

## WILLBRANDT Axialkompensator mit drehbaren Losflanschen

### Typ 212

### Typ 213 (mit Innenleitrohr)

Der Typ 212 ist ein mehrlagiger Axialkompensator mit drehbaren Losflanschen, Er ist speziell konzipiert für den Betrieb in Anlagen mit Betriebsdrücken bis 63 barg.

Dieser Kompensator lässt sowohl axiale, laterale wie auch angulare Bewegungen zu.

#### Beschreibung

Neben den aufgeführten Standardbaulängen kann die Baulänge speziell auf Ihre Bedürfnisse angepasst gefertigt werden. Dieser Kompensator kann auch in anderen Werkstoffen (siehe Seite 179) gefertigt werden.

Die angegebenen Bewegungen stellen die einzelnen Maximalwerte dar. Zur Ermittlung kombinierter Bewegungsmöglichkeiten verwenden sie bitte das Bewegungsschaubild auf Seite 10.

#### Anforderungen

- Starke Festpunkte und gute Loslager erforderlich
- Große Bewegungen erfordern den Einsatz mehrerer Axialkompensatoren

#### Vorteile

- Einfache Lösung für die Kompensation von Temperaturschwankungen
- Keine Strömungsumlenkung
- Kompakte und platzsparende Lösung
- Relativ geringe Kosten

## WILLBRANDT Axial expansion joint with loose flanges

### Type 212

### Type 213 (with internal sleeve)



Type 212 is a multi-layer axial expansion joint with loose flanges. It is designed specifically for operation in installations with operating pressures up to 63 barg.

This expansion joint allows axial, lateral and angular movements.

#### Description

In addition to the given standard lengths, other lengths are available to meet specific requirements. This expansion joint can also be produced in other materials (see page 179).

The specified movements represent the individual maximum values. For determining combined movements, refer to the movement diagram on page 10.

#### Requirements

- Strong fixed points and good floating bearings necessary
- Large movements require the use of several axial expansion joints

#### Advantages

- Simple solution for temperature fluctuation compensation
- No flow deflection
- Compact and space-saving solution
- Relatively low costs

## WILLBRANDT Axialkompensator mit drehbaren Losflanschen

### Typ 212

### Typ 213 (mit Innenleitrohr)

## WILLBRANDT Axial expansion joint with loose flanges

### Type 212

### Type 213 (with internal sleeve)

**Einsatzbeispiele** Flüssige, gasförmige oder Medien mit hohem Feststoffanteil (mit Innenleitrohr), z. B. Dampfanlagen, Wasser, Entwässerung, chemische Industrie, Petrochemie etc.

**Standardmäßiger Aufbau** Mehrlagiger Wellrohrbalg aus 1.4541 mit glatten Flanschen aus C-Stahl (roh). Der Bördel besteht aus umgeformtem Balgmaterial.

**Zulässige Betriebsdaten** (Standard) 16 barg / 120 °C gem. EJMA  
Höhere Drücke auf Anfrage.

**Zubehör** Innenleitrohr, Außenschutzrohr

**Hinweis** Bei Verwendung von Leitrohren vermindert sich die Möglichkeit der Aufnahme der lateralen oder angularen Bewegungen um mind. 90 %. Bitte beachten Sie bei Ihrer Planung die Medienverträglichkeit der zu verwendenden Kompensatormaterialien.

**Application examples** Liquid, gaseous or media with a high solids content (with internal sleeve), e.g. steam plants, water, drainage, chemical industry, petrochemistry, etc.

**Standard design** Multi-layer corrugated tube bellows of 1.4541 with smooth flanges of carbon steel (raw). The collar is made from formed bellows material.

**Permissible operating data** 16 barg / 120 °C acco. to EJMA  
Higher pressures on request.

**Accessories** Internal sleeve, external protective sleeve

**Note** When using internal sleeves, the possibility to compensate for lateral or angular movements reduces by minimum 90 %. To be noted is that the media compatibility of the expansion joint material to be used should be taken into account in the planning phase.



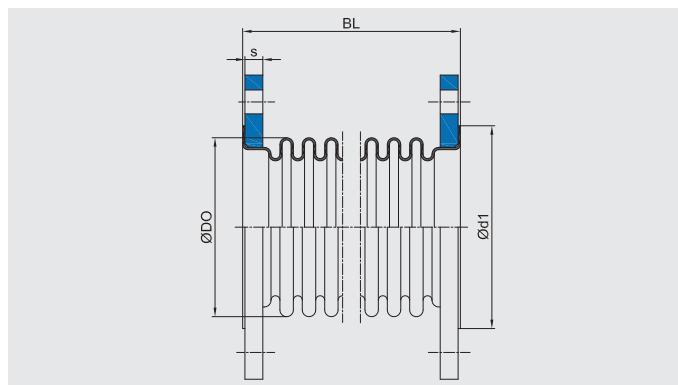
# Typ 212 Abmessungen

## Ausführung 1

# Type 212 Specifications

## Model 1

Druckstufe 2,5 barg (PN 2,5)  
Design pressure 2.5 barg (PN 2.5)



