、塑料软管）的寿命就要高出许多，故它又具有较高的综合经济效益，随着现代工业的发展，对耐高温、耐高压的波纹金属软管的需求量亦愈来愈大。

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 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 matches 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 (mm) ID	外径mm OD		最小弯曲半径 Nominal diameter		最高工作压力MPa Nominal diameter	
		波纹管 Bellows	带一层网套 Cover with a layer of network	静态 Bellows	动态 Bellows	一层网套 Nominal	二层网套 Nominal
8	8.8	13.2	14.4	50	110	15	20
10	11.7	16.5	17.7	65	145	15	20
15	13.5	19.5	21.1	80	180	15	20
20	20.0	27	28.6	120	270	10	15
25	27.0	34.5	36.1	160	360	6.3	10
32	32.0	40	41.6	175	400	4.0	6.3
40	39.6	52	53.6	225	510	4.0	6.3
50	49.7	62	63.6	280	640	3.0	5.0
65	61.2	80.2	81.8	410	915	3.0	5.0
80	79.0	96.3	97.9	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	1780	2.5	4.0
200	176.0	240	243.2	1000	2000	2.5	4.0
250	248.0	290	294	1250	2500	2.5	4.0
300	298.0	350	354	1500	3000	1.6	2.5
350	347.0	400	404.8	1750	3500	1.6	2.5
400	397.6	460	464.8	2000	4000	1.6	2.5

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 (a ₁ +a ₂)°
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、减震降噪、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.

四氟波纹补偿器 Tetrafluoro ripple compensator

GB/T 12777-2008



四氟补偿器

- 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
- 压力等级: PN0.6、1.0、1.6MPa
- 连续疲劳寿命: 1000次
- 使用温度: ≤200℃

中压网套高颈四氟补偿器

- 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
- 压力等级: PN0.25-2.5MPa
- 疲劳次数: ≥10000次
- 使用温度: ≤220℃

Tetrafluoride compensator

- It can withstand various concentrations of acid, alkali and salt, and has the advantages of stainless steel compensator pressure not afraid of collision, etc.
- Provided: DN25-1600mm
- Pressure grade: PN0.6, 1.0, 1.6 Mpa
- Continuous fatigue life: 1000 times
- Temperature: <200

Medium voltage mesh sleeve high neck tetrafluoro compensator

- The distance between the replacement pipeline and the pipeline is too large to replace the compensator with too many wave numbers and reduce the cost of the manufacturer.
- Provided: DN25-1600mm compensator
- Pressure Grade: PN0.25-2.5MPa
- Fatigue frequency: > 10000 times
- Service Temperature: <220 Temperature

优点 Advantage

外体为不锈钢金属补偿器内衬PTFE。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。

耐高温——使用工作温度达250℃。

耐低温——具有良好的机械韧性; 即使温度下降到-196℃, 也可保持5%的伸长率。

耐腐蚀——对大多数化学药品和溶剂, 表现出惰性、能耐强酸强碱、水和各种有机溶剂。

耐气候——有塑料中最佳的老化寿命。

高润滑——是固体材料中摩擦系数最低者。

不粘附——是固体材料中最小的表面张力, 不粘附任何物质。

无毒害——具有生理惰性, 作为人工血管和脏器长期植入体内无不良反应。

电绝缘性——可以抵抗1500伏高压电。

The outer body is stainless steel metal compensator lined with PTFE. It can withstand various concentrations of acid, alkali and salt, and has the advantages of stainless steel compensator pressure, not afraid of collision and so on.
High temperature resistance – working temperature up to 250°C.
Low Temperature Resistance – Good mechanical toughness; 5% elongation can be maintained even when the temperature drops to -196°C.
Corrosion resistance – For most chemicals and solvents, it shows inertia, strong acid and alkali resistance, water and various organic solvents.
Weather resistance – the best aging life of plastics.
High lubrication – the lowest friction coefficient in solid materials.
Non-adherence – is the smallest surface tension in solid materials and does not adhere to any substance.
Non-toxic – physiological inertia, as artificial blood vessels and organs long-term implantation in vivo without adverse reactions.
Electrical Insulation – Resistant to 1500 Volt High Voltage Electricity.

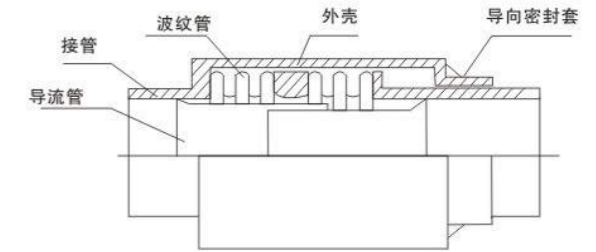
主要数据 Main data

规格 Dimension mm	三个波最大补偿能力 Displacement				允许最大工作压力 Maximum Allowable Working Pressure	三波长		连接法兰尺寸HG5010-58/HGJ45-92 (HG20593-93/97) Flange															
	轴向 Axial Displacement mm	横向 Horizontal Displacement		△θ		内压 Intrinsic Pressure		0.25MPa		0.6MPa		1.6MPa											
		02-1	02-2			TF02-1	TF02-2	K	n-m	K	n-m	K	n-m										
25	12	8	10	20	0.6	0.7	57	65	75	4-M10	75	4-M10	85	4-M12									
32	14	12	16				52	70	90	4-M12	90	4-M12	1000	4-M16									
40	17	14	18				47	75	100		100		110										
50	20	17	22				43	82	110		110		125										
65	22	20	26				38	88	130		130		145										
80	24	24	32				0.55	0.6	0.6	33	92	150	4-M16	150	4-M16	160	8-M16						
100	26	25	33				28			95	170	170		180		8-M16	180	8-M16					
125	29						24			105	200	8-M16	200	8-M16	210	8-M20	210	8-M20					
150	32	18	115				225			225	225		225		240		240		240				
200	40	20	26				0.35			0.4	0.4	17	125	280	12-M16	280	12-M16	295	12-M20				
250	42			14	135	335	335					335	335	350		350		350					
300	44			27	27	0.3	0.35					0.35	13	145	395	12-M20	395	12-M20	400	12-M20			
350	46					0.2							0.25	0.25	150		445		445		445	460	460
400	46					12									16	0.1	0.1	11	160		495	495	495
450													48	180					550		550	550	565
500	49			10	13	0.08	0.1	11	200			600	600	20-M24	600	20-M24	620	20-M27					
600									49			220	705	705	705	725	24-M27						
700	50			10	13	0.05	0.06	10	240			810	810	24-M27	810	24-M27							
800									260			920	920	920									
900	52	8	10	0.03	0.035	9	280	1020	1020	24-M27	1020	24-M27											
1000							300	1120	1120	1120	28-M27												
1200	54	8	10	0.02	0.025	7	320	1320	1320	32-M37													
1400							340	1530	1530	36-M27													
1600	360	1730	1730	40-M27																			

JZM型直埋内压轴向型波纹补偿器

JZM Type Direct Embedded Internal Pressure Axial Corrugation Compensator

GB/T 12777-2008



【设计温度: -20℃ ~ +400℃ 设计压力: 0.25Mpa~2.5Mpa 位移方向: 轴向 (少量横向、角向) 口径: DN50-DN1000mm】

产品特点: Product characteristics

直埋内压式波纹补偿器, 适用于只有轴向位移的管路种, 本产品具有补偿横向位移和轴向与横向合成位移的能力, 但因为补偿量较小一般只做为轴向补偿更能发挥其特性, 使用寿命更长, 更加安全可靠。

Directly buried internal pressure corrugated compensator is suitable for pipelines with only axial displacement. This product has the ability to compensate transverse displacement and combined axial and transverse displacement. However, because the compensation amount is small, it can only be used as axial compensation to better play its characteristics, longer service life and more safe and reliable.

主要连接尺寸 Main connection size

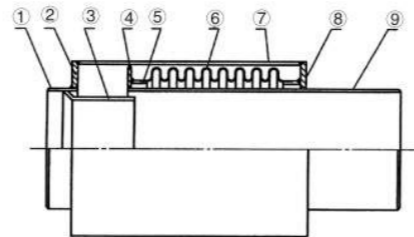
口径 Path	波数 wave number	压力等级 Pressure Level (MPa)					波纹管有效面积 Effective area of bellows (cm ²)	最大外径 Max Outside Diameter (mm)	接口端尺寸 Interface Size (mm)	总长 Total length (mm)
		0.25	0.6	1.0	1.6	2.5				
		轴向补偿量mm, 刚度N/mm Axial compensation mm, stiffness N/mm								
50	8	14/153	12/318	12/318	11/1310	11/1310	37	120	φ 57 × 3.5	361
50	16	27/76	24/158	24/158	23/655	23/655	37	120	φ 57 × 3.5	445
50	32	52/38	48/79	48/79	46/328	46/328	37	120	φ 57 × 3.5	621
65	8	19/213	18/213	18/213	15/841	15/841	55	159	φ 73 × 4	377
65	12	30/142	29/142	27/142	25/421	25/421	55	159	φ 73 × 4	425
65	24	60/71	58/107	54/107	50/211	50/211	55	159	φ 73 × 4	581
80	8	30/179	30/179	30/358	27/650	27/650	81	162	φ 89 × 4	430
80	10	54/143	37/143	37/286	32/325	32/325	81	162	φ 89 × 4	466
80	20	108/72	74/72	74/143	64/163	64/163	81	162	φ 89 × 4	660
100	6	34/138	34/277	33/417	32/817	32/817	121	180	φ 108 × 4	410
100	10	56/83	56/156	56/250	50/409	50/409	121	180	φ 108 × 4	492
100	20	112/42	112/83	112/125	100/205	100/205	121	180	φ 108 × 4	712
125	5	37/136	36/272	36/408	33/801	33/801	180	221	φ 133 × 4	410
125	9	66/76	65/151	65/227	60/401	60/401	180	221	φ 133 × 4	412
125	18	132/38	130/76	130/114	120/201	120/201	180	221	φ 133 × 4	711
150	5	49/100	49/200	48/300	44/845	44/845	257	245	φ 159 × 4.5	433
150	8	88/63	78/125	77/188	65/423	65/423	257	245	φ 159 × 4.5	518
150	16	159/32	156/63	154/94	130/211	130/211	257	245	φ 159 × 4.5	756
200	4	58/95	56/193	56/288	55/800	55/800	479	327	φ 219 × 6	475
200	6	86/63	85/128	85/192	80/927	80/927	479	327	φ 219 × 6	553
200	12	172/32	170/64	170/96	160/200	160/200	479	327	φ 219 × 6	800
250	4	75/170	74/343	63/588	50/1856	50/1856	769	404	φ 273 × 8	500
250	6	112/113	110/228	95/392	78/927	78/927	769	404	φ 273 × 8	620

JZW型轴向外压式波纹补偿器 JZW Type Axial External Pressure Corrugation Compensator

GB/T 12777-2008



- ①进口端管；②进口端环；
- ③导流筒；④限位环；
- ⑤端接管；⑥波纹管；
- ⑦外管；⑧出口端环；
- ⑨出口端管



【设计温度：-20℃ ~ +400℃ 设计压力：0.25Mpa~2.5Mpa 位移方向：轴向 口径：DN50-DN1500mm】

产品特点：Product characteristics

轴向外压式波纹补偿器主要吸收轴向位移，具有补偿量大，保温性能好，残余介质可以排除等优点。

Axial external pressure corrugated compensator mainly absorbs axial displacement. It has the advantages of large compensation, good thermal insulation performance and removal of residual media.

主要连接尺寸 Main connection size

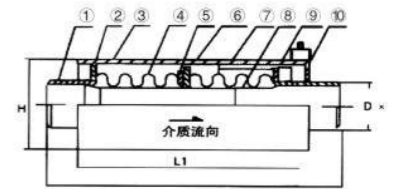
口径 Path DN	长度 Length mm	波数 wave number	压力等级 Pressure Level (MPa)			波纹管有效面积 Effective area of bellows (cm ²)	最大外径尺寸 Maximum Outer Diameter Size (mm)
			0.6	1.0	1.6		
			轴向补偿量mm, 刚度N/mm Axial compensation mm, stiffness N/mm				
50	432	10	41/231	39/225	37/286	81	φ270
	654	20	82/116	78/126	74/146		
65	488	10	41/231	39/255	37/286	82	φ290
	756	20	82/116	78/126	741/143		
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	960	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	255/75	200/113	160/205		
250	1080	8	161/111	130/162	105/378	1075	φ566
	1800	16	320/51	260/94	201/119		
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		

BW无约束型波纹补偿器 BW unconstrained ripple compensator

GB/T 12777-2008



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



【设计温度：+480℃ ~ +750℃ 设计压力：0.25Mpa~2.5Mpa 位移方向：轴向 口径：DN50-DN1000mm】

产品特点：Product characteristics

无约束补偿器用于管道的轴向补偿，补偿量大，具有强力自导向和超强的抗弯能力，从而可以简化管道导向支架的设计，使导向支架的间距安装均可任意。

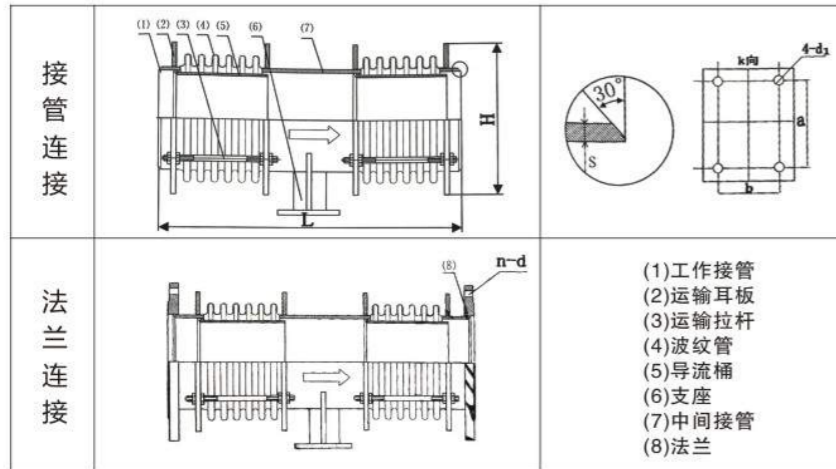
The unconstrained compensator is used to compensate the pipeline axially. It has a large amount of compensation, strong self-steering and strong bending resistance. It can simplify the design of the pipeline guide bracket and make the installation of the guide bracket spacing arbitrary.

主要连接尺寸 Main connection size

口径 Path DN	波数 wave number	压力等级(pressure)(MPa)			波纹管有效面积 Effective area of bellows (cm ²)	接管端口尺寸 Nozzle port size (mm)	总长 Total length (mm)
		1.0MPa	1.6MPa	2.5MPa			
		轴向补偿mm, 刚度N/mm Axial compensation mm, Toughness N/mm					
50	8	12/318	12/635	11/1310	50	φ57×3.5	350
	16	24/158	24/318	23/655			480
	32	48/79	48/159	46/328			620
65	8	18/8213	18/424	15/841	55	φ73×4	440
	12	27/4142	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		1611	φ426×10	665
450	6	84/460	80/1537	63/1838	1972	φ478×10	720
500	6	84/485	80/1635	75/2175	2445	φ529×10	720
600	6	105/978	101/1060	75/2128	3534	φ630×10	780
700	6	10/1083	104/1982	96/1420	4717	φ720×10	850
800	4	74/1778	70/3183	98/2050	5822	φ820×10	750
900	4	74/1329	70/2575	66/6234	7620	φ920×10	750
1000	4	78/2270	74/5038		9043	φ1020×10	780



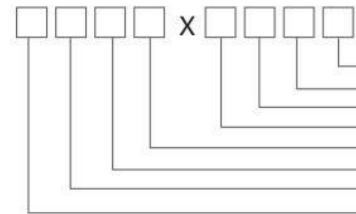
轴向型复式波纹补偿器 Axial type compound ripple compensator



- (1)工作接管
- (2)运输耳板
- (3)运输拉杆
- (4)波纹管
- (5)导流桶
- (6)支座
- (7)中间接管
- (8)法兰

【工作温度：≤420℃ 工作压力：0.1~2.5Mpa 位移方向：轴向 口径：DN32mm-DN700mm】

产品代号标注 Product code



法兰、接管材料代号：低碳钢则不注；不锈钢则注B。
法兰连接注“F”，接管连接注“J”。
带导流筒标志(若不带，则不注“T”)。
波纹管波数之和。
公称口径(mm)。
结构形式：双层标注S；带铠装环标注K；若不带则不注K。
型号SHLZF。
公称压力(Mpa)。

举例：1.6SHLZFSK600x16TJ
表示公称口径为600(mm)，公称压力为1.6 Mpa，波纹管总波数为16个波，带铠装环，带导流桶，碳钢接管连接的复式拉杆轴向型波纹补偿器。

产品特点 Product features

该类膨胀节由两段波纹管，短中间接管及长控杆等零件构成，它只吸收轴向位移量。它的长拉杆是承力构件。
This kind of expansion joint is composed of two sections of bellows, a short middle pipe and a long control rod. Its long pull rod is a bearing member.

