

Zhengzhou Mason Pipe Fittings Co., Ltd.

Since its establishment in 2009, Zhengzhou Mason has been a vibration and noise control specialist serving the market of many countries. To ensure our customers enjoy the best services in a more efficient and timely basis, we are expanding our distribution network overseas market. We offer the industry's widest selection.

Our main products include flexible rubber expansion joints, dismantling joint, metal expansion Joints, fabric expansion joints, various kinds of flanged braided flexible connectors and metal bellows expansion joint.



1 Flexible Rubber Expansion Joint (single sphere)

Remarks:

- the joint body is available in 3 standard combinations of the (tube/cover): EPDM/EPDM, Neoprene/Neoprene, and Nitrile/Neoprene. the body components (tube/cover) are also available in a combination of the following additional materials on special order: Neoprene, EPDM, Chlorobutyl, Butyl, Nitrile, Hypalon®, Viton®, natural rubber etc. Please see the materials table to determine what material is best for your application.
- standard flange drilling is ANSI150#. , DIN, BS, and JIS Drilling as well as others.
- standard flange material is carbon steel with a plated rust inhibitor. Also available T-304, T-316 and other alloys.
- see the “Control Unit” page to determine if your application requires control units. Control units must be used to protect the joint if the piping is not properly anchored. Control units are sold separately from the rubber joint.



Nominal Pipe Size Joint L. D.		Length (mm)	Flange thickness (mm)	Bolt No.	Bolt hole diameter (mm)	Bolt hole circle diameter (mm)	Axial displacement (mm)		Lateral displacement (mm)	Deflection angle (a1 +a2)
(mm)	(Inch)						Stretching	Compression		
32	1.25	95	16	4	18	100	6	9	9	15°
40	1.5	95	18	4	18	110	6	10	9	15°
50	2	105	18	4	18	125	7	10	10	15°
65	2.5	115	20	4	18	145	7	13	11	15°
80	3	135	20	4	18	160	8	15	12	15°
100	4	150	22	8	18	180	10	19	13	15°
125	5	165	24	8	18	210	12	19	13	15°
150	6	180	24	8	23	240	12	20	14	15°
200	8	210	24	8	23	295	16	25	22	20°
250	10	230	26	12	23	350	16	25	22	24°
300	12	245	28	12	23	400	16	25	22	24°
350	14	255	28	16	23	460	16	25	22	24°
400	16	255	30	16	25	515	16	25	22	24°
450	18	255	30	20	25	565	16	25	22	24°
500	20	255	32	20	25	620	6	25	22	24°
600	24	260	36	20	30	725	6	25	22	24°
700	28	260	36	24	30	840	16	25	22	24°
800	32	260	38	24	34	950	16	25	22	24°
900	36	260	42	28	34	1050	6	25	22	24°
1000	40	260	44	28	34	1160	18	26	24	24°
1100	44	300	44				18	26	24	24°
1200	48	300	48	32	41	1380	18	26	24	20°
1300	52	300	48				20	26	24	20°
1400	56	350	54	36	34	1560	20	28	26	20°
1600	64	350	62	40	34	1760	25	35	30	20°
1800	72	350	66	44	41	1970	25	35	30	20°
2000	80	420	72	48	48	2180	25	35	30	20°
2200	88	420	54	52	48	2390	25	35	30	20°
2400	96	420	60	56	48	2600	25	35	30	20°
2600	104	450	62	60	54	2810	25	35	30	20°
2800	112	450	64	64	54	3020	25	35	30	20°
3000	120	450	68	68	54	3220	25	35	30	20°



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。

Applicable to:

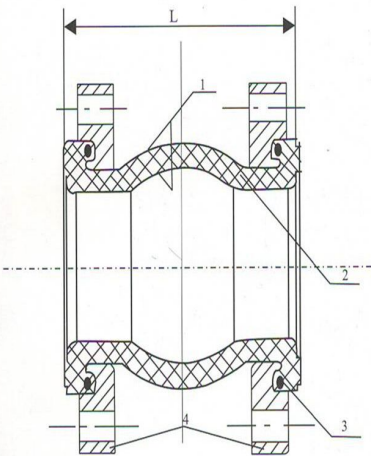
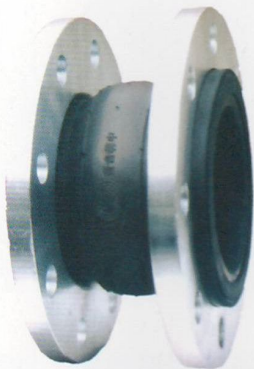
Due to its good integral function, flexible rubber joint is used widely in key projects of chemical industry, construction, water supply, drainage, petroleum, light and heavy industry, refrigeration, health, water heating, fireproof and power etc