| DN   | Länge<br>Length | Balg<br>Bellow |           | Flansch<br>Flanges     |           | Bewegungsaufnahme<br>Movement |           |           | Verstellkraftrate<br>Springrate |            |            | Gewicht<br>Weight | Artikel<br>Article |               |
|------|-----------------|----------------|-----------|------------------------|-----------|-------------------------------|-----------|-----------|---------------------------------|------------|------------|-------------------|--------------------|---------------|
|      |                 | BL<br>mm       | ØDO<br>mm | WF*<br>cm <sup>2</sup> | Ød1<br>mm | s<br>mm                       | axial     | lateral   | angular                         | axial      | lateral    |                   |                    | angular       |
|      |                 |                |           |                        |           |                               | 2δN<br>mm | 2ΔN<br>mm | 2αN<br>%/deg.                   | Cδ<br>N/mm | CΔ<br>N/mm |                   |                    | Cα<br>Nm/deg. |
| 50   | 155             | 69             | 28        | 90                     | 16        | 23                            | 14        | 44        | 94                              | 50         | 0,8        | 3,3               | 212-2,5-023-0050   |               |
| 50   | 220             | 69             | 28        | 90                     | 16        | 38                            | 39        | 50        | 58                              | 12         | 0,5        | 3,4               | 212-2,5-038-0050   |               |
| 65   | 145             | 87             | 46        | 107                    | 16        | 27                            | 12        | 40        | 83                              | 92         | 1,1        | 4,1               | 212-2,5-027-0065   |               |
| 65   | 200             | 87             | 46        | 107                    | 16        | 43                            | 30        | 50        | 52                              | 24         | 0,7        | 4,3               | 212-2,5-043-0065   |               |
| 65   | 250             | 87             | 46        | 107                    | 16        | 57                            | 53        | 50        | 40                              | 11         | 0,6        | 4,4               | 212-2,5-057-0065   |               |
| 80   | 150             | 114            | 79        | 122                    | 18        | 26                            | 6         | 29        | 83                              | 328        | 1,9        | 6,4               | 212-2,5-026-0080   |               |
| 80   | 195             | 114            | 79        | 122                    | 18        | 43                            | 17        | 49        | 50                              | 71         | 1,1        | 6,6               | 212-2,5-043-0080   |               |
| 80   | 250             | 114            | 79        | 122                    | 18        | 65                            | 39        | 50        | 33                              | 22         | 0,8        | 6,7               | 212-2,5-065-0080   |               |
| 100  | 155             | 145            | 131       | 147                    | 18        | 37                            | 7         | 32        | 51                              | 431        | 1,9        | 7,2               | 212-2,5-037-0100   |               |
| 100  | 190             | 144            | 130       | 147                    | 18        | 53                            | 15        | 47        | 38                              | 129        | 1,4        | 7,4               | 212-2,5-053-0100   |               |
| 100  | 265             | 144            | 129       | 147                    | 18        | 92                            | 46        | 50        | 35                              | 39         | 1,3        | 8,4               | 212-2,5-092-0100   |               |
| 125  | 160             | 171            | 188       | 178                    | 20        | 38                            | 6         | 28        | 60                              | 730        | 3,1        | 9,5               | 212-2,5-038-0125   |               |
| 125  | 215             | 171            | 187       | 178                    | 20        | 65                            | 18        | 48        | 54                              | 190        | 2,8        | 10,5              | 212-2,5-065-0125   |               |
| 125  | 305             | 172            | 186       | 178                    | 20        | 97                            | 50        | 50        | 61                              | 59         | 3,1        | 12,2              | 212-2,5-097-0125   |               |
| 150  | 180             | 204            | 271       | 202                    | 20        | 41                            | 5         | 25        | 66                              | 820        | 5,0        | 10,5              | 212-2,5-041-0150   |               |
| 150  | 250             | 204            | 271       | 202                    | 20        | 83                            | 24        | 50        | 33                              | 111        | 2,5        | 11,1              | 212-2,5-083-0150   |               |
| 150  | 400             | 203            | 266       | 202                    | 20        | 123                           | 73        | 50        | 62                              | 43         | 4,6        | 14,5              | 212-2,5-123-0150   |               |
| 200  | 185             | 257            | 442       | 258                    | 22        | 57                            | 7         | 27        | 52                              | 824        | 6,3        | 15,4              | 212-2,5-057-0200   |               |
| 200  | 260             | 256            | 440       | 258                    | 22        | 100                           | 25        | 48        | 31                              | 140        | 3,7        | 16,2              | 212-2,5-100-0200   |               |
| 200  | 310             | 259            | 444       | 258                    | 22        | 114                           | 37        | 50        | 42                              | 109        | 5,2        | 17,6              | 212-2,5-114-0200   |               |
| 250  | 190             | 309            | 663       | 312                    | 24        | 50                            | 5         | 19        | 77                              | 1710       | 15,0       | 19,8              | 212-2,5-050-0250   |               |
| 250  | 310             | 314            | 673       | 312                    | 24        | 109                           | 28        | 42        | 51                              | 204        | 9,5        | 22,5              | 212-2,5-109-0250   |               |
| 250  | 405             | 313            | 667       | 312                    | 24        | 149                           | 56        | 50        | 60                              | 114        | 12,0       | 28,0              | 212-2,5-149-0250   |               |
| 300  | 205             | 365            | 927       | 365                    | 24        | 63                            | 6         | 21        | 91                              | 2960       | 24,0       | 27,4              | 212-2,5-063-0300   |               |
| 300  | 255             | 370            | 943       | 365                    | 24        | 118                           | 18        | 39        | 27                              | 383        | 6,9        | 27,4              | 212-2,5-118-0300   |               |
| 300  | 420             | 365            | 923       | 365                    | 24        | 159                           | 53        | 50        | 62                              | 147        | 16,0       | 35,9              | 212-2,5-159-0300   |               |
| 350  | 175             | 404            | 1132      | 410                    | 26        | 54                            | 3         | 16        | 50                              | 3630       | 16,0       | 36,3              | 212-2,5-054-0350   |               |
| 350  | 250             | 402            | 1126      | 410                    | 26        | 117                           | 16        | 35        | 29                              | 494        | 8,9        | 37,7              | 212-2,5-117-0350   |               |
| 350  | 405             | 400            | 1113      | 410                    | 26        | 167                           | 48        | 50        | 58                              | 194        | 18,0       | 46,9              | 212-2,5-167-0350   |               |
| 400  | 230             | 461            | 1478      | 465                    | 28        | 78                            | 7         | 20        | 77                              | 2710       | 32,0       | 44,7              | 212-2,5-078-0400   |               |
| 400  | 305             | 461            | 1478      | 465                    | 28        | 130                           | 20        | 34        | 46                              | 569        | 19,0       | 46,7              | 212-2,5-130-0400   |               |
| 400  | 410             | 457            | 1459      | 465                    | 28        | 183                           | 45        | 48        | 58                              | 281        | 24,0       | 54,9              | 212-2,5-183-0400   |               |
| 450  | 235             | 511            | 1842      | 520                    | 30        | 74                            | 6         | 17        | 90                              | 3720       | 46,0       | 54,7              | 212-2,5-074-0450   |               |
| 450  | 305             | 511            | 1842      | 520                    | 30        | 124                           | 17        | 29        | 54                              | 853        | 28,0       | 57,0              | 212-2,5-124-0450   |               |
| 450  | 415             | 510            | 1832      | 520                    | 30        | 191                           | 42        | 45        | 57                              | 351        | 29,0       | 66,2              | 212-2,5-191-0450   |               |
| 500  | 255             | 566            | 2263      | 570                    | 30        | 82                            | 6         | 17        | 94                              | 4230       | 59,0       | 59,1              | 212-2,5-082-0500   |               |
| 500  | 355             | 564            | 2254      | 570                    | 30        | 140                           | 20        | 29        | 58                              | 755        | 36,0       | 61,6              | 212-2,5-140-0500   |               |
| 500  | 465             | 564            | 2248      | 570                    | 30        | 211                           | 46        | 45        | 61                              | 356        | 38,0       | 71,7              | 212-2,5-211-0500   |               |
| 600  | 295             | 679            | 3257      | 670                    | 32        | 75                            | 5         | 13        | 167                             | 9780       | 151,0      | 79,0              | 212-2,5-075-0600   |               |
| 600  | 385             | 679            | 3257      | 670                    | 32        | 132                           | 15        | 23        | 96                              | 1920       | 87,0       | 82,8              | 212-2,5-132-0600   |               |
| 600  | 505             | 679            | 3257      | 670                    | 32        | 207                           | 38        | 36        | 61                              | 493        | 55,0       | 88,6              | 212-2,5-207-0600   |               |
| 700  | 255             | 777            | 4335      | 775                    | 24        | 73                            | 4         | 11        | 195                             | 16300      | 234,0      | 73,3              | 212-2,5-073-0700   |               |
| 700  | 345             | 778            | 4341      | 775                    | 24        | 131                           | 13        | 20        | 107                             | 2970       | 129,0      | 77,7              | 212-2,5-131-0700   |               |
| 700  | 485             | 781            | 4358      | 775                    | 24        | 220                           | 35        | 33        | 60                              | 695        | 73,0       | 84,4              | 212-2,5-220-0700   |               |
| 800  | 250             | 886            | 5654      | 880                    | 37        | 62                            | 2         | 8         | 219                             | 46600      | 344,0      | 132,0             | 212-2,5-062-0800   |               |
| 800  | 340             | 886            | 5654      | 880                    | 37        | 124                           | 9         | 16        | 110                             | 5680       | 172,0      | 137,0             | 212-2,5-124-0800   |               |
| 800  | 490             | 884            | 5640      | 880                    | 37        | 219                           | 31        | 29        | 65                              | 967        | 101,0      | 144,0             | 212-2,5-219-0800   |               |
| 900  | 270             | 990            | 7110      | 980                    | 37        | 63                            | 2         | 7         | 225                             | 61200      | 444,0      | 146,0             | 212-2,5-063-0900   |               |
| 900  | 360             | 990            | 7110      | 980                    | 37        | 126                           | 8         | 15        | 113                             | 7450       | 222,0      | 151,0             | 212-2,5-126-0900   |               |
| 900  | 480             | 990            | 7110      | 980                    | 37        | 211                           | 24        | 25        | 68                              | 1600       | 133,0      | 160,0             | 212-2,5-211-0900   |               |
| 1000 | 280             | 1096           | 8749      | 1080                   | 42        | 66                            | 2         | 7         | 214                             | 74800      | 519,0      | 177,0             | 212-2,5-066-1000   |               |
| 1000 | 340             | 1098           | 8765      | 1080                   | 42        | 115                           | 5         | 12        | 120                             | 14800      | 291,0      | 183,0             | 212-2,5-115-1000   |               |
| 1000 | 490             | 1093           | 8724      | 1080                   | 42        | 211                           | 22        | 22        | 72                              | 2080       | 173,0      | 193,0             | 212-2,5-211-1000   |               |