安装使用注意事项 Installation and use notes

- a) 装有内衬筒时，其方向应与介质流向致(膨胀节上有流向标志)。
- b) 现场安装完毕后，须将环板两侧的螺母退至限位螺母处。
- A) when the inner liner is installed, its direction should be consistent with the flow direction of the medium (there is a flow direction mark on the expansion joint).
- B) after field installation, the nuts on both sides of the ring plate shall be retreated to the limit nut.

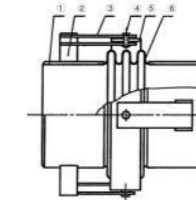
主要连接尺寸 Main connection size

复式拉杆轴向型：设计压力：P ₀ =1.0Mpa (10kgf/cm ²) 疲劳寿命【N】=200次 设计温度：t=20℃									
口径 DN	波数 n	产品总长 L	接管口径 C	接管口径 N-d	产品重量	法兰尺寸	产品总长	接管口径	产品重量
80	20	108	105	112	290	900	910	LZF	
100		146	103	132	310				
125		205	99	160	340				
150		276	95	189	380				
200	16	551	201	174	460	1120	1170	LZFS	
250		798	195	211	530				
300		1109	252	180	580				
350		1437	248	204	660				
400		1793	243	227	720				
450		2205	238	252	780				
500		2649	233	276	850				
600		3772	343	368	1000				
		1800		1824					

JWJ单式万向铰链型波纹补偿器 JWJ Single Universal Hinge Corrugation Compensator GB/T 12777-2008



- ①端管；
- ②立板；
- ③铰链板；
- ④销轴；
- ⑤万向环；
- ⑥波纹管



设计温度：-20℃ ~ +400℃
设计压力：0.25Mpa ~ 2.5Mpa
疲劳寿命：1000次
位移方向：(吸收任意平面的角位移)
口径：DN65-DN3000mm

产品结构特点 Product structure characteristics

该补偿器/膨胀节有一个万向环，在万向环的周向有相互垂直的两对铰链结构，因此它能吸收任意平面的角位移。通常吸收位移时，应有两个或三个组合使用。

The compensator/expansion joint has a universal ring and two vertical hinges in the circumferential right of the universal ring, so it can absorb the angular displacement of any plane. Usually when absorbing displacement, two or three combinations should be used.

安装使用注意事项 Cautions for Installation and Use

- 1、补偿器上的小拉杆只作为运输、安装和“冷紧”用，安装完毕后必须将其拆除。
- 2、补偿器角变形较大或系统工作压力较高时，推荐产品在安装时进行“冷紧”，一般为50%冷紧或100%冷紧。冷紧的优点主要在于改善膨胀节及管线的工作稳定性。
- 1. The small tie rod on the compensator is only used for transportation, installation and "cold tightening". After installation, it must be removed.
- 2. When the angular deformation of compensator is large or the working pressure of the system is high, the recommended product should be "cold-tightened" during installation, usually 50% cold-tightened or 100% cold-tightened. The advantages of cold tightening are mainly to improve the working stability of expansion joints and pipelines.

主要连接尺寸 Main connection size

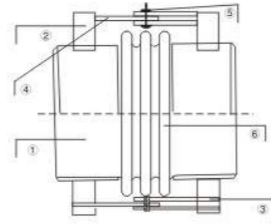
序号 No	口径 DN	波数 n	横向补偿mm/横向刚度N/mm Lateral Compensation mm/Lateral Stiffness N/mm					径向最大外形尺寸 Maximum Profile Size	接管端口尺寸		产品重量 Product weight Kg				
			产品总长	产品总长	产品总长	产品总长	产品总长		法兰尺寸	法兰尺寸	产品总长	产品总长	产品总长	产品总长	
			1200	1500	2000	2500	3000	mm	C	N-d	1200	1500	2000	2500	3000
1	100	4+4	91/4	127/2	187/1	274/06	330	φ1804	46	55	71	86			
2			φ180 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			φ210 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			φ240 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			φ295 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			φ355 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			φ410 12-φ25	259	278	343		408	473						
13	350	3+3	160/38	225/20	291/13	662	φ377×8	306	324	389	454				
14			φ470 16-φ25	333	371		436	501							
15	400	3+3	95/96	144/52	202/28	262/17	710	φ426×8	395	408	483	557			
16			φ525 16-φ30	470	545	619									
17	450	3+3	85/130	115/90	162/48	210/29	776	φ478×8	464	561	658	755			
18			φ585 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			φ650 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			φ770 20-φ41	916	1059	1202		1345							

JJL单式铰链型波纹补偿器 JJL single hinge type ripple compensator

GB/T 12777-2008



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



设计温度: $-20^{\circ}\text{C} \sim +400^{\circ}\text{C}$
设计压力: $0.1\text{Mpa} \sim 2.5\text{Mpa}$
疲劳寿命: 1000次
位移方向: (吸收任意平面的角位移)
口径: DN65-DN3000mm

产品特点 Product characteristics

此类补偿器/膨胀节由接管、波纹管及与接管相连的一对铰链构成。它只能吸收单平面的角向位移。吸收位移时应有两个或三个角向型膨胀节组合使用。膨胀节的铰链具有承受内压推力的能力。

The compensator/expansion joint consists of a nozzle, a bellows and a pair of hinges connected to the nozzle. It can only absorb the angular displacement of a single plane. Two or three angular expansion joints should be combined to absorb displacement. The hinge of expansion joint has the ability to withstand internal pressure thrust.

主要连接尺寸 Main connection size

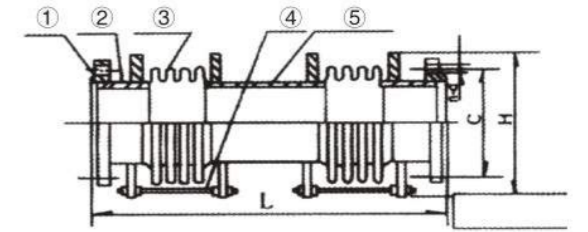
口径 Path DN	压力等级MPa Pressure grade Mpa				
	0.25	0.6	1.0	1.6	2.5
	长度mm角向补偿量mm/(度) 刚度N.m/度 Length m m Angular Compensation m m/(Degree) Stiffness N.m/Degree				
150	600/±8.9/12	600/±5.0/23	600/±4.3/36	600/±3.47/76	600/±3.07/87
200	600/±8.9/36	600/±6.4/50	650/±5.1/115	650/±4.3/115	700/±3.5/278
250	600/±8.9/36	600/±4.9/79	650/±3.6/200	650/±3.3/320	700/±3.8/489
300	650/±7.2/36	650/±4.7/109	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/±3.8/1562	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		

JXH小拉杆轴向型波纹补偿器 JXH small pull rod axial corrugation compensator

GB/T 12777-2008



- ①法兰;
- ②接管;
- ③波体;
- ④拉杆;
- ⑤中间管



【设计温度: $-20^{\circ}\text{C} \sim +400^{\circ}\text{C}$ 设计压力: $0.25\text{Mpa} \sim 2.5\text{Mpa}$ 疲劳寿命: 1000次 位移方向: (横向、轴向) 口径: DN100-DN3000mm】

产品特点 Product characteristics

该类补偿器/膨胀节由两段波纹管、中间接管及带有限位螺母的小拉杆等零件组成,它在吸收横向位移的同时,还吸收轴向位移。小拉杆不能承受内压推力。

This kind of compensator/expansion joint consists of two sections of bellows, intermediate nozzles and small tie rods with limit nuts. It absorbs both transverse displacement and axial displacement. The small tie rod can not withstand the internal pressure selection force.

安装使用注意事项 Notes for installation and use

- 1、用户使用时若不需要小拉杆,请在订货时注明。
 - 2、用户使用时若需要小拉杆,则在安装后务必将螺母松开并离开耳板(或撑板)一段距离(数值由轴向补偿量确定)。
 - 3、若实际补偿量大于样本上的规定值(寿命 $N \leq 1000$ 次),则产品在安装后必须拆除小拉杆。
1. If the user does not need a small pull rod when using, please indicate when ordering.
2. If the user needs a small pull rod when using, the nut must be loosened after installation and a distance away from the ear plate (or support plate) (the value is determined by the axial compensation).
3. If the actual compensation measure is larger than the prescribed value on the sample (life $N < 1000$ times), the small tie rod must be removed after installation.

主要连接尺寸 Main connection size

公称口径 Nominal diameter DN	压力0.6MPa pressure0.6Mpa		压力1.0MPa pressure1.0Mpa		压力1.6MPa pressure1.6Mpa		有效面积 Effective area A cm ²	焊接短管 Welded stub d x t mm	总长 Total length L mm	重量 weight kg F/H
	横向位移轴向刚度 Transverse displacement axial stiffness mm/(N/mm)	纵向位移轴向刚度 Transverse displacement axial stiffness mm/(N/mm)	横向位移轴向刚度 Transverse displacement axial stiffness mm/(N/mm)	纵向位移轴向刚度 Transverse displacement axial stiffness mm/(N/mm)	横向位移轴向刚度 Transverse displacement axial stiffness mm/(N/mm)	纵向位移轴向刚度 Transverse displacement axial stiffness mm/(N/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	65/70.5	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



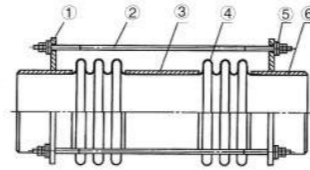
JDH大拉杆横向型波纹补偿器

JDH large tie rod transverse corrugation compensator

GB/T 12777-2008



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



设计温度: -20℃ ~ +400℃ 设计压力: 0.25MPa~1.6Mpa 疲劳寿命: 1000次
位移方向: (吸收任意平面内的横向位移) 口径: DN100-DN3000mm

使用说明 Instructions

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。
The transverse corrugation compensator with large tie rod can compensate the transverse displacement of the bending section and the angular displacement with small value, which is not usually used to compensate the angular displacement. The compensator is composed of a nozzle, two bellows and a large tie rod. It can absorb transverse displacement in any plane of pipe system. The displacement spherical nut rotates around the spherical washer, and the tie rod also has the ability to withstand internal pressure and thrust.

产品特点 Product characteristics

该补偿器/膨胀节是由两个波纹管、长中间接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。位移时大拉杆上的球面螺母绕球面垫圈转动, 同时大拉杆还具有承受内压推力的能力。
The compensator/expansion joint is composed of two bellows, a long middle pipe and a large tie rod, which can absorb transverse displacement in any plane of the pipe system. The spherical nut on the large tie rod rotates around the spherical washer when displacement occurs. At the same time, the large tie rod also has the ability to withstand internal pressure and thrust.

安装使用注意事项 Cautions for Installation and Use

- 1、膨胀节上的小拉杆是安装运输“冷紧”用的, 不可作为承力件, 产品在管道上安装完毕后必须将其拆除, 方可投入运行。
- 2、当对膨胀节的横向位移量要求较大或系统压力较高时, 可对膨胀节进行“冷紧冷量”这实际横向位移的一半, 既12Y。冷紧方向与横向位移方向相反进行

主要连接尺寸 Main connection size

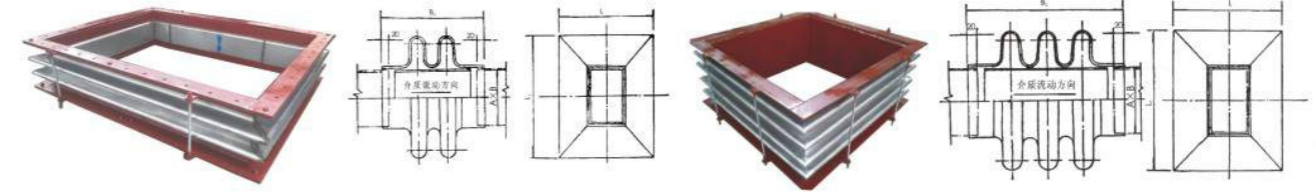
工作温度 ≤420℃ 疲劳寿命 1500次

公称口径 DN Nominal Path mm	波数 wave number	压力等级 Pressure grade Mpa	横向补偿量mm/刚度Nmm Transverse compensation mm/stiffness Nmm					最大外径尺寸 Maximum Outer Diameter Size mm
			产品长度mm Product length mm					
			1200	1500	2000	2500	3000	
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	59/69	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		127/329	202/17	277/10	660	
		1.6		169/28	169/28	234/15	299/10	660
		2.5		91/113	148/47	215/26	262/16	660

FGFB型矩形单波/多波膨胀节

Fibroblast Type Rectangular Single-Wave/Double-Wave Expansion Joint

D-LD2000-63101-63124



使用温度: -40℃ ~ +420℃ 设计压力: 真空 ~ 0.1Mpa 位移方向: (轴向) 口径: DN300-DN6000mm

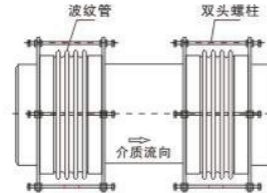
用于输送气体或含尘气体, 任意矩形, 圆形截面的烟气, 通风和鼓风机管道, 作补偿位移减振用。
It is used for conveying gas or dusty gas, flue gas with arbitrary rectangular or circular cross section, ventilation and blower ducts, for compensating displacement and reducing vibration.

主要连接尺寸 Main connection size

序号 NO	标号 Grade	公称口径DN Nominal diameter	毫米 mm				重量 weight (kg)
			A	B	L	B ₁	
1	D-LD2000-63101	300 × 400	300	400	709	609	39
2	D-LD2000-63102	300 × 500		500	809		44
3	D-LD2000-63103	300 × 600		600	909		48
4	D-LD2000-63104	300 × 700		700	1009		53
5	D-LD2000-63105	400 × 500	400	500	809	709	48
6	D-LD2000-63106	400 × 600		600	909		53
7	D-LD2000-63107	400 × 700		700	1009		57
8	D-LD2000-63108	400 × 800		800	1109		62
9	D-LD2000-63109	500 × 600	500	600	909	809	57
10	D-LD2000-63110	500 × 800		800	1109		66
11	D-LD2000-63111	500 × 900		900	1209		71
12	D-LD2000-63112	500 × 1000		1000	1413		112
13	D-LD2000-63113	600 × 700	600	700	1009	909	66
14	D-LD2000-63114	600 × 800		800	1109		71
15	D-LD2000-63115	600 × 900		900	1313		112
16	D-LD2000-63116	700 × 500		500	809		62
17	D-LD2000-63117	700 × 700	700	700	1009	1009	71
18	D-LD2000-63118	700 × 800		800	1213		112
19	D-LD2000-63119	800 × 800		800	1213		119
20	D-LD2000-63120	800 × 1200		800	1200		1613
21	D-LD2000-63121	800 × 1600	800	1600	2013	1209	172
22	D-LD2000-63122	900 × 400		400	709		66
23	D-LD2000-63123	900 × 700		700	1113		119
24	D-LD2000-63124	900 × 1200		1200	1613		152

BYZMF煤粉管道三向型波纹补偿器

BYZMF Pulverized Coal Pipeline Three-Directional Corrugation Compensator
D-LD2000-65301-65339



设计温度: $-20^{\circ}\text{C} \sim +400^{\circ}\text{C}$
设计压力: $0.25\text{Mpa} \sim 2.5\text{Mpa}$
疲劳寿命1000次
位移方向: (任意方向)
口径: DN100-DN3000mm

一、概况 General Situation

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。

本部件一般设在燃烧器入口水平或垂直送粉管道上。

The three-way compensator of pulverized coal pipeline is mainly used in the pulverized coal feeding pipeline of power plant boilers to absorb the downward thermal expansion of the boiler hearth, the transverse expansion of the furnace hearth and the thermal displacement of the pulverized coal feeding pipeline. The compensator can absorb displacement in any direction.

This part is usually installed on the horizontal or vertical powder feeding pipe of the burner inlet.

1、水平布置 Horizontal arrangement

标号: D-LD2000-65301-65339

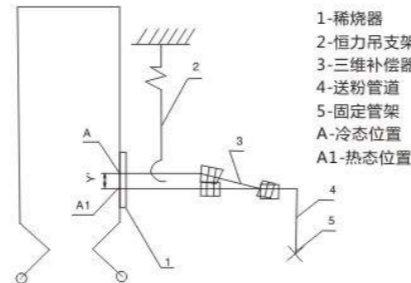
补偿器位移形式: 主要吸收横向位移和少量轴向位移。

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:

Label: D-LD2000-65301-65339

Compensator displacement form: mainly absorb transverse displacement and a small amount of axial displacement.