2.Flexible Rubber Expansion Joint(double/twin sphere)



Nominal Pipe Size Joint I.D.		L	Flange	Holes	Size Holes	Bolt Circle	axial mm		Lateral	Angular Deflection
mm	inch	mm	mm		mm	mm	extension	compression	mm	a1+a2
32	1.25	165	16	4	18	100	6	9	9	35°
40	1.5	165	18	4	18	110	6	10	9	35°
50	2	165	18	4	18	125	7	10	10	35°
65	2.5	175	20	4	18	145	7	13	11	35°
80	3	175	20	4	18	160	8	15	12	35°
100	4	225	22	8	18	180	10	19	13	35°
125	5	225	24	8	18	210	12	19	13	35°
150	6	225	24	8	23	240	12	20	14	35°
200	8	325	24	8	23	295	16	25	22	35°
250	10	325	26	12	23	350	16	25	22	30°
300	12	325	28	12	23	400	16	25	22	30°
350	14	325	28	16	23	460	16	25	22	30°
400	16	400	30	16	25	515	16	25	22	30°
450	18	400	30	20	25	565	16	25	22	30°
500	20	400	32	20	25	620	16	25	22	30°
600	24	400	36	20	30	725	16	25	22	30°
700	28	400	36	24	30	840	16	25	22	30°
800	32	450	38	24	34	950	16	25	22	30°
900	36	450	42	28	34	1050	16	25	22	30°
1000	40	450	44	28	34	1160	18	26	24	30°
1200	48	500	48	32	41	1380	18	26	24	30°

JGD型可曲挠橡胶接头
JGD flexible rubber joint



各部分材质 Material Of Each Components

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

技术条件 Technical Conditions

型号 Type	JGD-1	JGD-2	JGD-3
工作压力MPa(Kg·f/cm ²) Working Pressure	1.0(10)	1.6(16)	2.5(25)
爆破压力MPa(Kg·f/cm ²) Explosion Pressure	3.0(30)	4.8(48)	5.5(55)
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, (-30~250 under special conditions)		
适用介质 Applicable Media	空气、压缩空气、水、海水、热水、油、酸、碱等 Air, compressed air, water, sea water, hot water, oil, acid, alkali, and so on.		

主要连接尺寸 Main connecting dimension

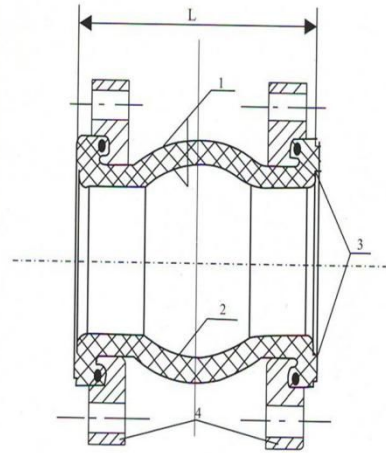
公称通径DN Nominal diameter		长度 L Length (mm)	轴向位移 Axial displacement		横向位移 Horizontal displacement (mm)	偏转角度 Deflexion angle (a ₁ +a ₂)°
mm	inch		伸长 Extension (mm)	压缩 Compression (mm)		
32	1¼	95	6	9	9	15°
40	1½	95	6	10	9	15°
50	2	105	7	10	10	15°
65	2½	115	7	13	11	15°
80	3	135	8	15	12	15°
100	4	150	10	19	13	15°
125	5	165	12	19	13	15°
150	6	180	12	20	14	15°
200	8	210	16	25	22	15°
250	10	230	16	25	22	15°
300	12	245	16	25	22	15°
350	14	255	16	25	22	15°
400	16	255	16	25	22	15°
450	18	255	16	25	22	15°
500	20	255	16	25	22	15°
600	24	260	16	25	22	15°
700	28	260	16	25	22	15°
800	32	260	16	25	22	15°
900	36	260	16	25	22	15°
1000	40	260	18	26	24	15°
1200	48	260	18	26	24	15°