# Typ 212 Abmessungen

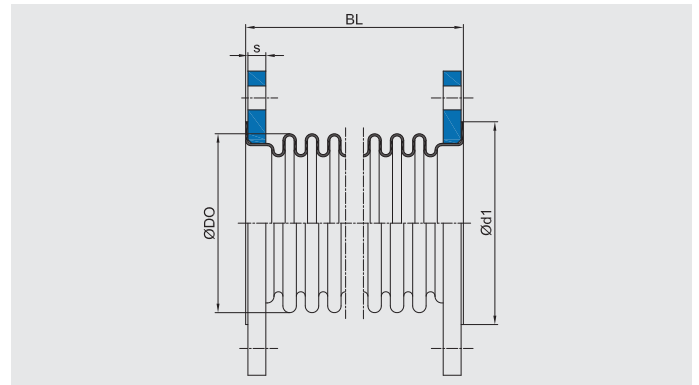
## Ausführung 1

# Type 212 Specifications

## Model 1

Druckstufe 2,5 barg (PN 2,5)

Design pressure 2.5 barg (PN 2.5)



| DN       | Länge<br>Length | Balg<br>Bellow |           | Flansch<br>Flanges |    | Bewegungsaufnahme<br>Movement |           |               | Verstellkraftrate<br>Springrate |            |               | Gewicht<br>Weight | Artikel<br>Article |
|----------|-----------------|----------------|-----------|--------------------|----|-------------------------------|-----------|---------------|---------------------------------|------------|---------------|-------------------|--------------------|
|          |                 |                |           |                    |    | axial                         | lateral   | angular       | axial                           | lateral    | angular       |                   |                    |
|          |                 |                |           |                    |    | 2δN<br>mm                     | 2ΔN<br>mm | 2αN<br>%/deg. | Cδ<br>N/mm                      | CΔ<br>N/mm | Cα<br>Nm/deg. |                   |                    |
| BL<br>mm | ØDO<br>mm       | WF*<br>cm²     | Ød1<br>mm | s<br>mm            |    |                               |           |               |                                 |            |               |                   |                    |
| 1100     | 245             | 1180           | 10540     | 1180               | 20 | 84                            | 3         | 8             | 187                             | 42900      | 547,0         | 96,0              | 212-2,5-084-1100   |
| 1100     | 335             | 1180           | 10503     | 1180               | 20 | 137                           | 9         | 13            | 124                             | 8720       | 360,0         | 103,0             | 212-2,5-137-1100   |
| 1100     | 455             | 1180           | 10531     | 1180               | 20 | 228                           | 23        | 22            | 71                              | 2030       | 206,0         | 114,0             | 212-2,5-228-1100   |
| 1200     | 210             | 1280           | 11794     | 1280               | 42 | 80                            | 2         | 7             | 212                             | 49800      | 693,0         | 205,0             | 212-2,5-080-1200   |
| 1200     | 300             | 1280           | 11813     | 1280               | 42 | 136                           | 8         | 12            | 131                             | 10100      | 427,0         | 213,0             | 212-2,5-136-1200   |
| 1200     | 450             | 1280           | 11765     | 1280               | 42 | 211                           | 22        | 19            | 92                              | 2260       | 301,0         | 224,0             | 212-2,5-211-1200   |
| 1300     | 165             | 1366           | 13818     | 1366               | 20 | 62                            | 1         | 5             | 283                             | 141800     | 1090,0        | 108,0             | 212-2,5-062-1300   |
| 1300     | 225             | 1366           | 13818     | 1366               | 20 | 96                            | 3         | 8             | 197                             | 33700      | 753,0         | 112,0             | 212-2,5-096-1300   |
| 1300     | 345             | 1366           | 13797     | 1366               | 20 | 180                           | 13        | 15            | 102                             | 5500       | 388,0         | 125,0             | 212-2,5-180-1300   |
| 1400     | 225             | 1466           | 15980     | 1466               | 42 | 62                            | 1         | 4             | 304                             | 167000     | 1350,0        | 233,0             | 212-2,5-062-1400   |
| 1400     | 240             | 1466           | 15980     | 1466               | 42 | 96                            | 3         | 7             | 211                             | 42900      | 934,0         | 237,0             | 212-2,5-096-1400   |
| 1400     | 360             | 1466           | 15958     | 1466               | 42 | 179                           | 12        | 14            | 109                             | 6810       | 481,0         | 251,0             | 212-2,5-179-1400   |
| 1500     | 165             | 1566           | 18287     | 1566               | 20 | 60                            | 1         | 4             | 336                             | 218500     | 1710,0        | 124,0             | 212-2,5-060-1500   |
| 1500     | 225             | 1566           | 18299     | 1566               | 20 | 95                            | 3         | 7             | 225                             | 50900      | 1150,0        | 129,0             | 212-2,5-095-1500   |
| 1500     | 345             | 1566           | 18275     | 1566               | 20 | 178                           | 11        | 13            | 116                             | 8310       | 589,0         | 143,0             | 212-2,5-178-1500   |
| 1600     | 190             | 1666           | 20750     | 1666               | 47 | 59                            | 1         | 4             | 370                             | 283900     | 2140,0        | 324,0             | 212-2,5-059-1600   |
| 1600     | 250             | 1666           | 20776     | 1666               | 47 | 95                            | 3         | 6             | 239                             | 63000      | 1380,0        | 330,0             | 212-2,5-095-1600   |
| 1600     | 370             | 1666           | 20750     | 1666               | 47 | 178                           | 10        | 12            | 124                             | 10100      | 711,0         | 344,0             | 212-2,5-178-1600   |
| 1700     | 165             | 1766           | 23368     | 1766               | 20 | 58                            | 1         | 3             | 407                             | 329900     | 2640,0        | 140,0             | 212-2,5-058-1700   |
| 1700     | 225             | 1766           | 23409     | 1766               | 20 | 94                            | 3         | 6             | 254                             | 73000      | 1650,0        | 145,0             | 212-2,5-094-1700   |
| 1700     | 345             | 1766           | 23368     | 1766               | 20 | 174                           | 10        | 11            | 136                             | 12300      | 879,0         | 161,0             | 212-2,5-174-1700   |
| 1800     | 200             | 1866           | 26142     | 1866               | 52 | 56                            | 1         | 3             | 445                             | 416400     | 3240,0        | 399,0             | 212-2,5-056-1800   |
| 1800     | 260             | 1866           | 26199     | 1866               | 52 | 94                            | 2         | 5             | 268                             | 88400      | 1950,0        | 406,0             | 212-2,5-094-1800   |
| 1800     | 380             | 1866           | 26142     | 1866               | 52 | 170                           | 9         | 10            | 149                             | 15000      | 1080,0        | 422,0             | 212-2,5-170-1800   |
| 1900     | 165             | 1966           | 29117     | 1966               | 20 | 54                            | 0         | 3             | 506                             | 490600     | 4090,0        | 152,0             | 212-2,5-054-1900   |
| 1900     | 225             | 1966           | 29132     | 1966               | 20 | 92                            | 2         | 5             | 293                             | 103400     | 2370,0        | 161,0             | 212-2,5-092-1900   |
| 1900     | 345             | 1966           | 29132     | 1966               | 20 | 166                           | 8         | 9             | 163                             | 17800      | 1320,0        | 179,0             | 212-2,5-166-1900   |
| 2000     | 200             | 2066           | 32204     | 2066               | 52 | 53                            | 0         | 3             | 552                             | 612700     | 4940,0        | 441,0             | 212-2,5-053-2000   |
| 2000     | 260             | 2066           | 32204     | 2066               | 52 | 88                            | 2         | 4             | 331                             | 129300     | 2970,0        | 447,0             | 212-2,5-088-2000   |
| 2000     | 380             | 2066           | 32204     | 2066               | 52 | 159                           | 7         | 9             | 184                             | 22200      | 1650,0        | 466,0             | 212-2,5-159-2000   |
| 2100     | 170             | 2166           | 35449     | 2166               | 20 | 65                            | 1         | 3             | 467                             | 553100     | 4590,0        | 172,0             | 212-2,5-065-2100   |
| 2100     | 230             | 2166           | 35466     | 2166               | 20 | 111                           | 2         | 5             | 269                             | 119600     | 2650,0        | 184,0             | 212-2,5-111-2100   |
| 2100     | 350             | 2166           | 35483     | 2166               | 20 | 205                           | 9         | 11            | 144                             | 20700      | 1420,0        | 208,0             | 212-2,5-205-2100   |
| 2200     | 215             | 2266           | 38865     | 2266               | 57 | 65                            | 0         | 3             | 487                             | 633600     | 5260,0        | 575,0             | 212-2,5-065-2200   |
| 2200     | 275             | 2266           | 38865     | 2266               | 57 | 109                           | 2         | 5             | 293                             | 143800     | 3160,0        | 586,0             | 212-2,5-109-2200   |
| 2200     | 395             | 2266           | 38865     | 2266               | 57 | 197                           | 8         | 10            | 163                             | 25300      | 1760,0        | 609,0             | 212-2,5-197-2200   |

\*WF = wirksame Fläche / effective area

Weitere Abmessungen und Werkstoffe auf Anfrage. /  
Other dimensions and materials on request.