In order to reduce wear and flow resistance, this part is usually installed in the field according to the cold-tight state (also known as biased loading). The cold-tight amount Y is generally 50%~100% of the downward expansion amount when the burner interface is hot, as shown below:



- 1-稀烧器
- 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 Vertical arrangement

标号: D-LD2000-65341-65379

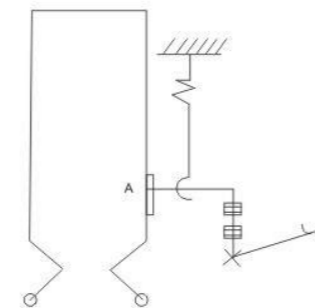
补偿器位移形式: 主要吸收轴向位移和较小横向位移。为减少A点

受力, 本部件在制造厂家出厂前进行预拉伸, 如下图示:

Label: D-LD2000-65341-65379

Compensator displacement form: mainly absorb axial displacement and small lateral displacement. To reduce point A

Forced, the component is pre-stretched before the manufacturer leaves the factory, as shown below:



二、性能参数 Performance parameter

- 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OCr17Ni14Mo2, 外层OCr18Ni9 (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) Operating temperature (C)	20	100	150	200	250	300	350	400	400
刚度修正系数fk Stiffness correction factor FK	1.0	0.99	0.98	0.97	0.95	0.93	0.90	0.86	0.84
刚度值 Stiffness value	$Kx = f_k \cdot Kx_0$				$Ky = f_k \cdot Ky_0$				

- 5、补偿量: 补偿同时吸收轴向位移X、横向位移Y, 应满足 $X \leq X_0$, $Y \leq Y_0$, 参数表中列出的轴向补偿量主要为压缩移。
- 6、疲劳寿命: 参数表中列出的补偿量对应的疲劳寿命 ≥ 1000 次。
- 7、连接方式: 对焊连接

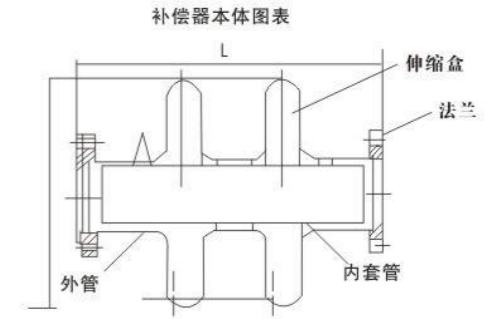
三、订货时需提供的参数 Parameters To Be Supported In Order

- 1、送粉管道的外径×壁厚;
- 2、产品的长度及补偿量。

1. External diameter * wall thickness of powder feeding pipeline;
2. Length and compensation of products.

DBHKXW型大波纹管板盒型可限位伸缩补偿器

DBHKXW Limited Telescopic Compensator with Large Corrugated Plate Box
GB/T 12777-2008



【工作温度: $-15^{\circ}\text{C} \sim 200^{\circ}\text{C}$ 工作压力: $0.6 \sim 1.6\text{Mpa}$ 位移方向: 轴向 口径: DN32mm-DN500mm】

产品说明 Product description

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。

The plate-box type limited pipe compensator is one of the important parts of pipeline installation. It has the advantages of small size, convenient installation, small occupied area, low labor intensity, labor saving, material saving and good practicability. Expansion in 60-120 mm, no seepage, no leakage, no filler, good expansion performance, safety and reliability, and can save maintenance workload, while installation without expansion wells, reduce project cost. The compensator structure is novel and reasonable, no vulnerable parts, small size, light weight, easy to install and transport, is an ideal product for pipeline installation.

设计安装数据表 Design and Installation Data Table

序号 NO	规格 Specifications	公称口径DN Nominal Diameter	补偿量 (mm) Compensation	峰顶直径 (mm) Peak diameter	产品长度 (mm) Product length
1	1.2"二波 two waves	32	60 = ±30	170	245
2	1.5"二波 two waves	40	60 = ±30	190	255
3	2"二波 two waves	50	60 = ±30	300	325
4	2.5"二波 two waves	65	60 = ±30	320	336
5	3"二波 two waves	80	60 = ±30	360	340
6	4"二波 two waves	100	60 = ±30	400	350
7	5"二波 two waves	125	60 = ±30	433	360
8	6"二波 two waves	150	60 = ±30	477	385
9	8"二波 two waves	200	60 = ±30	527	390
10	10"二波 two waves	250	60 = ±30	579	420
11	12"二波 two waves	300	60 = ±30	635	435
12	14"二波 two waves	350	60 = ±30	635	440
13	16"二波 two waves	400	60 = ±30	760	460
14	18"二波 two waves	450	60 = ±30	810	460
15	20"二波 two waves	500	120 = ±60	860	460
16	2"四波 four waves	50	120 = ±60	300	590
17	2.5"四波 four waves	65	120 = ±60	360	610
18	3"四波 four waves	80	120 = ±60	360	610
19	4"四波 four waves	100	120 = ±60	400	625
20	5"四波 four waves	125	120 = ±60	433	625
21	6"四波 four waves	150	120 = ±60	477	700
22	8"四波 four waves	200	120 = ±60	527	705
23	10"四波 four waves	250	120 = ±60	579	830
24	12"四波 four waves	300	120 = ±60	635	820
25	14"四波 four waves	350	120 = ±60	635	885
26	16"四波 four waves	400	120 = ±60	760	900
27	18"四波 four waves	450	120 = ±60	810	950
28	20"四波 four waves	500	120 = ±60	860	950

设计、施工须知 Design and Construction Notes

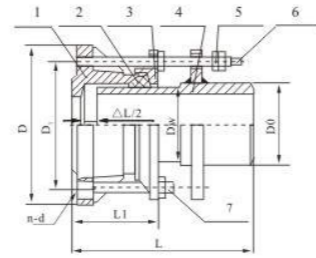
- 1、本产品使用压力在1.6MPa以下, 使用介质: 热水、蒸汽、煤气, 各种油, 温度与管道相同, 高层建筑使用最佳;
- 2、本产品最大推力0.8-1.2T, 使用疲劳寿命6500次;
- 3、本产品可广泛应用于架空管道, 地沟管道, 直埋管道;
- 4、补偿器转向支架可设可不设;
- 5、本产品只限轴向安装使用(直线管道);
- 6、本产品用于地沟管道时不用砌补偿器井;
- 7、安装时严禁在补偿器的伸缩盒上点火;
- 8、本产品二波预拉25-30mm, 四波预拉50-60mm;
- 9、实践证明, 在高温水热力管网上, 60m以上应设二波伸缩器一个, 蒸汽管道应按设计标准30m以内安装二波伸缩器一个。

1. The use pressure of this product is less than 1.6 MPa, using medium: hot water, steam, gas, all kinds of oil, temperature and pipeline are the same, high-rise buildings use the best;
2. The maximum thrust of the product is 0.8-1.2T and the fatigue life is 6500 times.
3. The product can be widely used in overhead pipeline, underground ditch pipeline and directly buried pipeline.
4. Compensator steering bracket can be set or not.
5. The product is only used axially (straight line pipe);
6. When the product is used in underground ditch pipeline, it does not need to build compensator wells.
7. It is strictly forbidden to ignite on the expansion box of the compensator during installation.
8. Two-wave pre-stretching 25-30 mm and four-wave pre-stretching 50-60 mm.
9. Practice has proved that in high temperature hydrothermal pipeline network, one two-wave expander should be installed over 60m, and one two-wave expander should be installed in steam pipeline within 30m according to the design standard.



VSSJA-1 (BF) 型单法兰限位伸缩接头

VSSJA-1 (BF) Single Flange Limited Telescopic Joint

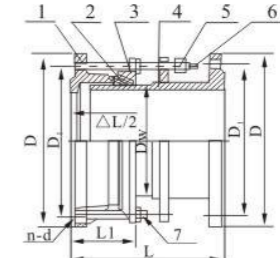


工作温度: $-20^{\circ}\text{C} \sim 115^{\circ}\text{C}$ 工作压力: 0.6-2.5Mpa 位移方向: 轴向伸缩 通径: DN65-DN3200

序号 NO	名称 Name	数量 Number	材料 Material
1	本体 Noumenon	1	QT400-15, Q235A, ZG230-450, 20
2	密封圈 Seal ring	1	NBR
3	压盖 Gland	1	QT400-15, Q235A, ZG230-450, 20
4	限位短管 Limit stub	1	Q234A, 20, 16Mn
5	螺母 Nut	4n	Q235A, 20, 1Cr8Ni9Ti
6	长螺柱 Long stud	n	Q235A, 35, 1Cr8Ni9Ti
7	螺柱 Stud	n	Q235A, 35, 1Cr8Ni9Ti

VSSJA-2 (B2F) 型双法兰限位伸缩接头

VSSJA-2 (B2F) Double Flanged Limited Telescopic Joint



序号 NO	名称 Name	数量 Number	材料 Material
1	本体 Noumenon	1	QT400-15, Q235A, ZG230-450, 20
2	密封圈 Seal ring	1	NBR
3	压盖 Gland	1	QT400-15, Q235A, ZG230-450, 20
4	限位短管 Limit stub	1	Q234A, 20, 16Mn
5	螺母 Nut	4n	Q235A, 20, 1Cr8Ni9Ti
6	长螺柱 Long stud	n	Q235A, 35, 1Cr8Ni9Ti
7	螺柱 Stud	n	Q235A, 35, 1Cr8Ni9Ti

安装数据表 Install data sheet

公称通径DN Nominal diameter	管子外径D _o Outer diameter of pipe	外形尺寸 Out Dimension		伸缩量 ΔL Displacement	法兰连接尺寸 Flange Connection Size						
		L	L ₁		0.6Mpa			1.0Mpa			
					D	D ₁	n-do	D	D ₁	n-do	
65	76	340	105	50	160	130	4-φ14	185	145	4-φ18	
80	89				190	150	200	160	8-φ18		
100	108				210	170	220	180			
	114										
125	133	340	105	50	240	200	8-φ18	250	210	8-φ18	
	140										
150	159				265	225	285	240	8-φ22		
	168										
200	219	350	130	65	320	280	8-φ18	340	295	8-φ22	
250	273				375	335		395	350		
300	325				440	395	445	400	12-φ22		
350	377				490	445	505	460			
400	426				540	495	565	515	16-φ22		
450	480				595	550	615	565	20-φ26		
500	530				645	600	670	620	20-φ30		
600	630				755	705	780	725			
700	720				860	810	895	840	24-φ30		
		590	220	130	975	920	24-φ30	1015	950	24-φ33	
900	920				1075	1020	1115	1050	28-φ33		
1000	1020				1175	1120	1230	1160	28-φ36		
1200	1220				1405	1340	1455	1380	32-φ40		
1400	1420				1630	1500	1675	1590	36-φ42		
1500	1520				1730	1660					
1600	1620				1830	1760	1915	1820	40-φ48		
1810	1820				2045	1970	2115	2020	44-φ48		
2000	2020				2265	2180	2325	2230	48-φ48		
2200	2220				2475	2390	2550	2440	52-φ56		
2400	2420	2685	2600	2760	2650	60-φ56					
2600	2620	2905	2810	2960	3070	64-φ56					
2800	2820	3115	3020	3180	3290	68-φ60					
3000	3020	3315	3220	3405							
3200	3220	3525	3430	72-φ48							
3400	3420	3735	3640	76-φ48							
3600	3620	3970	3860	80-φ56							

注: 本尺寸符合GB/T12456-2002标准

双法兰限位伸缩接头: 该产品适用于两边均与法兰连接, 安装时调整产品两端连接长度, 对角依次均匀拧紧压盖螺栓, 再调整好限位螺母, 这样就能让管道自由伸缩, 锁定伸缩量, 确保管道的安全运行。

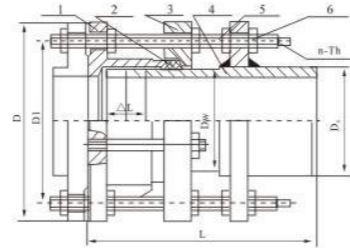
Double Flange Limited Expansion Joint: This product is suitable for connecting flange on both sides, adjusting the length of connection at both ends of the product, tightening the cover bolt diagonally in turn, and then adjusting the limit nut, so as to allow the pipeline to expand freely, lock the expansion amount, and ensure the safe operation of the pipeline.

主要外型尺寸 Main Outward Size

公称通径 Nominal diameter DN	管子外径 Outer diameter of pipe		外形尺寸 Out Dimension		伸缩量 Displacement ΔL	法兰连接尺寸 Flange Connection Size								
	DW	D ₀	L	L ₁		0.6Mpa			1.0Mpa					
						D	D ₁	n-do	D	D ₁	n-do			
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					
	114	114												
125	133	133				350	130	65	240	200	8-φ18	250	210	8-φ22
	140	140												
150	159	159							265	225	285	240	8-φ22	
	168	168												
200	219	219							320	280	340	295	8-φ22	
250	273	273							375	335	395	350		
300	325	325	440	395	445				400	12-φ22				
350	377	377	490	445	505				460		16-φ22			
400	426	426	540	495	565				515	16-φ26				
450	480	480	595	550	615				565	20-φ26				
500	530	530	645	600	670	620	20-φ30							
600	630	630	755	705	780	725								
700	720	720	860	810	895	840	24-φ30							



VSSJAFG (CF) 型单法兰传力接头 VSSJAFG(CF) Single Flange Force Transfer Joint



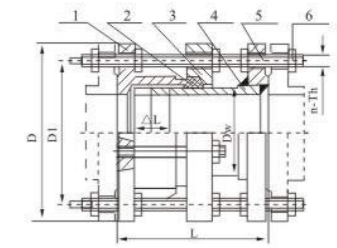
序号 NO	名称 Name	数量 Number	材料 Material
1	本体 Nomenclon	1	QT400-15, Q235A, ZG230-450, 20
2	密封圈 Seal ring	1	NBR
3	压盖 Gland	1	QT400-15, Q235A, ZG230-450, 20
4	短管法兰 Short pipe flange	1	Q234A, 20, 16Mn
5	螺柱 Stud	n	Q235A, 35, 1Cr8Ni9Ti
6	螺母 Nut	5n	Q235A, 20, 1Cr8Ni9Ti

安装数据表 Install data sheet

公称通径 Nominal diameter DN	管子外径 Outer diameter of pipe		外形尺寸 Out Dimension		法兰连接尺寸 Flange Connection Size									
					0.6Mpa				1.0Mpa					
					D _w	D _o	L	ΔL	D	D ₁	n-Th	b	D	D ₁
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	20	220	180	8-M16	24		
125	140	140			240	200			250	210				
150	168	168			265	225	8-M20	22	285	240	8-M20	26		
200	219	219			320	280			340	295				
250	273	273	420	50	375	335	12-M16	24	395	350	12-M20	28		
300	325	325			440	395	12-M20	26	445	400	12-M20	30		
350	377	377			490	445			505	460			16-M20	32
400	426	426			540	495	12-M20	28	565	515	16-M24	32		
450	480	480			595	550			615	565			20-M24	34
530	530	530			645	600	20-M20	30	670	620	20-M24	36		
600	630	630			440	50	755	705	20-M24	30	780	725	20-M27	40
700	720	720					860	810	24-M24	32	895	840	24-M27	44
800	820	826			600	60	975	920	24-M27	34	1015	950	24-M30	46
900	920	926					1075	1020	24-M27	36	1115	1050	28-M30	50
1000	1020	1026					1175	1120	28-M27	36	1230	1160	28-M33	56
1200	1220	1226					620	60	1405	1340	32-M30	40	1455	1380
1400	1420	1428	1630	1560					36-M33	44	1675	1590	36-M39	68
1600	1620	1628	650	80			1830	1760	40-M33	48	1915	1820	40-M45	70
1800	1820	1828					2045	1970	44-M36	50	2115	2020	44-M45	74
2000	2020	2030					2265	2180	48-M39	54	2325	2230	48-M45	80
2400	2420	2230					2475	2390	52-M39	60	2550	2440	52-M52	82
2200	2220	2430					2685	2600	56-M39	62	2760	2650	56-M52	88
2600	2620	2630					750	80	2905	2810	60-M45	64	2960	2850
2800	2820	2830	3115	3020					64-M45	68	3180	3070	64-M52	100
3000	3020	3030	3315	3220	68-M45	70			3405	3290	68-M56			
3200	3220	3230	3525	3430	72-M45	76								

单法兰传力接头：该产品适用于一边与法兰连接，一边与管道焊接。安装时调节产品两端与管道或法兰的安装长度，安装和焊接完毕后，对角依次均匀拧紧压盖螺栓，合其成为一个，并有一定的位移量，方便安装维修时，根据现场尺寸进行调整。在工作时可以轴向推力传递至整个管道。
Single Flange Force Transfer Joint: This product is suitable for welding pipeline and flange on one side. When installing, adjust the installation length of both ends of the product and pipeline or flange. After installing and welding, tighten the cover bolt diagonally and evenly to form one, and have a certain amount of displacement. It is convenient to install and repair, adjust according to the size of the site. Axial thrust can be transmitted to the whole pipeline during operation.

