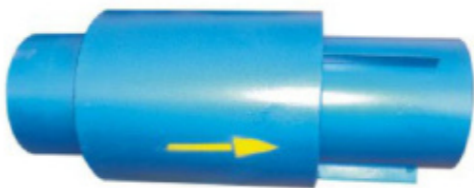


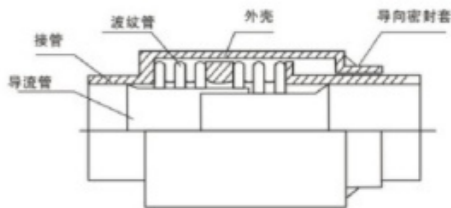


# JZM Direct-Buried Corrugated Expansion Joint

Direct-buried axial bellows compensator | Protective outer casing for underground pipeline service



Exact JZM catalog product



Exact JZM structural drawing

## Key Supply & Configuration Data

|                         |                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------|
| Model                   | JZM                                                                                                               |
| Size Range              | DN50-DN1000 catalog range                                                                                         |
| Primary Movement        | Axial thermal compensation                                                                                        |
| Pressure Levels         | 0.25 / 0.6 / 1.0 / 1.6 / 2.5 MPa catalog levels                                                                   |
| Configuration           | Direct-buried metal bellows with protective outer casing and guide / sealing components                           |
| Connection              | Pipe-end / weld-end configuration; final interface dimensions confirmed by approved project drawing               |
| Catalog Fields          | Axial compensation / stiffness, effective area, maximum external diameter, connection-end size and total length   |
| Standards               | Project specification and applicable bellows design requirements confirmed at quotation / drawing stage           |
| Buried-System Design    | Anchors, guides, alignment, soil / groundwater conditions, corrosion protection and access require project review |
| Materials / Temperature | Confirmed for the selected medium, pressure, temperature, burial environment and 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, pressure, movement, installed length, connection ends, burial conditions and materials can be made to approved project requirements.



## Catalog Axial Compensation & Dimensional Reference

Exact Mingchao JZM catalog values. Compensation is in mm; stiffness is in N/mm; effective area is in cm<sup>2</sup>; dimensions are in mm.  
Pressure-level pairs are reproduced directly from the catalog source images to avoid reinterpretation of the original table.