# Typ 212 Abmessungen

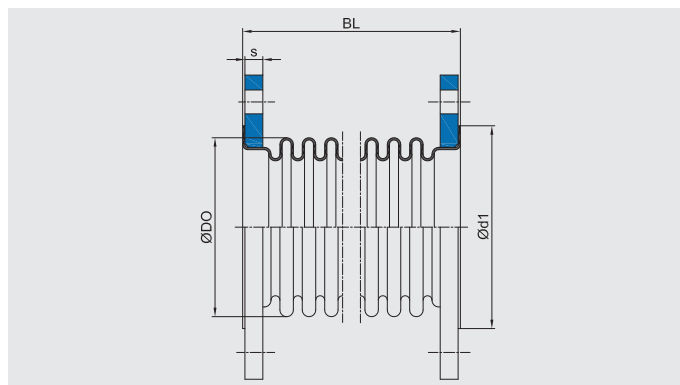
## Ausführung 1

# Type 212 Specifications

## Model 1

Druckstufe 6 barg (PN 6)

Design pressure 6 barg (PN 6)



| DN   | Länge<br>Length |           | Balg<br>Bellow         |           | Flansch<br>Flange |           | Bewegungsaufnahme<br>Movement |               |            | Verstellkraftrate<br>Springrate |               |       | Gewicht<br>Weight<br>kg | Artikel<br>Article |
|------|-----------------|-----------|------------------------|-----------|-------------------|-----------|-------------------------------|---------------|------------|---------------------------------|---------------|-------|-------------------------|--------------------|
|      | BL<br>mm        | ØDO<br>mm | WF*<br>cm <sup>2</sup> | Ød1<br>mm | s<br>mm           | axial     | lateral                       | angular       | axial      | lateral                         | angular       |       |                         |                    |
|      |                 |           |                        |           |                   | 25N<br>mm | 2λN<br>mm                     | 2αN<br>%/deg. | Cδ<br>N/mm | Cλ<br>N/mm                      | Cα<br>Nm/deg. |       |                         |                    |
| 50   | 155             | 69        | 28                     | 90        | 16                | 23        | 14                            | 44            | 94         | 50                              | 0,8           | 3,3   | 212-06-023-0050         |                    |
| 50   | 255             | 69        | 28                     | 90        | 16                | 40        | 48                            | 50            | 84         | 12                              | 0,7           | 3,8   | 212-06-040-0050         |                    |
| 65   | 145             | 87        | 46                     | 107       | 16                | 26        | 11                            | 38            | 83         | 91                              | 1,1           | 4,1   | 212-06-026-0065         |                    |
| 65   | 210             | 87        | 46                     | 107       | 16                | 43        | 32                            | 50            | 82         | 33                              | 1,1           | 4,5   | 212-06-043-0065         |                    |
| 80   | 150             | 114       | 79                     | 122       | 18                | 25        | 6                             | 28            | 83         | 325                             | 1,9           | 6,4   | 212-06-025-0080         |                    |
| 80   | 195             | 114       | 79                     | 122       | 18                | 42        | 17                            | 47            | 50         | 71                              | 1,1           | 6,6   | 212-06-042-0080         |                    |
| 80   | 260             | 114       | 77                     | 122       | 18                | 59        | 37                            | 50            | 78         | 46                              | 1,7           | 7,5   | 212-06-059-0080         |                    |
| 100  | 155             | 145       | 131                    | 147       | 18                | 35        | 6                             | 31            | 51         | 422                             | 1,9           | 7,2   | 212-06-035-0100         |                    |
| 100  | 200             | 144       | 129                    | 147       | 18                | 53        | 15                            | 47            | 58         | 164                             | 2,1           | 7,8   | 212-06-053-0100         |                    |
| 100  | 280             | 145       | 127                    | 147       | 18                | 76        | 42                            | 50            | 92         | 75                              | 3,3           | 9,8   | 212-06-076-0100         |                    |
| 125  | 160             | 171       | 188                    | 178       | 20                | 35        | 5                             | 25            | 60         | 706                             | 3,1           | 9,5   | 212-06-035-0125         |                    |
| 125  | 215             | 171       | 187                    | 178       | 20                | 62        | 17                            | 46            | 54         | 187                             | 2,8           | 10,5  | 212-06-062-0125         |                    |
| 125  | 310             | 170       | 182                    | 178       | 20                | 82        | 43                            | 50            | 104        | 92                              | 5,3           | 13,4  | 212-06-082-0125         |                    |
| 150  | 180             | 204       | 271                    | 202       | 20                | 38        | 5                             | 23            | 66         | 798                             | 5,0           | 10,5  | 212-06-038-0150         |                    |
| 150  | 255             | 204       | 267                    | 202       | 20                | 65        | 20                            | 40            | 107        | 278                             | 8,0           | 12,6  | 212-06-065-0150         |                    |
| 150  | 364             | 204       | 262                    | 202       | 20                | 103       | 53                            | 50            | 126        | 115                             | 9,2           | 16,7  | 212-06-103-0150         |                    |
| 200  | 185             | 257       | 442                    | 258       | 22                | 51        | 6                             | 24            | 52         | 784                             | 6,3           | 15,4  | 212-06-051-0200         |                    |
| 200  | 275             | 259       | 441                    | 258       | 22                | 88        | 23                            | 42            | 80         | 298                             | 9,8           | 18,6  | 212-06-088-0200         |                    |
| 200  | 330             | 259       | 435                    | 258       | 22                | 110       | 38                            | 50            | 116        | 253                             | 14,0          | 23,1  | 212-06-110-0200         |                    |
| 250  | 190             | 309       | 663                    | 312       | 24                | 46        | 5                             | 18            | 77         | 1660                            | 15,0          | 19,8  | 212-06-046-0250         |                    |
| 250  | 280             | 314       | 670                    | 312       | 24                | 86        | 18                            | 33            | 97         | 529                             | 18,0          | 23,8  | 212-06-086-0250         |                    |
| 250  | 375             | 310       | 656                    | 312       | 24                | 111       | 37                            | 44            | 119        | 261                             | 22,0          | 28,6  | 212-06-111-0250         |                    |
| 300  | 205             | 365       | 927                    | 365       | 24                | 58        | 5                             | 19            | 91         | 2840                            | 24,0          | 27,4  | 212-06-058-0300         |                    |
| 300  | 240             | 364       | 924                    | 365       | 24                | 84        | 12                            | 28            | 66         | 880                             | 17,0          | 28,3  | 212-06-084-0300         |                    |
| 300  | 305             | 370       | 933                    | 365       | 24                | 115       | 24                            | 38            | 98         | 636                             | 26,0          | 34,9  | 212-06-115-0300         |                    |
