

## BW 型通用型不锈钢波纹补偿器(又称膨胀节)

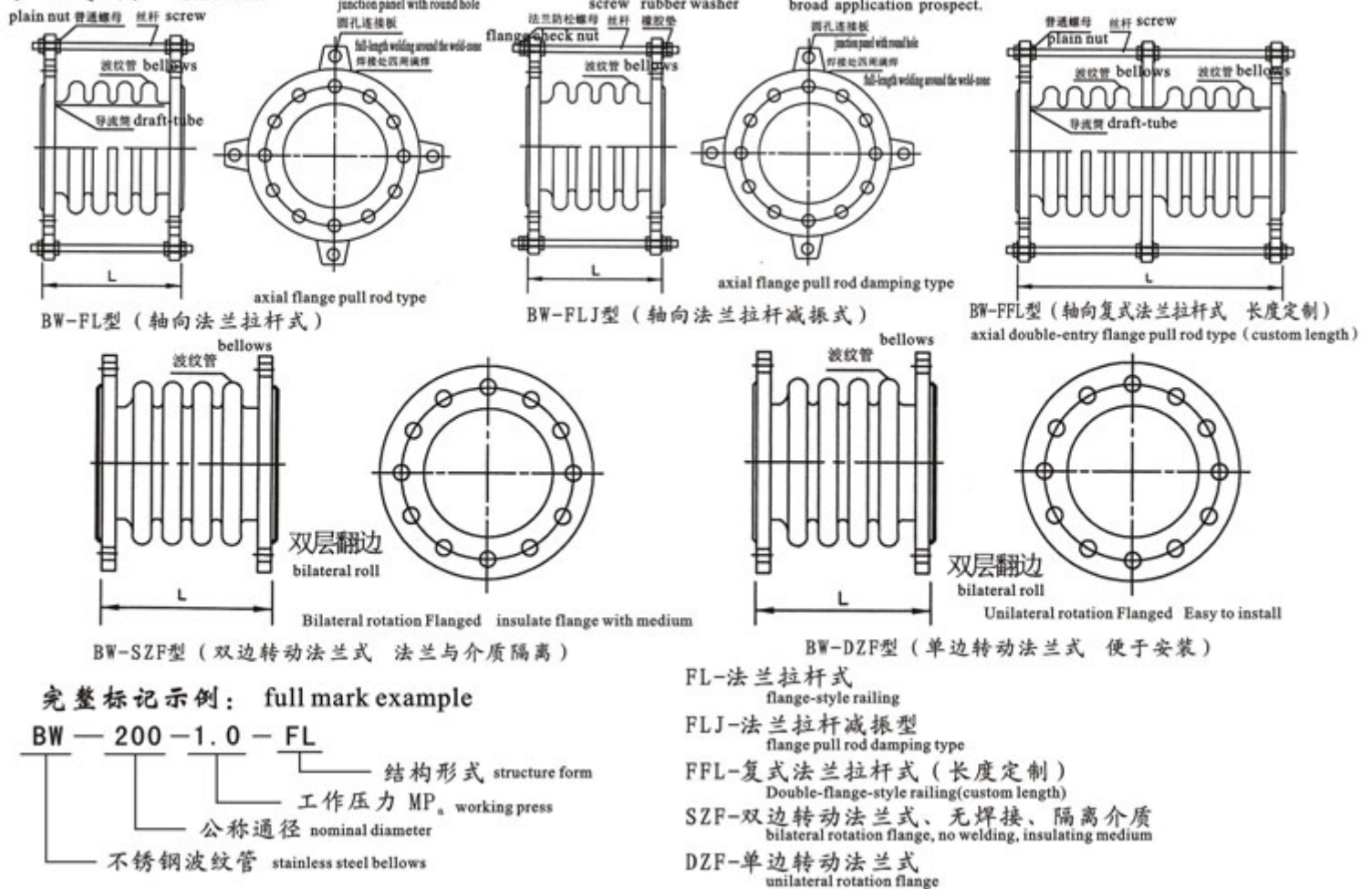
### BW-based general-purpose stainless steel bellows compensator(also known as expanding section)