注：1、DN32-1200 PN=1MPa 2、DN32-300 PN=1.6MPa 3、DN32-300 PN=2.5MPa 4、特殊要求请来函来图订制 5、高层给水使用本产品，管道必须有固定支撑或固定托架，否则产品应安装防拉脱装置，固定支撑或托架的力必须大于轴向力，否则也应安装防拉脱装置。

Notes: 1. DN32-1200 PN=1MPa; 2. DN32-300 PN=1.6MPa; 3. DN32-300 PN=2.5MPa; 4. For special order, please write and provide drawing sample; 5. this product is available for high-floor water supply. The pipe must be equipped with fixed support or fixed bracket, if not, the product shall be installed with escapement, the force of fixed support or bracket must be greater than axial force, if not the escapement shall also be installed.

德标高压橡胶接头

German-standard high-pressure rubber joint



各部分材质 Material Of Each Components

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

技术条件 Technical Conditions

型号 Type	I	II	III
工作压力MPa(Kg·f/cm ²) Working Pressure	1.0(10)	1.6(16)	2.5(25)
爆破压力MPa(Kg·f/cm ²) Explosion Pressure	3.0(30)	4.8(48)	5.5(55)
真空度KPa(mmHg) vacuum	53.3(400)	86.7(650)	100(750)
适用温度 Applicable Temperature°C	-15~115, 特殊可达-30~250 (-15~115, (-30~250 under special conditions)		
适用介质 Applicable Media	水、海水、蒸气、油、酸、碱等 Water, sea water, Steam, oil, acid, alkali, and so on.		

主要连接尺寸 Main connecting dimension

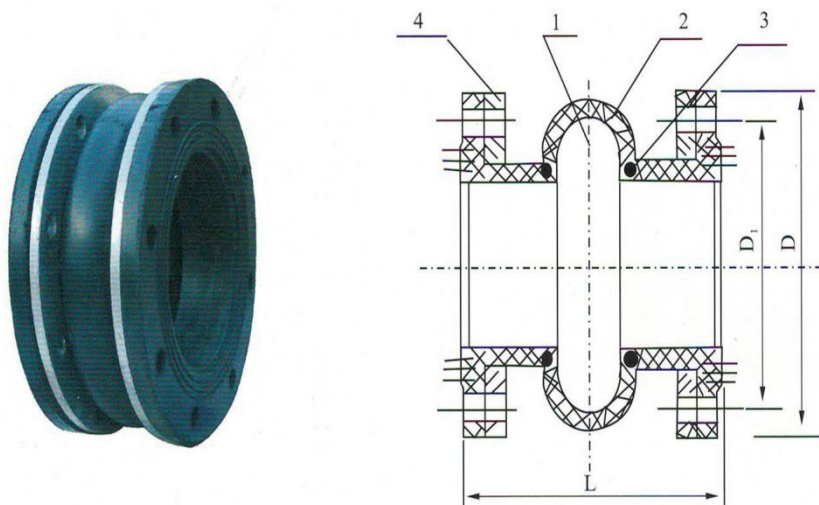
公称通径DN Nominal diameter		长度 L Length (mm)	法兰外径 Outer diameter of flange (mm)	螺栓中心圆直径 Diameter of the central ring of the bolt (mm)	法兰厚度 b Flange thickness (mm)	孔径-数量 Hole diameter -quantity d ₀ -n	轴向位移 Axial displacement		横向位移 Horizontal displacement (mm)	偏转角度 Deflexion angle (a ₁ +a ₂)°
mm	Inch						伸长 Extension (mm)	压缩 Compression (mm)		
32	1 $\frac{1}{4}$	95	140	100	16	18-4	6	9	9	15°
40	1 $\frac{1}{2}$	95	150	110	16	18-4	6	10	9	15°
50	2	105	165	125	18	18-4	7	10	10	15°
65	2 $\frac{1}{2}$	115	185	145	18	18-4	7	13	11	15°
80	3	130	200	160	20	18-8	8	15	12	15°
100	4	135	220	180	20	18-8	10	19	13	15°
125	5	170	250	210	22	18-8	12	19	13	15°
150	6	180	285	240	22	22-8	12	20	14	15°
200	8	205	340	295	24	22-8	16	25	22	15°
250	10	240	395	350	26	22-12	16	25	22	15°
300	12	260	445	400	26	22-12	16	25	22	15°
350	14	255	505	460	28	22-16	16	25	22	15°
400	16	255	565	515	32	26-16	16	25	22	15°
450	18	255	615	565	38	26-20	16	25	22	15°
500	20	255	670	620	38	26-20	16	25	22	15°
600	24	260	780	725	38	30-20	16	25	22	15°