### Main Connection Data - Part 1

Pressure levels: 0.25 / 0.6 / 1.0 / 1.6 / 2.5 MPa

主要连接尺寸 Main connection dimensions

| 公称<br>通径DN<br>Nominal<br>diameter | 波数<br>Quantity<br>of ripple | 压力等级(MPa) Pressure level |                |                |                |                | 波纹管有效<br>面积(cm <sup>2</sup> )<br>Effective area of<br>corrugated<br>tube | 最大外径尺寸<br>Maximum<br>external<br>diameter<br>(mm) | 接口端尺寸<br>Size of<br>connection end<br>(mm) | 总长<br>Total length<br>(mm) |
|-----------------------------------|-----------------------------|--------------------------|----------------|----------------|----------------|----------------|--------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------|----------------------------|
|                                   |                             | 0.25                     | 0.6            | 1.0            | 1.6            | 2.5            |                                                                          |                                                   |                                            |                            |
|                                   |                             | 轴向补偿量mm/刚度N/mm           | 轴向补偿量mm/刚度N/mm | 轴向补偿量mm/刚度N/mm | 轴向补偿量mm/刚度N/mm | 轴向补偿量mm/刚度N/mm |                                                                          |                                                   |                                            |                            |
| 50                                | 8                           | 14/153                   | 12/318         | 12/318         | 12/635         | 11/1310        | 37                                                                       | 120                                               | φ57×3.5                                    | 361                        |
| 50                                | 16                          | 27/76                    | 24/158         | 24/158         | 24/318         | 23/655         | 37                                                                       | 120                                               | φ57×3.5                                    | 445                        |
| 50                                | 32                          | 52/38                    | 48/79          | 48/79          | 48/159         | 46/328         | 37                                                                       | 120                                               | φ57×3.5                                    | 621                        |
| 65                                | 8                           | 19/213                   | 18/213         | 18/213         | 18/424         | 15/841         | 55                                                                       | 159                                               | φ73×4                                      | 377                        |
| 65                                | 12                          | 30/142                   | 29/142         | 27/142         | 27/283         | 25/421         | 55                                                                       | 159                                               | φ73×4                                      | 425                        |
| 65                                | 24                          | 60/71                    | 58/107         | 54/107         | 54/142         | 50/211         | 55                                                                       | 159                                               | φ73×4                                      | 581                        |
| 80                                | 8                           | 30/179                   | 30/179         | 30/358         | 29/358         | 27/650         | 81                                                                       | 162                                               | φ89×4                                      | 430                        |
| 80                                | 10                          | 54/143                   | 37/143         | 37/286         | 37/286         | 32/325         | 81                                                                       | 162                                               | φ89×4                                      | 466                        |
| 80                                | 20                          | 108/72                   | 74/72          | 74/143         | 74/143         | 64/163         | 81                                                                       | 162                                               | φ89×4                                      | 660                        |
| 100                               | 6                           | 34/138                   | 34/277         | 33/417         | 33/417         | 32/817         | 121                                                                      | 180                                               | φ108×4                                     | 410                        |
| 100                               | 10                          | 56/83                    | 56/166         | 56/250         | 54/250         | 50/409         | 121                                                                      | 180                                               | φ108×4                                     | 492                        |
| 100                               | 20                          | 112/42                   | 112/83         | 112/126        | 108/126        | 100/206        | 121                                                                      | 180                                               | φ108×4                                     | 712                        |
| 125                               | 5                           | 37/136                   | 36/272         | 36/408         | 35/408         | 33/801         | 180                                                                      | 221                                               | φ133×4                                     | 410                        |