| 350  | 200             | 396       | 1104                   | 410       | 26                | 55        | 4                             | 16            | 106        | 3630                            | 33,0          | 37,6  | 212-06-055-0350         |                    |
| 350  | 245             | 398       | 1110                   | 410       | 26                | 89        | 11                            | 27            | 62         | 1010                            | 19,0          | 39,6  | 212-06-089-0350         |                    |
| 350  | 340             | 400       | 1108                   | 410       | 26                | 123       | 27                            | 37            | 104        | 576                             | 32,0          | 47,8  | 212-06-123-0350         |                    |
| 400  | 250             | 453       | 1451                   | 465       | 28                | 65        | 7                             | 17            | 104        | 2200                            | 42,0          | 44,7  | 212-06-065-0400         |                    |
| 400  | 315             | 458       | 1462                   | 465       | 28                | 117       | 19                            | 31            | 82         | 862                             | 33,0          | 50,2  | 212-06-117-0400         |                    |
| 400  | 460             | 455       | 1441                   | 465       | 28                | 147       | 42                            | 39            | 151        | 472                             | 61,0          | 64,9  | 212-06-147-0400         |                    |
| 450  | 235             | 510       | 1836                   | 520       | 30                | 54        | 4                             | 12            | 179        | 6670                            | 91,0          | 56,2  | 212-06-054-0450         |                    |
| 450  | 290             | 514       | 1851                   | 520       | 30                | 90        | 11                            | 21            | 97         | 1720                            | 50,0          | 59,0  | 212-06-090-0450         |                    |
| 450  | 420             | 513       | 1830                   | 520       | 30                | 157       | 34                            | 37            | 130        | 737                             | 66,0          | 77,5  | 212-06-157-0450         |                    |
| 500  | 260             | 568       | 2273                   | 570       | 30                | 61        | 5                             | 13            | 174        | 6550                            | 110,0         | 60,7  | 212-06-061-0500         |                    |
| 500  | 360             | 567       | 2269                   | 570       | 30                | 108       | 16                            | 23            | 102        | 1150                            | 64,0          | 63,8  | 212-06-108-0500         |                    |
| 500  | 460             | 569       | 2259                   | 570       | 30                | 171       | 36                            | 36            | 139        | 814                             | 87,0          | 84,4  | 212-06-171-0500         |                    |
| 600  | 305             | 666       | 3191                   | 670       | 32                | 63        | 5                             | 11            | 242        | 7900                            | 214,0         | 79,0  | 212-06-063-0600         |                    |
| 600  | 375             | 681       | 3256                   | 670       | 32                | 131       | 16                            | 23            | 133        | 2420                            | 120,0         | 89,3  | 212-06-131-0600         |                    |
| 600  | 480             | 679       | 3235                   | 670       | 32                | 189       | 34                            | 33            | 136        | 1140                            | 123,0         | 108,0 | 212-06-189-0600         |                    |
| 700  | 325             | 762       | 4248                   | 775       | 40                | 57        | 4                             | 8             | 312        | 12600                           | 368,0         | 115,0 | 212-06-057-0700         |                    |
| 700  | 390             | 776       | 4316                   | 775       | 40                | 121       | 12                            | 18            | 175        | 4120                            | 209,0         | 127,0 | 212-06-121-0700         |                    |
| 700  | 530             | 775       | 4298                   | 775       | 40                | 195       | 33                            | 30            | 156        | 1390                            | 186,0         | 148,0 | 212-06-195-0700         |                    |
| 800  | 305             | 878       | 5586                   | 880       | 44                | 68        | 3                             | 9             | 339        | 31500                           | 526,0         | 160,0 | 212-06-068-0800         |                    |
| 800  | 400             | 878       | 5586                   | 880       | 44                | 119       | 11                            | 16            | 194        | 5760                            | 301,0         | 168,0 | 212-06-119-0800         |                    |
| 800  | 500             | 885       | 5618                   | 880       | 44                | 208       | 28                            | 28            | 137        | 2160                            | 214,0         | 192,0 | 212-06-212-0800         |                    |
| 900  | 310             | 979       | 7011                   | 980       | 48                | 65        | 3                             | 7             | 389        | 46300                           | 758,0         | 192,0 | 212-06-065-0900         |                    |
| 900  | 405             | 980       | 7019                   | 980       | 48                | 116       | 9                             | 14            | 214        | 8210                            | 416,0         | 200,0 | 212-06-116-0900         |                    |
| 900  | 510             | 986       | 7047                   | 980       | 48                | 199       | 24                            | 24            | 157        | 2990                            | 307,0         | 227,0 | 212-06-199-0900         |                    |
| 1000 | 320             | 1080      | 8599                   | 1080      | 52                | 62        | 2                             | 6             | 443        | 61000                           | 1060,0        | 223,0 | 212-06-062-1000         |                    |
| 1000 | 415             | 1080      | 8599                   | 1080      | 52                | 109       | 8                             | 11            | 253        | 11400                           | 605,0         | 233,0 | 212-06-109-1000         |                    |
| 1000 | 535             | 1092      | 8679                   | 1080      | 52                | 211       | 23                            | 23            | 148        | 3650                            | 355,0         | 263,0 | 212-06-211-1000         |                    |
| 1200 | 285             | 1248      | 11652                  | 1295      | 60                | 66        | 3                             | 6             | 528        | 61100                           | 1710,0        | 351,0 | 212-06-066-1200         |                    |
| 1200 | 380             | 1251      | 11681                  | 1295      | 60                | 114       | 8                             | 10            | 288        | 13300                           | 934,0         | 362,0 | 212-06-114-1200         |                    |
| 1200 | 480             | 1263      | 11781                  | 1295      | 60                | 214       | 22                            | 20            | 172        | 4490                            | 560,0         | 399,0 | 212-06-214-1200         |                    |