注：法兰连接尺寸标准DIN2576 PN10

Note: the connecting size standard of flange is DIN 2576 PN10

美标高压橡胶接头

American-standard high-pressure rubber joint



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各部分材质 Material Of Each Components

序号 No	名称 Name	材料 Material	使用温度 Working temperature	使用介质 Working media
1	内、外层胶 Outer/inner rubber	NR, EPDM, NBR, SI	NR: -15℃~115℃	水、海水、蒸气、 油、酸、碱等 Water, sea water, evaporation, oil, acid, alkali, and so on.
2	主体骨架 Key frame	尼龙帘布 Nylon Cord Fabric	EPDM: -30℃~170℃	
3	增压环 Pressurized ring	钢丝绳 Steel wire	NBR: -15℃~140℃	
4	法兰 Flange	Q235	SI: 200℃~250℃	

主要连接尺寸 Main connecting dimension

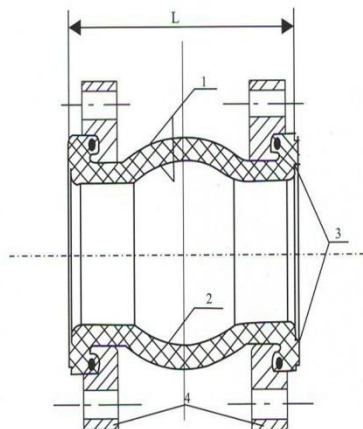
公称通径DN Nominal diameter		长度 L Length (mm)	法兰外径 Outer diameter of flange (mm)	螺栓中心圆直径 Diameter of the central ring of the bolt (mm)	孔径 Hole diameter- Φ	孔数 Quantity n (mm)	轴向位移 Axial displacement		横向位移 Horizontal displacement (mm)	偏转角度 Deflexion angle ($\alpha_1 + \alpha_2$) ⁰
mm	Inch						伸长Extension (mm)	压缩Compression (mm)		
50	2	150	150	120.5	20	4	6	10	12	19 ⁰
65	2½	150	180	139.5	20	4	6	10	12	15 ⁰
80	3	150	190	152.5	20	4	6	10	12	13 ⁰
100	4	150	230	190.5	20	8	6	10	12	10 ⁰
125	5	150	255	216	22	8	6	10	12	8 ⁰
150	6	150	280	241.5	22	8	6	10	12	6 ⁰
200	8	150	345	298.5	22	8	9	17	12	6 ⁰
250	10	200	405	362	26	12	9	17	12	5 ⁰
300	12	200	485	432	26	12	9	17	12	5 ⁰
350	14	200	535	476	30	12	9	17	12	4 ⁰
400	16	200	600	540	30	16	9	17	12	4 ⁰
450	18	200	635	578	33	16	9	17	12	3 ⁰
500	20	200	700	635	33	20	9	17	12	3 ⁰
600	24	250	815	749.5	36	20	10	20	12	3 ⁰

注：法兰连接尺寸标准ANSI B16.5 150lbs

Note: the connecting size standard of flange is ANSI B16.5 150lbs

英标高压橡胶接头

English-standard high-pressure rubber joint



各部分材质 Material Of Each Components

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

技术条件 Technical Conditions

型号 Type	I	II	III
工作压力MPa(Kg·f/cm ²) Working Pressure	1.0(10)	1.6(16)	2.5(25)
爆破压力MPa(Kg·f/cm ²) Explosion Pressure	3.0(30)	4.8(48)	5.5(55)
真空度KPa(mmHg) vacuum	53.3(400)	86.7(650)	100(750)
适用温度 Applicable Temperature/°C	-15~115, 特殊可达-30~250 (-15~115, (-30~250 under special conditions)		
适用介质 Applicable Media	水、海水、蒸气、油、酸、碱等 Water, sea water, Steam, oil, acid, alkali, and so on.		