VSSJAF (C2F) 型双法兰传力接头 VSSJAF (C2F) Double Flanged Force Transfer Joint



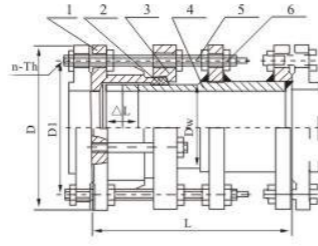
序号 NO	名称 Name	数量 Number	材料 Material
1	本体 Nomenclon	1	QT400-15, Q235A, ZG230-450, 20
2	密封圈 Seal ring	1	NBR
3	压盖 Gland	1	QT400-15, Q235A, ZG230-450, 20
4	短管法兰 Short pipe flange	1	Q235A, 20, 16Mn
5	螺柱 Stud	n	Q235A, 35, 1Cr8Ni9Ti
6	螺母 Nut	5n	Q235A, 20, 1Cr8Ni9Ti

安装数据表 Install data sheet

公称通径 Nominal diameter DN	管子外径 Outer diameter of pipe		外形尺寸 Out Dimension		法兰连接尺寸 Flange Connection Size											
					0.6Mpa				1.0Mpa							
					D _w	D _o	L	ΔL	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			220	180			8-M16	24		
125	140	140			240	200	8-M16	20	250	210	8-M20	26				
150	168	168			265	225			285	240						
200	219	219			320	280	8-M20	22	340	295	8-M20	28				
250	273	273			375	335			395	350			12-M20	30		
300	325	325			220	50	440	395	12-M20	26	445	400	12-M20	32		
350	377	377					490	445			505	460			16-M20	34
400	426	426					540	495	12-M20	28	565	515	16-M24	32		
450	480	480					595	550			615	565			20-M24	36
530	530	530					645	600	20-M20	30	670	620	20-M24	40		
600	630	630	240	50			755	705	20-M24	30	780	725	20-M27	44		
700	720	720					860	810	24-M24	32	895	840	24-M27	46		
800	820	826	600	60			975	920	24-M27	34	1015	950	24-M30	50		
900	920	926					1075	1020	24-M27	36	1115	1050	28-M30	56		
1000	1020	1026					1175	1120	28-M27	36	1230	1160	28-M33	62		
1200	1220	1226					370	60	1405	1340	32-M30	40	1455	1380	32-M36	68
1400	1420	1428							1630	1560	36-M33	44	1675	1590	36-M39	70
1600	1620	1628			380	60	1830	1760	40-M33	48	1915	1820	40-M45	74		
1800	1820	1828					2045	1970	44-M36	50	2115	2020	44-M45	80		
2000	2020	2030					2265	2180	48-M39	54	2325	2230	48-M45	82		
2400	2420	2230					2475	2390	52-M39	60	2550	2440	52-M52	88		
2200	2220	2430					2685	2600	56-M39	62	2760	2650	56-M52	94		
2600	2620	2630					400	80	2905	2810	60-M45	64	2960	2850	60-M52	100
2800	2820	2830			3115	3020			64-M45	68	3180	3070	64-M52			
3000	3020	3030	3315	3220	68-M45	70			3405	3290	68-M56					
3200	3220	3230	3525	3430	72-M45	76										

双法兰传力接头：由本体，密封圈，压盖，伸缩短管等主要部件组成。该产品适用于两边均匀与法兰连接的管道中，安装时调节产品两端与法兰的安装长度，对角依次均匀拧紧压盖螺栓，使其中成为一个整体，并有一定的位移量，方便安装维修时，根据现场尺寸进行调整。在工作是可以反轴向推力传递至整个管道。
Double flange force transfer joint: It is composed of main parts such as body, sealing ring, pressure cover, stretching and shortening pipe, etc. This product is suitable for pipes with even flanges on both sides. When installed, the installation length of both ends of the product and flanges is adjusted. The bolts are tightened diagonally in order to make them a whole body with a certain displacement. It is convenient for installation and maintenance to adjust according to the size of the site. In operation, the reverse axial thrust can be transmitted to the whole pipeline.

VSSJAFCC(CC2F)型可拆式双法兰松套传力接头 VSSJAFCC(CC2F) detachable double flanged loose sleeve force transfer joint



序号 NO	名称 Name	数量 Number	材料 Material
1	本体 Nomenclature	1	QT400-15, Q235A, ZG230-450, 20
2	密封圈 Seal ring	1	NBR
3	压盖 Gland	1	QT400-15, Q235A, ZG230-450, 20
4	短管法兰 Short pipe flange	1	Q234A, 20, 16Mn
5	螺柱 Stud	n	Q235A, 35, 1Cr8Ni9Ti
6	螺母 Nut	5n	Q235A, 20, 1Cr8Ni9Ti

安装数据表 Install data sheet

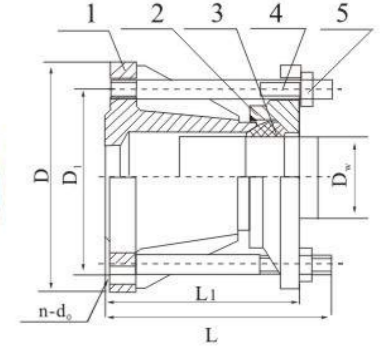
公称通径 Nominal diameter DN	管子外径 D _w Outer diameter of pipe	外形尺寸 Out Dimension		法兰连接尺寸 Flange Connection Size							
				0.6Mpa				1.0Mpa			
				L	ΔL	D	D ₁	n-Th	b	D	D ₁
65	76	400	40	160	130	4-M12	16	185	145	4-M16	20
80	89			190	150	4-M16	18	200	160	8-M16	22
100	114			210	170			220	180		
125	140			240	200	8-M16	20	250	210	8-M20	26
150	168			265	225			285	240		
200	219			320	280	22	340	295	8-M20	28	
250	273	375	335	12-M16	24	395	350	12-M20	28		
300	325	420	50	440	395	12-M20	24	445	400	12-M20	28
350	377			490	445	12-M20	26	505	460	16-M20	30
400	426			540	495			565	515	16-M24	32
450	480			595	550	20-M20	28	615	565	20-M24	32
530	530			645	600			670	620		
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	60	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			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		
2400	2420	2475	2390	52-M39	60	2550	2440	52-M52	80		
2200	2220	2685	2600	56-M39	62	2760	2650	56-M52	82		
2600	2620	2905	2810	60-M45	64	2960	2850	60-M52	88		
2800	2820	3115	3020	64-M45	68	3180	3070	64-M56	94		
3000	3020	3315	3220	68-M45	70	3405	3290	68-M27	100		
3200	3220	3525	3430	72-M45	76						

注：本尺寸符合GB/T12456-2002标准

可拆式双法兰传力接头：安装在管道上后，根据所需的伸缩距离进行限位，拧紧螺母，弹性密封圈在螺母压盖的作用下依靠相互斜度紧压在管子外圈起密封和连接作用，主要和管道阀门连接不但起到管道补偿作用，更方便了阀门的维修及更换。
Removable double flange force transfer joint: After installed on the pipeline, according to the required expansion distance to limit the position, tighten the nut, elastic seal ring in the role of nut cover relies on mutual oblique pressure to seal and connect the outer ring of the pipeline. The main connection with the pipeline valve not only plays the role of pipeline compensation, but also facilitates the maintenance and replacement of the valve.

VSSJA (AF) 型法兰式松套伸缩接头 VSSJA(AF) Flanged Sleeve Expansion Joint

工作温度：-20℃~115℃
工作压力：0.6-2.5Mpa
位移方向：轴向伸缩
通径：DN65-DN4000



序号 NO	名称 Name	数量 Number	材料 Material
1	本体 Nomenclature	1	QT400-15, Q235A, ZG230-450, 1Cr13, 20
2	压盖 Gland	1	QT400-15, Q235A, 20, ZG230-450, 1Cr13
3	密封圈 Seal ring	2	NBR, CR, FPM, NR
4	螺柱 Stud	n	Q235A, 35, 1Cr18Ni9Ti
5	螺母 Nut	n	Q235A, 20, 1Cr18Ni9Ti

主要外型尺寸 Main Outward Size

公称通径 Nominal diameter DN	管子外径 Outer diameter of pipe	长度 Length		法兰连接尺寸 Flange Connection Size								
				0.25Mpa			0.6Mpa			1.0Mpa		
				D	D ₁	n-do	D	D ₁	n-do	D	D ₁	n-do
65	76	118	160	130	4-φ14	160	130	4-φ14	185	145	4-φ18	
80	89		190	150	4-φ18	190	150	4-φ18	200	160	8-φ18	
100	108	123	210	170		8-φ18	210		170	8-φ18		220
125	114		240	200	240		200	250	210			
150	133	130	265	225	16-φ22	260	225	16-φ22	285	240	16-φ22	
200	140		320	280		320	280		340	295		
250	159	160	375	335	12-φ18	375	335	12-φ18	395	350	12-φ22	
300	168		440	395		440	395		445	400		
350	185	130	490	445	12-φ22	490	445	12-φ22	505	460	12-φ22	
400	195		540	495		540	495		565	515		
450	210	160	595	550	16-φ22	595	550	16-φ22	615	565	16-φ22	
500	220		645	600		645	600		670	620		
600	235	130	755	705	20-φ26	755	705	20-φ26	780	725	20-φ30	
700	245		860	810		860	810		895	840		



SSJB (AY) 型压盖式松套伸缩接头 SSJB (AY) type gland-type loose sleeve expansion joint



序号 NO	名称 Name	数量 Number	材料 Material
1	压盖 Gland	2	QT400-15, Q235A, ZG230-450, 1Cr13, 20
2	套管 Bushing	1	Q235A, 20, 16Mn, 1Cr18Ni9Ti
3	密封圈 Seal ring	2	NBR, CR, FPM, NR
4	螺栓 Bolt	n	Q234A, 35, 1Cr18Ni9Ti
5	螺母 Nut	n	Q235A, 20, 1Cr18Ni9Ti

主要外型尺寸 Main Outward Size

公称通径 Nominal diameter DN	管子外径 Outer Diameter of Pipe	外形尺寸 Dimension		N-Th								
		长度 Length		D	0.25-1.6Mpa	2.5-6.4Mpa						
		L ₁	L									
65	76	180	208	155	4-M12	4-M12						
80	89			165								
100	108			195								
125	114			225								
125	133			220			255	4-M16	6-M16			
150	140									310		
150	159									335		
200	168									375		
225	219									440		
250	245			220			273	490	8-M20	10-M20		
300	273	540										
350	325	590										
350	355	645										
400	377	750										
400	406	290	355		855	12-M20		14-M20				
450	426				970						12-M24	16-M24
450	457				1070							
500	480				1170							
500	508				1405							
600	530			1590								
600	610			1690								
700	630			1795	20-M27		28-M27					
700	720			2000								
800	820			2200					22-M27	30-M30		
800	920	2420										
900	920	2635	24-M27	32-M30								
1000	1020	2835										
1000	1020	3030				26-M30		28-M30				
1200	1220	3240										
1400	1420	3440									28-M30	30-M30
1400	1420	3640										
1500	1520	3860			32-M33		34-M33					
1600	1620	4080										
1800	1820	4300							36-M33	38-M33		
1800	1820											
2000	2020		40-M33	40-M36								
2000	2020											
2200	2220											
2400	2420											
2600	2620											
2800	2820											
3000	3020											
3200	3220											
3400	3420											
3600	3620											
3800	3820											
4000	4020											

注：本尺寸符合GB/T12456-2002标准

压盖式伸缩接头：该产品适用于两边于管子插接、无需焊接，结构合理，密封，安装快速方便。

Cover-type expansion joint: This product is suitable for pipe insertion on both sides without welding, reasonable structure, sealing, quick and convenient installation.

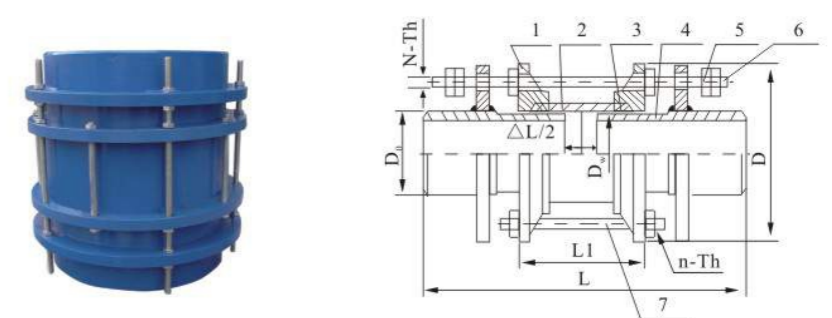
SSJB-3 (BY) 型压盖式松套限位伸缩接头 SSJB-3 (BY) type gland type loose sleeve limit expansion joint

工作温度：-20℃~115℃

工作压力：0.6-2.5Mpa

位移方向：轴向伸缩

通径：DN65-DN4000



序号 NO	名称 Name	数量 Number	材料 Material
1	本体 Nomenclature	2	QT400-15, Q235A, ZG230-450, 20
2	压盖 Seal ring	1	Q235A, 20, 16Mn
3	密封圈 Gland	2	NBR
4	限位短管 Limit stub	2	Q235A, 16, 16Mn
5	螺母 Nut	7n	Q235A, 20, 1Cr18Ni9Ti
6	长螺柱 Long stud	n	Q235A, 35, 1Cr18Ni9Ti
7	螺柱 Stud	n	Q235A, 35, 1Cr18Ni9Ti

主要外型尺寸 Main Outward Size

公称通径 Nominal diameter DN	管子外径 D _o Outer diameter of pipe		外形尺寸 Dimension		伸缩量 ΔL Displacement	n-Th		
	D _w	D _o	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	114	114	195					
	133	133	225					
125	140	140	225					
	159	159	255					
150	168	168	255					
	219	219	310					
250	273	273	375					
300	325	325	440					
350	377	377	490					
400	426	426	540					
450	480	480	590					
500	530	530	645					
600	630	630	750					
700	720	720	850					
800	820	820	965					
900	920	920	1065					
1000	1020	1020	1165					
1200	1220	1220	1365					
1400	1420	1428	1590					
1500	1520	1528	1690					
1600	1620	1628	1795					
1800	1820	1828	2000					
2000	2020	2030	2200					
2200	2220	2230	2420					
2400	2420	2430	2635					
2600	2620	2630	2835					
2800	2820	2830	3040					
3000	3020	3030	3240					
3200	3220	3230	3440					
3400	3420	3430	3640					
3600	3620	3630	3860					
3800	3820	3830	4080					
4000	4020	4030	4300					

注：本尺寸符合GB/T12456-2002标准

Note: This dimension meets GB/T12456-2002 standard.

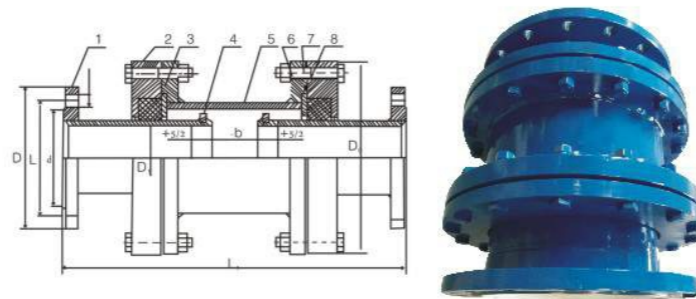


D型大挠度松套补偿接头 D-type large deflection loose sleeve compensating joint

GB/T12465-2007

D型大挠度松套补偿接头是由短管法兰、本体、压盖、挡圈、限位块、密封装置、压紧构件组成，它采用独特的抗轴力设计，结构简单，密封性能可靠抗拉脱能力强，用于吸收轴向位移和挠度为6-7度的角位移的管道松套连接装置。

D-type large deflection loose sleeve compensating joint is composed of short tube flange, body, cover, retaining ring, limit block, sealing device and compression component. It adopts unique Anti-axial force design, simple structure, reliable sealing performance and strong anti-pull-off ability. It is used to absorb pipeline loose sleeve connecting device with axial displacement and angular displacement of 6-7 degrees deflection.



工作压力: 0.6-1.6Mpa 位移方向: 轴向、角向 口径: DN100-DN3200mm
Working Pressure: 0.6-1.6Mpa Displacement: Axial, Angular Nominal Diameter: DN100-DN3200mm

序号 NO	名称 Name	数量 Number	材料 Material
1	短管法兰 Short pipe flange	2	Q235、20、不锈钢 Stainless Steel
2	固定螺柱 Fixed stud	-	Q235
3	固定螺母 Fixed nut	-	
4	压盖 Gland	2	Q235、20、不锈钢 Stainless Steel
5	滑动管 Slide pipe	1	Q235、20、不锈钢 Stainless Steel
6	螺栓 Bolt	1	Q235、35、不锈钢 Stainless Steel
7	螺母 Nut	-	
8	限位块 Limit block	2	Q235、20
9	挡圈 Retaining ring	2	
10	密封圈 Seal ring	2	NBR/FPM/NBR

D型大挠度松套补偿接头基本尺寸 Basic Dimensions of D-type Large Deflection Loose Sleeve Compensation Joints

公称尺寸 Nominal size DN	可挠量 DN torsion (°)	伸缩量 Expansion capacity ΔL	L	D ₁	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			530	440	395	2-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			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	6	±75	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	-	-	-	-	-	-

SSQ型钢制/铸铁伸缩器 SSQ steel/cast iron stretcher



工作温度: -20℃~115℃ 工作压力: 0.6-2.5Mpa 位移方向: 轴向、角向 口径: DN65-DN3000mm
Working Temperature: -20℃~115℃ Working Pressure: 0.6-2.5Mpa Displacement: Axial, Angular Nominal Diameter: DN100-DN3200mm

安装数据表 Install data sheet

公称口径DN Nominal Diameter	最小长度L Minimum length	安装长度L ₁ Installation length	最大长度L ₂ Maximum length	伸缩量ΔL Displayment
40	170	190	210	40
50	180	200	220	40
65	180	200	220	50
80	190	220	240	60
100	190	220	240	70
125	190	225	260	70
150	210	250	290	80
200	220	260	300	80
250	235	275	315	90
300	235	280	325	90
350	250	295	340	90
400	260	305	350	90
450	260	305	350	90
500	270	315	360	90
600	280	330	380	100
700	300	350	400	100
800	330	380	430	100
900	330	380	430	100
1000	350	400	450	100
1200	350	400	450	100
1400	390	445	500	110
1600	420	470	520	110
1800	450	510	560	120
2000	450	510	570	120
2200	480	545	610	130
2400	500	570	640	140
2600	540	615	690	150
2800	580	660	740	160
3000	650	750	850	200

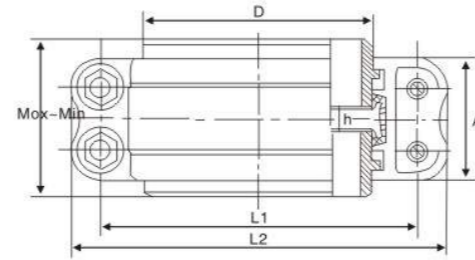
说明:

- 1、该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。

Noted:

1. The series of products provide great convenience for installation and replacement of various water supply and drainage pipelines, water towers, pumps, water meters and valves, and play a very good role in regulating the expansion of long-distance pipelines caused by temperature difference.
2. Before installation, loosen the disc bolt, pull the device to the installation length, and then tighten it diagonally. Do not flatten it. For overhead use, fixing brackets should be installed at both ends.