BW 型通用型不锈钢波纹补偿器(又称膨胀节)是由 BW-based general. purpose stainless steel bellows 一个或几个波纹 管、法兰、接管等结构件组成, 用来compensator (also known as expanding section), which is 吸收由于热胀冷缩等原因引起的管道和(或)设备尺寸 composed of structural compon-ents such as one or several 变化的装置。它通过波纹管的柔性变形来吸收管线的 bellows, flange, joint pipe, is actually all equipment used 轴向、径向和角向位移, 同时也能起到隔振降噪效 to absorb distortion ofthe pipeline or other component 果。按照不同的结构可分为以下不同形式: 单式轴向 caused by the thermal expansion and shrinkage or other 型、单式铰链型、单式万向铰链型、复式自由型、复 reasons. It absorbs the axial. radial and angular 式拉杆型、复式铰链型、复式万向铰链型, 弯管压力 displacement and also a vibration and noise isolating 平衡型、直管压力平衡型、外压单式轴向型以及它们 device. It can also be classifi-ed by structure as single 的不同组合等多种形式。本公司产 品以国标 axial type, single hinge type, single-type universal GB/T12777-2008《金属波纹管膨胀节通用技术条件》 joints, double-free type, reset rod type, double hinge 和 GB/T145 25-1993《波纹金属软管通用技术条件》 type, duplex-type universal joints, elbow pressure 为基础, 参考采用美国膨胀节制造协会(EdMA)标准等 balanced, direct pressure balanced, and external pressure 国内外现行标准的有关内容, 吸收了近年来国内膨胀 single axial type as well as their difierent combinations 节、金属软管行业在设计、制造方面的研究成果和实 ofvarious fotins Based on international standard of 践经验, 设计开发了本系列产品, 其中波纹管生产车 GB/T12777—2008< >and GB/T14525199 3< >, the company 间建筑面积达 6000M2, 内设冲压、裁剪、 拉伸、全 designed and developed a serious of products whileit 自动焊接、手工焊接、延压、全自动打波、单级液压 consultedrelating contentin existing standard both home and 打波、装配、 压力试验等部门。各类机械设备精良, abroad like EJMA and took in the researching results and 员工素质优秀, 辅以完整的检测手段, 产品质量优 practical experience in aspect of design and manufacture of

异、品种繁多、规格齐全，确保产品符合顾客的要求。其中新开发的单边转动法兰式(DZF 型)，便于安装使用；双边转动法兰式 (SZF 型)，法兰与波纹管无焊接，与介质完全隔离，当介质有特殊要求时具有明显的优越性，即使碳钢法兰也不至于快速腐蚀，同时安装时可随意转动法兰，省工省时。减振产品(FLJ 型)在用于动力设备进出口管道时，隔振降噪效果明显，具有广泛应用前景。

corrugated compensator as well as metal soft pipe in our country in recent years. The manufacture workshop of bellows with a construction area of 6000m<sup>2</sup> is consisted of stamping, cutting, stretching, automatic welding, manual welding, the extension of pressure, automatic beat-wave, single-stage hydraulic football. assembly, pressure test and other departments. With help of all superior mechanical equipment. well-trained workers and complete testing methods, we provide products of high quality and various specific-ations to meet the customers' requirement. Among all the products, the newly developed unilateral rotation flanged(DZF type)is easy to install and bilateral rotation flanged(SZF type)is evidently superior when the medium is specially required For the DZF type, no welding exists between the flange and bellows and the flange is totally insulated with the medium even if carbon steel flange is unapt to erode. The movable flange can be installed laborsaving as well as swiftly. The vibration absorber(FLJ type)perforlns well in vibration insulating and muffling when installed in in-out pipe of power equipment and it has a broad application prospect.