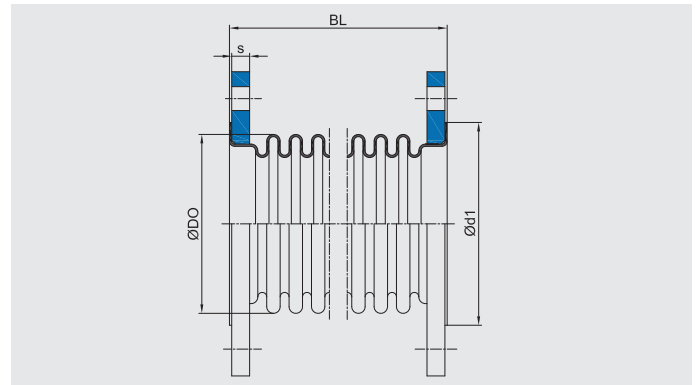
# Typ 212 Abmessungen

## Ausführung 1

# Type 212 Specifications

## Model 1

**Druckstufe 10 barg (PN 10)**  
**Design pressure 10 barg (PN 10)**



| DN  | Länge<br>Length |           | Balg<br>Bellow         |           | Flansch<br>Flange |           | Bewegungsaufnahme<br>Movement |               |            | Verstellkraftrate<br>Springrate |               |       | Gewicht<br>Weight<br>kg | Artikel<br>Article |
|-----|-----------------|-----------|------------------------|-----------|-------------------|-----------|-------------------------------|---------------|------------|---------------------------------|---------------|-------|-------------------------|--------------------|
|     | BL<br>mm        | ØDO<br>mm | WF*<br>cm <sup>2</sup> | Ød1<br>mm | s<br>mm           | axial     | lateral                       | angular       | axial      | lateral                         | angular       |       |                         |                    |
|     |                 |           |                        |           |                   | 2ΔN<br>mm | 2ΔN<br>mm                     | 2αN<br>%/deg. | Cδ<br>N/mm | CA<br>N/mm                      | Cα<br>Nm/deg. |       |                         |                    |
| 25  | 115             | 40        | 9                      | 68        | 16                | 12        | 9                             | 40            | 111        | 37                              | 0,3           | 2,4   | 212-10-012-0025         |                    |
| 32  | 110             | 50        | 14                     | 78        | 18                | 15        | 8                             | 41            | 86         | 55                              | 0,4           | 4,0   | 212-10-015-0032         |                    |
| 40  | 155             | 55        | 17                     | 88        | 18                | 19        | 16                            | 46            | 118        | 32                              | 0,6           | 4,5   | 212-10-019-0040         |                    |
| 50  | 145             | 69        | 28                     | 92        | 20                | 18        | 9                             | 34            | 115        | 90                              | 0,9           | 5,8   | 212-10-018-0050         |                    |
| 50  | 210             | 69        | 28                     | 92        | 20                | 31        | 28                            | 50            | 112        | 29                              | 0,9           | 6,2   | 212-10-031-0050         |                    |
| 65  | 150             | 87        | 46                     | 107       | 20                | 25        | 11                            | 37            | 83         | 97                              | 1,1           | 6,7   | 212-10-025-0065         |                    |
| 65  | 210             | 86        | 45                     | 107       | 20                | 35        | 24                            | 50            | 103        | 44                              | 1,3           | 7,1   | 212-10-035-0065         |                    |
| 80  | 155             | 114       | 79                     | 122       | 20                | 23        | 5                             | 26            | 83         | 319                             | 1,9           | 7,7   | 212-10-023-0080         |                    |
| 80  | 180             | 114       | 78                     | 122       | 20                | 33        | 11                            | 37            | 97         | 204                             | 2,2           | 8,0   | 212-10-033-0080         |                    |
| 80  | 265             | 113       | 77                     | 122       | 20                | 46        | 29                            | 50            | 129        | 71                              | 2,8           | 8,8   | 212-10-046-0080         |                    |
| 100 | 155             | 144       | 130                    | 147       | 22                | 30        | 5                             | 26            | 56         | 433                             | 2,1           | 9,5   | 212-10-030-0100         |                    |
| 100 | 195             | 141       | 126                    | 147       | 22                | 43        | 13                            | 39            | 78         | 220                             | 2,8           | 10,1  | 212-10-043-0100         |                    |
| 100 | 295             | 140       | 122                    | 147       | 22                | 57        | 32                            | 50            | 154        | 105                             | 5,2           | 12,1  | 212-10-057-0100         |                    |
| 125 | 155             | 170       | 187                    | 178       | 22                | 30        | 4                             | 22            | 66         | 725                             | 3,4           | 11,7  | 212-10-030-0125         |                    |
| 125 | 195             | 168       | 183                    | 178       | 22                | 45        | 11                            | 33            | 81         | 338                             | 4,1           | 12,3  | 212-10-045-0125         |                    |
| 125 | 280             | 169       | 181                    | 178       | 22                | 63        | 27                            | 47            | 139        | 169                             | 7,0           | 14,9  | 212-10-063-0125         |                    |
| 150 | 165             | 203       | 268                    | 208       | 24                | 28        | 3                             | 17            | 139        | 2490                            | 11,0          | 15,7  | 212-10-028-0150         |                    |
| 150 | 250             | 206       | 270                    | 208       | 24                | 61        | 17                            | 37            | 102        | 316                             | 7,6           | 17,4  | 212-10-061-0150         |                    |
| 150 | 345             | 198       | 256                    | 208       | 24                | 71        | 33                            | 45            | 180        | 184                             | 13,0          | 19,2  | 212-10-071-0150         |                    |
| 200 | 185             | 257       | 437                    | 258       | 24                | 35        | 4                             | 17            | 204        | 3460                            | 25,0          | 21,3  | 212-10-035-0200         |                    |
| 200 | 230             | 262       | 446                    | 258       | 24                | 67        | 13                            | 32            | 90         | 659                             | 12,0          | 22,5  | 212-10-067-0200         |                    |
| 200 | 300             | 259       | 435                    | 258       | 24                | 91        | 26                            | 44            | 137        | 415                             | 17,0          | 26,5  | 212-10-091-0200         |                    |
| 250 | 190             | 313       | 667                    | 320       | 26                | 35        | 3                             | 13            | 228        | 5670                            | 43,0          | 27,6  | 212-10-035-0250         |                    |
| 250 | 235             | 317       | 677                    | 320       | 26                | 65        | 10                            | 25            | 108        | 1200                            | 21,0          | 28,6  | 212-10-065-0250         |                    |
| 250 | 325             | 313       | 659                    | 320       | 26                | 95        | 24                            | 37            | 159        | 577                             | 30,0          | 35,3  | 212-10-095-0250         |                    |
| 300 | 185             | 368       | 932                    | 370       | 26                | 39        | 3                             | 12            | 201        | 8140                            | 52,0          | 32,0  | 212-10-039-0300         |                    |
| 300 | 275             | 370       | 933                    | 370       | 26                | 91        | 16                            | 30            | 118        | 1080                            | 31,0          | 36,7  | 212-10-091-0300         |                    |
| 300 | 350             | 373       | 930                    | 370       | 26                | 115       | 28                            | 38            | 177        | 770                             | 46,0          | 47,2  | 212-10-115-0300         |                    |
| 350 | 195             | 399       | 1110                   | 410       | 30                | 37        | 2                             | 11            | 233        | 11000                           | 72,0          | 49,0  | 212-10-037-0350         |                    |
| 350 | 250             | 407       | 1129                   | 410       | 30                | 82        | 10                            | 24            | 119        | 2230                            | 38,0          | 54,2  | 212-10-082-0350         |                    |
| 350 | 330             | 400       | 1103                   | 410       | 30                | 106       | 21                            | 32            | 151        | 990                             | 47,0          | 59,0  | 212-10-106-0350         |                    |
| 400 | 210             | 459       | 1459                   | 465       | 32                | 47        | 3                             | 12            | 256        | 16300                           | 104,0         | 63,0  | 212-10-047-0400         |                    |
| 400 | 330             | 459       | 1461                   | 465       | 32                | 93        | 15                            | 24            | 144        | 1320                            | 59,0          | 68,1  | 212-10-093-0400         |                    |
| 400 | 400             | 458       | 1443                   | 465       | 32                | 123       | 27                            | 32            | 211        | 1090                            | 85,0          | 80,1  | 212-10-123-0400         |                    |
| 450 | 260             | 508       | 1818                   | 520       | 36                | 66        | 6                             | 15            | 211        | 6820                            | 107,0         | 78,4  | 212-10-066-0450         |                    |
| 450 | 330             | 515       | 1838                   | 520       | 36                | 101       | 14                            | 23            | 182        | 2450                            | 93,0          | 86,8  | 212-10-101-0450         |                    |
| 450 | 465             | 515       | 1822                   | 520       | 36                | 143       | 34                            | 34            | 244        | 1100                            | 124,0         | 110,0 | 212-10-143-0450         |                    |
| 500 | 235             | 562       | 2236                   | 570       | 38                | 39        | 2                             | 8             | 435        | 38700                           | 270,0         | 90,5  | 212-10-039-0500         |                    |
| 500 | 320             | 568       | 2254                   | 570       | 38                | 96        | 10                            | 20            | 202        | 4620                            | 126,0         | 99,3  | 212-10-096-0500         |                    |
| 500 | 435             | 569       | 2249                   | 570       | 38                | 141       | 26                            | 30            | 210        | 1620                            | 131,0         | 112,0 | 212-10-141-0500         |                    |
| 600 | 265             | 660       | 3147                   | 670       | 37                | 42        | 2                             | 7             | 643        | 48600                           | 562,0         | 108,0 | 212-10-042-0600         |                    |
| 600 | 365             | 669       | 3183                   | 670       | 37                | 106       | 11                            | 19            | 253        | 5480                            | 224,0         | 119,0 | 212-10-106-0600         |                    |
| 600 | 550             | 678       | 3208                   | 670       | 37                | 175       | 37                            | 31            | 266        | 1500                            | 237,0         | 153,0 | 212-10-175-0600         |                    |
| 700 | 310             | 772       | 4280                   | 780       | 42                | 62        | 3                             | 9             | 488        | 29900                           | 580,0         | 160,0 | 212-10-062-0700         |                    |
| 700 | 405             | 772       | 4280                   | 780       | 42                | 109       | 12                            | 16            | 279        | 5770                            | 331,0         | 169,0 | 212-10-109-0700         |                    |
| 700 | 525             | 784       | 4327                   | 780       | 42                | 183       | 30                            | 28            | 246        | 2400                            | 296,0         | 205,0 | 212-10-183-0700         |                    |

\*WF = wirksame Fläche / effective area

Weitere Abmessungen und Werkstoffe auf Anfrage. /  
 Other dimensions and materials on request.