KRHD型钢质柔性接头 KRHD Steel Flexible Joint



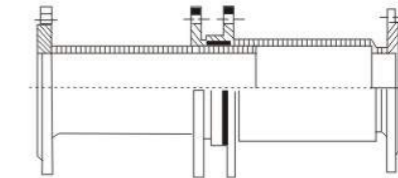
主要数据 Main data

外径接管 Outer diameter nozzle	公称通径 Nominal diameter	允许管端轴向符合 Axial coincidence allowed at pipe end	伸缩量 Expansion capacity	允许转角 Allowable corner	最小长度 Minimum length	安装长度 Installation length	最大长度 Maximum length	配用螺栓 Matching bolts
89	80	2680	20	17.90	90	100	110	12×60
108	100	3550	20	15.06	90	100	110	14×60
133	125	4620	20	13.05	95	105	115	14×60
159	150	5530	20	12.09	100	110	120	14×60
194	175	7370	20	10.51	100	110	120	16×60
219	200	9370	20	9.33	106	116	126	16×75
245	225	11750	20	8.36	112	122	132	16×80
273	250	14620	20	7.51	117	127	137	18×90
325	300	20680	20	6.32	120	130	140	18×100
377	350	27875	20	5.45	125	135	145	18×100
426	400	35600	20	4.80	130	140	150	18×110
480	450	45180	20	4.28	135	145	155	18×110
530	500	55120	20	3.88	140	150	160	18×120
630	600	65900	22	3.27	145	155	165	18×120
720	700	70170	22	2.86	150	160	170	20×120
820	800	84400	22	2.51	155	165	175	20×130
920	900	106200	22	2.24	160	170	180	20×130
1020	1000	116870	22	2.02	165	175	185	20×130
1220	1200	130600	24	1.69	170	170	190	22×140
1420	1400	146200	24	1.45	175	185	195	22×140
1620	1600	158300	24	1.27	180	190	200	22×140
1820	1800	166000	24	1.13	185	195	205	22×150
2020	2000	179000	24	1.01	190	200	210	22×150
2220	2200	187000	26	1.01	195	205	215	24×150
2420	2400	196000	26	1.01	200	210	220	24×150
2620	2600	206000	26	1.01	205	215	225	24×160
2820	2800	253300	26	1.01	210	220	230	27×160
3020	3000	260100	26	1.01	215	225	235	27×160
3220	3200	286900	26	1.01	220	230	240	27×180

KRHD钢质柔性接头(卡箍): 对开式伸缩接头时一种管道连接, 性能可靠, 安装简便的产品。在低压时, 靠密封圈的弹性变形, 达到密封目的; 在压力增加时, 通过介质作用在密封圈上, 起到自密封的作用, 并在中间留有间隙来补偿管道因热胀冷缩而产生的位移和挠曲。

KRHD steel flexible joint (clamp): A kind of pipeline connection for open expansion joint, which has reliable performance and easy installation. At low pressure, the sealing purpose is achieved by elastic deformation of the sealing ring. When the pressure increases, the medium acts on the sealing ring, which acts as self-sealing, and there is a gap in the middle to compensate for the displacement and deflection of the pipeline caused by thermal expansion and contraction.

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, 应设有导向支架及档件

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.

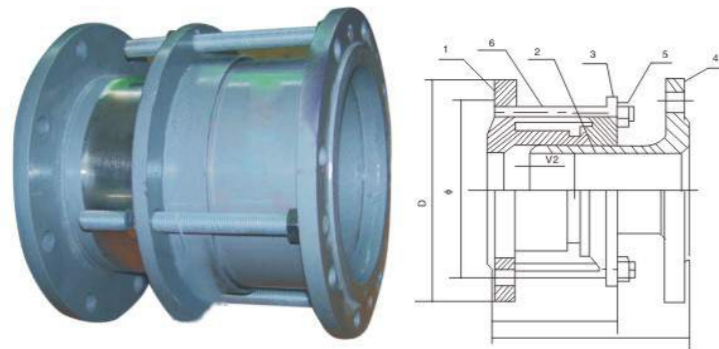
设计安装数据表

Design and installation datasheet

公称通径 DN Nominal diameter	补偿量 ΔL Compensation amount	最小长度 min Minimum length	最大长度 lmg Maximum length	安装长度 L Installation 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 The Hugh	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性能。

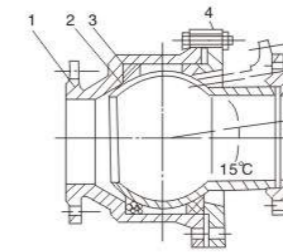
Product performance and use:

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.

主要数据 Main data

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	75.5
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

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:

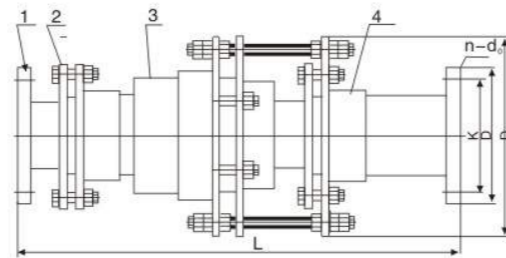
The spherical compensation joints are mainly applied to piping connection with large land subsidence, large vibration and complex terrain; after installed in the pip, the sphere can turn freely within the angle θ centering on the rotation center, so as to compensate for the piping deflection due to foundation 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	668	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	950	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				



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 silence and support, the bracket mainly withstands 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.

主要数据 Main data

公称尺寸 DN Nominal Size	外形尺寸 external dimension		伸缩量ΔL Displayment	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	350	1050	± 70	210	170	4-φ18	220	180	8-φ18	220	180	8-φ18
150	400			265	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	1450		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	1600		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	1900	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	2200	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℃;
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。

The Feature of YTXZ type No Thrust rotary Compensator

1. Big displacement, one set compensator can reach 1800mm
2. No restraint stress push pressure and fixed bracket can be very small at the ends of the compensator.
3. Adopt double seal structure, the packing is superior, long-term operation does not need to maintain.
4. High pressure resistant, good security, the highest pressure can be up to 10 MPa, the highest temperature of 540 °C.
5. Easy to install, low heat loss, high cost performance.
6. Compensator has two basic combination, dozens of changes.

YTXZ型系列旋转补偿器的补偿原理, 是通过成双旋转转筒和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。

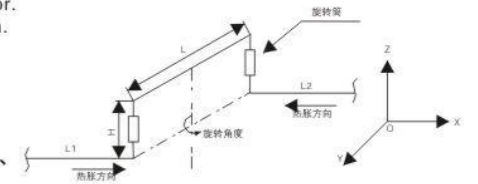
当在吸收热膨胀量时, 在力偶臂旋转到 $\frac{1}{2}\theta$ 出现热管道发生最大的摆动y值, 因此补偿器第一导向支架的距离要加大。

虽然吸收热胀随着转角 θ 或力偶臂L的加大而增加, 但为了限制y摆动过大, 对 θ 值不超过表的推荐值, 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

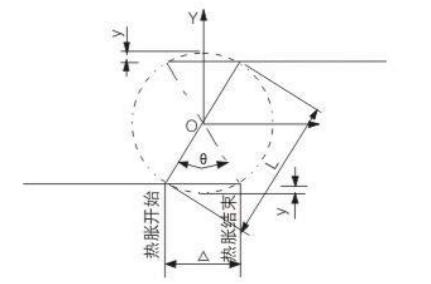
The displacement principle of YTXZ type No Thrust rotary Compensator

By twin twist around form of couple lever, cylinder and L make equal, in the opposite direction of a force, take the Z axis rotation center by the arm, and couple both sides in order to achieve the amount of heat pipe produced by thermal absorption

When in absorbing thermal expansion amount, in couple arm rotation to $\frac{1}{2}\theta$ the motion of the heat pipe's largest Y value, so the compensator is the distance of the first guide bracket to increase Although absorption expansion as the Angle increases with the increase of theta or couple arm L, but to restrict swinging corridor on theta value Y shall not exceed the recommended value. L values in situations where conditions permit try to choose a few bigger, usually in the range of 2 to 6 meters.



图一 Y型组合补偿器立体图 (平行布置)



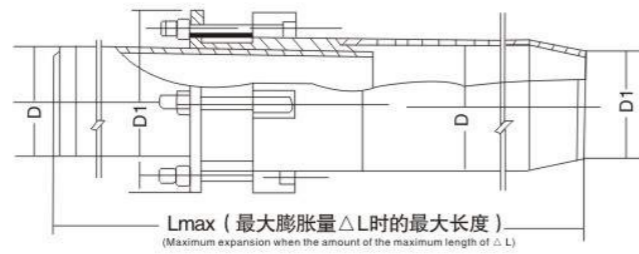
图二 Y型组合补偿器平面图

主要数据 Main data

序号 NO. Serial number	公称通径 (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	250
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

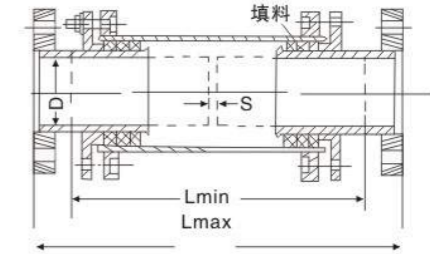
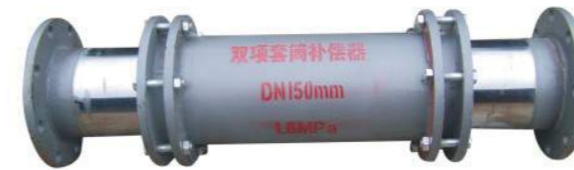
Structural dimensions and compensation amount of single sleeve-type compensator

公称通径 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
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

公称通径(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, 石棉绳的粗细应不小于小填料函的间隙。

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

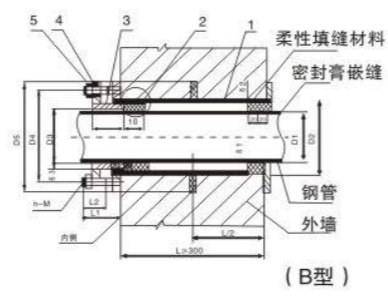
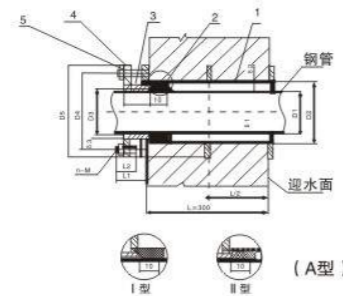
- (1) Before installation, check whether the packing is filled up; if not, add the packing and compress it.
- (2) If the sleeve is found to have rust or hard to stretch, assemble it again after dismantling and cleaning it; if the packing has hardened, it should be replaced.
- (3) When installing, firstly 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

公称通径(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



02S404柔性防水套管 02S404 flexible waterproof sleeve



使用范围 Scope of use

本产品适用于民用、一般工业、市政给排水工程(建)筑物。
This product is suitable for civil, general industrial and municipal water supply and drainage engineering structures (buildings).

分类应用 Classification application

防水套管结构形式分为柔性防水套管(A/B管型)、刚性防水套管(A/B/C型)及刚性防水翼环三种类型。
柔性防水套管适用于有地震设防要求的地区,管道穿墙处承受振动和管道伸缩变形、或有严密防水要求的构(建)筑物外墙。

I型密封圈适用于一般防水要求,II型适用于比较严密的防水要求。

适用温度: -20℃ ~ 250℃。特殊要求请订货时说明。

当穿墙管与泵或增压设备连接的进、出管道时,宜在连接处设置柔性连接。

Waterproof sleeve structure is divided into three types: flexible waterproof sleeve (A/B tube type), rigid waterproof sleeve (A/B/C type) and rigid waterproof wing ring.

Flexible waterproof sleeve is suitable for areas requiring seismic fortification, where the pipeline passes through the wall to withstand vibration, pipe expansion and deformation, or external walls of structures or buildings requiring strict waterproofing.

Type I seals are suitable for general waterproofing requirements and type II seals are suitable for more strict waterproofing requirements.

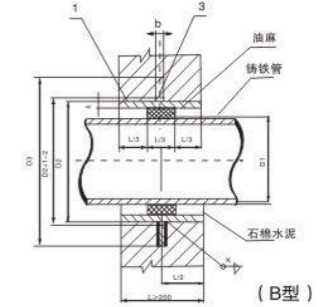
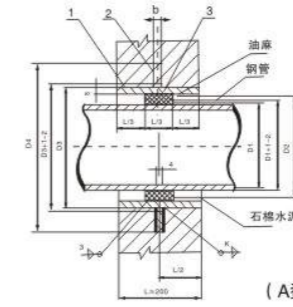
Applicable temperature: -20 ~ 250 C. Special requirements should be specified when ordering.

Flexible connections should be set at the joints when the wall-piercing pipe is connected with the inlet and outlet pipes of pumps or superchargers.

主要尺寸、重量表 Main Dimensions and Weight Meters

DN	D1	D2	D3	D4	D5	I	10		11	12	D1	D2	D3	n-M	A型重量 (kg)		B型重量 (kg)	
							I型	II型							I型	II型		
																	I型	II型
50	60	95	65	145	200	65	28	/	72	30	3.5	4	8	4-M12	14.40	/	14.40	/
65	76	114	80	165	220	65	28	25	72	30	3.75	4	8	4-M12	16.89	17.07	17.18	17.35
80	89	127	95	180	235	65	28	25	76	38	4	4	10	4-M16	21.12	21.31	21.42	21.61
100	108	146	114	200	255	65	28	25	76	38	4	4.5	10	4-M16	24.37	24.58	24.71	24.92
125	133	180	140	235	290	65	28	25	76	38	4	6	10	4-M16	31.92	32.31	32.43	32.82
150	159	203	165	260	315	65	28	25	76	38	4.5	6	10	4-M16	35.77	36.17	36.31	36.72
200	219	265	226	320	375	65	28	25	76	38	6	6	10	4-M16	44.69	45.29	45.29	45.87
250	273	325	280	380	435	65	28	25	76	38	8	8	10	4-M16	59.41	60.22	60.43	61.33
300	325	377	333	435	495	72	28	30	90	46	8	10	10	4-M20	89.37	90.02	90.35	91.14
350	377	426	385	485	545	72	32	30	90	46	10	10	10	4-M20	99.74	100.3	100.7	101.5
400	426	430	435	540	600	72	32	30	90	46	10	10	10	12-M20	114.0	114.8	115.3	116.4
450	480	530	488	590	650	72	32	30	90	46	10	10	10	12-M120	124.1	124.7	/	/
500	530	582	538	645	705	72	32	30	90	46	10	10	10	16-M20	139.3	140.5	/	/
600	630	690	640	755	820	75	32	30	104	54	10	10	12	16-M24	197.2	198.2	/	/
700	720	780	730	845	910	75	40	30	104	54	10	10	12	20-M24	222.6	223.7	/	/
800	820	880	830	950	1020	80	40	40	117	60	10	10	12	20-M27	280.0	282.3	/	/
900	920	980	930	1050	1120	80	40	40	117	60	10	10	12	20-M27	309.6	312.2	/	/
1000	1020	1030	1030	1150	1220	80	40	40	117	60	10	10	12	24-M27	341.1	344.0	/	/

02S404刚性防水套管 02S404 Rigid Waterproof Casing



适用范围 Scope of use

刚性防水套管适用于管道穿墙处不承受管道振动和伸缩变形的构(建)筑物,对于地震设防要求的地区,如采用刚性防水套管,应在进入池壁或建筑物外墙的管道上就近设置柔性连接,A型适用于钢,B型适用于球墨铸铁管。

Rigid waterproof sleeve is suitable for structures (buildings) where pipelines do not bear vibration and expansion deformation of pipelines through walls. For areas requiring seismic fortification, if rigid waterproof sleeve is used, flexible connections should be installed near pipes entering pool walls or building exterior walls. A type is suitable for steel and B type is suitable for ductile iron pipes.