产品简图： Sketch:



When installed in in-out pipe of power equipment it has a broad application prospect.

产品均可另行设置导流筒，以减缓流体冲击。产品上拉杆只起一般限位及运输限位作用，不能承受波纹管受压后产生的压力推力，若需同时承受压力推力，需加强波纹管上法兰上的拉杆及支耳，订货时需另行注明，同时需加强主次固定支架，见选用要点说明 P41。

A separate draft-tube installed in the product can reduce the impact of fluid. The pull rod restricts position and transportation but cannot undertake the pressure and thrust caused by the pressed bellows, unless pull rod and supporting frame are strengthened and please make a declaration when they are needed. Besides, please make a detail declaration if the strengthened primary and secondary bracket is needed.

技术特性表： (FL、FLJ、FFL、SZF、DZF 五种产品相同)

technical characteristics table: (FL, FLJ, FFL, SZF, DZF are same five products)

公称通径 mm nominal	长度 mm length	波数	波纹管有效面积 cm <sup>2</sup> effective area of	轴向补偿量 ±mm/ 刚度 N/mm axial compensation rigidity
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diameter			bellows	1.0MP <sub>a</sub>	1.6MP <sub>a</sub>	2.5MP <sub>a</sub>
15	110	12	3	4.6/170	3.0/200	3.0/200
20	110	10	3.5	4.6/180	3.0/210	3.0/210
25	120	10	9	4.9/185	3.2/230	3.2/230
32	120	8	19	4.9/215	3.4/250	3.4/250
40	130	8	21	4.9/260	3.4/310	3.4/310
50	130	8	41	6/300	5.5/410	5.5/410
65	150	6	61	10/380	9.0/460	9.0/460
80	165	6	82	15/490	12.0/560	12.0/560
100	180/180	6	125	20/550	18/600	18/600
125	200	6	180	25/600	20/800	20/800
150	250	6	255	30/750	25/980	25/980
200	260	6	480	35/1000	30/1400	28/1500
250	280	5	730	35/1000	28/2000	25/2400
300	280	4	1020	40/1650	35/2400	32/3000
350	280	4	1580	40/1800	35/2800	32/3600
400	280	4	1580	40/1960	35/3000	32/3800
450	300	4	1980	45/2000	40/4000	38/4200
500	350	4	2450	55/2100	50/4600	45/5200
600	350	4	3450	55/2200	50/4800	45/5400
700	400	4	4740	65/2300	60/4900	50/5800
800	400	4	5960	65/2400	60/5000	50/6800
900	450	4	7560	80/2500	70/5400	60/7200
1000	450	4	9280	80/2600	70/5500	60/7800
1100	450	4	10816	80/2800	70/5700	60/8200
1200	500	4	13010	90/3000	80/6000	70/9000
1300	500	4	14800	90/3200	80/6400	70/10800
1400	500	4	16510	90/3400	80/6580	70/11800
1500	500	4	18900	90/3510	80/6700	70/12300
1600	500	4	21920	90/3620	80/6950	70/14300
1800	500	4	26577	90/3800	80/7100	70/12800

注：复式法兰拉杆式产品长度、波数定制，轴向补偿量、刚度相应增减，长度一般为单式产品的 2.5 倍。轴向补偿量拉伸时取+， 压缩时取—。采用碳钢法兰时，工作温度-20℃～450℃，不锈钢 suu304 法兰时-196℃～600℃，疲劳寿命 1500 次。

Note: The length and wave number can be customized for the duplex flange pull rod type, with the axial compensation and rigidity increase or decrease. and the length is 2. 5 times as that ofthe single type. The axial compensation is “+” when pulled and “—” when compressed. Theworkingtemperature ofcarbon steelflangeis-20℃～450℃while stainless steel sus304flangeis-196℃～600℃. withwearylife of 1500 times.