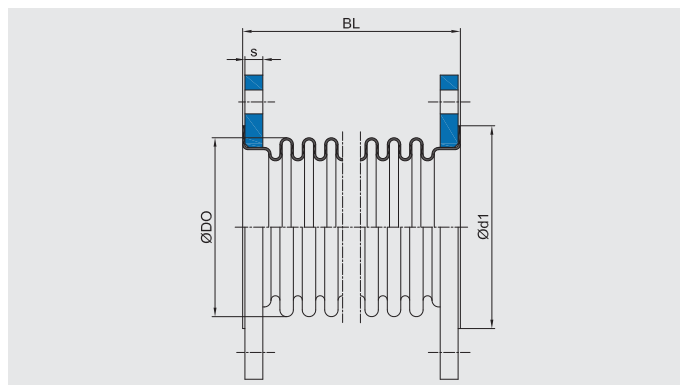
# Typ 212 Abmessungen

## Ausführung 1

# Type 212 Specifications

## Model 1

**Druckstufe 16 barg (PN 16)**  
**Design pressure 16 barg (PN 16)**



| DN  | Länge<br>Length | Balg<br>Bellow |           | Flansch<br>Flanges     |           | Bewegungsaufnahme<br>Movement |                    |                      | Verstellkraftrate<br>Springrate |                     |                       | Gewicht<br>Weight | Artikel<br>Article |
|-----|-----------------|----------------|-----------|------------------------|-----------|-------------------------------|--------------------|----------------------|---------------------------------|---------------------|-----------------------|-------------------|--------------------|
|     |                 | BL<br>mm       | ØDO<br>mm | WF*<br>cm <sup>2</sup> | Ød1<br>mm | s<br>mm                       | axial<br>2δN<br>mm | lateral<br>2ΔN<br>mm | angular<br>2αN<br>%/deg.        | axial<br>Cδ<br>N/mm | lateral<br>CΔ<br>N/mm |                   |                    |
| 25  | 115             | 40             | 9         | 68                     | 16        | 12                            | 9                  | 40                   | 111                             | 37                  | 0,3                   | 2,4               | 212-16-012-0025    |
| 32  | 110             | 50             | 14        | 78                     | 18        | 15                            | 8                  | 41                   | 86                              | 55                  | 0,4                   | 4,0               | 212-16-015-0032    |
| 40  | 165             | 55             | 17        | 88                     | 18        | 18                            | 16                 | 44                   | 195                             | 45                  | 1,0                   | 4,6               | 212-16-018-0040    |
| 50  | 145             | 69             | 28        | 92                     | 20        | 18                            | 9                  | 34                   | 115                             | 90                  | 0,9                   | 5,8               | 212-16-018-0050    |
| 50  | 220             | 68             | 27        | 92                     | 20        | 28                            | 27                 | 50                   | 194                             | 43                  | 1,5                   | 6,4               | 212-16-028-0050    |
| 65  | 145             | 86             | 45        | 107                    | 20        | 20                            | 8                  | 30                   | 109                             | 141                 | 1,4                   | 6,7               | 212-16-020-0065    |
| 65  | 215             | 87             | 45        | 107                    | 20        | 37                            | 27                 | 50                   | 178                             | 72                  | 2,3                   | 7,7               | 212-16-037-0065    |
| 80  | 155             | 113            | 79        | 122                    | 20        | 21                            | 5                  | 24                   | 93                              | 349                 | 2,1                   | 7,7               | 212-16-021-0080    |
| 80  | 235             | 112            | 75        | 122                    | 20        | 40                            | 21                 | 47                   | 170                             | 136                 | 3,6                   | 8,8               | 212-16-040-0080    |
| 100 | 160             | 143            | 128       | 147                    | 22        | 29                            | 5                  | 26                   | 95                              | 623                 | 3,4                   | 9,8               | 212-16-029-0100    |
| 100 | 210             | 141            | 123       | 147                    | 22        | 43                            | 14                 | 39                   | 139                             | 307                 | 4,8                   | 10,9              | 212-16-043-0100    |
| 125 | 150             | 170            | 186       | 178                    | 22        | 19                            | 2                  | 14                   | 175                             | 2180                | 9,0                   | 11,8              | 212-16-019-0125    |
| 125 | 190             | 173            | 187       | 178                    | 22        | 40                            | 9                  | 29                   | 124                             | 595                 | 6,5                   | 12,9              | 212-16-040-0125    |
| 125 | 225             | 172            | 184       | 178                    | 22        | 50                            | 15                 | 37                   | 146                             | 380                 | 7,5                   | 14,2              | 212-16-050-0125    |
| 150 | 170             | 205            | 269       | 208                    | 24        | 24                            | 3                  | 14                   | 247                             | 3670                | 19,0                  | 16,2              | 212-16-024-0150    |
| 150 | 200             | 208            | 273       | 208                    | 24        | 40                            | 7                  | 24                   | 131                             | 950                 | 9,9                   | 16,8              | 212-16-040-0150    |
| 150 | 265             | 206            | 265       | 208                    | 24        | 63                            | 19                 | 39                   | 178                             | 469                 | 14,0                  | 19,4              | 212-16-063-0150    |
| 200 | 180             | 261            | 442       | 258                    | 26        | 32                            | 3                  | 15                   | 258                             | 6260                | 32,0                  | 21,7              | 212-16-032-0200    |
| 200 | 245             | 259            | 438       | 258                    | 26        | 60                            | 12                 | 29                   | 149                             | 907                 | 18,0                  | 23,4              | 212-16-060-0200    |
| 200 | 340             | 257            | 427       | 258                    | 26        | 75                            | 25                 | 36                   | 266                             | 521                 | 32,0                  | 29,7              | 212-16-075-0200    |
| 250 | 220             | 309            | 658       | 320                    | 29        | 34                            | 4                  | 13                   | 257                             | 4410                | 47,0                  | 30,4              | 212-16-034-0250    |
| 250 | 260             | 314            | 666       | 320                    | 29        | 59                            | 9                  | 23                   | 177                             | 1640                | 33,0                  | 33,1              | 212-16-059-0250    |
| 250 | 360             | 312            | 652       | 320                    | 29        | 80                            | 24                 | 31                   | 292                             | 782                 | 53,0                  | 41,0              | 212-16-080-0250    |
| 300 | 200             | 365            | 919       | 375                    | 32        | 28                            | 1                  | 9                    | 409                             | 20600               | 105,0                 | 40,6              | 212-16-028-0300    |
| 300 | 255             | 370            | 928       | 375                    | 32        | 63                            | 8                  | 21                   | 210                             | 3560                | 54,0                  | 44,9              | 212-16-063-0300    |
| 300 | 345             | 369            | 920       | 375                    | 32        | 89                            | 20                 | 29                   | 244                             | 1150                | 63,0                  | 55,0              | 212-16-089-0300    |
| 350 | 215             | 396            | 1096      | 410                    | 35        | 34                            | 2                  | 10                   | 380                             | 13900               | 116,0                 | 59,0              | 212-16-034-0350    |
| 350 | 250             | 401            | 1106      | 410                    | 35        | 60                            | 7                  | 18                   | 242                             | 4910                | 75,0                  | 63,8              | 212-16-060-0350    |
| 350 | 350             | 402            | 1103      | 410                    | 35        | 90                            | 19                 | 27                   | 249                             | 1440                | 77,0                  | 74,9              | 212-16-090-0350    |
| 400 | 250             | 458            | 1451      | 465                    | 38        | 45                            | 4                  | 12                   | 405                             | 13000               | 163,0                 | 80,2              | 212-16-045-0400    |
| 400 | 315             | 457            | 1447      | 465                    | 38        | 71                            | 10                 | 18                   | 268                             | 3310                | 108,0                 | 82,7              | 212-16-071-0400    |
| 400 | 345             | 462            | 1457      | 465                    | 38        | 97                            | 16                 | 25                   | 227                             | 2170                | 92,0                  | 89,5              | 212-16-097-0400    |
| 450 | 260             | 507            | 1808      | 520                    | 42        | 42                            | 3                  | 10                   | 501                             | 19500               | 252,0                 | 102,0             | 212-16-042-0450    |
| 450 | 320             | 507            | 1808      | 520                    | 42        | 68                            | 8                  | 16                   | 314                             | 4970                | 158,0                 | 105,0             | 212-16-068-0450    |
| 450 | 355             | 513            | 1822      | 520                    | 42        | 95                            | 14                 | 22                   | 251                             | 2920                | 127,0                 | 113,0             | 212-16-095-0450    |
| 500 | 310             | 559            | 2217      | 570                    | 46        | 49                            | 4                  | 10                   | 559                             | 15800               | 344,0                 | 138,0             | 212-16-049-0500    |
| 500 | 365             | 559            | 2217      | 570                    | 46        | 68                            | 8                  | 14                   | 400                             | 5640                | 246,0                 | 142,0             | 212-16-068-0500    |
| 500 | 400             | 568            | 2245      | 570                    | 46        | 103                           | 15                 | 22                   | 276                             | 3070                | 172,0                 | 150,0             | 212-16-103-0500    |

\*WF = wirksame Fläche / effective area

Weitere Abmessungen und Werkstoffe auf Anfrage. /  
 Other dimensions and materials on request.