刚性防水套管(A型)尺寸、重量表 Dimension and Weight Table of Rigid Waterproof Casing (Type A)

DN	D1	D2	D3	D4	δ	b	k	重量 (kg)	DN	D1	D2	D3	D4	δ	b	k	重量 (kg)
50	60	80	114	225	3.54	10	4	4.494	500	530	550	590	730	10	16	10	44.54
65	75.5	95	121	230	3.75	10	4	4.66	600	630	660	690	830	10	16	10	54.50
80	89	110	140	250	4	10	4	5.33	700	720	750	790	920	10	16	10	61.43
100	108	130	159	270	4.5	10	5	6.36	800	820	850	880	1020	10	16	10	69.12
125	133	155	180	290	6	10	6	8.33	900	920	950	980	1120	10	16	10	76.81
150	159	180	219	330	6	10	6	10.06	1000	1020	1050	1080	1230	10	16	10	84.50
200	219	240	273	385	8	12	8	15.9	1200	1220	1250	1290	1430	12	20	12	122.5
250	273	295	325	435	8	12	8	18.68	1400	1420	1450	1490	1630	12	20	12	141.3
300	325	345	377	500	10	14	10	27.40	1600	1620	1650	1690	1830	14	20	14	176.4
350	377	400	426	550	10	14	10	30.95	1800	1820	1850	1900	2040	16	20	16	216.6
400	426	445	480	600	10	14	10	34.35	2000	2020	2050	2100	2240	16	20	16	239.3
450	480	500	530	650	10	14	10	37.85									

刚性防水套管(B型)尺寸、重量表 Dimension and Weight Table of Rigid Waterproof Casing (Type B)

DN	D1		D2	D3	δ	b	k	重量 (kg)	DN	D1		D2	D3	δ	b	k	重量 (kg)
	铸铁管	球墨铸铁管								铸铁管	球墨铸铁管						
75	93	/	140	250	4	10	4	5.33	500	528	532	590	730	10	16	10	44.54
100	118	118	168	280	4.5	10	5	6.27	600	630.8	635	690	830	10	16	10	54.50
150	169	170	219	330	6	10	6	10.06	700	733	738	790	930	10	16	10	62.19
200	220	220	273	385	8	12	8	15.90	800	836	842	900	1040	10	16	10	70.65
250	271.6	274	325	435	8	12	8	18.68	900	936	945	1000	1140	10	16	10	78.34
300	322.8	326	377	500	10	14	10	27.40	1000	1041	1048	1100	1240	10	16	10	104.7
350	374	378	426	550	10	14	10	30.98	1100	1144	/	1200	1340	20	20	20	114.1
400	425.6	429	480	600	10	14	10	34.35	1200	1246	1255	1310	1450	20	20	20	124.4
450	476.8	/	530	650	10	14	10	37.85									

说明: 1、套管穿墙处如遇非混凝土墙壁时,应改为混凝土墙壁,其浇注范围应比翼环直径(A型D4或B型D3)大200,而且必须将套管一次浇固于混凝土墙内。套管内的填料应紧密捣实。

2、穿管处混凝土墙厚应不小于200,否则应使土墙壁一边或两边加厚。加厚部分的直径至少为D4+200。

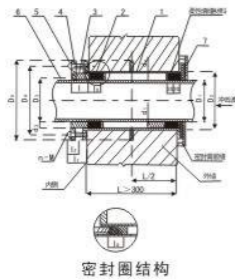
3、焊接结构尺寸公差与形位公差按照JB/T500.3-1998执行。焊接采用手工电弧焊,焊条型号E4303,牌号J422。焊缝坡口的基本形式与尺寸按照GB985-88执行。

Explanation: 1. When the casing penetrates the wall, it should be replaced by concrete wall. Its casting range should be 200 times larger than the diameter of wing ring (A-D4 or B-D3), and the casing must be fixed in the concrete wall once. Packing in casing should be compactly tamped.

2. The thickness of concrete wall should be no less than 200 at the piercing point, otherwise one or both sides of the earth wall should be thickened. The diameter of the thickening part is at least D4+200.

3. Dimension tolerance and shape tolerance of welded structure shall be carried out in accordance with JB/T500.3-1998. Welding adopts manual arc welding, electrode type E4303, brand J422. The basic form and size of weld groove shall be carried out in accordance with GB985-88.

04FS02 柔性密闭套管 04FS02 Flexible Sealed Casing



序号NO	名称 Name	数量 Number	材料 Material	备注 Remarks
1	法兰套管 Flange casing	1	Q235-A	焊接件 Weldments
2	密封圈 Seal ring	1	氯丁橡胶	
3	法兰压盖 Flange gland	1	Q235-A	焊接件 Weldments
4	螺栓 Bolt	1	Q235-A	GB897-88A
5	螺母 Nut	1	Q235-A	GB/T41-2000
6	钢管 Steel pipe	n	Q235-A	
7	挡板 baffle	n	Q235-A	

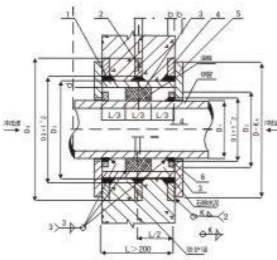
说明:

- 1、柔性填料材料: 沥青麻丝、聚苯乙烯板、聚氯乙烯泡沫塑料板。
- 2、密封膏: 聚硫密封膏、聚氯脂密封膏。
- 3、穿管处混凝土墙厚不应小于300, 否则应使墙壁一边加厚或两边加厚, 加厚部分的直径至少为D5±200。
- 4、钢管和挡板焊接后经镀锌处理, 再试行与套管安装。
- 5、焊接采用手工电弧焊, 焊条型号E4303。

Explain:

1. Flexible filler materials: asphalt bast fiber, polystyrene board, polyvinyl chloride foam board.
2. Sealing paste: polysulfide sealant and polychloride grease sealant.
3. The thickness of concrete wall should not be less than 300. Otherwise, one side of the wall should be thickened or both sides should be thickened. The diameter of the thickened part should be at least D5±200.
4. The steel pipe and baffle are welded and galvanized, and then the casing is installed on trial.
5. Manual arc welding is used for welding. Electrode type E4303.

04FS02 刚性密闭套管 04FS02 Rigid Sealed Casing



序号 NO	名称 Name	数量 Number	材料 Material
1	钢制套管 Steel casing	1	Q235-A
2	翼环 Wing ring	1	Q235-A
3	档圈 Gear ring	3	Q235-A
4	固定法兰 Fixed flange	2	Q235-A
5	挡板 Baffle	2	Q235-A
6	密封圈 Seal ring	2	氯丁橡胶 Neoprene

说明:

- 1、穿管处混凝土墙厚不应小于200, 否则应使墙壁一边加厚或两边加厚, 加厚部分的直径至少为D4±200。
- 2、钢管和档圈焊接后经镀锌处理, 再施行与套管安装, 全部施工安装后再施行挡板和固定法兰焊接。
- 3、焊接采用手工电弧焊, 焊条型号E4303。

Explain:

1. The thickness of concrete wall should not be less than 200. Otherwise, one side of the wall should be thickened or both sides should be thickened. The diameter of the thickened part should be at least D4±200.
2. Galvanized steel pipes and gears are welded and then installed with casing. After all construction and installation, baffles and fixed flanges are welded.
3. Manual arc welding is used for welding. Electrode type E4303.

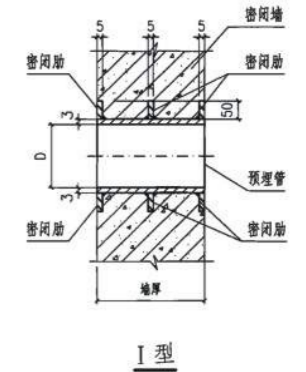
柔性密闭套管尺寸
Flexible airtight sleeve dimensions

DN	D1	D2	D3	D4	D5	D7	l	l0	l1	l2	d1	d2	d3	d1	d2	k	n-M
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	72	38	4	4	10	95	118	4	4-M12
100	103	146	114	200	255	134	65	25	72	38	4	4.5	10	114	136	4	4-M12
125	133	180	140	235	290	160	65	25	76	38	4	6	10	140	167	6	6-M12
150	159	203	165	260	315	185	65	25	76	38	4.5	6	10	160	190	6	6-M12
200	219	265	226	320	375	246	65	25	76	38	6	6	10	226	226	6	6-M12

刚性密闭套管尺寸
Dimension of rigid airtight sleeve

DN	D1	D2	D3	D4	d	b	k
50	60	80	114	225	3.5	10	4
65	75.5	95	121	230	3.75	10	4
80	89	110	140	250	4	10	4
100	108	130	159	270	4.5	10	5
125	133	155	180	290	6	10	6
150	159	180	219	330	6	10	6
200	219	240	273	385	8	12	8

07FK02 通风套管 07FK02 Ventilation Casing



人防通风密闭套管适用于人防通风工程, 是风管穿密闭墙预留套管, 其主管采用3mm厚钢板卷制而成, 密闭勒采用5mm厚钢板加工制作, 焊接采用手工电弧焊, 焊缝坡口的基本形式与尺寸按照GB985-88执行。

因为材料在运输或配送过程中, 表面可能会有刮花或弄脏, 材料在储存过程中也可能因为表面氧化而造成表面不够美观, 图片和实物也可能有所不同。购买时可以与在线客服联系。因为材料的特殊性, 所有材料都是买家付款后才进发货的, 都是属于专门为买家订做的产品, 一经售出, 非材质问题, 概不退换! 敬请谅解。

Civil air ventilation airtight sleeve is suitable for civil air ventilation engineering. It is reserved sleeve for air duct passing through airtight wall. Its main pipe is rolled with 3 mm thick steel plate, and the airtight sleeve is 5 mm thick. 5 mm thick steel plate processing, welding using manual arc welding, the basic form and size of weld groove in accordance with GB985-88.

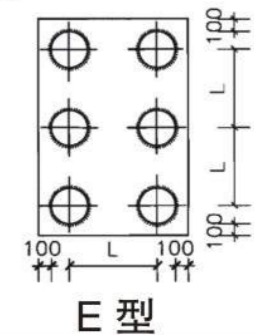
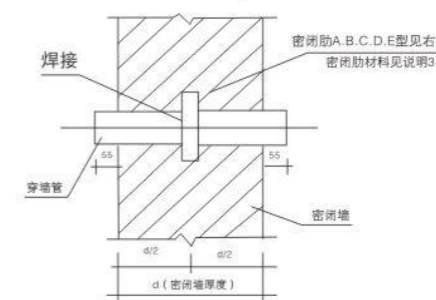
Because the surface of materials may be scratched or dirty in the course of transportation or distribution, and the surface of materials may not be beautiful due to surface oxidation or in the course of storage. Views, pictures and objects may also be different. You can contact online customer service when purchasing. Because of the particularity of materials, all materials are purchased and shipped after payment by the buyer. All of them belong to the products specially made for buyers. Once they are sold, they will not be exchanged for non-material problems. Please forgive me.

手动密闭阀门接管尺寸表 (内径)

Dimension Table for Manual Closed Valve Nozzle (Internal Diameter)

公称口径 Nominal diameter	DN150	DN200	DN300	DN400	DN500	DN600	DN800	DN1000
内径 Internal diameter	166	215	315	441	560	666	870	1090
D(mm)	166	215	315	441	560	666	870	1090

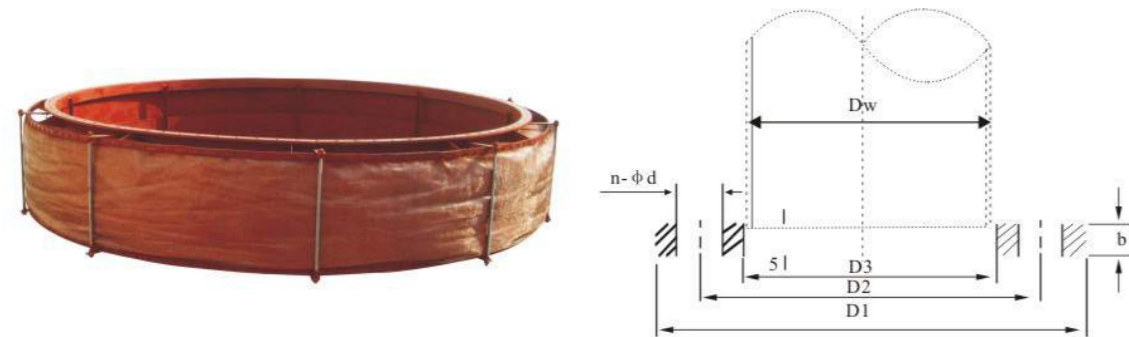
07FD02 穿墙管密闭肋 07FD02 Wall-piercing Tube Sealing Rib



(防护) 密闭管和密闭尺寸表 (Protection) Closure Pipe and Closure Dimension Table

序号 NO	镀锌钢管 Galvanized steel pipe		管距尺寸 L(mm) Pipe spacing size L (mm)	备注 Remarks
	公称直径(mm) Nominal diameter (mm)	外径(mm) Outer diameter (mm)		
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	

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	φ d
	mm						
φ 108	108	200	164	110	10	4	10
φ 159	159	251	215	161		8	10
φ 219	219	311	275	211		10	10
φ 273	273	365	330	275		12	10
φ 325	325	427	385	327	12	12	12
φ 377	377	479	435	379		12	12
φ 426	426	528	490	428		12	12
φ 480	480	595	540	483		12	12
φ 530	530	645	600	533	12	16	12
φ 630	630	745	700	633		16	12
φ 720	720	843	800	723		14	14
φ 820	820	943	900	823		14	14
φ 920	920	1043	1000	923	14	20	14
φ 1020	1020	1153	1100	1023		20	14
φ 1120	1120	1253	1200	1123		24	14
φ 1220	1220	1353	1300	1223		24	14
φ 1320	1320	1453	1400	1323	16	28	14
φ 1420	1420	1553	1500	1423		28	16
φ 1820	1820	1963	1910	1823		32	16
φ 2020	2020	2363	2310	2223		36	16
φ 2220	2220	2363	2310	2223	18	40	16
φ 2420	2420	2563	2510	2423		44	18
φ 2820	2820	2983	2915	2823		52	18
φ 3220	3220	3883	3315	3223		56	18
φ 3620	3620	3783	3715	3623	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 flange according to the working temperature. 3. When trying out, one should make appropriate adjustments to the limit screw of the compensator 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
Model Identifiers

F D Z
产品结构 (I 圆形、II 矩形、III 变径)
Product Structure (1. round 2. rectangular 3. reducer)
产品外形 (直形)
Product Dimension (straight)
产品代号 (风道)
Product Code (Air Duct)

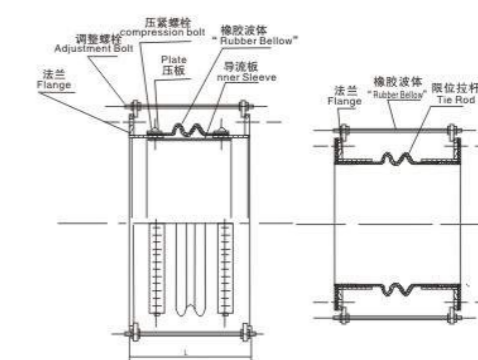
FDZ部分规格连接尺寸表

D1	D2	D3	连接螺孔 Connecting Screw Hole	
			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 No.	名称 Name	材料 Material
1	法兰 Flange	0236
2	内、外胶层 inner/outer glue	天然合成橡胶 NR
3	增强层 enhancement layer	挂胶纤维织物 Nylon Cord and Fabric

产品结构 Product Structure



型号标识

F U B - ()
圆形 I 矩形 II、变径 III)
Round I rectangle II, reducer III)
产品代号 (波纹)
Product code (corrugated)
产品代号 (波纹形状)
Product code (corrugated shape)
产品代号 (风道)
Product code (air duct)