| 125                               | 9                           | 66/76                    | 65/151         | 65/227         | 63/227         | 60/401         | 180                                                                      | 221                                               | φ133×4                                     | 412                        |
| 125                               | 18                          | 132/38                   | 130/76         | 130/114        | 126/114        | 120/201        | 180                                                                      | 221                                               | φ133×4                                     | 711                        |
| 150                               | 5                           | 49/100                   | 49/200         | 48/300         | 45/456         | 44/845         | 257                                                                      | 245                                               | φ159×4.5                                   | 433                        |
| 150                               | 8                           | 88/63                    | 78/125         | 77/188         | 71/286         | 65/423         | 257                                                                      | 245                                               | φ159×4.5                                   | 518                        |
| 150                               | 16                          | 159/32                   | 156/63         | 154/94         | 142/143        | 130/211        | 257                                                                      | 245                                               | φ159×4.5                                   | 756                        |
| 200                               | 4                           | 58/95                    | 56/193         | 56/288         | 56/480         | 55/800         | 479                                                                      | 327                                               | φ219×6                                     | 475                        |
| 200                               | 6                           | 86/63                    | 85/128         | 85/192         | 84/320         | 80/927         | 479                                                                      | 327                                               | φ219×6                                     | 553                        |
| 200                               | 12                          | 172/32                   | 170/64         | 170/96         | 168/160        | 160/200        | 479                                                                      | 327                                               | φ219×6                                     | 800                        |
| 250                               | 4                           | 75/170                   | 74/343         | 63/588         | 53/930         | 50/1856        | 769                                                                      | 404                                               | φ273×8                                     | 500                        |
| 250                               | 6                           | 112/113                  | 110/228        | 95/392         | 80/620         | 78/927         | 769                                                                      | 404                                               | φ273×8                                     | 620                        |
| 250                               | 12                          | 220/57                   | 220/114        | 190/196        | 160/310        | 156/464        | 769                                                                      | 404                                               | φ273×8                                     | 984                        |
| 300                               | 4                           | 73/250                   | 72/503         | 65/830         | 57/1253        | 54/2142        | 1105                                                                     | 451                                               | φ325×8                                     | 584                        |
| 300                               | 6                           | 110/167                  | 109/335        | 97/553         | 85/835         | 80/1071        | 1105                                                                     | 451                                               | φ325×8                                     | 713                        |
| 300                               | 12                          | 220/84                   | 218/168        | 194/277        | 170/418        | 160/536        | 1105                                                                     | 451                                               | φ325×8                                     | 1116                       |
| 350                               | 4                           | 79/263                   | 78/523         | 72/840         | 64/1265        | 62/2684        | 1307                                                                     | 500                                               | φ377×10                                    | 614                        |
| 350                               | 6                           | 119/175                  | 117/348        | 107/560        | 97/843         | 90/1342        | 1307                                                                     | 500                                               | φ377×10                                    | 759                        |
| 350                               | 12                          | 238/88                   | 234/174        | 214/280        | 194/442        | 180/671        | 1307                                                                     | 500                                               | φ377×10                                    | 1216                       |
| 400                               | 4                           | 83/280                   | 73/458         | 70/918         | 65/1373        | 63/3675        | 1611                                                                     | 537                                               | φ426×10                                    | 625                        |

