

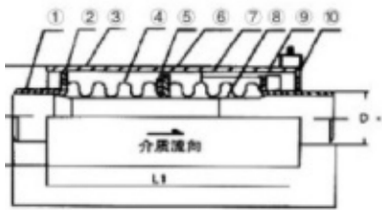


BW Unrestrained Corrugated Expansion Joint

Unrestrained axial metal bellows compensator | Directional protection and guide components



Exact BW catalog product



Exact BW structural drawing

Key Supply & Configuration Data

Model	BW
Size Range	DN50-DN1000 catalog range
Primary Movement	Axial thermal compensation
Pressure Levels	1.0 / 1.6 / 2.5 MPa catalog pressure-level headers
Construction	Metal bellows + directional protection / guiding components
Connection	Pipe-end / nozzle configuration
Catalog Configuration	Multiple wave numbers and installed lengths
Standard	GB/T 12777-2019
Pressure Thrust	Unrestrained design does not restrain pipeline pressure thrust; main anchors and guides remain part of the piping-system design
Materials / Temperature	Confirmed for the selected medium, pressure, temperature and approved project requirements

Fast Supply & Custom Production

- Common configurations can be prepared for fast supply.
- Custom production can start the same day after drawing and specification confirmation.
- DN, wave number, installed length, connection and materials can be made to approved project requirements.



Catalog Dimensions & Construction Reference

Safe published fields from the Mingchao BW catalog: DN, wave number, effective bellows area, nozzle size and total length.
Legacy pressure-specific paired values are not reproduced because the source subheader/meaning requires factory confirmation.

Main Connection Data

Effective area: cm2 | Dimensions: mm

DN	Wave Number	Effective Bellows Area	Nozzle Size	Total Length
50	8	50	57 x 3.5	350
50	16	50	57 x 3.5	480
50	32	50	57 x 3.5	620
65	8	55	73 x 4	440
65	12	55	73 x 4	520
65	24	55	73 x 4	600
80	8	81	89 x 4	470
80	10	81	89 x 4	510
80	20	81	89 x 4	680
100	8	121	108 x 4	500
100	10	121	108 x 4	540
100	20	121	108 x 4	700
125	8	180	133 x 4	540
150	8	257	219 x 4.5	550
200	8	479	219 x 6	600
250	8	769	273 x 8	640
300	8	1105	325 x 8	660
350	6	1307	377 x 10	665
400	6	1611	426 x 10	665
450	6	1972	478 x 10	720
500	6	2445	529 x 10	720
600	6	3534	630 x 10	780
700	6	4717	720 x 10	850
800	4	5822	820 x 10	750
900	4	7620	920 x 10	750
1000	4	9043	1020 x 10	780

Selection & Engineering Note

- Pressure-specific paired values shown in the legacy catalog are intentionally withheld from this PDF until the exact field definition is confirmed.
- For an unrestrained BW joint, pressure thrust is transferred to the piping system; suitable main anchors, directional guides and independent pipe supports must be provided by the system design.
- Final selection should confirm DN, required axial movement, pressure, temperature, medium, installed length, flow direction and piping layout.

For detailed technical requirements, custom configurations or project questions, please contact us.