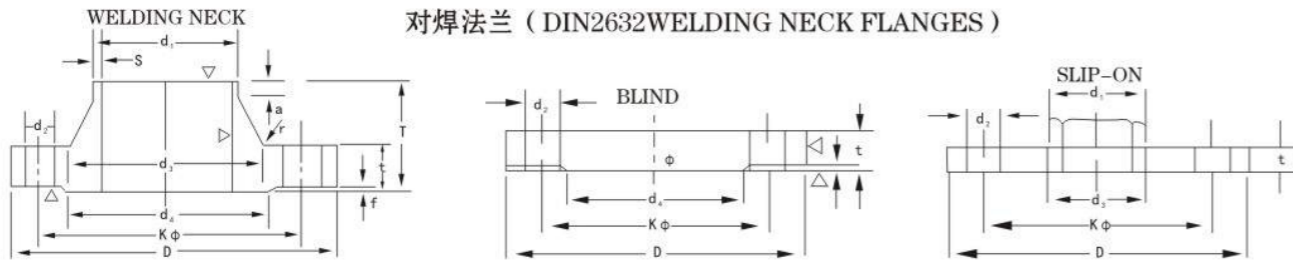
材料表

序号 No.	名称 Name	材料 Material Science	数量 Number
1	法兰 Flange	Q235扁钢、角钢 Q235 flat steel, angle steel	2件
2	内、外胶层 inner/outer glue	天然胶、硅胶 Natural rubber, silica gel	1件
3	增强层 enhancement layer	挂胶纤维织物 Nylon Cord and Fabric	2-4层
4	接管 Pipe End	0235 A3	2套
5	导流管 Inner Sleeve	0235 A3	1套
6	压板 Plate	0235 A3	1件



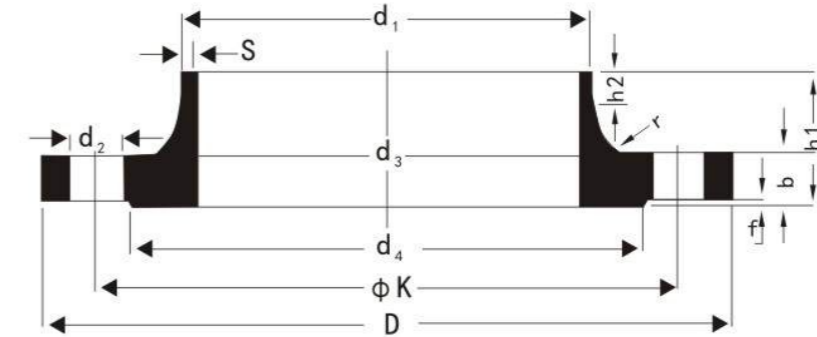
PN10 德标法兰 PN10 DIN Flange

平焊法兰 (DIN2576 SLIP-ON FLANGES)
堵头法兰 (DIN2527 BLIND FLANGES)
对焊法兰 (DIN2632 WELDING NECK FLANGES)



内径 Bore		通径 nominal diameter			毂 Hub				凸面 Raised face		钻孔 Drilling hole			重量 Weight(kg)				
公称通径 nominal diameter	d1	D	t			d2	s	r	a=	d3	f	螺栓数量 Number of bolt	螺栓直径 Dia. of bolt	d4	Din 2576	Din 2632		
			对焊 Welding neck	平焊 Slip on	堵头 Blind												K	T
10	14	90	14	14	14	60	35	25	1.8	4	6	40	2	4	M12 (1/2")	14	0.613	0.580
15	17.2	95	14	14	14	65	35	30	2.0	4	6	45	2	4	M12 (1/2")	14	0.675	0.648
20	21.3	105	16	16	16	75	38	38	2.3	4	6	58	2	4	M12 (1/2")	14	0.947	0.952
25	26.9	115	16	16	16	85	38	42	2.6	4	6	68	2	4	M12 (1/2")	14	1.14	1.14
32	33.7	140	16	16	16	100	40	52	2.6	6	6	78	2	4	M16 (5/8")	18	1.66	1.69
40	42.4	150	16	16	16	110	42	60	2.6	6	7	88	3	4	M16 (5/8")	18	1.89	1.86
50	48.3	165	18	18	18	125	45	72	2.9	6	8	102	3	4	M16 (5/8")	18	2.51	2.53
65	60.3	185	18	18	18	145	45	90	2.9	6	10	122	3	4	M16 (5/8")	18	3.00	3.06
80	76.1	200	20	20	20	160	50	105	3.2	8	10	138	3	4	M16 (5/8")	18	3.79	3.70
100	88.9	220	20	20	20	180	52	125	3.6	8	12	158	3	8	M16 (5/8")	18	4.20	4.62
125	114.3	250	22	22	22	210	55	150	4.0	8	12	188	3	8	M16 (5/8")	18	5.71	6.30
150	139.7	285	22	22	22	240	55	175	4.5	10	12	212	3	8	M20 (3/4")	23	6.72	7.75
200	168.3	340	24	24	24	295	62	232	5.9	10	16	268	3	8	M20 (3/4")	23	9.50	11.3
250	219.1	395	26	26	26	350	68	285	6.3	12	16	320	3	12	M20 (3/4")	23	12.5	14.7
300	273	445	26	26	28	400	68	292	7.1	12	16	370	4	12	M20 (3/4")	23	14.4	17.6
350	318	505	26	28	30	460	68	335	7.1	12	16	430	4	16	M20 (3/4")	23	20.6	23.6
400	323.9	565	26	32	32	515	72	344	7.1	12	16	482	4	16	M24 (7/8")	27	27.9	28.6
500	355.6	670	28	38	34	620	75	344	7.1	12	16	585	4	20	M24 (7/8")	27	41.1	38.1
600	368	780	28			725	80	356	7.1	12	18	685	5	20	M27 (1")	30		
700	406.4	895	30			840	80	368	8.0	12	18	800	5	24	M27 (1")	30		
800	419	1015	32			950	90	381	8.0	12	18	905	5	24	M30 (1 1/8")	33		
900	428	1115	34			1050	95	393	10.0	12	20	1005	5	28	M30 (1 1/8")	33		
1000	820	1230	34			1160	95	405	10.0	16	20	1110	5	28	M33 (1 1/4")	36		

PN16 德标法兰 PN16 DIN Flange

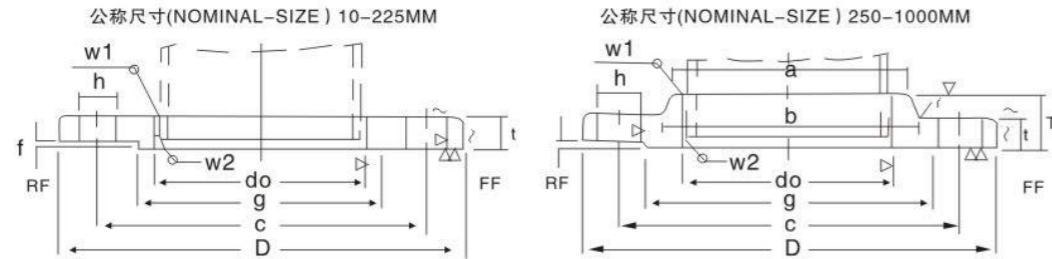


单位:毫米 Unit: mm

DN	d1		D	b	k	h1	d3	s	r	h2	d4	f	孔数 Number of hole	螺栓直径 Diam of bolt	d2	重量 Weight
	1	2														
10	14	14	90	14	60	35	25	1.8	4	6	40	2	4	M12	14	0.580
15	17.2	17.2	95	14	65	35	30	2	4	6	45	2	4	M12	14	0.648
20	21.3	21.3	105	16	75	38	32	2	4	6	58	2	4	M12	14	0.952
25	26.9	26.9	115	16	85	38	38	2.3	4	6	68	2	4	M12	14	1.140
32	33.7	33.7	140	16	100	40	40	2.6	6	6	78	2	4	M16	18	1.69
40	42.4	42.4	150	16	110	42	42	2.6	6	7	88	3	4	M16	18	1.86
50	48.3	48.3	165	18	125	45	45	2.6	6	8	102	3	4	M16	18	2.53
65	60.3	60.3	185	18	145	45	52	2.9	6	10	122	3	4	M16	18	3.06
80	76.1	76.1	200	20	160	50	56	2.9	8	10	138	3	8	M16	18	3.70
100	88.9	88.9	220	20	180	52	60	3.2	8	12	158	3	8	M16	18	4.62
125	114.3	114.3	250	22	210	55	64	3.6	8	12	188	3	8	M16	18	6.30
150	139.7	139.7	285	22	240	55	72	4	10	12	212	3	8	M20	22	7.75
175	168.3	168.3	315	24	270	60	75	4.5	10	12	242	3	8	M20	22	9.85
200	193.7	193.7	340	24	295	62	84	4.5	10	16	268	3	12	M20	22	11.00
250	219.1	219.1	405	26	355	70	90	6.3	12	16	320	3	12	M24	26	15.6
300	273	273	460	28	410	78	96	6.3	12	16	378	4	12	M24	26	22.0
350	323.9	323.9	520	30	470	82	102	7.1	12	16	438	4	16	M24	26	31.2
400	355.6	355.6	580	32	525	85	108	8	12	16	490	4	16	M24	26	28.8
500	406.4	406.4	715	34	650	90	114	8	12	16	610	4	20	M27	30	39.3
600	460.3	460.3	840	36	770	95	120	8	12	16	725	5	20	M30	33	36.3
700	508	508	910	36	840	100	126	8.8	12	18	795	5	24	M33	36	61.0
800	556	556	1025	38	950	105	132	8.8	12	18	900	5	24	M33	36	75.4
900	604	604	1125	40	1050	110	138	10	12	20	1000	5	24	M36	39	77.0
1000	652	652	1255	42	1170	120	144	10	12	20	1115	5	28	M36	39	101.0
1200	725	725	1485	48	1390	130	150	10	16	22	1330	5	32	M39	42	122.0
1400	800	800	1685	52	1590	145	156	12.5	16	30	1530	5	36	M45	48	162.0
1600	875	875	1930	58	1820	160	162	16	16	35	1750	5	40	M52	56	243
1800	950	950	2130	62	2020	170	168	14.2	16	30	1950	5	44	M52	56	323
2000	1025	1025	2345	66	2230	180	174	16	16	35	2150	5	48	M56	62	479
								17.5	16	35	1950	5	44	M52	56	599
								20	16	40	2150	5	48	M56	62	719



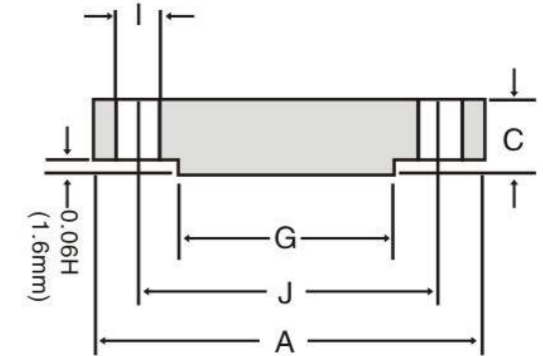
10K KS B1503 JIS B2220 日标法兰 10K KS B1503 JIS B2220 Flange



单位:毫米 Unit: mm

法兰公称通径 Nominal dia. of flange	法兰外径 Outside dia. of flange	法兰剖面尺寸 Sectional dimensions of flange										对焊 Welding		重量 Weight (Kg)			
		螺栓直径 Dia. of bolt	凸面直径 Dia. of raised face	法兰内径 Inside dia. of flange	适用管道外径 Outside dia. of applicable pipe	t	T	中心直径 Dia. of hub		半径 Raised face	凸面 Raised face	孔径 Hole dia. h	螺栓孔数量 Number of bolt hole		Nominal bolt size	W ₁	W ₂
10	90	65	46	17.8	17.3	12					1	15	4	M12	5	2.5	0.52
15	95	70	51	22.2	21.7	12					1	15	4	M12	5	3	0.57
20	100	75	56	27.7	27.2	14					1	15	4	M12	5	3	0.73
25	125	90	67	34.5	34.0	14					1	19	4	M16	5	3	1.13
32	135	100	76	43.2	42.7	16					2	19	4	M16	6	3	1.48
50	140	105	81	49.1	48.6	16					2	19	4	M16	6	3	1.56
50	155	120	96	61.1	60.5	16					2	19	4	M16	6	3	1.88
65	175	140	116	77.1	76.3	18					2	19	4	M16	6.5	4	2.6
80	185	150	126	90.0	89.1	18					2	19	8	M16	6.5	4	2.61
90	195	160	136	102.6	101.6	18					2	19	8	M16	6.5	4	2.76
100	210	175	151	115.4	114.3	18					2	19	8	M16	7	4	3.14
125	250	210	182	141.2	139.8	20					2	23	8	M20	7.5	4	4.77
150	280	240	212	166.6	165.2	22					2	23	8	M20	8	5	6.34
175	305	265	237	192.1	190.7	22					2	23	12	M20	9	5	6.82
200	330	290	262	218.0	216.3	22					2	23	12	M20	9	6	7.53
225	350	310	282	243.7	241.8	22					2	23	12	M20	9	6	7.74
250	400	355	324	269.5	267.4	24					2	25	12	M22	10	6	12.7
300	445	400	368	321.0	318.5	24	36	288	292	6	2	25	16	M22	10	6	13.8
							38	340	346	6	3	25	16	M22	10	6	
350	490	445	413	358.1	355.6	26	42	380	386	6	3	25	16	M22	12	7	18.2
400	560	510	475	409.0	406.4	28	44	436	442	6	3	27	16	M24	12	7	25.2
450	620	565	530	460.0	457.2	30	48	496	502	6	3	27	20	M24	14	8	33
500	675	620	585	511.0	508.0	30	48	548	554	6	3	27	20	M24	14	8	37.6
550	745	680	640	562.0	558.8	32	52	604	610	6	3	33	20	M30	15	9	49.7
600	795	730	690	613.0	609.6	32	52	656	662	6	3	33	24	M30	16	10	52.6
650	845	780	740	664.0	660.4	34	56	706	712	6	3	33	24	M30	16	10	60.6
700	905	840	800	715.0	711.2	34	58	762	770	6	3	33	24	M30	17	10	70.6
750	970	900	855	766.0	762.0	36	62	816	824	6	3	33	24	M30	18	11	85.8
800	1020	950	905	817.0	812.8	36	64	863	876	6	3	33	28	M30	19	12	91.2
850	1070	1000	955	868.0	863.6	36	66	920	928	6	3	33	28	M30	19	12	98.6
900	1120	1050	1005	919.0	914.4	38	70	974	979	6	3	33	28	M30	22	14	109
1000	1235	1160	1110	1021.0	1016.0	40	74	1023	1081	6	3	39	28	M36	22	14	133
1100	1345	1270	1220	1123.0	1117.6	42					3	39	28	M36			
1200	1465	1380	1325	1225.0	1219.2	44					3	39	32	M36			
1350	1630	1540	1480		1371.6	48					3	45	36	M42			
1500	1795	1700	1635		1524.0	50					3	45	40	M42			

CLASS 150 美标法兰 CLASS 150 ANSI FLANGE

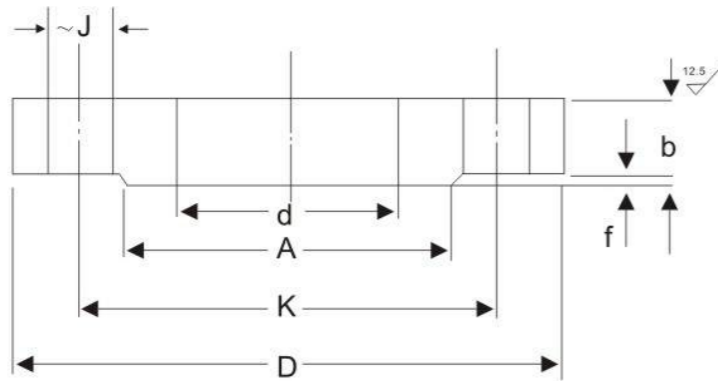


CLASS 150 IB

管道公称尺寸 Nominal pipe size	管道 Pipe Outside Diameter	法兰数据 Flange Data		凸面 Raised Face	钻孔数据 Drilling Data			重量 Weight 公斤/块 kg/piece
		A	C	G	H	I	J	
	外径 Outside Diameter	总直径 Overall Diameter	法兰最小厚度 Flange Thickness min	端面铣刀 Face Diameter	孔数 Number of Holes	螺栓孔直径 Bolt Hole Diameter	钻孔直径 Diameter of Cide of Holes	
	in mm	in mm	in mm	in mm		in mm	in mm	
1/2	0.840 21.30	3.500 88.90	0.440 11.20	1.380 35.10	4	0.620 15.70	2.380 60.45	0.42
3/4	1.050 26.70	3.880 98.60	0.500 12.70	1.690 42.90	4	0.620 15.70	2.750 69.85	0.61
1	1.315 33.40	4.250 108.0	0.560 14.20	2.000 50.80	4	0.620 15.70	3.120 79.25	0.86
1 1/4	1.660 42.20	4.620 117.3	0.620 15.70	2.500 63.50	4	0.620 15.70	3.500 88.90	1.17
1 1/2	1.900 48.30	5.000 127.0	0.690 17.50	2.880 73.15	4	0.620 15.70	3.880 98.60	1.53
2	2.375 60.30	6.000 152.4	0.750 19.10	3.620 91.90	4	0.750 19.10	4.750 120.7	2.42
2 1/2	2.875 73.00	7.000 177.8	0.880 22.40	4.120 104.6	4	0.750 19.10	5.500 139.7	3.94
3	3.500 88.90	7.500 190.5	0.940 23.90	5.000 127.0	4	0.750 19.10	6.000 152.4	4.93
3 1/2	4.000 101.6	8.500 215.9	0.940 23.90	5.500 139.7	8	0.750 19.10	7.000 177.8	6.17
4	4.500 114.3	9.000 228.6	0.940 23.90	6.190 157.2	8	0.750 19.10	7.500 190.5	7.00
5	5.563 141.3	10.00 254.0	0.940 23.90	7.310 185.7	8	0.880 22.40	8.500 215.9	8.63
6	6.625 168.3	11.00 279.4	1.000 25.40	8.500 215.9	8	0.880 22.40	9.500 241.3	11.3
8	8.625 219.1	13.50 342.9	1.120 28.40	10.62 269.7	8	0.880 22.40	11.75 298.5	19.6
10	10.75 273.0	16.00 406.4	1.190 30.20	12.75 323.9	12	1.000 25.40	14.25 362.0	28.8
12	12.75 323.8	19.00 482.6	1.250 31.75	15.00 381.0	12	1.000 25.40	17.00 431.8	43.2
14	14.00 355.6	21.00 533.4	1.380 35.10	16.25 412.8	12	1.120 28.40	18.75 476.3	58.1
16	16.00 406.4	23.50 596.9	1.440 36.60	18.50 469.9	16	1.120 28.40	21.25 539.8	76.0
18	18.00 457.2	25.00 635.0	1.560 39.60	21.00 533.4	16	1.250 31.75	22.75 577.9	93.7
20	20.00 508.0	27.50 698.5	1.690 42.90	23.00 584.2	20	1.250 31.75	25.00 635.0	122
24	24.00 609.6	32.00 812.8	1.880 47.80	27.25 692.2	20	1.380 35.10	29.50 749.3	185