主要连接尺寸 Main connecting dimension

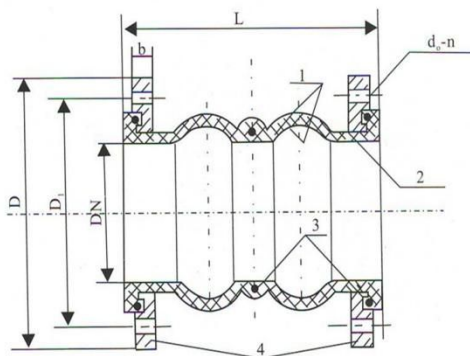
公称通径DN Nominal diameter		长度 L Length (mm)	法兰外径 Outer diameter of flange (mm)	螺栓中心圆直径 Diameter of the central ring of the bolt (mm)	法兰厚度 b Flange thickness (mm)	孔径-数量 Hole diameter -quantity d ₀ -n	轴向位移 Axial displacement		横向位移 Horizontal displacement (mm)	偏转角度 Deflexion angle (a ₁ +a ₂)°
mm	Inch						伸长 Extension (mm)	压缩 Compression (mm)		
32	1 $\frac{1}{4}$	95	140	100	16	18-4	6	9	9	15°
40	1 $\frac{1}{2}$	95	150	110	16	18-4	6	10	9	15°
50	2	105	165	125	18	18-4	7	10	10	15°
65	2 $\frac{1}{2}$	115	185	145	18	18-4	7	13	11	15°
80	3	135	200	160	20	18-8	8	15	12	15°
100	4	150	220	180	20	18-8	10	19	13	15°
125	5	165	250	210	22	18-8	12	19	13	15°
150	6	180	285	240	22	22-8	12	20	14	15°
200	8	210	340	295	24	22-8	16	25	22	15°
250	10	230	395	350	26	22-12	16	25	22	15°
300	12	245	445	400	26	22-12	16	25	22	15°
350	14	255	505	460	28	22-16	16	25	22	15°
400	16	255	565	515	32	26-16	16	25	22	15°
450	18	255	615	565	38	26-20	16	25	22	15°
500	20	255	670	620	38	26-20	16	25	22	15°
600	24	260	780	725	38	30-20	16	25	22	15°

注：法兰连接尺寸标准BS4504 PN10

Note: the connecting size standard of flange is BS4504 Pn10

韩标双球体高压橡胶接头

South Korea-standard dual-ball high-pressure rubber joint



各部分材质 Material Of Each Components

序号 No	名称 Name	材料 Material
1	内、外层胶 Outer/inner rubber	NR、NBR、EPDM、SI
2	主体骨架 Key frame	尼龙帘布 Nylon Cord Fabric
3	增压环 Pressurized ring	钢丝绳 steel wire
4	法兰 Flange	Q235、A3

技术条件 Technical Conditions

型号 Type	I	II	III
工作压力MPa(Kg·f/cm ²) Working Pressure	1.0(10)	1.6(16)	2.5(25)
爆破压力MPa(Kg·f/cm ²) Explosion Pressure	3.0(30)	4.8(48)	5.5(55)
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, (-30~250 under special conditions)		
适用介质 Applicable Media	水、海水、蒸气、油、酸、碱等 Water, sea water, Steam, oil, acid, alkali, and so on.		

主要连接尺寸 Main connecting dimension

公称通径DN Nominal diameter		长度 L Length (mm)	法兰外径 Outer diameter of flange D (mm)	螺栓中心圆直径 Diameter of the central ring of the bolt (mm)	螺栓孔直径 Bolt hole diameter (mm)	螺栓数 Quantity of bolt	轴向位移 Axial displacement		横向位移 Horizontal displacement (mm)	偏转角度 Deflexion angle (a ₁ +a ₂)°
mm	Inch						伸长 Extension (mm)	压缩 Compression (mm)		
40	1½	150	140	105	19	4	10	20	20	30°
50	2	150	155	120	19	4	10	20	20	30°
65	2½	150	175	140	19	4	10	20	20	30°
80	3	150	185	150	19	8	10	20	20	30°
100	4	200	210	175	19	8	15	30	25	30°
125	5	200	250	210	23	8	15	30	25	30°
150	6	200	280	240	23	8	15	30	25	30°
200	8	200	330	290	23	12	20	40	30	30°
250	10	200	400	355	25	12	20	40	30	30°
300	12	200	445	400	25	16	20	40	30	30°
350	14	225	490	445	25	16	20	40	30	30°
400	16	225	560	510	27	16	20	40	30	30°
450	18	260	620	565	27	20	25	45	30	30°
500	20	260	675	620	27	20	25	45	30	30°
600	24	260	795	730	33	24	25	45	30	30°