### Main Connection Data - Part 2

Same catalog columns and units

| 公称<br>通径DN<br>Nominal<br>diameter | 波数<br>Quantity<br>of ripple | 压力等级(MPa) Pressure level |                |                |                |                | 波纹管有效<br>面积(cm <sup>2</sup> )<br>Effective area of<br>corrugated<br>tube | 最大外径尺寸<br>Maximum<br>external<br>diameter<br>(mm) | 接口端尺寸<br>Size of<br>connection end<br>(mm) | 总长<br>Total length<br>(mm) |
|-----------------------------------|-----------------------------|--------------------------|----------------|----------------|----------------|----------------|--------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------|----------------------------|
|                                   |                             | 0.25                     | 0.6            | 1.0            | 1.6            | 2.5            |                                                                          |                                                   |                                            |                            |
|                                   |                             | 轴向补偿量mm/刚度N/mm           | 轴向补偿量mm/刚度N/mm | 轴向补偿量mm/刚度N/mm | 轴向补偿量mm/刚度N/mm | 轴向补偿量mm/刚度N/mm |                                                                          |                                                   |                                            |                            |
| 350                               | 4                           | 79/263                   | 78/523         | 72/840         | 64/1265        | 62/2684        | 1307                                                                     | 500                                               | φ377×10                                    | 614                        |
| 350                               | 6                           | 119/175                  | 117/348        | 107/560        | 97/843         | 90/1342        | 1307                                                                     | 500                                               | φ377×10                                    | 759                        |
| 350                               | 12                          | 238/88                   | 234/174        | 214/280        | 194/442        | 180/671        | 1307                                                                     | 500                                               | φ377×10                                    | 1216                       |
| 400                               | 4                           | 83/280                   | 73/458         | 70/918         | 65/1373        | 63/3675        | 1611                                                                     | 537                                               | φ426×10                                    | 625                        |
| 400                               | 6                           | 125/187                  | 109/305        | 102/612        | 97/915         | 90/1838        | 1611                                                                     | 537                                               | φ426×10                                    | 771                        |
| 400                               | 12                          | 250/94                   | 218/153        | 204/306        | 194/458        | 180/920        | 1611                                                                     | 537                                               | φ426×10                                    | 1225                       |
| 450                               | 4                           | 98/203                   | 96/405         | 82/690         | 69/2305        | 65/4350        | 1922                                                                     | 632                                               | φ478×10                                    | 620                        |
| 450                               | 6                           | 147/135                  | 144/270        | 124/460        | 103/1537       | 90/2175        | 1922                                                                     | 632                                               | φ478×10                                    | 762                        |
| 450                               | 12                          | 294/68                   | 288/135        | 248/230        | 206/769        | 180/1087       | 1922                                                                     | 632                                               | φ478×10                                    | 1200                       |
| 500                               | 4                           | 102/212                  | 100/423        | 84/728         | 70/2452        | 65/4256        | 2445                                                                     | 699                                               | φ529×10                                    | 624                        |
| 500                               | 6                           | 153/142                  | 149/282        | 126/485        | 105/1635       | 90/2128        | 2445                                                                     | 699                                               | φ529×10                                    | 766                        |
| 500                               | 12                          | 306/71                   | 298/141        | 252/243        | 210/818        | 180/1064       | 2445                                                                     | 699                                               | φ529×10                                    | 1216                       |
| 600                               | 4                           | 123/265                  | 121/530        | 86/1468        | 99/1740        | 95/2842        | 3534                                                                     | 806                                               | φ630×10                                    | 676                        |
| 600                               | 6                           | 185/177                  | 181/353        | 148/978        | 140/1160       | 120/1420       | 3534                                                                     | 806                                               | φ630×10                                    | 848                        |
| 600                               | 12                          | 370/89                   | 362/177        | 358/489        | 280/580        | 240/710        | 3534                                                                     | 806                                               | φ630×10                                    | 1382                       |
| 700                               | 4                           | 128/287                  | 126/573        | 87/1625        | 85/2972        | 84/4100        | 4717                                                                     | 915                                               | φ720×10                                    | 708                        |
| 700                               | 6                           | 192/192                  | 188/382        | 168/1083       | 131/1982       | 120/2050       | 4717                                                                     | 915                                               | φ720×10                                    | 882                        |
| 700                               | 12                          | 384/96                   | 376/191        | 336/542        | 262/991        | 240/11025      | 4717                                                                     | 915                                               | φ720×10                                    | 1422                       |
| 800                               | 4                           | 128/310                  | 126/620        | 84/1778        | 85/3183        | 84/6234        | 5822                                                                     | 1005                                              | φ820×10                                    | 724                        |
| 800                               | 8                           | 256/155                  | 252/310        | 168/889        | 170/1591       | 168/3117       | 5822                                                                     | 1005                                              | φ820×10                                    | 1071                       |
| 800                               | 12                          | 384/103                  | 378/207        | 262/596        | 241/1061       | 236/1558       | 5822                                                                     | 1005                                              | φ820×10                                    | 1538                       |
| 900                               | 4                           | 151/378                  | 149/758        | 118/1329       | 117/2575       |                | 7620                                                                     | 1137                                              | φ920×10                                    | 792                        |
| 900                               | 8                           | 302/189                  | 298/379        | 236/664        | 234/1288       |                | 7620                                                                     | 1137                                              | φ920×10                                    | 1211                       |
| 900                               | 12                          | 453/128                  | 447/253        | 351/443        | 354/825        |                | 7620                                                                     | 1137                                              | φ920×10                                    | 1650                       |
| 1000                              | 4                           | 140/423                  | 140/845        | 115/2770       | 90/5038        |                | 9043                                                                     | 1227                                              | φ1020×10                                   | 800                        |
| 1000                              | 8                           | 280/212                  | 280/423        | 230/1385       | 180/2519       |                | 9043                                                                     | 1227                                              | φ1020×10                                   | 1200                       |
| 1000                              | 12                          | 420/141                  | 420/282        | 345/923        | 270/1679       |                | 9043                                                                     | 1227                                              | φ1020×10                                   | 1616                       |

### Selection & Engineering Note

- JZM is intended for buried axial thermal-movement service; pipeline layout, anchors, guides, straight-run conditions and burial loads must be checked by the system design.
- Confirm DN, pressure, required axial movement, installed length, medium, temperature, flow direction, corrosion protection and burial environment before final selection.
- Final interface dimensions, materials and project-specific construction are subject to the approved drawing and order confirmation.

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