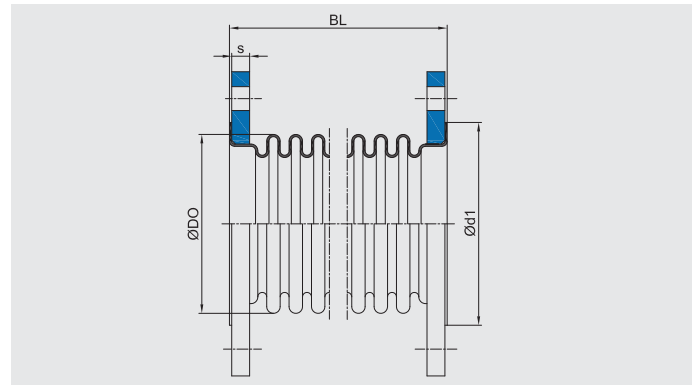
## Typ 212 Abmessungen

### Ausführung 1

## Type 212 Specifications

### Model 1

Druckstufe 25 barg (PN 25)  
Design pressure 25 barg (PN 25)



| DN  | Länge<br>Length |           | Balg<br>Bellows        |           | Flansch<br>Flanges |           | Bewegungsaufnahme<br>Movement |               |            | Verstellkraft<br>Springrate |               |       | Gewicht<br>Weight<br>kg | Artikel<br>Article |
|-----|-----------------|-----------|------------------------|-----------|--------------------|-----------|-------------------------------|---------------|------------|-----------------------------|---------------|-------|-------------------------|--------------------|
|     | BL<br>mm        | ØDO<br>mm | WF*<br>cm <sup>2</sup> | Ød1<br>mm | s<br>mm            | axial     | lateral                       | angular       | axial      | lateral                     | angular       |       |                         |                    |
|     |                 |           |                        |           |                    | 2δN<br>mm | 2ΔN<br>mm                     | 2αN<br>%/deg. | Cδ<br>N/mm | CΔ<br>N/mm                  | Cα<br>Nm/deg. |       |                         |                    |
| 50  | 135             | 69        | 28                     | 92        | 20                 | 15        | 6                             | 28            | 130        | 127                         | 1,0           | 5,2   | 212-25-015-0050         |                    |
| 50  | 190             | 68        | 27                     | 92        | 20                 | 22        | 17                            | 43            | 242        | 80                          | 1,9           | 5,6   | 212-25-022-0050         |                    |
| 65  | 140             | 85        | 44                     | 107       | 22                 | 16        | 6                             | 24            | 147        | 217                         | 1,8           | 6,7   | 212-25-016-0065         |                    |
| 65  | 235             | 84        | 42                     | 107       | 22                 | 29        | 24                            | 45            | 295        | 89                          | 3,5           | 7,7   | 212-25-029-0065         |                    |
| 80  | 165             | 113       | 78                     | 122       | 24                 | 20        | 5                             | 23            | 146        | 515                         | 3,2           | 8,7   | 212-25-020-0080         |                    |
| 80  | 215             | 112       | 75                     | 122       | 24                 | 31        | 13                            | 36            | 208        | 253                         | 4,4           | 9,6   | 212-25-031-0080         |                    |
| 100 | 165             | 142       | 126                    | 147       | 26                 | 23        | 4                             | 20            | 173        | 1240                        | 6,0           | 12,5  | 212-25-023-0100         |                    |
| 100 | 220             | 138       | 120                    | 147       | 26                 | 36        | 12                            | 33            | 198        | 388                         | 6,6           | 13,3  | 212-25-036-0100         |                    |
| 125 | 190             | 170       | 184                    | 178       | 28                 | 28        | 5                             | 21            | 187        | 1070                        | 9,5           | 17,3  | 212-25-028-0125         |                    |
| 125 | 235             | 171       | 181                    | 178       | 28                 | 43        | 12                            | 32            | 226        | 600                         | 12,0          | 19,4  | 212-25-043-0125         |                    |
| 150 | 195             | 206       | 268                    | 208       | 30                 | 25        | 3                             | 15            | 310        | 4530                        | 24,0          | 21,9  | 212-25-025-0150         |                    |
| 150 | 265             | 203       | 261                    | 208       | 30                 | 47        | 13                            | 29            | 257        | 743                         | 19,0          | 24,3  | 212-25-047-0150         |                    |
| 200 | 195             | 257       | 431                    | 258       | 32                 | 27        | 2                             | 13            | 436        | 9430                        | 53,0          | 31,3  | 212-25-027-0200         |                    |
| 200 | 250             | 259       | 435                    | 258       | 32                 | 51        | 9                             | 24            | 215        | 1460                        | 26,0          | 33,6  | 212-25-051-0200         |                    |
| 200 | 315             | 257       | 427                    | 258       | 32                 | 60        | 17                            | 29            | 319        | 892                         | 38,0          | 36,9  | 212-25-060-0200         |                    |
| 250 | 205             | 309       | 650                    | 320       | 35                 | 24        | 2                             | 9             | 645        | 17600                       | 117,0         | 43,8  | 212-25-024-0250         |                    |
| 250 | 255             | 311       | 655                    | 320       | 35                 | 46        | 7                             | 18            | 316        | 3230                        | 58,0          | 46,6  | 212-25-046-0250         |                    |
| 250 | 330             | 314       | 657                    | 320       | 35                 | 63        | 14                            | 24            | 329        | 1450                        | 60,0          | 50,7  | 212-25-063-0250         |                    |
| 300 | 225             | 360       | 901                    | 375       | 38                 | 30        | 2                             | 10            | 590        | 16400                       | 148,0         | 57,9  | 212-25-030-0300         |                    |
| 300 | 280             | 360       | 901                    | 375       | 38                 | 48        | 7                             | 16            | 369        | 3790                        | 93,0          | 59,9  | 212-25-048-0300         |                    |
| 300 | 305             | 370       | 922                    | 375       | 38                 | 65        | 11                            | 21            | 305        | 2500                        | 79,0          | 64,9  | 212-25-065-0300         |                    |
| 350 | 235             | 391       | 1076                   | 410       | 42                 | 28        | 2                             | 8             | 691        | 21000                       | 207,0         | 87,9  | 212-25-028-0350         |                    |
| 350 | 285             | 391       | 1076                   | 410       | 42                 | 45        | 6                             | 13            | 432        | 5480                        | 129,0         | 90,1  | 212-25-045-0350         |                    |
| 350 | 315             | 401       | 1100                   | 410       | 42                 | 62        | 9                             | 18            | 353        | 3320                        | 108,0         | 95,5  | 212-25-062-0350         |                    |
| 400 | 260             | 450       | 1416                   | 465       | 48                 | 28        | 2                             | 7             | 1020       | 39700                       | 401,0         | 123,0 | 212-25-028-0400         |                    |
| 400 | 300             | 452       | 1423                   | 465       | 48                 | 46        | 5                             | 12            | 599        | 11500                       | 237,0         | 126,0 | 212-25-046-0400         |                    |
| 400 | 400             | 459       | 1441                   | 465       | 48                 | 82        | 15                            | 21            | 399        | 2590                        | 160,0         | 140,0 | 212-25-082-0400         |                    |

\*WF = wirksame Fläche / effective area

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