注：法兰连接尺寸标准JIS B2220 10K

Note: the connecting size standard of flange is JIS B2220 10K

1.6 Concentric Reducing Expansion Joints

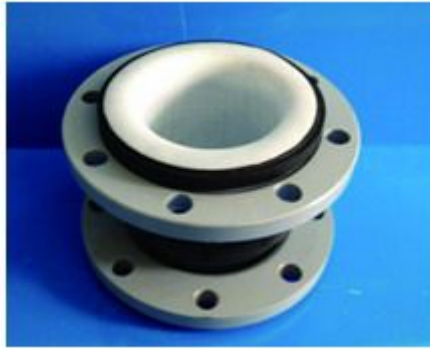


Nominal Pipe Size Joint I.D.	Length (mm)	Axial displacement (mm)		Lateral (mm)	Deflection angle ($\alpha_1 + \alpha_2$)
		Stretching	Compression		
80×50	180	20	30	45	35°
100×80	180	20	30	45	35°
150×80	190	20	30	45	35°
150×100	200	22	30	45	35°
200×100	200	22	30	45	35°
200×150	200	22	30	40	35°
250×200	220	25	35	40	30°
300×200	220	25	35	40	30°
300×250	220	25	35	40	30°
350×200	220	25	35	40	30°
350×300	220	25	38	35	30°
400×350	220	25	38	35	30°
500×400	230	28	38	35	26°
600×400	240	28	38	35	26°
600×500	240	28	38	35	26°

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1.5 PTFE Flexible Rubber Expansion Joints



2.1 Flexible Rubber Expansion Joint(double/twin sphere)



3.1 Bellows Expansion Joint



Normal Diameter DN	Type	Axial Compensator			Compensator		Rigidity			Effective Area A cm ²	Maximal Dimension Outer H mm	Pot Dimension Do*s(MM)	Length L(mm)		Weight W(Kg)
		1500	1300	1500	Lateral Y o mm	Angle Y o mm	Axial K x N/mm	Lateral K y N/mm	Angle KØ N*M			Flange Connection	Flange	Joint	Flange
80	1.0YSTA 80*8J/F	30	25	18	6.4	±6.4	358	418	8.4	81	284	Φ890*4	244	344	10
	1.0YSTA 80*10J/F	37	32	22	10	±8	286	214	6.7				274	374	10
100	1.0YSTA 100*6J/F	33	28	20	3.6	±3.6	417	1471	14	121	304	Φ108*4	223	323	11
	1.0YSTA 100*10J/F	56	47	33	10	±8	250	318	8.5				287	387	13
125	1.0YSTA 125*5J/F	36	32	21	2.5	±4	408	2885	21	180	334	Φ133*4	216	318	13
	1.0YSTA 125*8J/F	65	58	28	8	±8	227	495	12				288	388	14
150	1.0YSTA 150*5J/F	48	41	27	2.5	±5	300	2889	20	257	364	Φ159*4.5	238	338	17
	1.0YSTA 150*8J/F	77	65	43	6.4	±8	188	705	23				298	398	18
200	1.0YSTA 200*4J/F	56	47	31	3.2	±5.3	288	3164	39	479	442	Φ219*6	244	344	25
	1.0YSTA 200*6J/F	84	70	46	7.2	±8	192	9938	26				298	340	27
250	1.0YSTA 250*4J/F	63	53	36	4.8	±5.3	588	4371	128	769	497	Φ273*8	309	409	38
	1.0YSTA 250*6J/F	95	80	53	10.8	±8	392	1295	85				387	487	43
300	1.0YSTA 300*4J/F	65	54	37	6.4	±5.3	830	4444	249	1105	547	Φ325*8	358	458	49
	1.0YSTA 300*6J/F	97	82	55	14	±5.8	553	1371	166				456	556	56
350	1.0YSTA 350*4J/F	72	60	40	6	±8	840	4289	2309	1307	607	Φ377*10	499	487	73
	1.0YSTA 350*4J/F	107	90	61	14	±8	560	1431	206				387	599	82

4.1 Double Flange Dismantling Joints



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Written by Lily.

Thanks