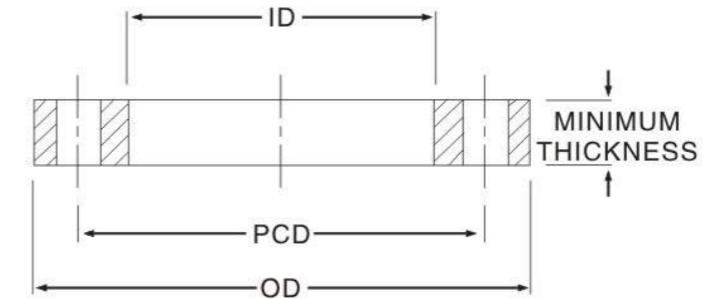


BS4504 101 RF PN16 英标法兰 BS4504 101 RF PN16 Flange



公称通径 ND	D	d	b	k	孔数 Number of hole	j	f	A
15	95	22	14	65	4	14	2	45
20	105	27.5	16	75	4	14	2	58
25	115	34.5	16	85	4	14	2	68
32	140	43.5	18	100	4	18	2	78
40	150	49.5	18	110	4	18	3	88
50	165	61.5	20	125	4	18	3	102
65	185	77.5	20	145	4	18	3	122
80	200	90.5	20	160	8	18	3	138
100	220	116	22	180	8	18	3	158
125	250	141.5	22	210	8	18	3	188
150	285	170.5	24	240	8	22	3	212
200	340	221.5	26	295	12	22	3	268
250	405	276.5	29	355	12	26	3	320
300	460	327.5	32	410	12	26	4	378
350	520	359.0	35	470	16	26	4	438
400	580	411	38	525	16	30	4	490
450	640	462	42	585	20	30	4	550
500	715	513.5	46	650	20	33	4	610
600	840	616.5	52	770	20	36	5	725
700	910	716.5	60	840	24	36	5	795
800	1025	818.5	68	950	24	39	5	900
900	1125	920.5	76	1050	28	39	5	1000
1000	1255	1022.5	84	1170	28	42	5	1115
1200	1485	1227.5	98	1300	32	48	5	1330

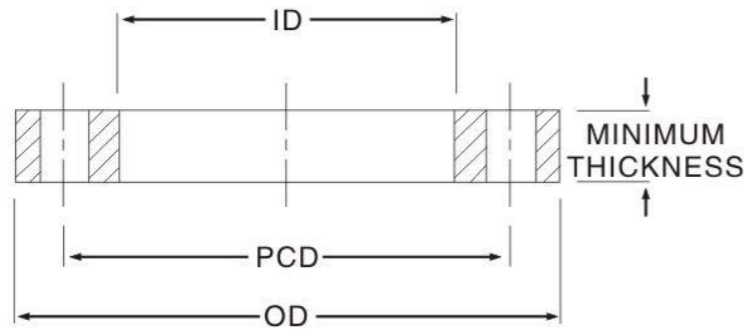
Table 1: STEEL BACKING FLANGES
AS2129 (TABLE D)



公称管外径 Nominal Pipe OD	法兰尺寸 Flange Size	OD	ID	最小厚度 Minimum Thickness	PCD	螺栓孔 Bolt Hole No.x Dia.	螺栓尺寸 Bolt Size
20	15	95	28	6	67	4X14	M12
25	20	100	34	6	73	4X14	M12
32	25	115	42	7	83	4X14	M12
40	32	120	51	8	87	4X14	M12
50	40	135	62	9	98	4X14	M12
63	50	150	78	10	114	4X18	M16
75	65	165	92	10	127	4X18	M16
90	80	185	108	11	146	4X18	M16
110	100	215	128	10	178	4X18	M16
125	100	215	135	10	178	4X18	M16
125	125	255	140	13	210	8X18	M16
140	125	255	158	13	210	8X18	M16
160	150	280	178	13	235	8X18	M16
180	150	280	188	13	235	8X18	M16
200	200	335	235	13	292	8X18	M16
225	200	335	238	13	292	8X18	M16
250	250	405	288	16	356	8X22	M20
280	250	405	294	16	356	8X22	M20
315	300	455	338	19	406	12X22	M20
355	350	525	376	22	470	12X26	M24
400	400	580	430	22	521	12X26	M24
450	450	640	470	25	584	12X26	M24
500	500	705	533	29	641	16X26	M24
560	550	760	618	29	699	16X30	M27
630	600	825	645	32	756	16X30	M27
710	700	910	740	35	845	20X30	M27
800	800	1060	843	41	984	20X36	M33
900	900	1175	947	48	1092	24X36	M33
1000	1000	1255	1050	51	1175	24X36	M33



Table 2: STEEL BACKING FLANGES
AS2129 (TABLE E)



公称管外径 Nominal Pipe OD	法兰尺寸 Flange Size	OD	ID	最小厚度 Minimum Thickness	PCD	螺栓孔 Bolt Hole No.x Dia.	螺栓尺寸 Bolt Size
20	15	95	28	6	67	4X14	M12
25	20	100	34	6	73	4X14	M12
32	25	115	42	7	83	4X14	M12
40	32	120	51	8	87	4X14	M12
50	40	135	62	9	98	4X14	M12
63	50	150	78	10	114	4X18	M16
75	65	165	92	10	127	4X18	M16
90	80	185	108	11	146	4X18	M16
110	100	215	128	13	178	8X18	M16
125	100	215	135	13	178	8X18	M16
125	125	255	140	14	210	8X18	M16
140	125	255	158	14	210	8X18	M16
160	150	280	178	17	235	8X22	M20
180	150	280	188	17	235	8X22	M20
200	200	335	235	19	292	8X22	M20
225	200	335	238	19	292	8X22	M20
250	250	405	288	22	356	12X22	M20
280	250	405	294	22	356	12X22	M20
315	300	455	338	25	406	12X26	M24
355	350	525	376	29	470	12X26	M24
400	400	580	430	32	521	12X26	M24
450	450	640	470	35	584	16X26	M24
500	500	705	533	38	641	16X26	M24
560	550	760	618	44	699	16X30	M27
630	600	825	645	48	756	16X33	M30
710	700	910	740	51	845	20X33	M30
800	800	1060	843	54	984	20X36	M33
900	900	1175	947	64	1092	24X36	M33
1000	1000	1255	1050	67	1175	24X39	M36

中华人民共和国法兰标准

工程 口径 DN Nominal Diameter	PN6							PN10							PN16							PN25						
	内径 ID	外径 OD	中心 距-CD Pitch Circle Diameter	厚度 b	孔径 d	孔数 n	重量 kg	内径 ID	外径 OD	中心 距-CD Pitch Circle Diameter	厚度 b	孔径 d	孔数 n	重量 kg	内径 ID	外径 OD	中心 距-CD Pitch Circle Diameter	厚度 b	孔径 d	孔数 n	重量 kg	内径 ID	外径 OD	中心 距-CD Pitch Circle Diameter	厚度 b	孔径 d	孔数 n	重量 kg
32	38	120	90	16	14	4	1.097	38	135	100	16	18	4	1.4	38	135	100	18	18	4	1.6	38	135	100	20	18	4	1.96
40	48	130	100	16	14	4	1.219	48	145	110	18	18	4	1.71	48	145	110	20	18	4	2.00	48	145	110	22	18	4	2.16
50	57	140	110	16	14	4	1.348	57	160	125	18	18	4	2.09	57	160	125	22	18	4	2.61	57	160	125	24	18	4	2.71
65	76	160	130	16	14	4	1.67	76	180	145	20	18	4	2.84	76	180	145	24	18	4	3.45	76	180	145	24	18	8	3.45
80	89	185	150	18	14	4	2.48	89	195	160	20	18	4	3.24	89	195	160	24	18	8	3.71	89	195	160	26	18	8	4.06
100	108	205	170	18	14	4	2.89	108	215	180	22	18	8	4.01	108	215	180	26	18	8	4.8	108	230	190	28	23	8	6.00
125	133	235	200	20	18	8	3.94	133	245	210	24	18	8	5.4	133	245	210	28	18	8	6.47	133	270	220	30	26	8	8.26
150	159	260	225	20	18	8	4.47	159	280	240	24	18	8	6.67	159	280	240	28	23	8	7.92	159	300	250	30	26	8	10.4
200	219	315	280	22	18	8	6.07	219	335	295	24	18	8	8.24	219	335	295	30	23	12	10.1	219	360	310	32	26	12	14.5
250	273	370	335	24	18	12	8.03	273	390	350	26	18	12	10.7	273	405	355	32	26	12	15.7	273	425	370	34	30	12	18.9
300	325	435	395	24	18	12	10.3	325	440	400	28	18	12	12.9	325	460	410	32	26	12	18.1	325	485	430	36	30	16	26.8
350	377	485	445	26	18	12	12.59	377	500	460	28	18	12	15.9	377	520	470	34	26	16	23.3	377	550	490	42	34	16	34.35
400	426	535	495	28	18	16	15.2	426	565	515	30	18	16	21.8	426	580	525	38	30	16	31	426	610	550	44	34	16	44.9
450	478	590	550	28	18	16	17.59	478	615	565	30	18	16	24.4	478	640	585	42	30	20	40.2	478	665	600	48	36	20	51.92
500	529	640	600	30	18	20	20.67	529	670	620	32	18	20	27.7	529	715	650	45	34	20	55.7	529	730	660	52	36	20	67.3
600	630	755	705	30	18	20	26.57	630	780	725	36	18	20	39.4	630	840	770	50	36	20	80.3	630	840	770	56	39	20	90
700	724	860	810	32	18	24	37.1	724	895	840	36	18	24	55	724	910	840	54	36	24	83.76	724	955	875	62	42	24	127.113
800	824	975	920	32	18	24	46.2	824	1010	950	38	18	24	77	824	1025	950	60	36	24	118.97	824	1080	990	68	48	24	174.155
900	924	1075	1020	34	18	24	55.1	924	1110	1050	42	18	24	85	924	1125	1050	66	36	28	186.111	924	1180	1090	74	48	28	208.178
1000	1024	1175	1120	36	18	28	67.3	1024	1220	1160	44	18	28	106	1024	1255	1170	72	36	28	196.151	1024	1320	1210	82	48	28	283.225
1200	1224	1400	1340	40	18	32	92	1224	1450	1380	48	18	32	155	1224	1485	1390	80	36	32	284.208	1224	1525	1420	90	48	32	387.307
1400	1424	1620	1560	44	18	36	142	1424	1675	1590	54	18	36	221	1424	1685	1590	84	36	36	358.232	1424	1750	1640	98	48	36	510.410
1600	1624	1820	1760	48	18	40	170	1624	1915	1820	62	18	40	335	1624	1930	1820	90	36	40	512.383							
1800	1824	2046	1970	50	18	44	239	1824	2115	2020	66	18	44	399	1824	2130	2020	72	36	44								
2000	2024	2265	2180	54	18	48	292	2024	2325	2230	72	18	48	505	2024	2345	2230	80	36	48								
2200	2226	2475	2390	60	18	52	367.6	2226	2550	2440	72	18	52															
2400	2426	2685	2600	62	18	56	433.7																					
2600	2626	2900	2810	64	18	60	501.8																					
2800	2826	3110	3020	68	18	64	600																					
3000	3026	3310	3220	70	18	68	660.8																					

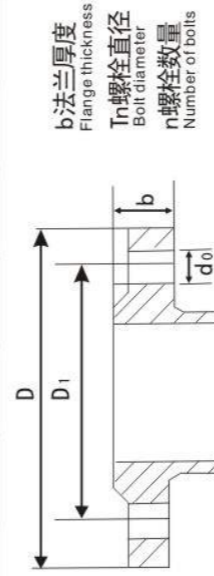


中华人民共和国法兰国家标准

The flange of the People's Republic of China national standards

平面、突面对焊钢制管法兰
The plain, in the face of welded steel pipe flanges

公称口径 DN	PN0.6MPa				PN1.0MPa				PN1.6MPa									
	D	D1	b	do	Tn	n	D	D1	b	do	Tn	n	D	D1	b	do	Tn	n
40	130	100	16	14	M12	4	150	110	18	18	M16	4	150	110	18	18	M16	4
50	140	110	16	14	M12	4	165	125	20	18	M16	4	165	125	20	18	M16	4
65	160	130	16	14	M12	4	185	145	20	18	M16	4	185	145	20	18	M16	4
80	190	150	18	18	M16	4	200	160	20	18	M16	8	200	160	20	18	M16	8
100	210	170	18	18	M16	4	220	180	22	18	M16	8	220	180	22	18	M16	8
125	240	200	18	18	M16	8	250	210	22	18	M16	8	250	210	22	18	M16	8
150	165	225	20	18	M16	8	285	240	24	22	M20	8	285	240	24	22	M20	8
200	320	280	22	18	M16	8	340	295	24	22	M20	8	340	295	24	22	M20	12
250	375	335	24	18	M16	12	395	350	26	22	M20	12	405	355	26	26	M24	12
300	440	395	24	18	M20	12	445	400	26	22	M20	12	460	410	28	26	M24	12
350	490	445	24	22	M20	12	505	460	26	22	M20	16	520	170	30	26	M24	16
400	540	495	24	22	M20	16	565	515	26	26	M24	16	580	525	32	30	M27	16
450	595	550	24	22	M20	16	615	565	28	26	M24	20	640	585	40	30	M27	20
500	645	600	26	22	M20	20	670	620	28	26	M24	20	715	650	44	33	M30	20
600	755	705	30	22	M24	20	780	725	34	30	M27	20	840	770	44	36	M33	20
700	860	810	26	26	M24	24	895	840	34	30	M27	24	910	840	44	36	M33	24
800	975	920	26	26	M27	24	1015	950	36	33	M30	24	1025	950	44	39	M36	24
900	1075	1020	26	30	M27	24	1115	1050	38	33	M30	28	1125	1050	44	39	M36	28
1000	1175	1120	26	30	M27	28	1230	1160	38	36	M33	28	1255	1170	46	42	M39	28
1200	1405	1340	28	30	M30	32	1455	1380	44	39	M36	32	1485	1390	52	48	M45	32
1400	1630	1560	32	33	M33	36	1675	1590	48	42	M39	36	1685	1590	58	48	M45	36
1500	1730	1660	32	36	M33	36												
1600	1830	1760	34	36	M33	40	1915	1820	52	48	M45	40	1930	1820	64	55	M52	40
1800	2045	1970	36	36	M36	44	2115	2020	56	48	M45	44	2130	2020	68	55	M52	44
2000	2265	2180	38	39	M39	48	2325	2230	60	48	M45	48	2345	2230	70	60	M56	48
2200	2475	2390	42	42	M39	52	2550	2440	60	56	M52	52						
2400	2685	2600	44	42	M39	56	2760	2650	56	56	M52	56						
2600	2905	2810	46	42	M45	60	2960	2850	56	56	M52	60						
2800	3115	3020	48	48	M45	64	3180	3070	56	56	M52	64						
3000	3315	3220	50	48	M45	68	3405	3290	62	62	M56	68						



D 法兰外径
OD of the Flange
D1 中心直径
PCD
D0 螺栓孔径
DIA of Bolt

b 法兰厚度
Flange thickness
Tn 螺栓直径
Bolt diameter
n 螺栓数量
Number of bolts

注: (1) 法兰标准摘自: GB/T9113.1-2000
(2) 本公司所生产各种管法兰连接数据以此表为基准。
(3) 法兰尺寸可根据用户提供数据和图纸制造。

Flange Standard is from: GB/T9113.1-2000
The data of flange connection of various pipe fittings produced by our company is based on this table
Flange dimensions and drawings may be manufactured according to the data provided by the user



河南，欢迎您
Welcome to Henan